idatalink™ **maestro Rr**

HOW TO USE THIS INSTALL GUIDE

1 Open the Bookmarks menu and find your vehicle OR scroll down until you find the install guide for your vehicle.

2 Print only the pages for your vehicle using the advanced options in the Print menu.

3 Install your Maestro RR according to the guide for your vehicle.

WARNING

Pressing the printer icon or "quick printing" this document will print all of the guides in this compilation.

INSTALL GUIDE

2016
SCION IM

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!

OR

PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro HRR-TO1 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-TOY01-DS

ADDITIONAL RESOURCES

Maestro RR2 Programmable Outputs Guide

OPTIONAL ACCESSORIES

K40 ELECTRONICS
ESCORT.

Click here for:
Radar Installation Guides

HEAD UNIT ADAPTER:
ACC-HU-PIO1, SON1, KEN1, KEN2, ALP1

WELCOME

Congratulations on the purchase of your iDatalink Maestro RR Radio replacement solution. You are now a few simple steps away from enjoying your new car radio with enhanced features.

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Remove the factory radio

If using head unit adapter (sold separately), connect HRR-TO1 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-TO1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-TO1 T-harness and match the wire functions.

   Note: only connect purple/white wire to radio reverse input or module damage will occur.

STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-TO1 harness to appropriate HRR adapter cable (D, E or F) then connect to the backup camera harness.

STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble TO1 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-TO1 harness.

STEP 4

- Connect HRR-TO1 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (if there is no iDatalink audio input, connect to AUX).
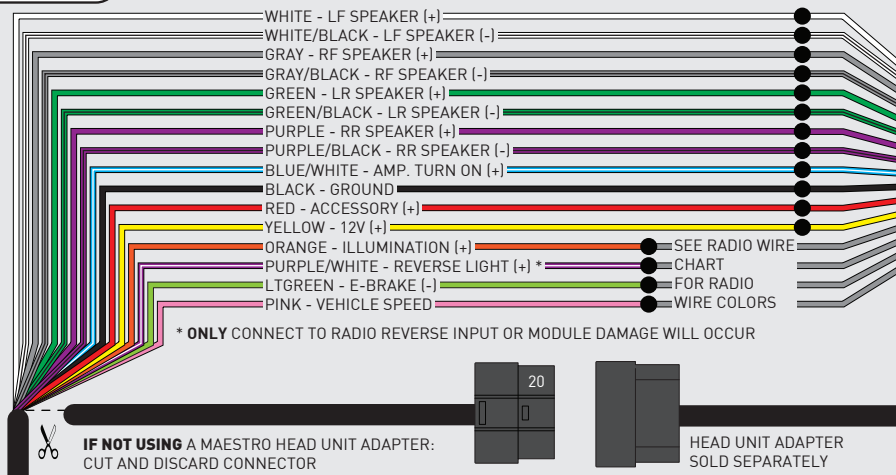
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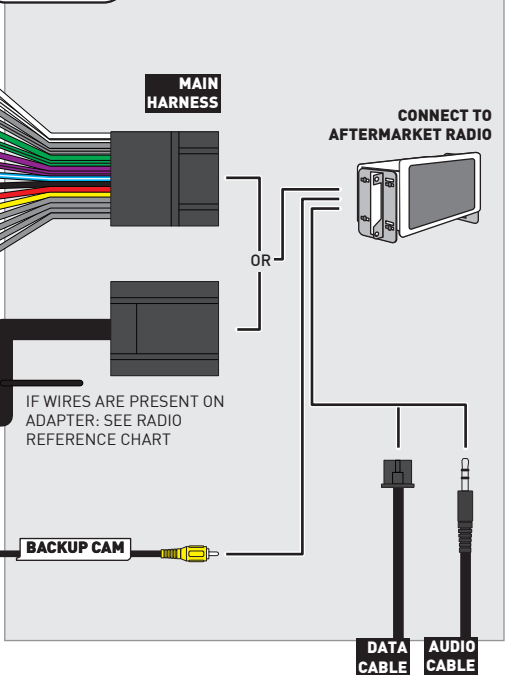
STEP 6

- Connect all the harnesses to the Maestro RR module then test your installation.
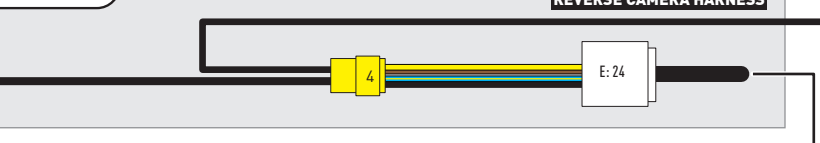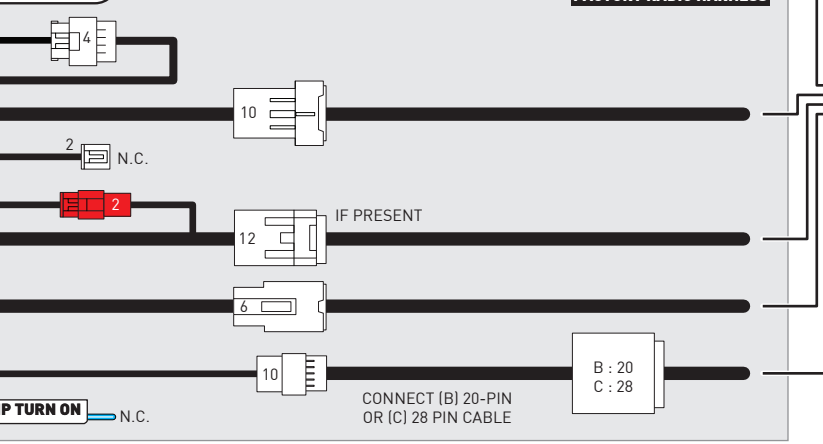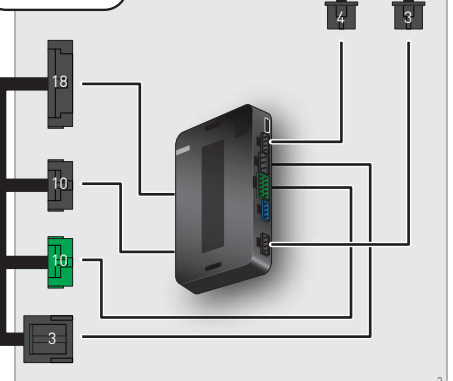
2

WIRING DIAGRAM *without an Amplifier*

STEP 1

WHITE - LF SPEAKER (+)
WHITE/BLACK - LF SPEAKER (-)
GRAY - RF SPEAKER (+)
GRAY/BLACK - RF SPEAKER (-)
GREEN - LR SPEAKER (+)
GREEN/BLACK - LR SPEAKER (-)
PURPLE - RR SPEAKER (+)
PURPLE/BLACK - RR SPEAKER (-)
BLUE/WHITE - AMP. TURN ON (+)
BLACK - GROUND
RED - ACCESSORY (+)
YELLOW - 12V (+)
ORANGE - ILLUMINATION (+)   SEE RADIO WIRE
PURPLE/WHITE - REVERSE LIGHT (+) *   CHART
LTGREEN - E-BRAKE (-)   FOR RADIO
PINK - VEHICLE SPEED   WIRE COLORS

* **ONLY** CONNECT TO RADIO REVERSE INPUT OR MODULE DAMAGE WILL OCCUR

20

IF NOT USING A MAESTRO HEAD UNIT ADAPTER:
CUT AND DISCARD CONNECTOR

HEAD UNIT ADAPTER
SOLD SEPARATELY

MAIN HARNESS

CONNECT TO AFTERMARKET RADIO

OR

IF WIRES ARE PRESENT ON
ADAPTER: SEE RADIO
REFERENCE CHART

STEP 2

REVERSE CAMERA HARNESS

4   E : 24

BACKUP CAM

STEP 3

FACTORY RADIO HARNESS

4

10

2 N.C.

2

12   IF PRESENT

6

10   B : 20
         C : 28

WIRES FROM VEHICLE

DATA CABLE   **AUDIO CABLE**

AMP TURN ON   N.C.

CONNECT (B) 20-PIN
OR (C) 28 PIN CABLE

STEP 4

OBDII CONNECTOR

3   16

STEP 6

4   3

18

10

10

3

HRR-T01 T-HARNESS

NOT REQUIRED

0

4 **STEERING WHEEL CONTROL CABLE**

18
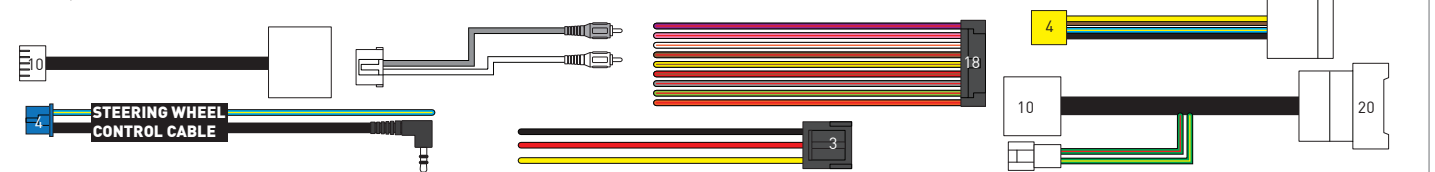
4   10   20

3

RADIO WIRE REFERENCE CHART

TO1 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood/ JVC cable	Wire Color on Pioneer cable	Wire Color on Sony cable
Illumination	(+)	Orange	N/A	Orange/White	Orange/White	Orange
Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Head unit adapter wiring (optional accessory, sold separately)

ACC-HU-ALP1 Wire Description	Polarity	Wire Color on Adapter	Alpine Radio
VSS (vehicle speed sensor)	(DATA)	Green/White	Green/White

ACC-HU-KEN1 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
CAM	(+)	Green/Red	Refer to camera/radio manual
CAM	(-)	Green/White	Refer to camera/radio manual
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

ACC-HU-KEN2 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
E-Brake	(-)	LtGreen	LtGreen
Reverse Light*	(+)	Purple/White	Purple/White
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

* Reverse light wire: Only connect to radio or module damage will occur.

MODULE DIAGNOSTICS

PROGRAMMING BUTTON

LED 1   LED 2

LED 1

LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
● or ●		RED or GREEN flashing	LED flashes 1 or more times, either red or green, **when a steering wheel button is pressed** : normal operation.
●		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do NOT use DEMO MODE.
●		2 RED flashes	Problem detected. Consult troubleshooting table.
●		1 GREEN flash	After radio boots up : Normal operation.
	●	3 GREEN flashes	Bluetooth is activated. Turns off after one minute: Normal operation.
●	●	OFF	Normal operation (inactive).

VIDEO HELP		Installation, product information, vehicle specific videos.
VERIFY FLASH		Last flash information, steering control configuration, vehicle information.
WEBLINK		Software to program module.

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	Ensure OBDII connector is securely attached to the OBDII connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the **RED/BROWN** wire is on **PIN 6** and the **YELLOW/BROWN** wire is connected to **PIN 14** of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended. If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options. Reset the RR.
The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on.	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty. Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
The light on the Maestro is blinking **RED TWICE** but the radio is **NOT** turning on.	If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well. Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	Ensure the 20 or 28-pin connector is plugged to the vehicle and to the TO1 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).
(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

Turn the key to the OFF position, then disconnect all connectors from the module.
Press and hold the module's programming button and connect all the connectors back to the module. Wait, the module's LED will flash RED rapidly (this may take up to 10 seconds).
Release the programming button. Wait, the LED will turn solid GREEN for 2 seconds to show the reset was successful.

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

IMPORTANT: To ensure proper operation, the aftermarket radio needs to have the latest firmware from the manufacturer. Please visit the radio manufacturer's website and look for any updates pertaining to your radio.

INSTALL GUIDE

2011-2016
SCION IQ

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  Note: only connect purple/white wire to radio reverse input or module damage will occur.

STEP 2

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble TO1 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-TO1 harness.

STEP 3

- Connect HRR-TO1 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 4

- Plug the harnesses into the aftermarket radio.
- Plug the Data cable to the data port of the aftermarket radio.
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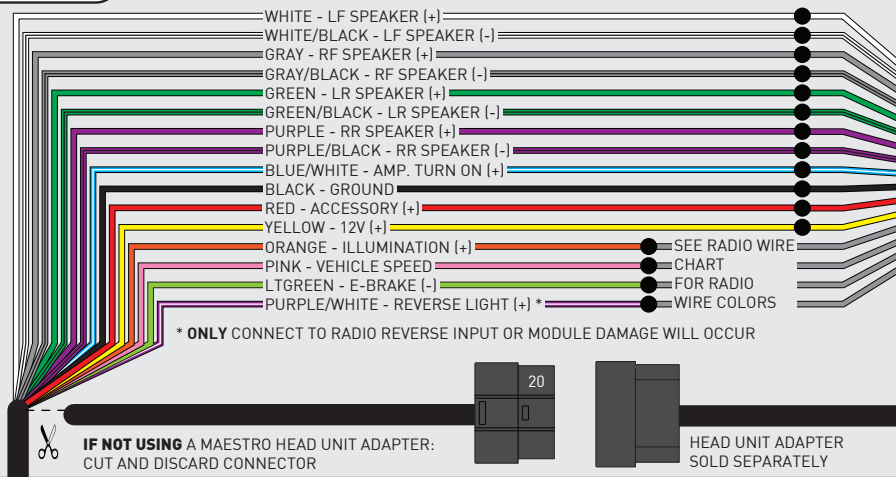
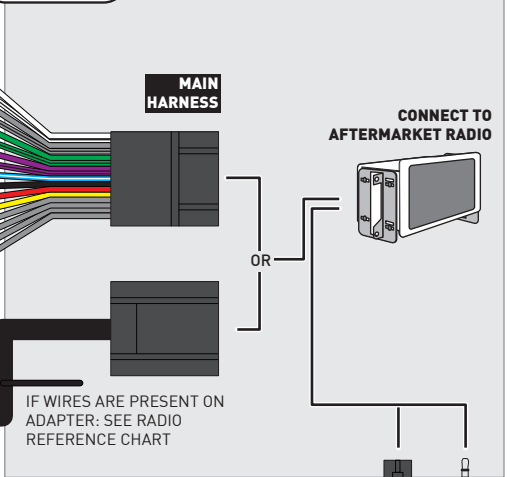 **Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

STEP 5

- Connect all the harnesses to the Maestro RR module then test your installation.
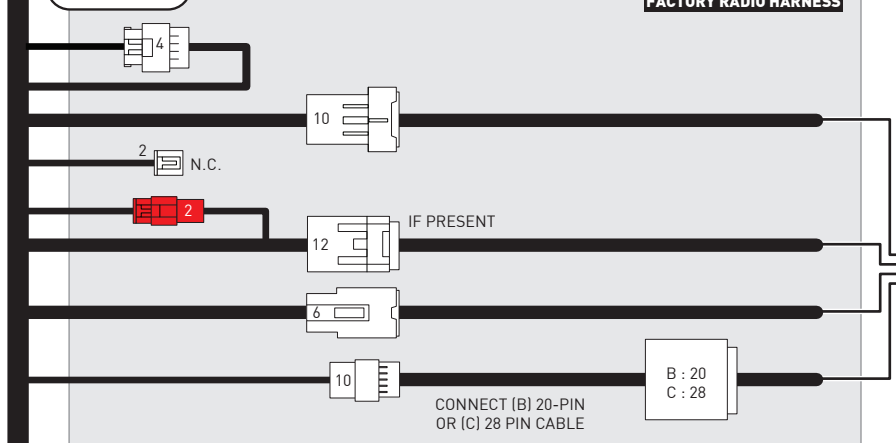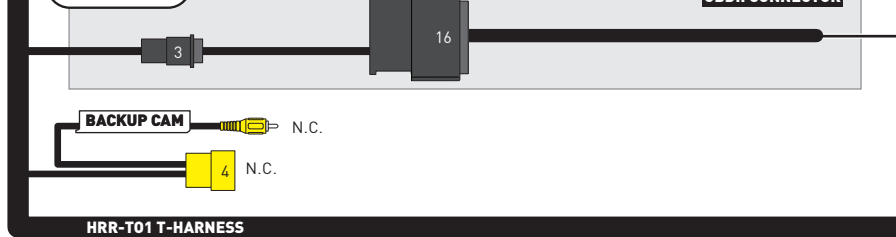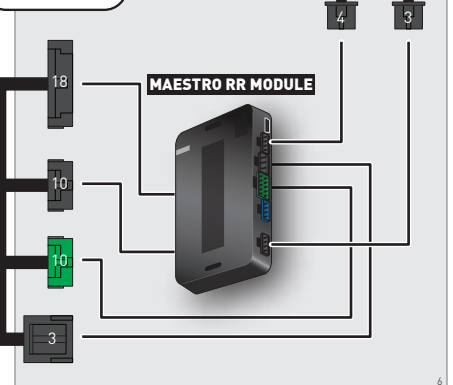
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WIRING DIAGRAM *without an Amplifier*

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LTGREEN - E-BRAKE (-)   FOR RADIO
PURPLE/WHITE - REVERSE LIGHT (+) *   WIRE COLORS

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STEP 4

MAIN HARNESS

CONNECT TO AFTERMARKET RADIO

OR

IF WIRES ARE PRESENT ON ADAPTER: SEE RADIO REFERENCE CHART

20

IF NOT USING A MAESTRO HEAD UNIT ADAPTER: CUT AND DISCARD CONNECTOR

HEAD UNIT ADAPTER SOLD SEPARATELY

STEP 2

FACTORY RADIO HARNESS

4

10

2   N.C.

2

12   IF PRESENT

6

10   CONNECT (B) 20-PIN OR (C) 28 PIN CABLE

B : 20
C : 28

WIRES FROM VEHICLE

DATA CABLE

AUDIO CABLE

AMP TURN ON   N.C.

STEP 5

4

3

STEP 3

3   16   **OBDII CONNECTOR**

BACKUP CAM   N.C.

4   N.C.

HRR-T01 T-HARNESS

18

10

10

3

MAESTRO RR MODULE

6

NOT REQUIRED

10

STEERING WHEEL CONTROL CABLE

4

4   D

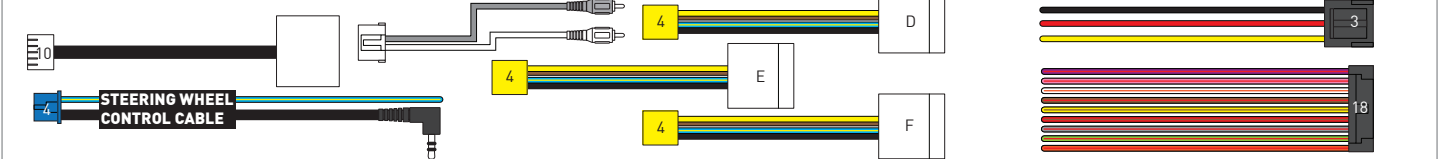4   E

4   F

3

18

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LED 2

LED 1

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The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	Ensure the 20 or 28-pin connector is plugged to the vehicle and to the TO1 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).
(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

Turn the key to the OFF position, then disconnect all connectors from the module.
Press and hold the module's programming button and connect all the connectors back to the module. Wait, the module's LED will flash RED rapidly (this may take up to 10 seconds).
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- Connect the factory harness to the HRR-TO1 harness.

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- Plug the OBDII connector into the OBDII of the vehicle.

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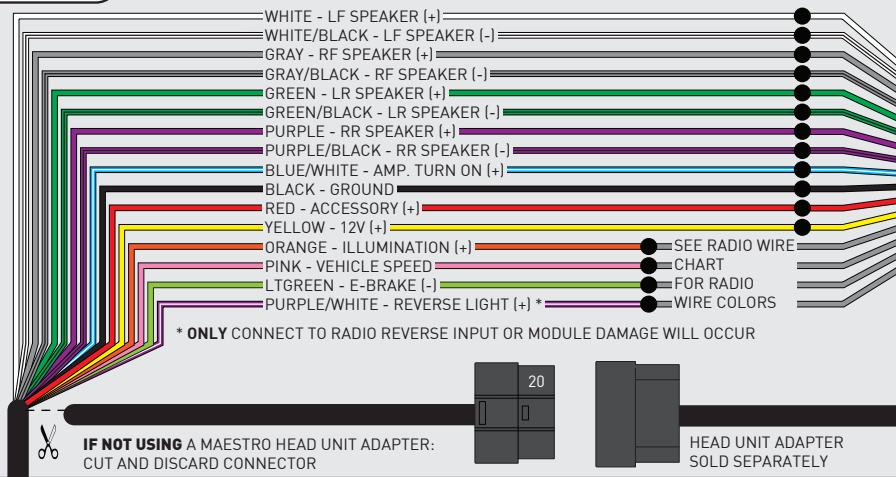
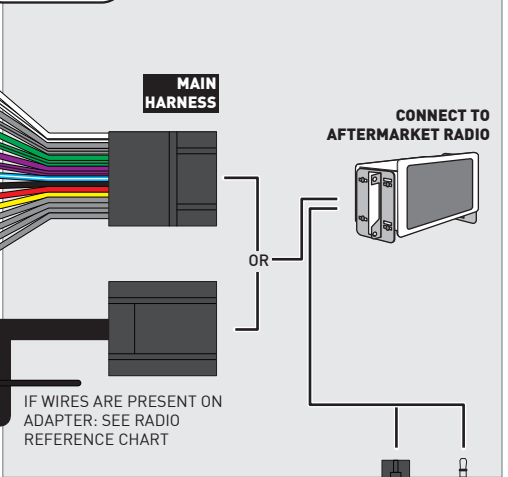 **Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

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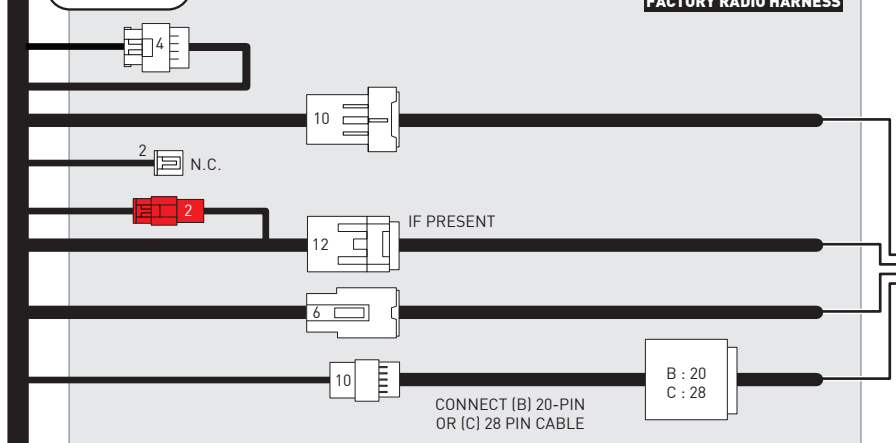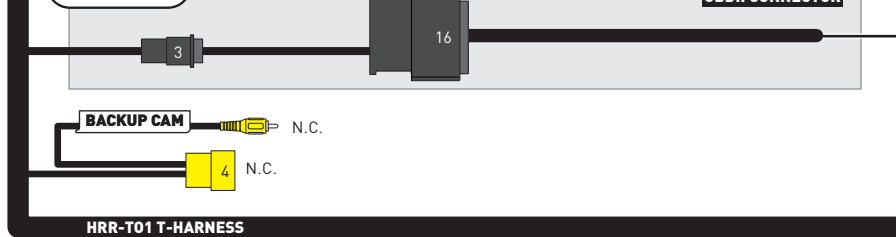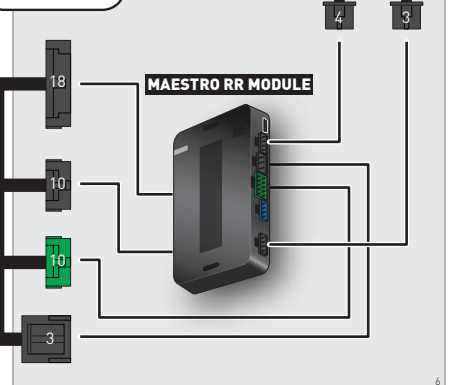
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WIRING DIAGRAM *without an Amplifier*

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OR

IF WIRES ARE PRESENT ON
ADAPTER: SEE RADIO
REFERENCE CHART

STEP 2

FACTORY RADIO HARNESS

4

10

2 — N.C.

2

12 — IF PRESENT

6

10 — CONNECT (B) 20-PIN
OR (C) 28 PIN CABLE

B : 20
C : 28

WIRES FROM VEHICLE

AMP TURN ON — N.C.

STEP 3

3

16

OBDII CONNECTOR

BACKUP CAM — N.C.

4 — N.C.

HRR-TO1 T-HARNESS

STEP 5

DATA CABLE

AUDIO CABLE

4

3

18

10

10

3

MAESTRO RR MODULE

6

NOT REQUIRED

10

STEERING WHEEL CONTROL CABLE

4

4

4

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4
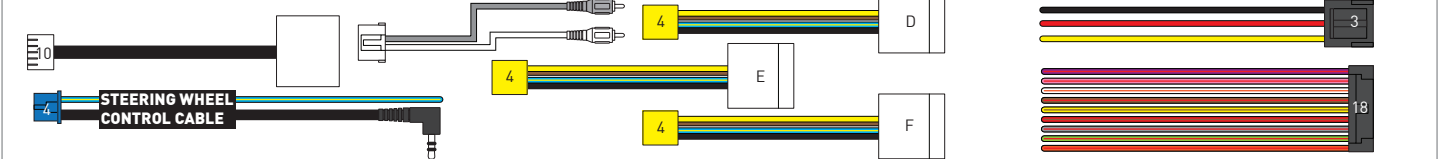
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3

18

RADIO WIRE REFERENCE CHART

TO1 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood/ JVC cable	Wire Color on Pioneer cable	Wire Color on Sony cable
Illumination	(+)	Orange	N/A	Orange/White	Orange/White	Orange
Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Head unit adapter wiring (optional accessory, sold separately)

ACC-HU-ALP1 Wire Description	Polarity	Wire Color on Adapter	Alpine Radio
VSS (vehicle speed sensor)	(DATA)	Green/White	Green/White

ACC-HU-KEN1 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
CAM	(+)	Green/Red	Refer to camera/radio manual
CAM	(-)	Green/White	Refer to camera/radio manual
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

ACC-HU-KEN2 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
E-Brake	(-)	LtGreen	LtGreen
Reverse Light*	(+)	Purple/White	Purple/White
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

* Reverse light wire: Only connect to radio or module damage will occur.

MODULE DIAGNOSTICS

PROGRAMMING BUTTON

LED 1

LED 2

LED 1

LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
● or ●		RED or GREEN flashing	LED flashes 1 or more times, either red or green, **when a steering wheel button is pressed** : normal operation.
●		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do <u>NOT</u> use DEMO MODE.
●		2 RED flashes	Problem detected. Consult troubleshooting table.
●		1 GREEN flash	After radio boots up : Normal operation.
	●	3 GREEN flashes	Bluetooth is activated. Turns off after one minute: Normal operation.
●	●	OFF	Normal operation (inactive).

VIDEO HELP		Installation, product information, vehicle specific videos.
VERIFY FLASH		Last flash information, steering control configuration, vehicle information.
WEBLINK		Software to program module.

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	Ensure OBDII connector is securely attached to the OBDII connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the **RED/BROWN** wire is on **PIN 6** and the **YELLOW/BROWN** wire is connected to **PIN 14** of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended. If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options. Reset the RR.
The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on.	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty. Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
The light on the Maestro is blinking **RED TWICE** but the radio is **NOT** turning on.	If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well. Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	Ensure the 20 or 28-pin connector is plugged to the vehicle and to the TO1 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).
(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

Turn the key to the OFF position, then disconnect all connectors from the module.
Press and hold the module's programming button and connect all the connectors back to the module. Wait, the module's LED will flash RED rapidly (this may take up to 10 seconds).
Release the programming button. Wait, the LED will turn solid GREEN for 2 seconds to show the reset was successful.

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

IMPORTANT: To ensure proper operation, the aftermarket radio needs to have the latest firmware from the manufacturer. Please visit the radio manufacturer's website and look for any updates pertaining to your radio.

maestro **Rr**

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!

OR

PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro HRR-TO1 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-TOY01-DS

ADDITIONAL RESOURCES

Maestro RR2 Programmable Outputs Guide

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K40 ELECTRONICS
ESCORT.

Click here for:
Radar Installation Guides

HEAD UNIT ADAPTER:
ACC-HU-PIO1, SON1, KEN1, KEN2, ALP1

NOTICE: Automotive Data Solutions Inc. (ADS) recommends having this installation performed by a certified technician. Logos and trademarks used here in are the properties of their respective owners.

WELCOME

Congratulations on the purchase of your iDatalink Maestro RR Radio replacement solution. You are now a few simple steps away from enjoying your new car radio with enhanced features.

Before starting your installation, please ensure that your iDatalink Maestro module is programmed with the correct firmware for your vehicle and that you carefully review the install guide.

Please note that Maestro RR will only retain functionalities that were originally available in the vehicle.

TABLE OF CONTENTS

NEED HELP?

📞 1 866 427-2999

✉ maestro.support@idatalink.com

INSTALLATION INSTRUCTIONS P1/1

STEP 1

Remove the factory radio

If using head unit adapter (sold separately), connect HRR-TO1 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-TO1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-TO1 T-harness and match the wire functions.

Note: only connect purple/white wire to radio reverse input or module damage will occur.

STEP 2

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble TO1 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-TO1 harness.

STEP 3

- Connect HRR-TO1 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 4

- Plug the harnesses into the aftermarket radio.
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (if there is no iDatalink audio input, connect to AUX).
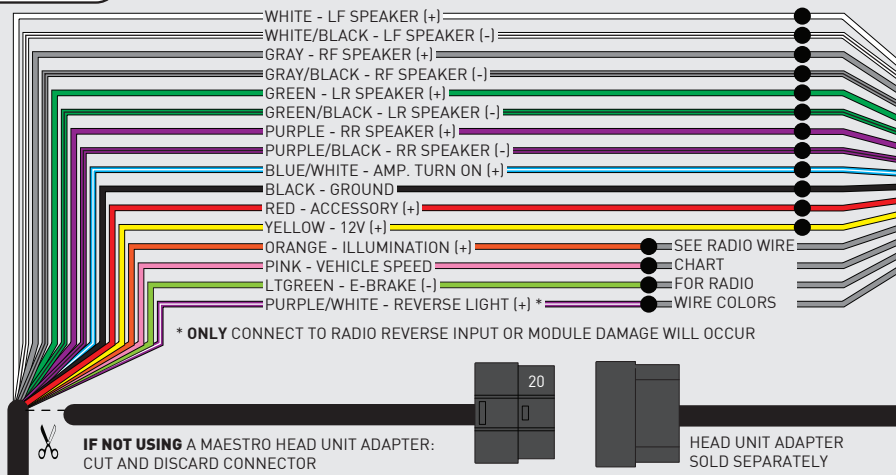
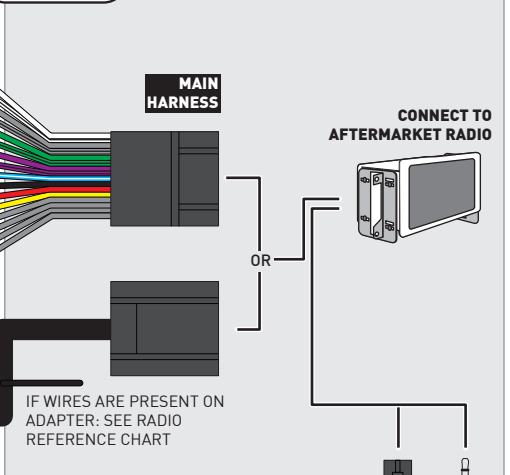**Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

STEP 5

- Connect all the harnesses to the Maestro RR module then test your installation.
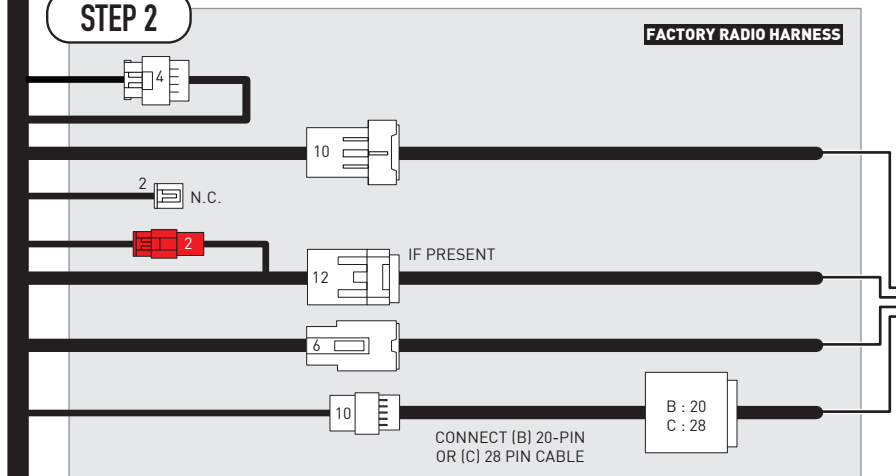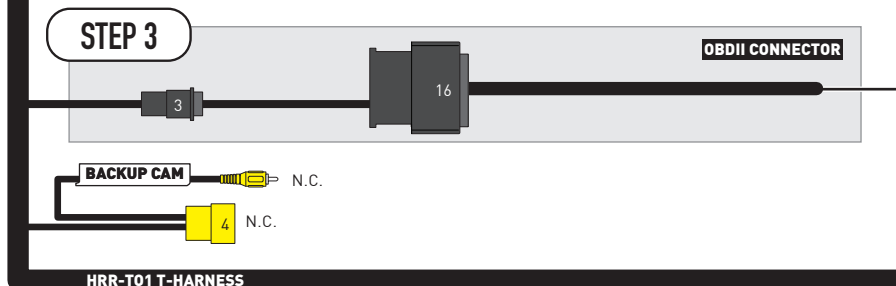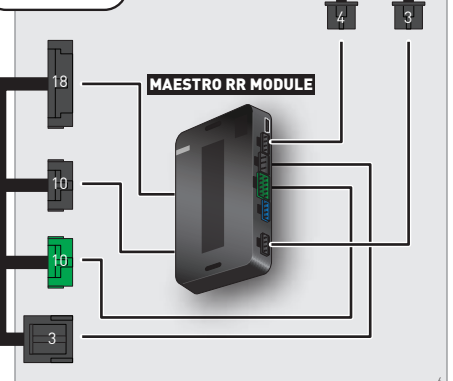
6

WIRING DIAGRAM *without an Amplifier*

STEP 1

- WHITE - LF SPEAKER (+)
- WHITE/BLACK - LF SPEAKER (-)
- GRAY - RF SPEAKER (+)
- GRAY/BLACK - RF SPEAKER (-)
- GREEN - LR SPEAKER (+)
- GREEN/BLACK - LR SPEAKER (-)
- PURPLE - RR SPEAKER (+)
- PURPLE/BLACK - RR SPEAKER (-)
- BLUE/WHITE - AMP. TURN ON (+)
- BLACK - GROUND
- RED - ACCESSORY (+)
- YELLOW - 12V (+)
- ORANGE - ILLUMINATION (+) — SEE RADIO WIRE
- PINK - VEHICLE SPEED — CHART
- LTGREEN - E-BRAKE (-) — FOR RADIO
- PURPLE/WHITE - REVERSE LIGHT (+) * — WIRE COLORS

* **ONLY** CONNECT TO RADIO REVERSE INPUT OR MODULE DAMAGE WILL OCCUR

20

IF NOT USING A MAESTRO HEAD UNIT ADAPTER: CUT AND DISCARD CONNECTOR

HEAD UNIT ADAPTER SOLD SEPARATELY

STEP 4

MAIN HARNESS

CONNECT TO AFTERMARKET RADIO

OR

IF WIRES ARE PRESENT ON ADAPTER: SEE RADIO REFERENCE CHART

STEP 2

FACTORY RADIO HARNESS

4

10

2 — N.C.

2

12 — IF PRESENT

6

10 — CONNECT (B) 20-PIN OR (C) 28 PIN CABLE

B : 20
C : 28

WIRES FROM VEHICLE

AMP TURN ON — N.C.

STEP 3

3

16 — OBDII CONNECTOR

BACKUP CAM — N.C.

4 — N.C.

HRR-T01 T-HARNESS

DATA CABLE

AUDIO CABLE

4

3

STEP 5

18

10

10

3

MAESTRO RR MODULE

6

NOT REQUIRED

10

STEERING WHEEL CONTROL CABLE

4

4

4 — D

4 — E

4 — F
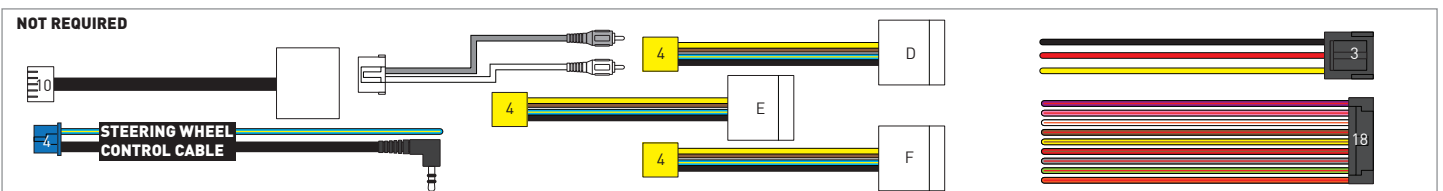
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18

RADIO WIRE REFERENCE CHART

TO1 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood/ JVC cable	Wire Color on Pioneer cable	Wire Color on Sony cable
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Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Head unit adapter wiring (optional accessory, sold separately)

ACC-HU-ALP1 Wire Description	Polarity	Wire Color on Adapter	Alpine Radio
VSS (vehicle speed sensor)	(DATA)	Green/White	Green/White

ACC-HU-KEN1 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
CAM	(+)	Green/Red	Refer to camera/radio manual
CAM	(-)	Green/White	Refer to camera/radio manual
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

ACC-HU-KEN2 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
E-Brake	(-)	LtGreen	LtGreen
Reverse Light*	(+)	Purple/White	Purple/White
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

* Reverse light wire: Only connect to radio or module damage will occur.

MODULE DIAGNOSTICS

PROGRAMMING BUTTON

LED 1

LED 2

LED 1

LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
● or ●		RED or GREEN flashing	LED flashes 1 or more times, either red or green, **when a steering wheel button is pressed** : normal operation.
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INSTALL GUIDE

2008-2014
SCION XD

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!

OR

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iDatalink Maestro HRR-TO1 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-TOY01-DS

ADDITIONAL RESOURCES

Maestro RR2 Programmable Outputs Guide

OPTIONAL ACCESSORIES

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Click here for:
Radar Installation Guides

HEAD UNIT ADAPTER:
ACC-HU-PIO1, SON1, KEN1, KEN2, ALP1

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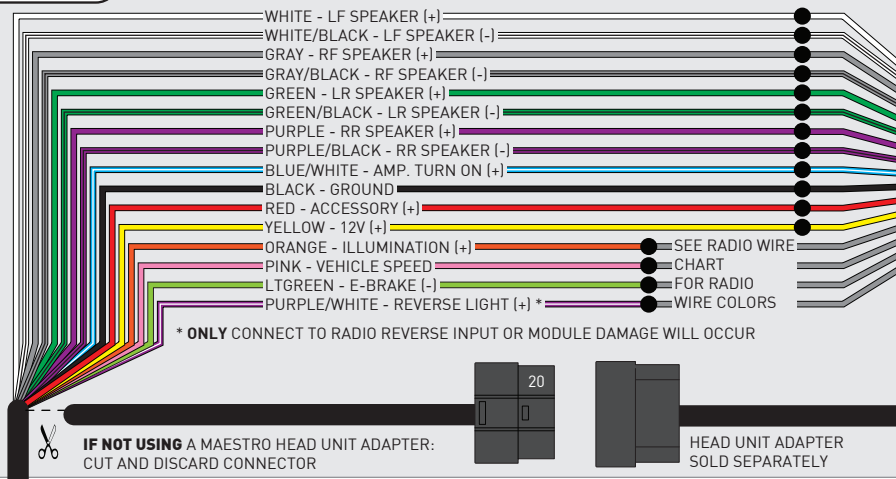
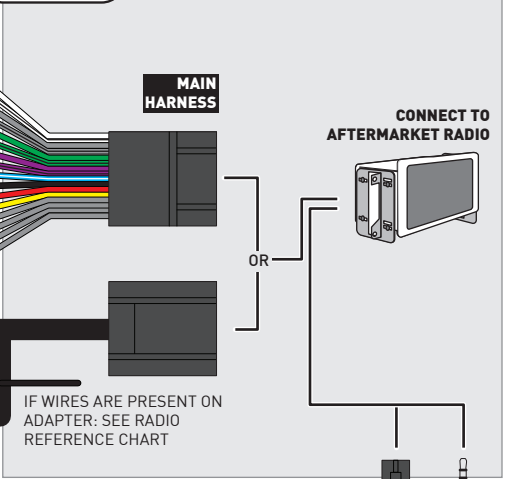   **Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

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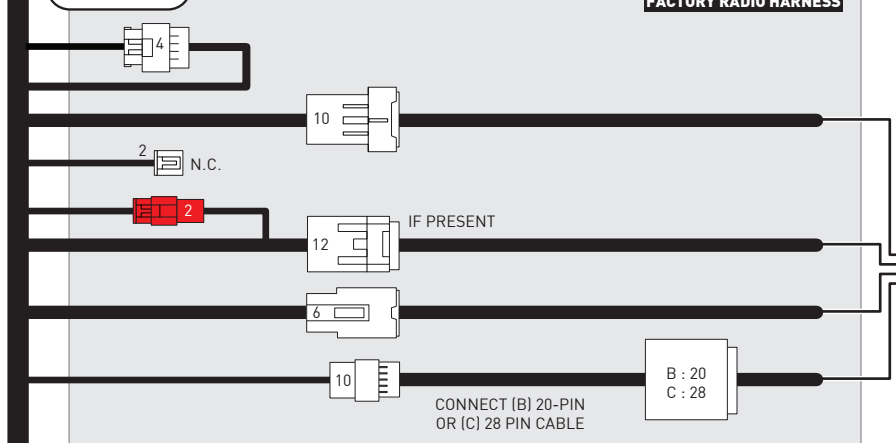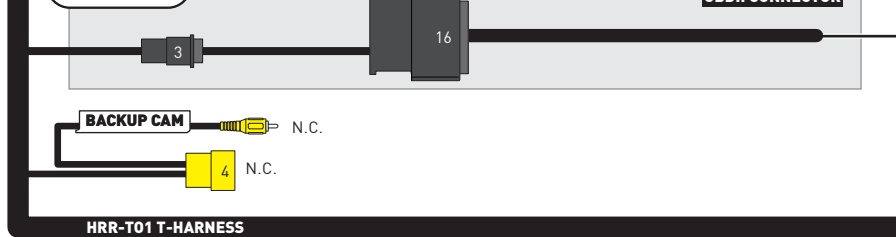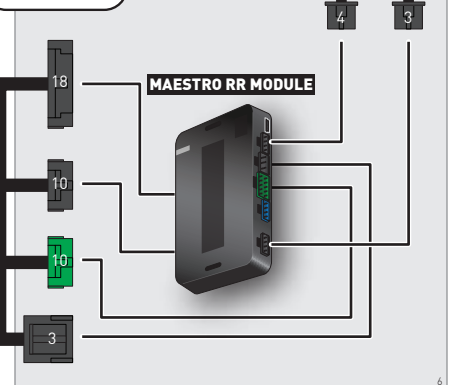
WIRING DIAGRAM *without an Amplifier*

STEP 1

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* **ONLY** CONNECT TO RADIO REVERSE INPUT OR MODULE DAMAGE WILL OCCUR

IF NOT USING A MAESTRO HEAD UNIT ADAPTER:
CUT AND DISCARD CONNECTOR

20

HEAD UNIT ADAPTER
SOLD SEPARATELY

STEP 4

MAIN HARNESS

CONNECT TO AFTERMARKET RADIO

OR

IF WIRES ARE PRESENT ON ADAPTER: SEE RADIO REFERENCE CHART

STEP 2

FACTORY RADIO HARNESS

4

10

2   N.C.

2

12   IF PRESENT

6

10   CONNECT (B) 20-PIN
OR (C) 28 PIN CABLE

B : 20
C : 28

WIRES FROM VEHICLE

AMP TURN ON   N.C.

STEP 3

3

16   OBDII CONNECTOR

BACKUP CAM   N.C.

4   N.C.

HRR-TO1 T-HARNESS

STEP 5

DATA CABLE   AUDIO CABLE

4   3

18

10

10

3

MAESTRO RR MODULE

6

NOT REQUIRED
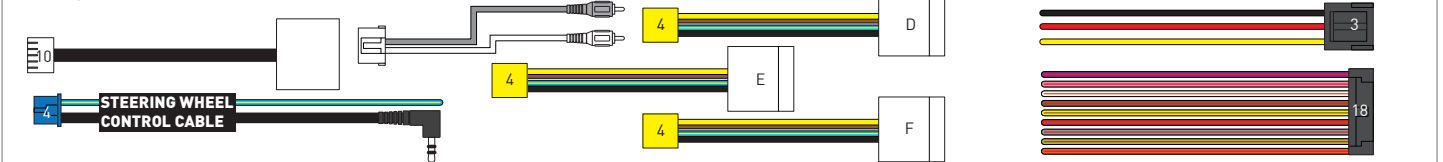
10

STEERING WHEEL CONTROL CABLE

4

4   D

4   E

4   F

3

18

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(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

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maestro **Ar**

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!

OR

PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro HRR-TO1 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-TOY01-DS

ADDITIONAL RESOURCES

Maestro RR2 Programmable Outputs Guide

OPTIONAL ACCESSORIES

K40
ELECTRONICS
ESCORT.

Click here for:
Radar Installation Guides

HEAD UNIT ADAPTER:
ACC-HU-PIO1, SON1, KEN1, KEN2, ALP1

NOTICE: Automotive Data Solutions Inc. (ADS) recommends having this installation performed by a certified technician. Logos and trademarks used here in are the properties of their respective owners.

WELCOME

Congratulations on the purchase of your iDatalink Maestro RR Radio replacement solution. You are now a few simple steps away from enjoying your new car radio with enhanced features.

Before starting your installation, please ensure that your iDatalink Maestro module is programmed with the correct firmware for your vehicle and that you carefully review the install guide.

Please note that Maestro RR will only retain functionalities that were originally available in the vehicle.

NEED HELP?

📞 1 866 427-2999

✉ maestro.support@idatalink.com

INSTALLATION INSTRUCTIONS P1/1

STEP 1

Remove the factory radio

If using head unit adapter (sold separately), connect HRR-TO1 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-TO1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-TO1 T-harness and match the wire functions.

  Note: only connect purple/white wire to radio reverse input or module damage will occur.

STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-TO1 harness to appropriate HRR adapter cable (D, E or F) then connect to the backup camera harness.

STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble TO1 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-TO1 harness.

STEP 4

- Connect HRR-TO1 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the left front and right front low level outputs RCA cables into the aftermarket radio.
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (if there is no iDatalink audio input, connect to AUX).
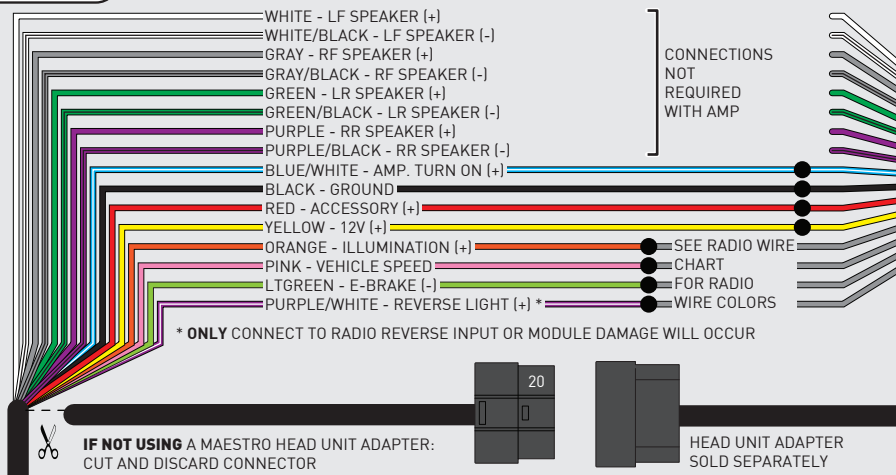
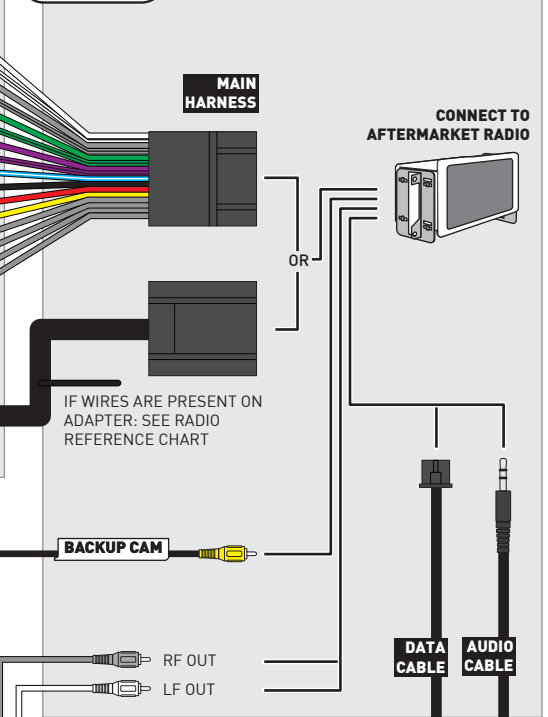Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.

STEP 6

- Connect all the harnesses to the Maestro RR module then test your installation.
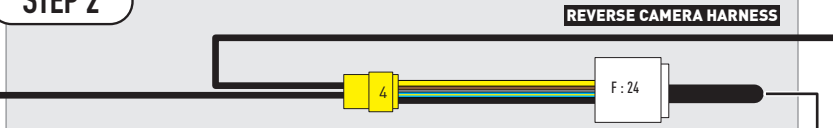
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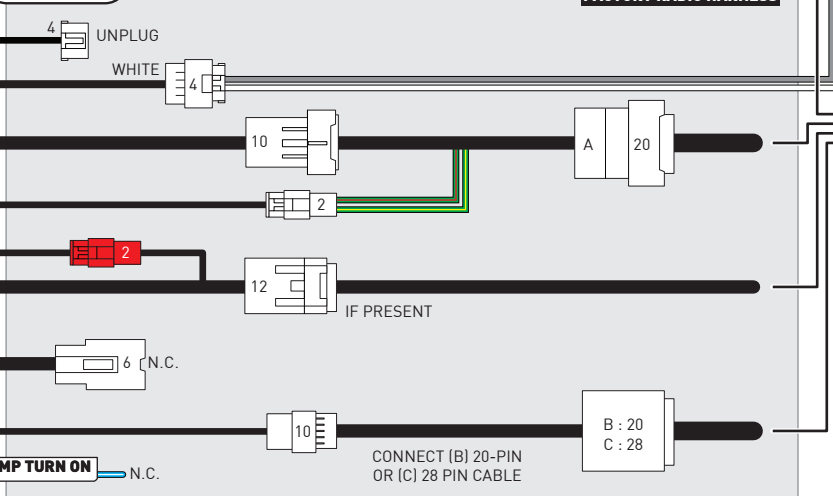# WIRING DIAGRAM *with an Amplifier*

STEP 1

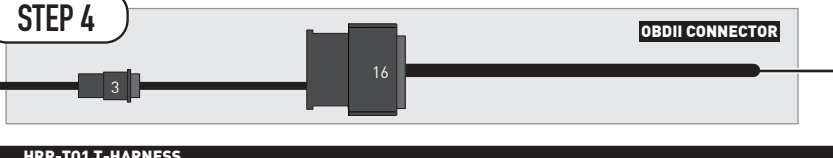WHITE - LF SPEAKER (+)
WHITE/BLACK - LF SPEAKER (-)
GRAY - RF SPEAKER (+)
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GREEN - LR SPEAKER (+)
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PURPLE - RR SPEAKER (+)
PURPLE/BLACK - RR SPEAKER (-)

CONNECTIONS NOT REQUIRED WITH AMP

BLUE/WHITE - AMP. TURN ON (+)
BLACK - GROUND
RED - ACCESSORY (+)
YELLOW - 12V (+)
ORANGE - ILLUMINATION (+)
PINK - VEHICLE SPEED
LTGREEN - E-BRAKE (-)
PURPLE/WHITE - REVERSE LIGHT (+) *

SEE RADIO WIRE CHART FOR RADIO WIRE COLORS

* **ONLY** CONNECT TO RADIO REVERSE INPUT OR MODULE DAMAGE WILL OCCUR

MAIN HARNESS

CONNECT TO AFTERMARKET RADIO

OR

STEP 5

IF WIRES ARE PRESENT ON ADAPTER: SEE RADIO REFERENCE CHART

20

IF NOT USING A MAESTRO HEAD UNIT ADAPTER:
CUT AND DISCARD CONNECTOR

HEAD UNIT ADAPTER SOLD SEPARATELY

STEP 2

REVERSE CAMERA HARNESS

BACKUP CAM

4   F : 24

DATA CABLE   **AUDIO CABLE**

RF OUT

LF OUT

STEP 3

FACTORY RADIO HARNESS

4   UNPLUG

WHITE
4

10   A   20

2

2

12   IF PRESENT

WIRES FROM VEHICLE

6   N.C.

10   B : 20
C : 28

AMP TURN ON   N.C.

CONNECT (B) 20-PIN OR (C) 28 PIN CABLE

STEP 6

18

MAESTRO RR MODULE

10

10

3

STEP 4

OBDII CONNECTOR

3   16

HRR-T01 T-HARNESS

NOT REQUIRED

10

4

18

4   **STEERING WHEEL CONTROL CABLE**
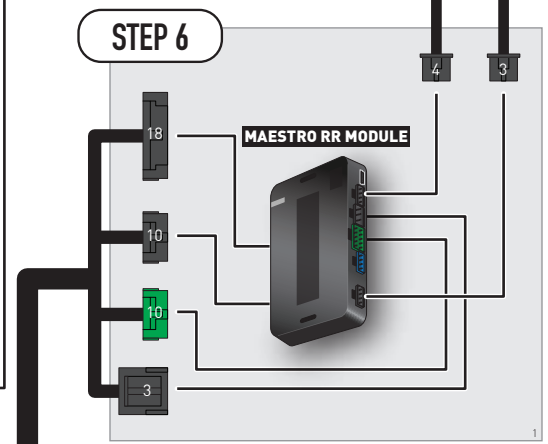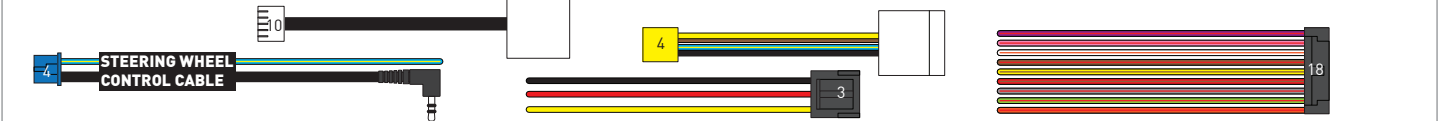
3

RADIO WIRE REFERENCE CHART

TO1 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood/ JVC cable	Wire Color on Pioneer cable	Wire Color on Sony cable
Illumination	(+)	Orange	N/A	Orange/White	Orange/White	Orange
Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Head unit adapter wiring (optional accessory, sold separately)

ACC-HU-ALP1 Wire Description	Polarity	Wire Color on Adapter	Alpine Radio
VSS (vehicle speed sensor)	(DATA)	Green/White	Green/White

ACC-HU-KEN1 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
CAM	(+)	Green/Red	Refer to camera/radio manual
CAM	(-)	Green/White	Refer to camera/radio manual
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

ACC-HU-KEN2 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
E-Brake	(-)	LtGreen	LtGreen
Reverse Light*	(+)	Purple/White	Purple/White
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

* Reverse light wire: Only connect to radio or module damage will occur.

MODULE DIAGNOSTICS

PROGRAMMING BUTTON

LED 1

LED 2

LED 1

LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
● or ●		RED or GREEN flashing	LED flashes 1 or more times, either red or green, **when a steering wheel button is pressed** : normal operation.
●		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do <u>NOT</u> use DEMO MODE.
●		2 RED flashes	Problem detected. Consult troubleshooting table.
●		1 GREEN flash	After radio boots up : Normal operation.
	●	3 GREEN flashes	Bluetooth is activated. Turns off after one minute: Normal operation.
●	●	OFF	Normal operation (inactive).

VIDEO HELP		Installation, product information, vehicle specific videos.
VERIFY FLASH		Last flash information, steering control configuration, vehicle information.
WEBLINK		Software to program module.

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	Ensure OBDII connector is securely attached to the OBDII connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the **RED/BROWN** wire is on **PIN 6** and the **YELLOW/BROWN** wire is connected to **PIN 14** of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended. If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options. Reset the RR.
The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on.	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty. Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
The light on the Maestro is blinking **RED TWICE** but the radio is **NOT** turning on.	If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well. Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	Ensure the 20 or 28-pin connector is plugged to the vehicle and to the TO1 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).
(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

Turn the key to the OFF position, then disconnect all connectors from the module.
Press and hold the module's programming button and connect all the connectors back to the module. Wait, the module's LED will flash RED rapidly (this may take up to 10 seconds).
Release the programming button. Wait, the LED will turn solid GREEN for 2 seconds to show the reset was successful.

TECHNICAL ASSISTANCE

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IMPORTANT: To ensure proper operation, the aftermarket radio needs to have the latest firmware from the manufacturer. Please visit the radio manufacturer's website and look for any updates pertaining to your radio.

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!

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- Cut and remove the black 20 pin connector from the HRR-TO1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-TO1 T-harness and match the wire functions.

Note: only connect purple/white wire to radio reverse input or module damage will occur.

STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-TO1 harness to appropriate HRR adapter cable (D, E or F) then connect to the backup camera harness.

STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble TO1 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-TO1 harness.

STEP 4

- Connect HRR-TO1 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the left front and right front low level outputs RCA cables into the aftermarket radio.
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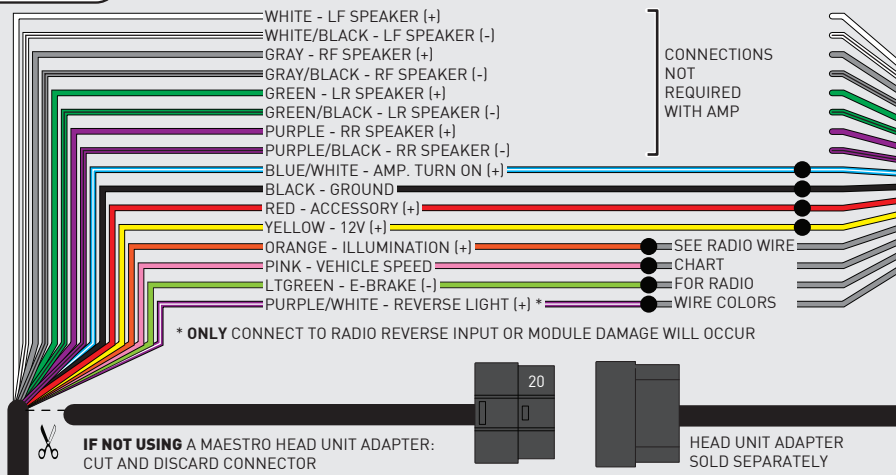
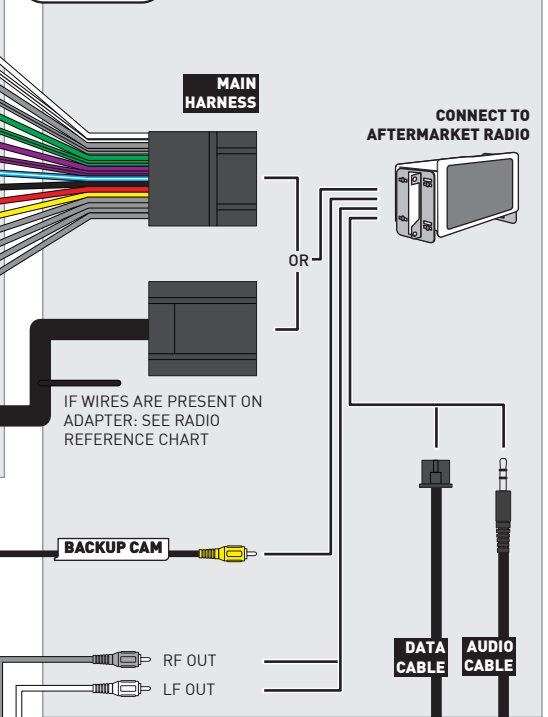Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.

STEP 6

- Connect all the harnesses to the Maestro RR module then test your installation.
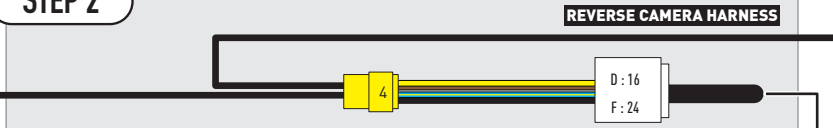
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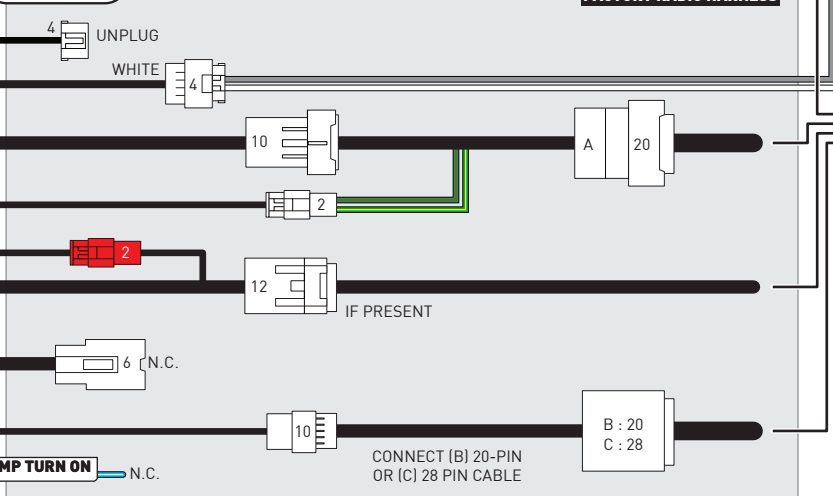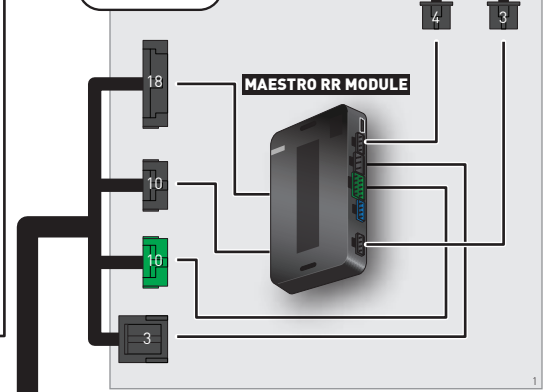# WIRING DIAGRAM *with an Amplifier*

STEP 1

WHITE - LF SPEAKER (+)
WHITE/BLACK - LF SPEAKER (-)
GRAY - RF SPEAKER (+)
GRAY/BLACK - RF SPEAKER (-)
GREEN - LR SPEAKER (+)
GREEN/BLACK - LR SPEAKER (-)
PURPLE - RR SPEAKER (+)
PURPLE/BLACK - RR SPEAKER (-)

CONNECTIONS
NOT
REQUIRED
WITH AMP

BLUE/WHITE - AMP. TURN ON (+)
BLACK - GROUND
RED - ACCESSORY (+)
YELLOW - 12V (+)
ORANGE - ILLUMINATION (+)
PINK - VEHICLE SPEED
LTGREEN - E-BRAKE (-)
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SEE RADIO WIRE
CHART
FOR RADIO
WIRE COLORS

* **ONLY** CONNECT TO RADIO REVERSE INPUT OR MODULE DAMAGE WILL OCCUR

IF NOT USING A MAESTRO HEAD UNIT ADAPTER:
CUT AND DISCARD CONNECTOR

20

HEAD UNIT ADAPTER
SOLD SEPARATELY

STEP 5

MAIN
HARNESS

CONNECT TO
AFTERMARKET RADIO

OR

IF WIRES ARE PRESENT ON
ADAPTER: SEE RADIO
REFERENCE CHART

STEP 2

REVERSE CAMERA HARNESS

BACKUP CAM

4

D : 16
F : 24

RF OUT

LF OUT

DATA
CABLE

AUDIO
CABLE

STEP 3

FACTORY RADIO HARNESS

4 UNPLUG

WHITE

4

10

A   20

2

WIRES FROM
VEHICLE

2

12   IF PRESENT

STEP 6

6 N.C.

10

B : 20
C : 28

CONNECT (B) 20-PIN
OR (C) 28 PIN CABLE

AMP TURN ON   N.C.

MAESTRO RR MODULE

18

10

10

3

STEP 4

OBDII CONNECTOR

3

16

HRR-T01 T-HARNESS
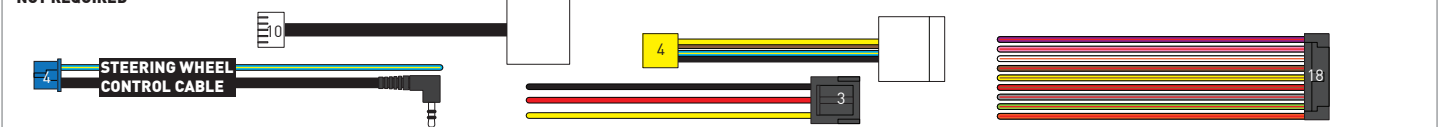
NOT REQUIRED

10

4   STEERING WHEEL
CONTROL CABLE

4

3

18

RADIO WIRE REFERENCE CHART

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* Reverse light wire: Only connect to radio or module damage will occur.

smerge

MODULE DIAGNOSTICS

PROGRAMMING BUTTON

LED 1

LED 2

LED 1

LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
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●		1 GREEN flash	After radio boots up : Normal operation.
	●	3 GREEN flashes	Bluetooth is activated. Turns off after one minute: Normal operation.
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VIDEO HELP		Installation, product information, vehicle specific videos.
VERIFY FLASH		Last flash information, steering control configuration, vehicle information.
WEBLINK		Software to program module.

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(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

Turn the key to the OFF position, then disconnect all connectors from the module.
Press and hold the module's programming button and connect all the connectors back to the module. Wait, the module's LED will flash RED rapidly (this may take up to 10 seconds).
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  Note: only connect purple/white wire to radio reverse input or module damage will occur.

STEP 2

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble TO1 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-TO1 harness.

STEP 3

- Connect HRR-TO1 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 4

- Plug the harnesses into the aftermarket radio.
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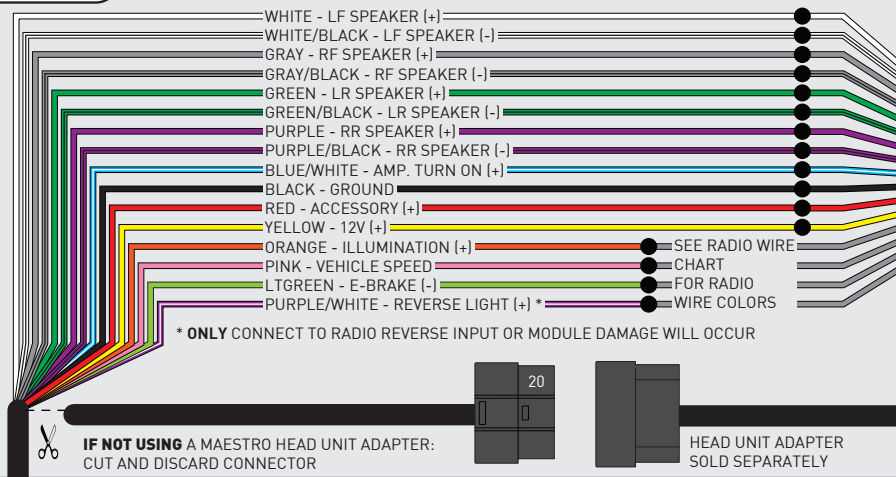
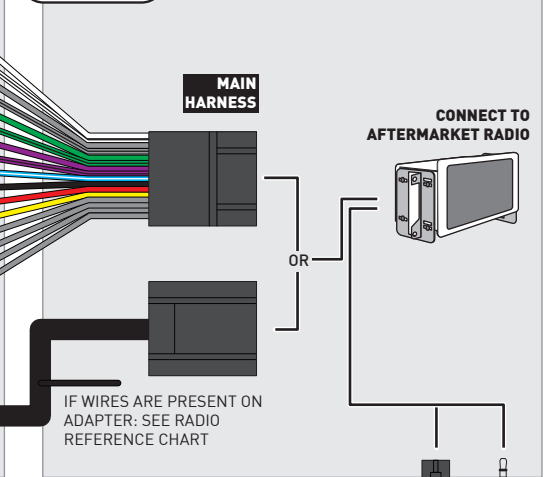 **Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

STEP 5

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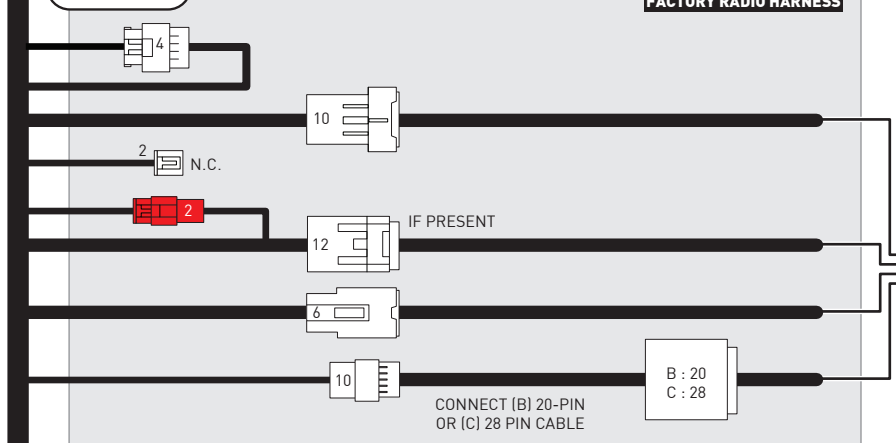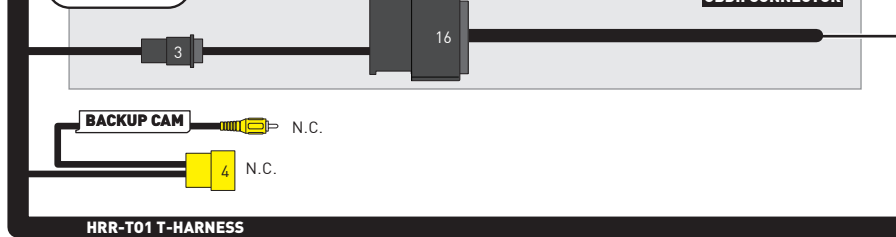6

WIRING DIAGRAM *without an Amplifier*

STEP 1

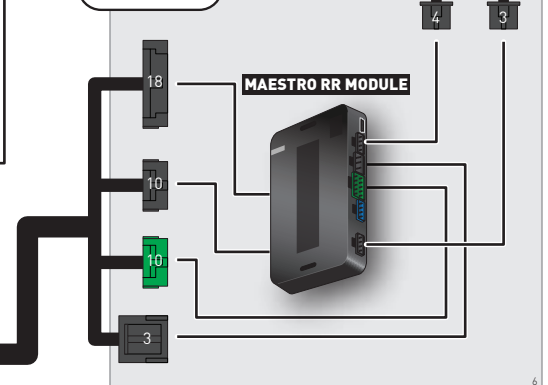WHITE - LF SPEAKER (+)
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PURPLE - RR SPEAKER (+)
PURPLE/BLACK - RR SPEAKER (-)
BLUE/WHITE - AMP. TURN ON (+)
BLACK - GROUND
RED - ACCESSORY (+)
YELLOW - 12V (+)
ORANGE - ILLUMINATION (+) — SEE RADIO WIRE
PINK - VEHICLE SPEED — CHART
LTGREEN - E-BRAKE (-) — FOR RADIO
PURPLE/WHITE - REVERSE LIGHT (+) * — WIRE COLORS

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HEAD UNIT ADAPTER
SOLD SEPARATELY

STEP 4

MAIN HARNESS

CONNECT TO AFTERMARKET RADIO

OR

IF WIRES ARE PRESENT ON
ADAPTER: SEE RADIO
REFERENCE CHART

STEP 2

FACTORY RADIO HARNESS

4

10

2 — N.C.

2

12 — IF PRESENT

6

10 — CONNECT (B) 20-PIN
OR (C) 28 PIN CABLE

B : 20
C : 28

WIRES FROM VEHICLE

AMP TURN ON — N.C.

STEP 3

3

16 — **OBDII CONNECTOR**

BACKUP CAM — N.C.

4 — N.C.

HRR-TO1 T-HARNESS

DATA CABLE

AUDIO CABLE

STEP 5

4

3

18

10

10

3

MAESTRO RR MODULE

6

NOT REQUIRED

10

STEERING WHEEL CONTROL CABLE

4

4 — D

4 — E

4 — F

3

18

RADIO WIRE REFERENCE CHART

TO1 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood/ JVC cable	Wire Color on Pioneer cable	Wire Color on Sony cable
Illumination	(+)	Orange	N/A	Orange/White	Orange/White	Orange
Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Head unit adapter wiring (optional accessory, sold separately)

ACC-HU-ALP1 Wire Description	Polarity	Wire Color on Adapter	Alpine Radio
VSS (vehicle speed sensor)	(DATA)	Green/White	Green/White

ACC-HU-KEN1 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
CAM	(+)	Green/Red	Refer to camera/radio manual
CAM	(-)	Green/White	Refer to camera/radio manual
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

ACC-HU-KEN2 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
E-Brake	(-)	LtGreen	LtGreen
Reverse Light*	(+)	Purple/White	Purple/White
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

* Reverse light wire: Only connect to radio or module damage will occur.

MODULE DIAGNOSTICS

PROGRAMMING BUTTON

LED 1

LED 2

LED 1

LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
● or ●		RED or GREEN flashing	LED flashes 1 or more times, either red or green, **when a steering wheel button is pressed** : normal operation.
●		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do <u>NOT</u> use DEMO MODE.
●		2 RED flashes	Problem detected. Consult troubleshooting table.
●		1 GREEN flash	After radio boots up : Normal operation.
	●	3 GREEN flashes	Bluetooth is activated. Turns off after one minute: Normal operation.
●	●	OFF	Normal operation (inactive).

VIDEO HELP		Installation, product information, vehicle specific videos.
VERIFY FLASH		Last flash information, steering control configuration, vehicle information.
WEBLINK		Software to program module.

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	Ensure OBDII connector is securely attached to the OBDII connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the **RED/BROWN** wire is on **PIN 6** and the **YELLOW/BROWN** wire is connected to **PIN 14** of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended. If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options. Reset the RR.
The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on.	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty. Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
The light on the Maestro is blinking **RED TWICE** but the radio is **NOT** turning on.	If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well. Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	Ensure the 20 or 28-pin connector is plugged to the vehicle and to the TO1 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).
(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

Turn the key to the OFF position, then disconnect all connectors from the module.
Press and hold the module's programming button and connect all the connectors back to the module. Wait, the module's LED will flash RED rapidly (this may take up to 10 seconds).
Release the programming button. Wait, the LED will turn solid GREEN for 2 seconds to show the reset was successful.

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

IMPORTANT: To ensure proper operation, the aftermarket radio needs to have the latest firmware from the manufacturer. Please visit the radio manufacturer's website and look for any updates pertaining to your radio.

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!

OR

PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro HRR-TO1 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-TOY01-DS

ADDITIONAL RESOURCES

Maestro RR2 Programmable Outputs Guide

OPTIONAL ACCESSORIES

Click here for:
Radar Installation Guides

HEAD UNIT ADAPTER:
ACC-HU-PIO1, SON1, KEN1, KEN2, ALP1

WELCOME

Congratulations on the purchase of your iDatalink Maestro RR Radio replacement solution. You are now a few simple steps away from enjoying your new car radio with enhanced features.

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Please note that Maestro RR will only retain functionalities that were originally available in the vehicle.

TABLE OF CONTENTS

NEED HELP?

📞 1 866 427-2999

✉ maestro.support@idatalink.com

INSTALLATION INSTRUCTIONS P1 /1

STEP 1

Remove the factory radio

If using head unit adapter (sold separately), connect HRR-TO1 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-TO1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-TO1 T-harness and match the wire functions.

  Note: only connect purple/white wire to radio reverse input or module damage will occur.

STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-TO1 harness to appropriate HRR adapter cable (D, E or F) then connect to the backup camera harness.

STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble TO1 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-TO1 harness.

STEP 4

- Connect HRR-TO1 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (if there is no iDatalink audio input, connect to AUX).
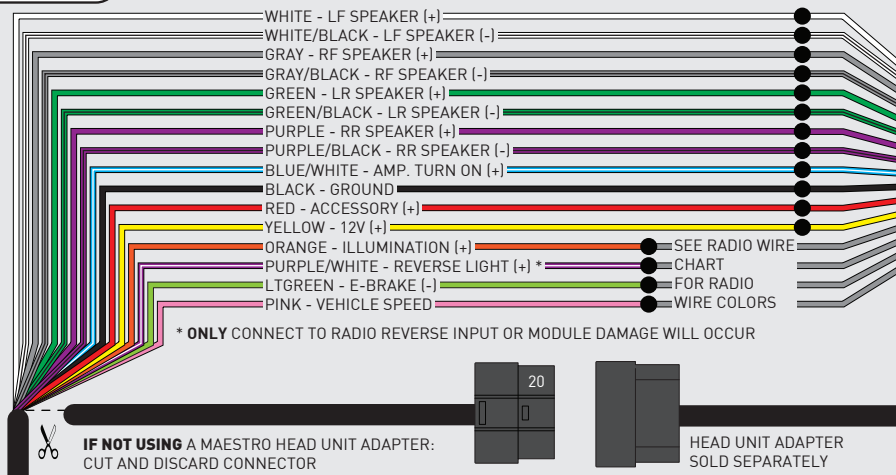
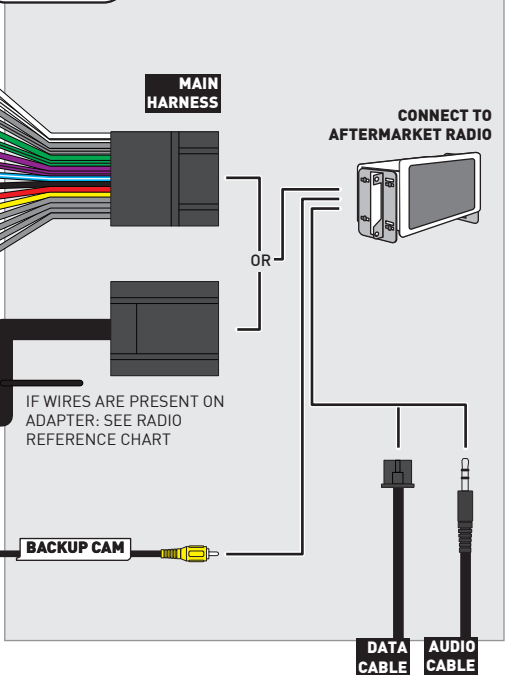 **Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

STEP 6

- Connect all the harnesses to the Maestro RR module then test your installation.
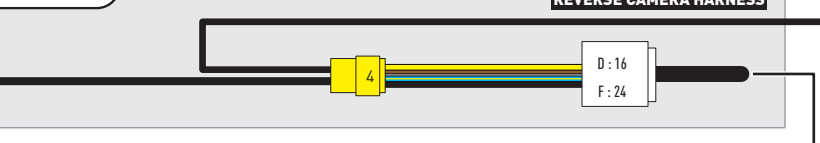
2

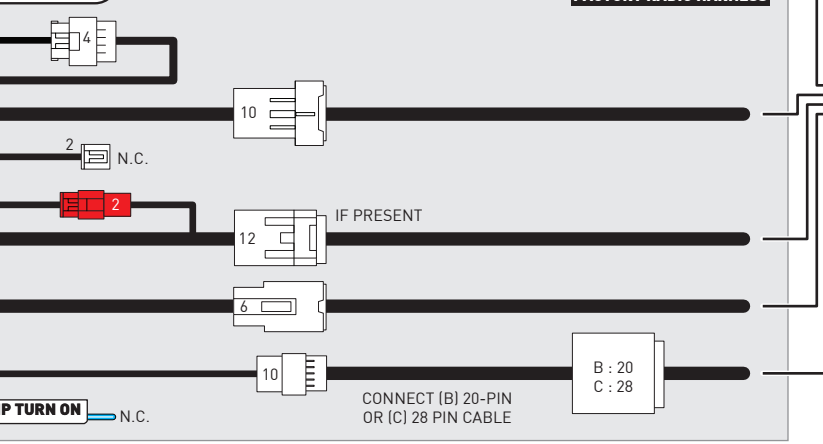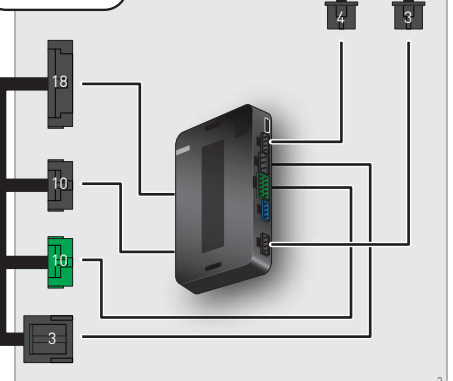# WIRING DIAGRAM *without an Amplifier*

STEP 1

WHITE - LF SPEAKER (+)
WHITE/BLACK - LF SPEAKER (-)
GRAY - RF SPEAKER (+)
GRAY/BLACK - RF SPEAKER (-)
GREEN - LR SPEAKER (+)
GREEN/BLACK - LR SPEAKER (-)
PURPLE - RR SPEAKER (+)
PURPLE/BLACK - RR SPEAKER (-)
BLUE/WHITE - AMP. TURN ON (+)
BLACK - GROUND
RED - ACCESSORY (+)
YELLOW - 12V (+)
ORANGE - ILLUMINATION (+)   SEE RADIO WIRE
PURPLE/WHITE - REVERSE LIGHT (+) *   CHART
LTGREEN - E-BRAKE (-)   FOR RADIO
PINK - VEHICLE SPEED   WIRE COLORS

* **ONLY** CONNECT TO RADIO REVERSE INPUT OR MODULE DAMAGE WILL OCCUR

20

IF NOT USING A MAESTRO HEAD UNIT ADAPTER:
CUT AND DISCARD CONNECTOR

HEAD UNIT ADAPTER
SOLD SEPARATELY

STEP 5

MAIN
HARNESS

CONNECT TO
AFTERMARKET RADIO

OR

IF WIRES ARE PRESENT ON
ADAPTER: SEE RADIO
REFERENCE CHART

STEP 2

REVERSE CAMERA HARNESS

4

D : 16
F : 24

BACKUP CAM

DATA
CABLE

AUDIO
CABLE

STEP 3

FACTORY RADIO HARNESS

4

10

2   N.C.

2

12   IF PRESENT

6

10   B : 20
          C : 28

CONNECT (B) 20-PIN
OR (C) 28 PIN CABLE

AMP TURN ON   N.C.

WIRES FROM
VEHICLE

STEP 6

18

10

10

3

4

3

STEP 4

OBDII CONNECTOR

3   16

HRR-T01 T-HARNESS

NOT REQUIRED

10

STEERING WHEEL
CONTROL CABLE

4

18

3

4

10

20

RADIO WIRE REFERENCE CHART

TO1 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood/ JVC cable	Wire Color on Pioneer cable	Wire Color on Sony cable
Illumination	(+)	Orange	N/A	Orange/White	Orange/White	Orange
Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Head unit adapter wiring (optional accessory, sold separately)

ACC-HU-ALP1 Wire Description	Polarity	Wire Color on Adapter	Alpine Radio
VSS (vehicle speed sensor)	(DATA)	Green/White	Green/White

ACC-HU-KEN1 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
CAM	(+)	Green/Red	Refer to camera/radio manual
CAM	(-)	Green/White	Refer to camera/radio manual
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

ACC-HU-KEN2 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
E-Brake	(-)	LtGreen	LtGreen
Reverse Light*	(+)	Purple/White	Purple/White
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

* Reverse light wire: Only connect to radio or module damage will occur.

MODULE DIAGNOSTICS

PROGRAMMING BUTTON
LED 1
LED 2
LED 1

LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
● or ●		RED or GREEN flashing	LED flashes 1 or more times, either red or green, **when a steering wheel button is pressed** : normal operation.
●		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do NOT use DEMO MODE.
●		2 RED flashes	Problem detected. Consult troubleshooting table.
●		1 GREEN flash	After radio boots up : Normal operation.
	●	3 GREEN flashes	Bluetooth is activated. Turns off after one minute: Normal operation.
●	●	OFF	Normal operation (inactive).

VIDEO HELP		Installation, product information, vehicle specific videos.
VERIFY FLASH		Last flash information, steering control configuration, vehicle information.
WEBLINK		Software to program module.

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	Ensure OBDII connector is securely attached to the OBDII connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the **RED/BROWN** wire is on **PIN 6** and the **YELLOW/BROWN** wire is connected to **PIN 14** of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended. If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options. Reset the RR.
The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on.	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty. Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
The light on the Maestro is blinking **RED TWICE** but the radio is **NOT** turning on.	If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well. Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	Ensure the 20 or 28-pin connector is plugged to the vehicle and to the TO1 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).
(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

Turn the key to the OFF position, then disconnect all connectors from the module.
Press and hold the module's programming button and connect all the connectors back to the module. Wait, the module's LED will flash RED rapidly (this may take up to 10 seconds).
Release the programming button. Wait, the LED will turn solid GREEN for 2 seconds to show the reset was successful.

TECHNICAL ASSISTANCE

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Email: maestro.support@idatalink.com

IMPORTANT: To ensure proper operation, the aftermarket radio needs to have the latest firmware from the manufacturer. Please visit the radio manufacturer's website and look for any updates pertaining to your radio.

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!

OR

PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro HRR-TO1 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-TOY01-DS

ADDITIONAL RESOURCES

Maestro RR2 Programmable Outputs Guide

OPTIONAL ACCESSORIES

K40
ELECTRONICS
ESCORT.

Click here for:
Radar Installation Guides

HEAD UNIT ADAPTER:
ACC-HU-PIO1, SON1, KEN1, KEN2, ALP1

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NEED HELP?

📞 1 866 427-2999

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STEP 1

Remove the factory radio

If using head unit adapter (sold separately), connect HRR-TO1 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-TO1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-TO1 T-harness and match the wire functions.

  Note: only connect purple/white wire to radio reverse input or module damage will occur.

STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-TO1 harness to appropriate HRR adapter cable (D, E or F) then connect to the backup camera harness.

STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble TO1 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-TO1 harness.

STEP 4

- Connect HRR-TO1 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the left front and right front low level outputs RCA cables into the aftermarket radio.
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (if there is no iDatalink audio input, connect to AUX).

Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.

STEP 6

- Connect all the harnesses to the Maestro RR module then test your installation.

1

WIRING DIAGRAM *with an Amplifier*

STEP 1

WHITE - LF SPEAKER (+)
WHITE/BLACK - LF SPEAKER (-)
GRAY - RF SPEAKER (+)
GRAY/BLACK - RF SPEAKER (-)
GREEN - LR SPEAKER (+)
GREEN/BLACK - LR SPEAKER (-)
PURPLE - RR SPEAKER (+)
PURPLE/BLACK - RR SPEAKER (-)
BLUE/WHITE - AMP. TURN ON (+)
BLACK - GROUND
RED - ACCESSORY (+)
YELLOW - 12V (+)
ORANGE - ILLUMINATION (+)
PINK - VEHICLE SPEED
LTGREEN - E-BRAKE (-)
PURPLE/WHITE - REVERSE LIGHT (+) *

CONNECTIONS NOT REQUIRED WITH AMP

SEE RADIO WIRE CHART FOR RADIO WIRE COLORS

* ONLY CONNECT TO RADIO REVERSE INPUT OR MODULE DAMAGE WILL OCCUR

IF NOT USING A MAESTRO HEAD UNIT ADAPTER: CUT AND DISCARD CONNECTOR

20

HEAD UNIT ADAPTER SOLD SEPARATELY

STEP 5

MAIN HARNESS

CONNECT TO AFTERMARKET RADIO

OR

IF WIRES ARE PRESENT ON ADAPTER: SEE RADIO REFERENCE CHART

STEP 2

REVERSE CAMERA HARNESS

BACKUP CAM

4

F : 24

RF OUT
LF OUT

DATA CABLE   AUDIO CABLE

STEP 3

FACTORY RADIO HARNESS

4   UNPLUG

WHITE

4

10

A   20

2

2

12   IF PRESENT

6   N.C.

WIRES FROM VEHICLE

10   B : 20 C : 28

CONNECT (B) 20-PIN OR (C) 28 PIN CABLE

AMP TURN ON   N.C.

STEP 6

18

MAESTRO RR MODULE

10

10

3

STEP 4

OBDII CONNECTOR

3   16

HRR-T01 T-HARNESS

NOT REQUIRED

10

STEERING WHEEL CONTROL CABLE

4

4

3

18

RADIO WIRE REFERENCE CHART

T01 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood/ JVC cable	Wire Color on Pioneer cable	Wire Color on Sony cable
Illumination	(+)	Orange	N/A	Orange/White	Orange/White	Orange
Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Head unit adapter wiring (optional accessory, sold separately)

ACC-HU-ALP1 Wire Description	Polarity	Wire Color on Adapter	Alpine Radio
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Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

ACC-HU-KEN2 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
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Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

* Reverse light wire: Only connect to radio or module damage will occur.

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LED 1
LED 2
LED 1

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● or ●		RED or GREEN flashing	LED flashes 1 or more times, either red or green, **when a steering wheel button is pressed** : normal operation.
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The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	Ensure the 20 or 28-pin connector is plugged to the vehicle and to the TO1 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).
(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

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If using head unit adapter (sold separately), connect HRR-TO1 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-TO1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-TO1 T-harness and match the wire functions.

  Note: only connect purple/white wire to radio reverse input or module damage will occur.

STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-TO1 harness to appropriate HRR adapter cable (D, E or F) then connect to the backup camera harness.

STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble TO1 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-TO1 harness.

STEP 4

- Connect HRR-TO1 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the left front and right front low level outputs RCA cables into the aftermarket radio.
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (if there is no iDatalink audio input, connect to AUX).

Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.

STEP 6

- Connect all the harnesses to the Maestro RR module then test your installation.

maestro Rr

WIRING DIAGRAM *with an Amplifier*

STEP 1

WHITE - LF SPEAKER (+)
WHITE/BLACK - LF SPEAKER (-)
GRAY - RF SPEAKER (+)
GRAY/BLACK - RF SPEAKER (-)
GREEN - LR SPEAKER (+)
GREEN/BLACK - LR SPEAKER (-)
PURPLE - RR SPEAKER (+)
PURPLE/BLACK - RR SPEAKER (-)

CONNECTIONS
NOT
REQUIRED
WITH AMP

BLUE/WHITE - AMP. TURN ON (+)
BLACK - GROUND
RED - ACCESSORY (+)
YELLOW - 12V (+)
ORANGE - ILLUMINATION (+)
PINK - VEHICLE SPEED
LTGREEN - E-BRAKE (-)
PURPLE/WHITE - REVERSE LIGHT (+) *

SEE RADIO WIRE
CHART
FOR RADIO
WIRE COLORS

* **ONLY** CONNECT TO RADIO REVERSE INPUT OR MODULE DAMAGE WILL OCCUR

MAIN HARNESS

CONNECT TO AFTERMARKET RADIO

OR

IF WIRES ARE PRESENT ON
ADAPTER: SEE RADIO
REFERENCE CHART

STEP 5

20

IF NOT USING A MAESTRO HEAD UNIT ADAPTER:
CUT AND DISCARD CONNECTOR

HEAD UNIT ADAPTER
SOLD SEPARATELY

STEP 2

REVERSE CAMERA HARNESS

BACKUP CAM

4

D : 16

RF OUT

LF OUT

DATA CABLE   **AUDIO CABLE**

STEP 3

FACTORY RADIO HARNESS

4   UNPLUG

WHITE

4

10

A   20

2

2

12   IF PRESENT

WIRES FROM VEHICLE

6   N.C.

10

B : 20
C : 28

CONNECT (B) 20-PIN
OR (C) 28 PIN CABLE

STEP 6

18

MAESTRO RR MODULE

10

10

3

AMP TURN ON   N.C.

STEP 4

OBDII CONNECTOR

3

16

4   3

HRR-T01 T-HARNESS

NOT REQUIRED

10

STEERING WHEEL CONTROL CABLE

4

4

3

18

RADIO WIRE REFERENCE CHART

TO1 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood/ JVC cable	Wire Color on Pioneer cable	Wire Color on Sony cable
Illumination	(+)	Orange	N/A	Orange/White	Orange/White	Orange
Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Head unit adapter wiring (optional accessory, sold separately)

ACC-HU-ALP1 Wire Description	Polarity	Wire Color on Adapter	Alpine Radio
VSS (vehicle speed sensor)	(DATA)	Green/White	Green/White

ACC-HU-KEN1 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
CAM	(+)	Green/Red	Refer to camera/radio manual
CAM	(-)	Green/White	Refer to camera/radio manual
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

ACC-HU-KEN2 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
E-Brake	(-)	LtGreen	LtGreen
Reverse Light*	(+)	Purple/White	Purple/White
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

* Reverse light wire: Only connect to radio or module damage will occur.

MODULE DIAGNOSTICS

PROGRAMMING BUTTON
LED 1
LED 2
LED 1

LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
● or ●		RED or GREEN flashing	LED flashes 1 or more times, either red or green, **when a steering wheel button is pressed** : normal operation.
●		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do <u>NOT</u> use DEMO MODE.
●		2 RED flashes	Problem detected. Consult troubleshooting table.
●		1 GREEN flash	After radio boots up : Normal operation.
	●	3 GREEN flashes	Bluetooth is activated. Turns off after one minute: Normal operation.
●	●	OFF	Normal operation (inactive).

VIDEO HELP		Installation, product information, vehicle specific videos.
VERIFY FLASH		Last flash information, steering control configuration, vehicle information.
WEBLINK		Software to program module.

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	Ensure OBDII connector is securely attached to the OBDII connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the **RED/BROWN** wire is on **PIN 6** and the **YELLOW/BROWN** wire is connected to **PIN 14** of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended. If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options. Reset the RR.
The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on.	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty. Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
The light on the Maestro is blinking **RED TWICE** but the radio is **NOT** turning on.	If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well. Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	Ensure the 20 or 28-pin connector is plugged to the vehicle and to the TO1 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).
(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

Turn the key to the OFF position, then disconnect all connectors from the module.
Press and hold the module's programming button and connect all the connectors back to the module. Wait, the module's LED will flash RED rapidly (this may take up to 10 seconds).
Release the programming button. Wait, the LED will turn solid GREEN for 2 seconds to show the reset was successful.

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

IMPORTANT: To ensure proper operation, the aftermarket radio needs to have the latest firmware from the manufacturer. Please visit the radio manufacturer's website and look for any updates pertaining to your radio.

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!

OR

PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro HRR-TO1 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-TOY01-DS

ADDITIONAL RESOURCES

Maestro RR2 Programmable Outputs Guide

OPTIONAL ACCESSORIES

K40 ELECTRONICS
ESCORT.

Click here for:
Radar Installation Guides

HEAD UNIT ADAPTER:
ACC-HU-PIO1, SON1, KEN1, KEN2, ALP1

WELCOME

Congratulations on the purchase of your iDatalink Maestro RR Radio replacement solution. You are now a few simple steps away from enjoying your new car radio with enhanced features.

Before starting your installation, please ensure that your iDatalink Maestro module is programmed with the correct firmware for your vehicle and that you carefully review the install guide.

Please note that Maestro RR will only retain functionalities that were originally available in the vehicle.

NEED HELP?

📞 1 866 427-2999

✉ maestro.support@idatalink.com

INSTALLATION INSTRUCTIONS P1/1

STEP 1

Remove the factory radio

If using head unit adapter (sold separately), connect HRR-TO1 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-TO1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-TO1 T-harness and match the wire functions.

  Note: only connect purple/white wire to radio reverse input or module damage will occur.

STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-TO1 harness to appropriate HRR adapter cable (D, E or F) then connect to the backup camera harness.

STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble TO1 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-TO1 harness.

STEP 4

- Connect HRR-TO1 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (if there is no iDatalink audio input, connect to AUX).
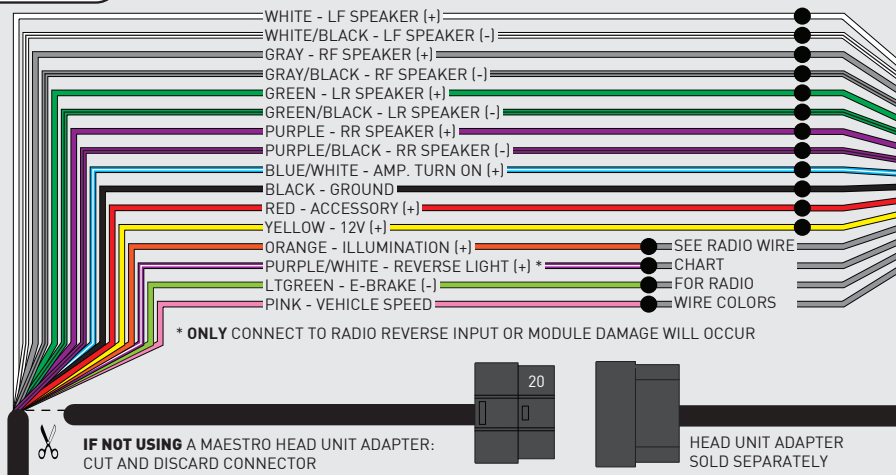
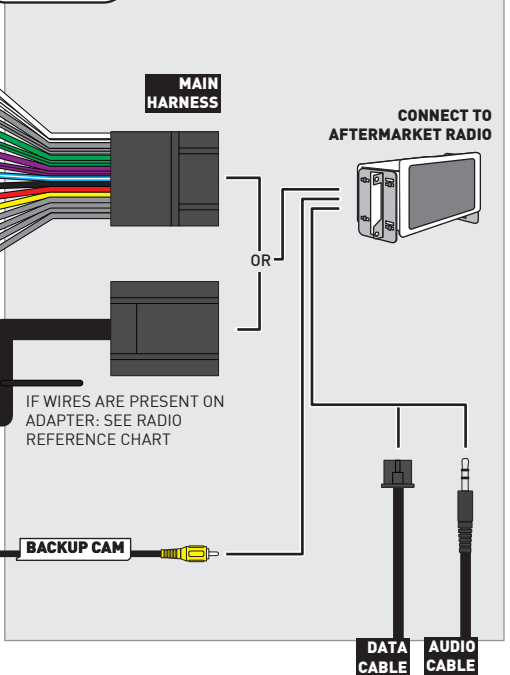 **Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

STEP 6

- Connect all the harnesses to the Maestro RR module then test your installation.
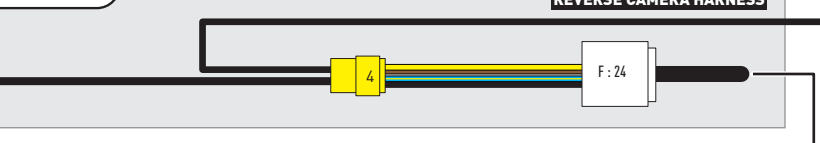
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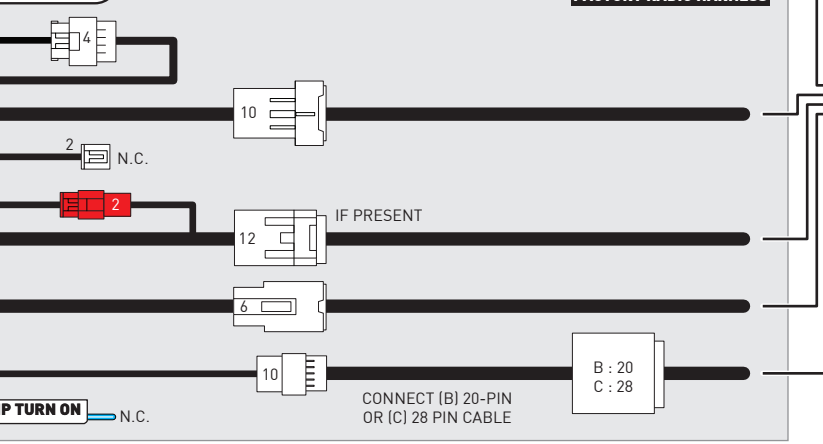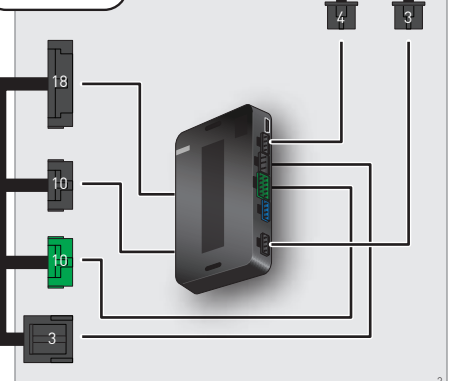# WIRING DIAGRAM *without an Amplifier*

STEP 1

WHITE - LF SPEAKER (+)
WHITE/BLACK - LF SPEAKER (-)
GRAY - RF SPEAKER (+)
GRAY/BLACK - RF SPEAKER (-)
GREEN - LR SPEAKER (+)
GREEN/BLACK - LR SPEAKER (-)
PURPLE - RR SPEAKER (+)
PURPLE/BLACK - RR SPEAKER (-)
BLUE/WHITE - AMP. TURN ON (+)
BLACK - GROUND
RED - ACCESSORY (+)
YELLOW - 12V (+)
ORANGE - ILLUMINATION (+)   SEE RADIO WIRE
PURPLE/WHITE - REVERSE LIGHT (+) * CHART
LTGREEN - E-BRAKE (-)   FOR RADIO
PINK - VEHICLE SPEED   WIRE COLORS

* **ONLY** CONNECT TO RADIO REVERSE INPUT OR MODULE DAMAGE WILL OCCUR

20

IF NOT USING A MAESTRO HEAD UNIT ADAPTER:
CUT AND DISCARD CONNECTOR

HEAD UNIT ADAPTER
SOLD SEPARATELY

MAIN HARNESS

STEP 5

CONNECT TO AFTERMARKET RADIO

OR

IF WIRES ARE PRESENT ON
ADAPTER: SEE RADIO
REFERENCE CHART

STEP 2

REVERSE CAMERA HARNESS

BACKUP CAM

4

F : 24

DATA CABLE **AUDIO CABLE**

STEP 3

FACTORY RADIO HARNESS

4

10

2 N.C.

2

12 IF PRESENT

6

10

B : 20
C : 28

WIRES FROM VEHICLE

CONNECT (B) 20-PIN
OR (C) 28 PIN CABLE

AMP TURN ON N.C.

STEP 6

4   3

18

10

10

3

STEP 4

3

16

OBDII CONNECTOR

HRR-TO1 T-HARNESS

2

NOT REQUIRED

10

STEERING WHEEL CONTROL CABLE

4

18
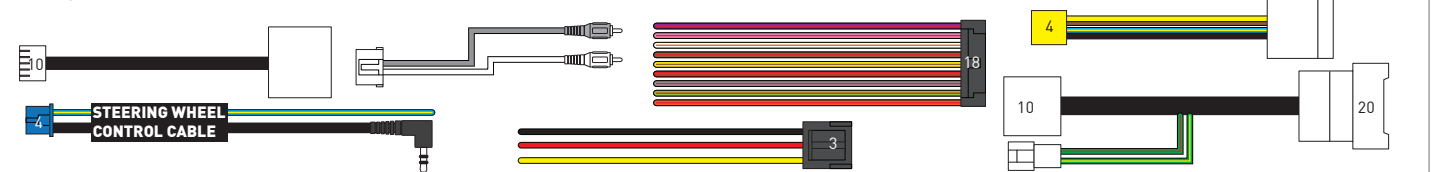
4

10

3

20

RADIO WIRE REFERENCE CHART

TO1 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood/ JVC cable	Wire Color on Pioneer cable	Wire Color on Sony cable
Illumination	(+)	Orange	N/A	Orange/White	Orange/White	Orange
Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Head unit adapter wiring (optional accessory, sold separately)

ACC-HU-ALP1 Wire Description	Polarity	Wire Color on Adapter	Alpine Radio
VSS (vehicle speed sensor)	(DATA)	Green/White	Green/White

ACC-HU-KEN1 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
CAM	(+)	Green/Red	Refer to camera/radio manual
CAM	(-)	Green/White	Refer to camera/radio manual
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

ACC-HU-KEN2 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
E-Brake	(-)	LtGreen	LtGreen
Reverse Light*	(+)	Purple/White	Purple/White
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

* Reverse light wire: Only connect to radio or module damage will occur.

MODULE DIAGNOSTICS

PROGRAMMING BUTTON

LED 1

LED 2

LED 1

LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
● or ●		RED or GREEN flashing	LED flashes 1 or more times, either red or green, **when a steering wheel button is pressed** : normal operation.
●		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do <u>NOT</u> use DEMO MODE.
●		2 RED flashes	Problem detected. Consult troubleshooting table.
●		1 GREEN flash	After radio boots up : Normal operation.
	●	3 GREEN flashes	Bluetooth is activated. Turns off after one minute: Normal operation.
●	●	OFF	Normal operation (inactive).

VIDEO HELP		Installation, product information, vehicle specific videos.
VERIFY FLASH		Last flash information, steering control configuration, vehicle information.
WEBLINK		Software to program module.

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	Ensure OBDII connector is securely attached to the OBDII connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the **RED/BROWN** wire is on **PIN 6** and the **YELLOW/BROWN** wire is connected to **PIN 14** of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended. If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options. Reset the RR.
The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on.	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty. Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
The light on the Maestro is blinking **RED TWICE** but the radio is **NOT** turning on.	If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well. Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	Ensure the 20 or 28-pin connector is plugged to the vehicle and to the TO1 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).
(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

Turn the key to the OFF position, then disconnect all connectors from the module.
Press and hold the module's programming button and connect all the connectors back to the module. Wait, the module's LED will flash RED rapidly (this may take up to 10 seconds).
Release the programming button. Wait, the LED will turn solid GREEN for 2 seconds to show the reset was successful.

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

IMPORTANT: To ensure proper operation, the aftermarket radio needs to have the latest firmware from the manufacturer. Please visit the radio manufacturer's website and look for any updates pertaining to your radio.

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!

OR

PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro HRR-TO1 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-TOY01-DS

ADDITIONAL RESOURCES

Maestro RR2 Programmable Outputs Guide

OPTIONAL ACCESSORIES

K40 ELECTRONICS
ESCORT

Click here for:
Radar Installation Guides

HEAD UNIT ADAPTER:
ACC-HU-PIO1, SON1, KEN1, KEN2, ALP1

NOTICE: Automotive Data Solutions Inc. (ADS) recommends having this installation performed by a certified technician. Logos and trademarks used here in are the properties of their respective owners.

WELCOME

Congratulations on the purchase of your iDatalink Maestro RR Radio replacement solution. You are now a few simple steps away from enjoying your new car radio with enhanced features.

Before starting your installation, please ensure that your iDatalink Maestro module is programmed with the correct firmware for your vehicle and that you carefully review the install guide.

Please note that Maestro RR will only retain functionalities that were originally available in the vehicle.

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NEED HELP?

📞 1 866 427-2999

✉ maestro.support@idatalink.com

INSTALLATION INSTRUCTIONS P1/1

STEP 1

Remove the factory radio

If using head unit adapter (sold separately), connect HRR-TO1 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-TO1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-TO1 T-harness and match the wire functions.

  Note: only connect purple/white wire to radio reverse input or module damage will occur.

STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-TO1 harness to appropriate HRR adapter cable (D, E or F) then connect to the backup camera harness.

STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble TO1 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-TO1 harness.

STEP 4

- Connect HRR-TO1 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (if there is no iDatalink audio input, connect to AUX).
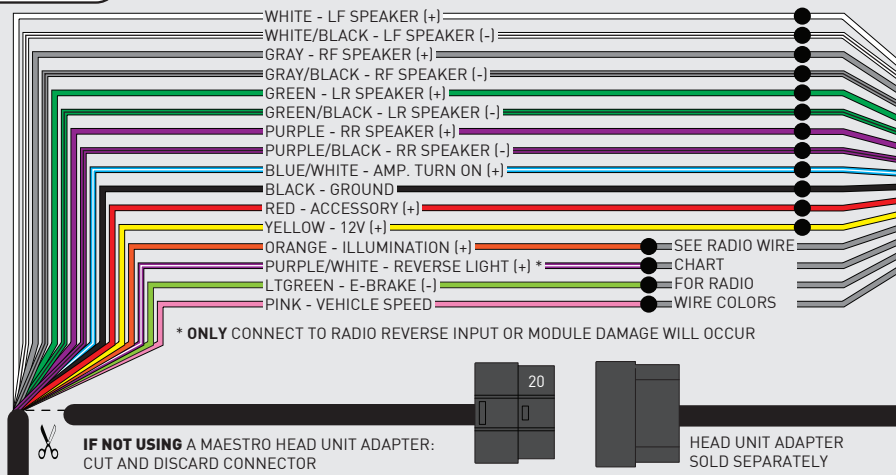
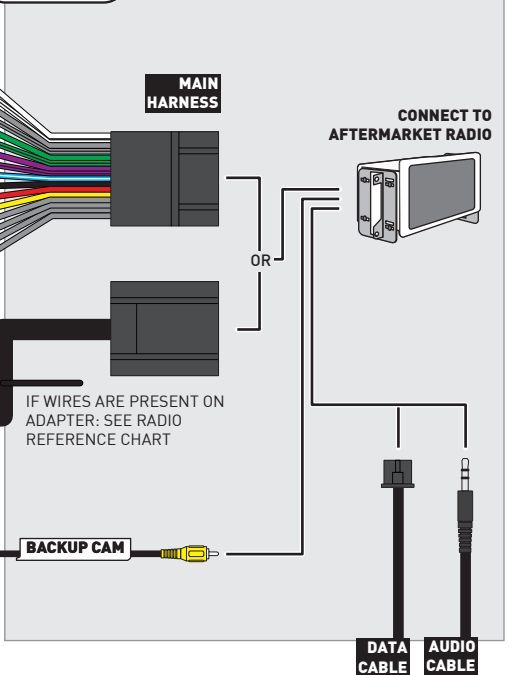 **Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

STEP 6

- Connect all the harnesses to the Maestro RR module then test your installation.
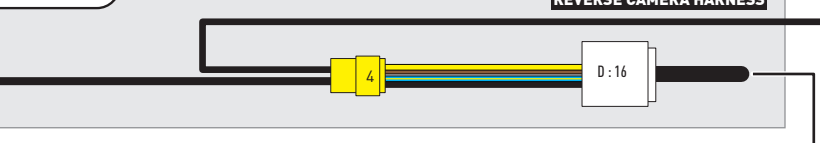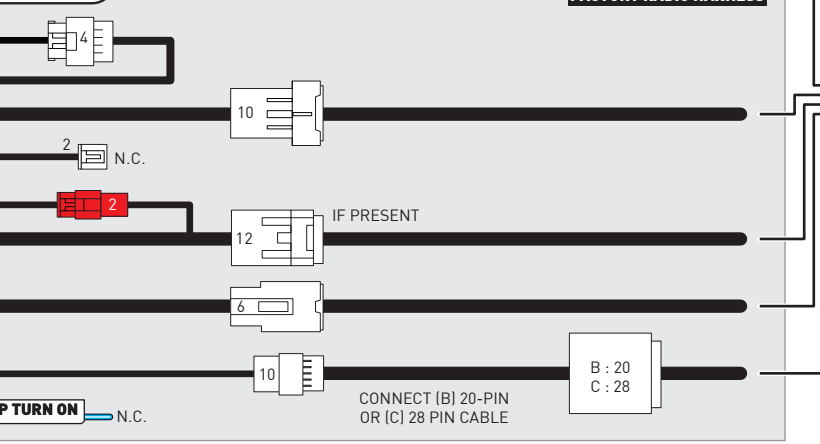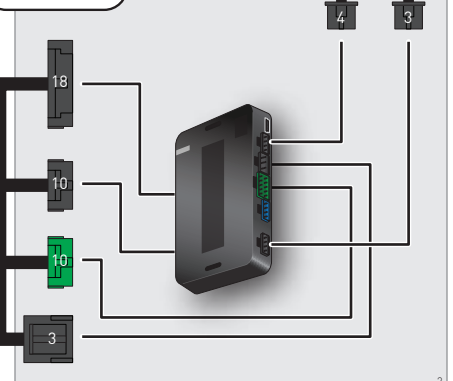
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WIRING DIAGRAM *without an Amplifier*

STEP 1

WHITE - LF SPEAKER (+)
WHITE/BLACK - LF SPEAKER (-)
GRAY - RF SPEAKER (+)
GRAY/BLACK - RF SPEAKER (-)
GREEN - LR SPEAKER (+)
GREEN/BLACK - LR SPEAKER (-)
PURPLE - RR SPEAKER (+)
PURPLE/BLACK - RR SPEAKER (-)
BLUE/WHITE - AMP. TURN ON (+)
BLACK - GROUND
RED - ACCESSORY (+)
YELLOW - 12V (+)
ORANGE - ILLUMINATION (+)   SEE RADIO WIRE
PURPLE/WHITE - REVERSE LIGHT (+) *   CHART
LTGREEN - E-BRAKE (-)   FOR RADIO
PINK - VEHICLE SPEED   WIRE COLORS

* **ONLY** CONNECT TO RADIO REVERSE INPUT OR MODULE DAMAGE WILL OCCUR

MAIN HARNESS

CONNECT TO AFTERMARKET RADIO

OR

20

IF NOT USING A MAESTRO HEAD UNIT ADAPTER: CUT AND DISCARD CONNECTOR

HEAD UNIT ADAPTER SOLD SEPARATELY

IF WIRES ARE PRESENT ON ADAPTER: SEE RADIO REFERENCE CHART

STEP 5

STEP 2

REVERSE CAMERA HARNESS

BACKUP CAM

4   D : 16

DATA CABLE   AUDIO CABLE

STEP 3

FACTORY RADIO HARNESS

4

10

2 N.C.

2

12   IF PRESENT

6

10   B : 20
          C : 28

WIRES FROM VEHICLE

CONNECT (B) 20-PIN OR (C) 28 PIN CABLE

AMP TURN ON N.C.

STEP 6

4   3

18

10

10

3

STEP 4

OBDII CONNECTOR

3   16

HRR-T01 T-HARNESS

NOT REQUIRED

10

4 **STEERING WHEEL CONTROL CABLE**

4

18

10   20
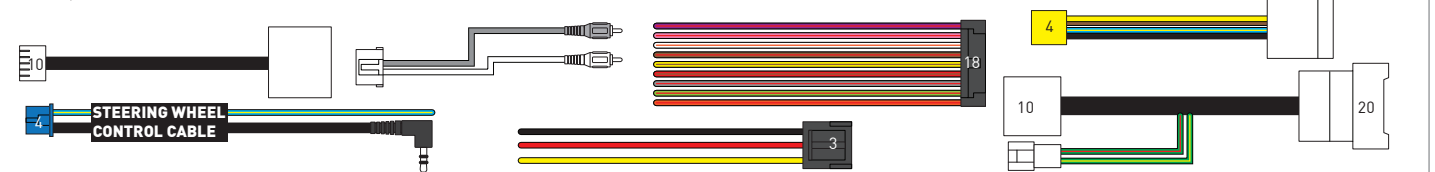
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RADIO WIRE REFERENCE CHART

TO1 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood/ JVC cable	Wire Color on Pioneer cable	Wire Color on Sony cable
Illumination	(+)	Orange	N/A	Orange/White	Orange/White	Orange
Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Head unit adapter wiring (optional accessory, sold separately)

ACC-HU-ALP1 Wire Description	Polarity	Wire Color on Adapter	Alpine Radio
VSS (vehicle speed sensor)	(DATA)	Green/White	Green/White

ACC-HU-KEN1 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
CAM	(+)	Green/Red	Refer to camera/radio manual
CAM	(-)	Green/White	Refer to camera/radio manual
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

ACC-HU-KEN2 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
E-Brake	(-)	LtGreen	LtGreen
Reverse Light*	(+)	Purple/White	Purple/White
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

* Reverse light wire: Only connect to radio or module damage will occur.

MODULE DIAGNOSTICS

PROGRAMMING BUTTON

LED 1

LED 2

LED 1

LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
● or ●		RED or GREEN flashing	LED flashes 1 or more times, either red or green, **when a steering wheel button is pressed** : normal operation.
●		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do <u>NOT</u> use DEMO MODE.
●		2 RED flashes	Problem detected. Consult troubleshooting table.
●		1 GREEN flash	After radio boots up : Normal operation.
	●	3 GREEN flashes	Bluetooth is activated. Turns off after one minute: Normal operation.
●	●	OFF	Normal operation (inactive).

VIDEO HELP		Installation, product information, vehicle specific videos.
VERIFY FLASH		Last flash information, steering control configuration, vehicle information.
WEBLINK		Software to program module.

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	Ensure OBDII connector is securely attached to the OBDII connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the **RED/BROWN** wire is on **PIN 6** and the **YELLOW/BROWN** wire is connected to **PIN 14** of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended. If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options. Reset the RR.
The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on.	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty. Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
The light on the Maestro is blinking **RED TWICE** but the radio is **NOT** turning on.	If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well. Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	Ensure the 20 or 28-pin connector is plugged to the vehicle and to the TO1 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).
(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

Turn the key to the OFF position, then disconnect all connectors from the module.
Press and hold the module's programming button and connect all the connectors back to the module. Wait, the module's LED will flash RED rapidly (this may take up to 10 seconds).
Release the programming button. Wait, the LED will turn solid GREEN for 2 seconds to show the reset was successful.

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

IMPORTANT: To ensure proper operation, the aftermarket radio needs to have the latest firmware from the manufacturer. Please visit the radio manufacturer's website and look for any updates pertaining to your radio.

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!

OR

PRODUCTS REQUIRED

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iDatalink Maestro HRR-TO1 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-TOY01-DS

ADDITIONAL RESOURCES

Maestro RR2 Programmable Outputs Guide

OPTIONAL ACCESSORIES

K40 ELECTRONICS
ESCORT.

Click here for:
Radar Installation Guides

HEAD UNIT ADAPTER:
ACC-HU-PIO1, SON1, KEN1, KEN2, ALP1

NOTICE: Automotive Data Solutions Inc. (ADS) recommends having this installation performed by a certified technician. Logos and trademarks used here in are the properties of their respective owners.

WELCOME

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NEED HELP?

📞 1 866 427-2999

✉ maestro.support@idatalink.com

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If using head unit adapter (sold separately), connect HRR-TO1 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-TO1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-TO1 T-harness and match the wire functions.

Note: only connect purple/white wire to radio reverse input or module damage will occur.

STEP 2

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble TO1 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-TO1 harness.

STEP 3

- Connect HRR-TO1 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 4

- Plug the harnesses into the aftermarket radio.
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (if there is no iDatalink audio input, connect to AUX).
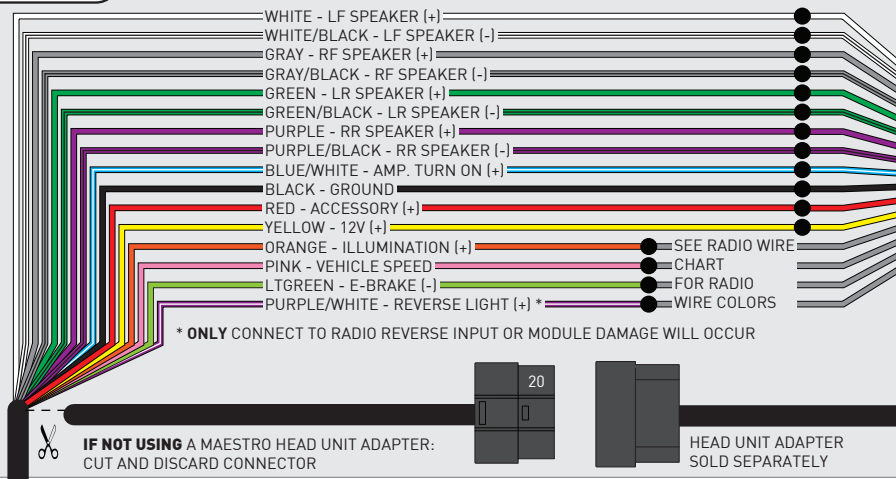
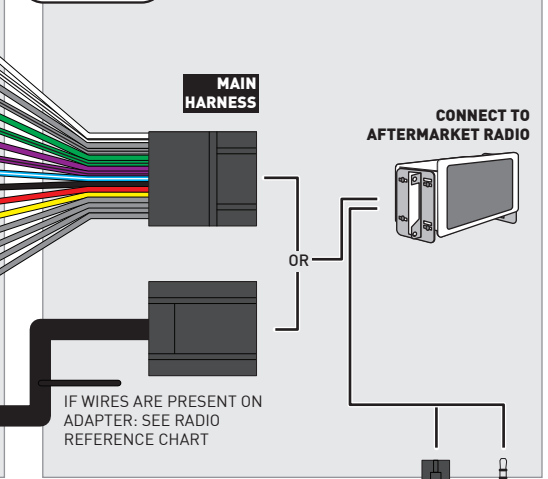**Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

STEP 5

- Connect all the harnesses to the Maestro RR module then test your installation.
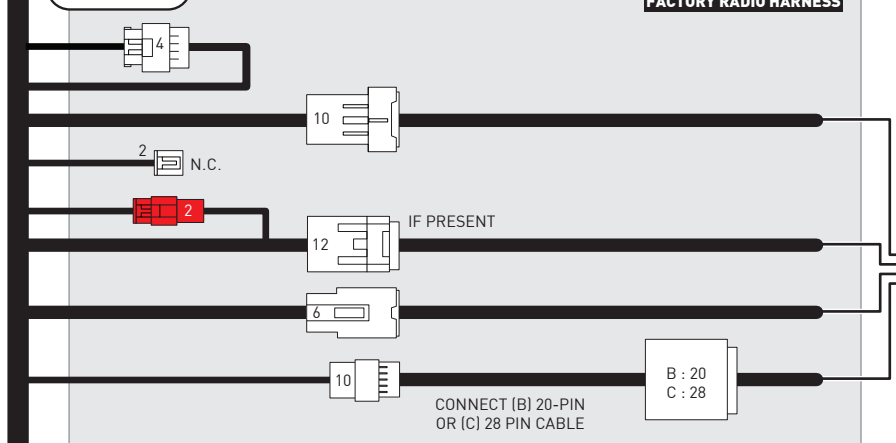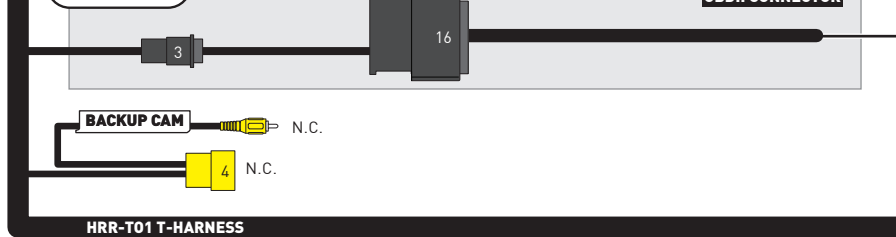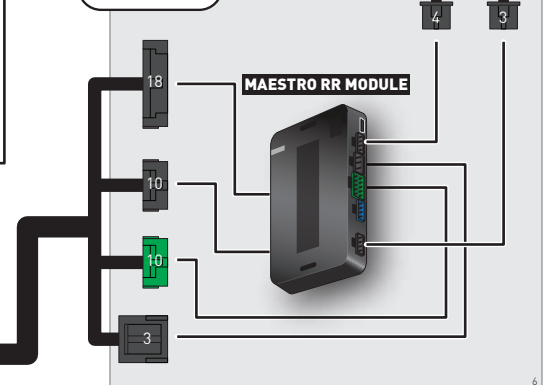
6

WIRING DIAGRAM *without an Amplifier*

STEP 1

- WHITE - LF SPEAKER (+)
- WHITE/BLACK - LF SPEAKER (-)
- GRAY - RF SPEAKER (+)
- GRAY/BLACK - RF SPEAKER (-)
- GREEN - LR SPEAKER (+)
- GREEN/BLACK - LR SPEAKER (-)
- PURPLE - RR SPEAKER (+)
- PURPLE/BLACK - RR SPEAKER (-)
- BLUE/WHITE - AMP. TURN ON (+)
- BLACK - GROUND
- RED - ACCESSORY (+)
- YELLOW - 12V (+)
- ORANGE - ILLUMINATION (+)
- PINK - VEHICLE SPEED
- LTGREEN - E-BRAKE (-)
- PURPLE/WHITE - REVERSE LIGHT (+) *

SEE RADIO WIRE CHART FOR RADIO WIRE COLORS

* **ONLY** CONNECT TO RADIO REVERSE INPUT OR MODULE DAMAGE WILL OCCUR

20

IF NOT USING A MAESTRO HEAD UNIT ADAPTER: CUT AND DISCARD CONNECTOR

HEAD UNIT ADAPTER SOLD SEPARATELY

STEP 4

MAIN HARNESS

CONNECT TO AFTERMARKET RADIO

OR

IF WIRES ARE PRESENT ON ADAPTER: SEE RADIO REFERENCE CHART

STEP 2

FACTORY RADIO HARNESS

4

10

2 N.C.

2

12 IF PRESENT

6

10

CONNECT (B) 20-PIN OR (C) 28 PIN CABLE

B : 20
C : 28

WIRES FROM VEHICLE

AMP TURN ON N.C.

STEP 3

OBDII CONNECTOR

3

16

BACKUP CAM N.C.

4 N.C.

HRR-TO1 T-HARNESS

DATA CABLE

AUDIO CABLE

STEP 5

4

3

18

MAESTRO RR MODULE

10

10

3

6

NOT REQUIRED

10

STEERING WHEEL CONTROL CABLE

4

4

4

4

D
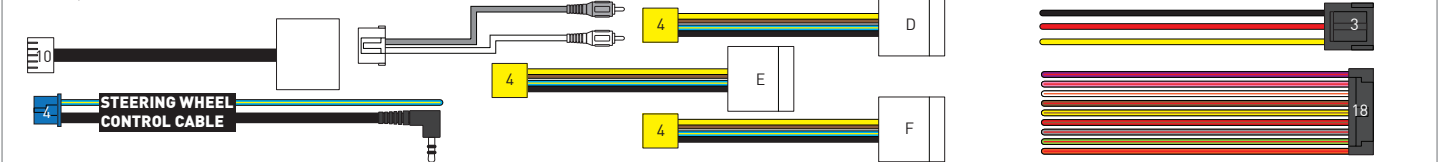
E

F

3

18

RADIO WIRE REFERENCE CHART

TO1 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood/ JVC cable	Wire Color on Pioneer cable	Wire Color on Sony cable
Illumination	(+)	Orange	N/A	Orange/White	Orange/White	Orange
Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Head unit adapter wiring (optional accessory, sold separately)

ACC-HU-ALP1 Wire Description	Polarity	Wire Color on Adapter	Alpine Radio
VSS (vehicle speed sensor)	(DATA)	Green/White	Green/White

ACC-HU-KEN1 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
CAM	(+)	Green/Red	Refer to camera/radio manual
CAM	(-)	Green/White	Refer to camera/radio manual
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

ACC-HU-KEN2 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
E-Brake	(-)	LtGreen	LtGreen
Reverse Light*	(+)	Purple/White	Purple/White
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

* Reverse light wire: Only connect to radio or module damage will occur.

MODULE DIAGNOSTICS

PROGRAMMING BUTTON

LED 1

LED 2

LED 1

LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
● or ●		RED or GREEN flashing	LED flashes 1 or more times, either red or green, **when a steering wheel button is pressed** : normal operation.
●		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do <u>NOT</u> use DEMO MODE.
●		2 RED flashes	Problem detected. Consult troubleshooting table.
●		1 GREEN flash	After radio boots up : Normal operation.
	●	3 GREEN flashes	Bluetooth is activated. Turns off after one minute: Normal operation.
●	●	OFF	Normal operation (inactive).

VIDEO HELP		Installation, product information, vehicle specific videos.
VERIFY FLASH		Last flash information, steering control configuration, vehicle information.
WEBLINK		Software to program module.

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	Ensure OBDII connector is securely attached to the OBDII connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the **RED/BROWN** wire is on **PIN 6** and the **YELLOW/BROWN** wire is connected to **PIN 14** of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended. If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options. Reset the RR.
The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on.	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty. Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
The light on the Maestro is blinking **RED TWICE** but the radio is **NOT** turning on.	If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well. Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	Ensure the 20 or 28-pin connector is plugged to the vehicle and to the TO1 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).
(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

Turn the key to the OFF position, then disconnect all connectors from the module.
Press and hold the module's programming button and connect all the connectors back to the module. Wait, the module's LED will flash RED rapidly (this may take up to 10 seconds).
Release the programming button. Wait, the LED will turn solid GREEN for 2 seconds to show the reset was successful.

TECHNICAL ASSISTANCE

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INSTALL GUIDE

2007-2011
TOYOTA CAMRY
WITH JBL

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!

OR

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HEAD UNIT ADAPTER:
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NEED HELP?

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INSTALLATION INSTRUCTIONS P1/1

STEP 1

Remove the factory radio

If using head unit adapter (sold separately), connect HRR-TO1 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-TO1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-TO1 T-harness and match the wire functions.

Note: only connect purple/white wire to radio reverse input or module damage will occur.

STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-TO1 harness to appropriate HRR adapter cable (D, E or F) then connect to the backup camera harness.

STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble TO1 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-TO1 harness.

STEP 4

- Connect HRR-TO1 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the left front and right front low level outputs RCA cables into the aftermarket radio.
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (if there is no iDatalink audio input, connect to AUX).
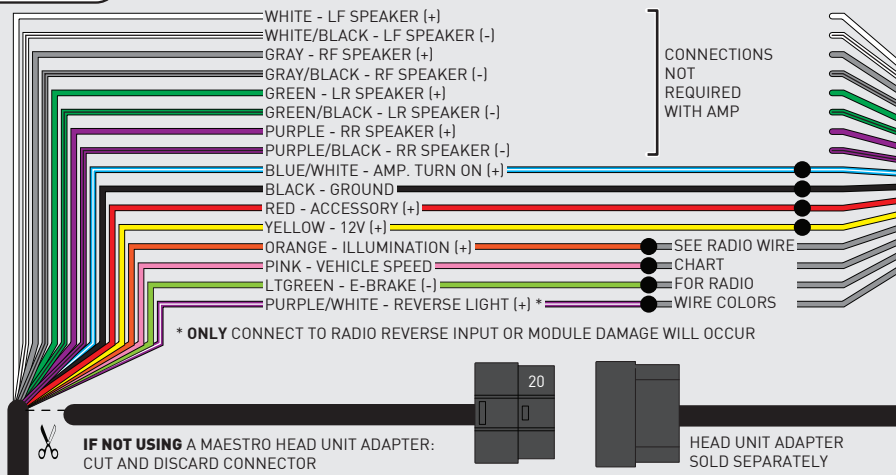
Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.
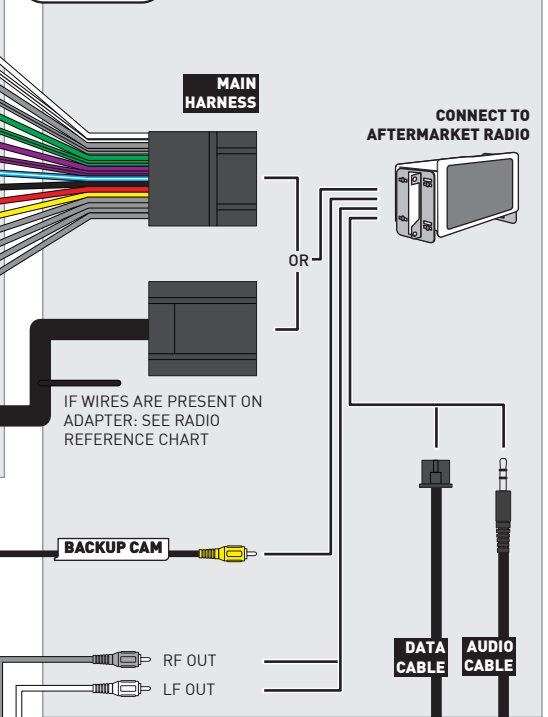
STEP 6

- Connect all the harnesses to the Maestro RR module then test your installation.
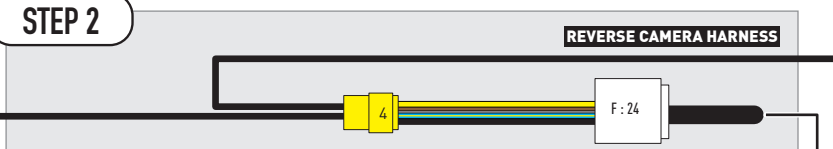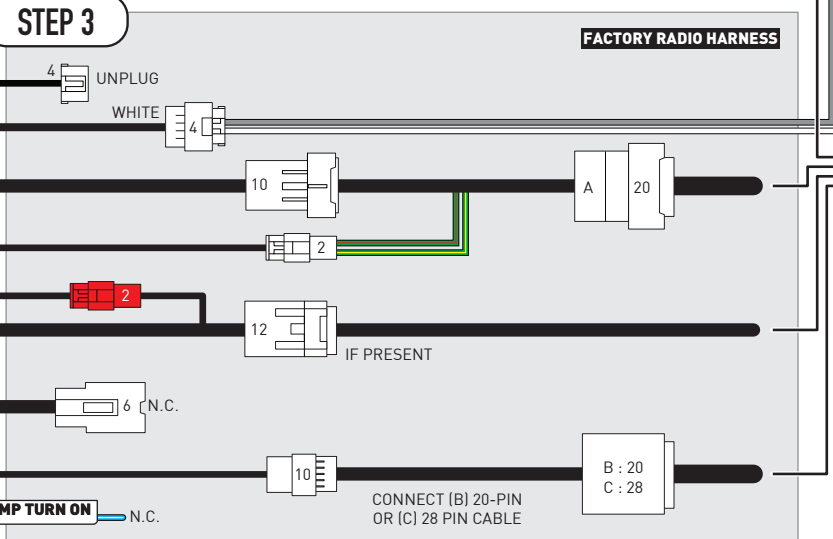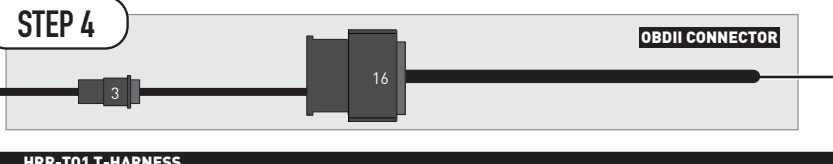
WIRING DIAGRAM *with an Amplifier*

STEP 1

WHITE - LF SPEAKER (+)
WHITE/BLACK - LF SPEAKER (-)
GRAY - RF SPEAKER (+)
GRAY/BLACK - RF SPEAKER (-)
GREEN - LR SPEAKER (+)
GREEN/BLACK - LR SPEAKER (-)
PURPLE - RR SPEAKER (+)
PURPLE/BLACK - RR SPEAKER (-)

CONNECTIONS
NOT
REQUIRED
WITH AMP

BLUE/WHITE - AMP. TURN ON (+)
BLACK - GROUND
RED - ACCESSORY (+)
YELLOW - 12V (+)
ORANGE - ILLUMINATION (+)
PINK - VEHICLE SPEED
LTGREEN - E-BRAKE (-)
PURPLE/WHITE - REVERSE LIGHT (+) *

SEE RADIO WIRE
CHART
FOR RADIO
WIRE COLORS

* **ONLY** CONNECT TO RADIO REVERSE INPUT OR MODULE DAMAGE WILL OCCUR

IF NOT USING A MAESTRO HEAD UNIT ADAPTER:
CUT AND DISCARD CONNECTOR

20

HEAD UNIT ADAPTER
SOLD SEPARATELY

STEP 5

**MAIN
HARNESS**

**CONNECT TO
AFTERMARKET RADIO**

OR

IF WIRES ARE PRESENT ON
ADAPTER: SEE RADIO
REFERENCE CHART

STEP 2

REVERSE CAMERA HARNESS

BACKUP CAM

4

F : 24

RF OUT
LF OUT

**DATA
CABLE** **AUDIO
CABLE**

STEP 3

FACTORY RADIO HARNESS

4 UNPLUG

WHITE

4

10

A   20

2

**WIRES FROM
VEHICLE**

2

12   IF PRESENT

STEP 6

6 N.C.

10

B : 20
C : 28

CONNECT (B) 20-PIN
OR (C) 28 PIN CABLE

AMP TURN ON   N.C.

4

3

18

MAESTRO RR MODULE

10

10

STEP 4

3

OBDII CONNECTOR

16

3

HRR-T01 T-HARNESS

NOT REQUIRED

10

4   **STEERING WHEEL
CONTROL CABLE**
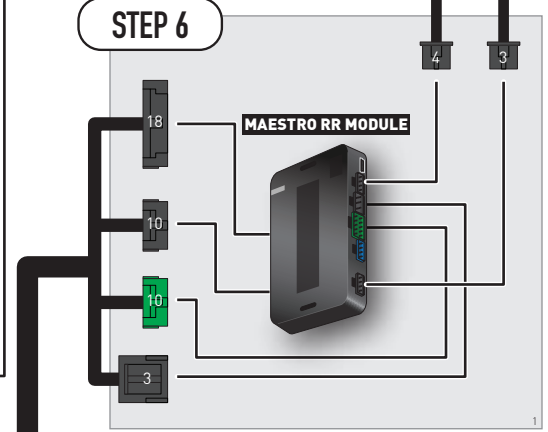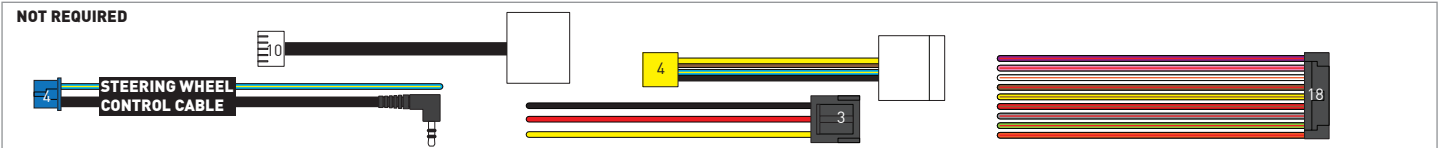
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3

18

RADIO WIRE REFERENCE CHART

TO1 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood/ JVC cable	Wire Color on Pioneer cable	Wire Color on Sony cable
Illumination	(+)	Orange	N/A	Orange/White	Orange/White	Orange
Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Head unit adapter wiring (optional accessory, sold separately)

ACC-HU-ALP1 Wire Description	Polarity	Wire Color on Adapter	Alpine Radio
VSS (vehicle speed sensor)	(DATA)	Green/White	Green/White

ACC-HU-KEN1 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
CAM	(+)	Green/Red	Refer to camera/radio manual
CAM	(-)	Green/White	Refer to camera/radio manual
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

ACC-HU-KEN2 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
E-Brake	(-)	LtGreen	LtGreen
Reverse Light*	(+)	Purple/White	Purple/White
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

* Reverse light wire: Only connect to radio or module damage will occur.

MODULE DIAGNOSTICS

PROGRAMMING BUTTON

LED 1

LED 2

LED 1

LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
● or ●		RED or GREEN flashing	LED flashes 1 or more times, either red or green, **when a steering wheel button is pressed** : normal operation.
●		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do <u>NOT</u> use DEMO MODE.
●		2 RED flashes	Problem detected. Consult troubleshooting table.
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PROBLEM	SOLUTION
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The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on.	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty. Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
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The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	Ensure the 20 or 28-pin connector is plugged to the vehicle and to the TO1 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).
(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

Turn the key to the OFF position, then disconnect all connectors from the module.
Press and hold the module's programming button and connect all the connectors back to the module. Wait, the module's LED will flash RED rapidly (this may take up to 10 seconds).
Release the programming button. Wait, the LED will turn solid GREEN for 2 seconds to show the reset was successful.

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maestro Rr

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Remove the factory radio

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- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-TO1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-TO1 T-harness and match the wire functions.

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STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-TO1 harness to appropriate HRR adapter cable (D, E or F) then connect to the backup camera harness.

STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble TO1 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-TO1 harness.

STEP 4

- Connect HRR-TO1 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (if there is no iDatalink audio input, connect to AUX).
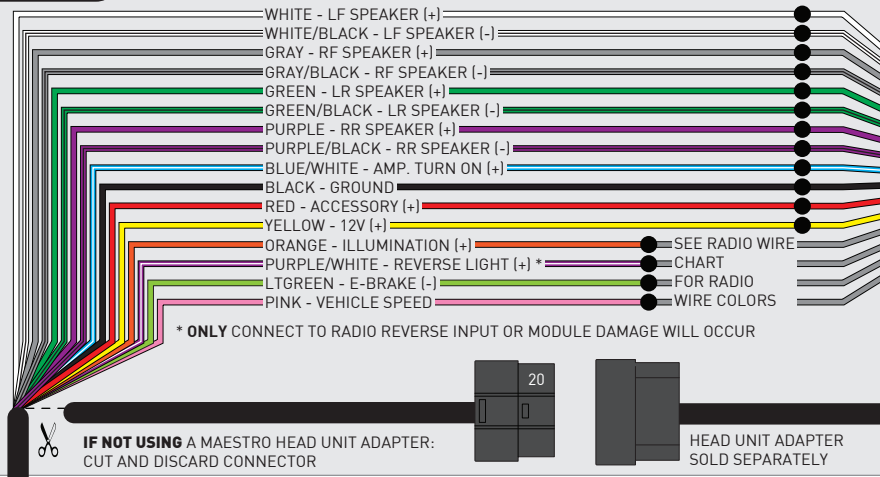
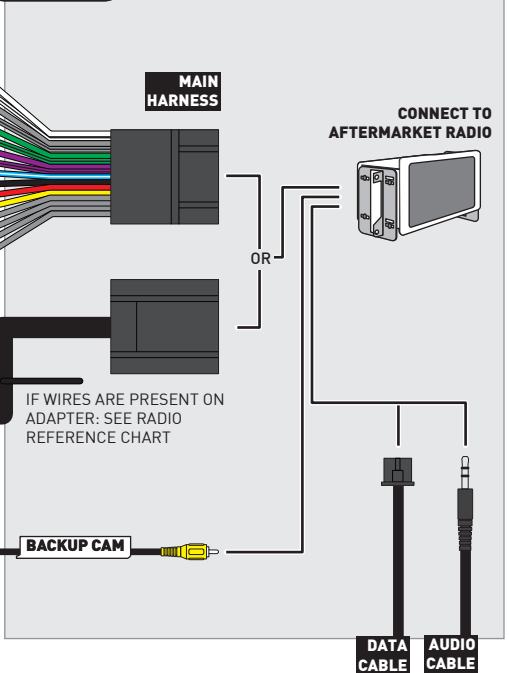 **Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

STEP 6

- Connect all the harnesses to the Maestro RR module then test your installation.
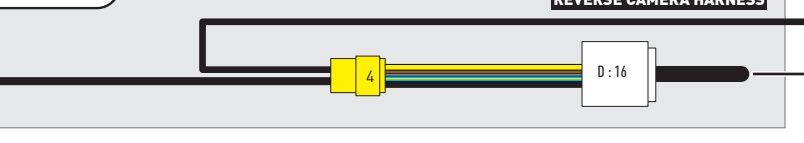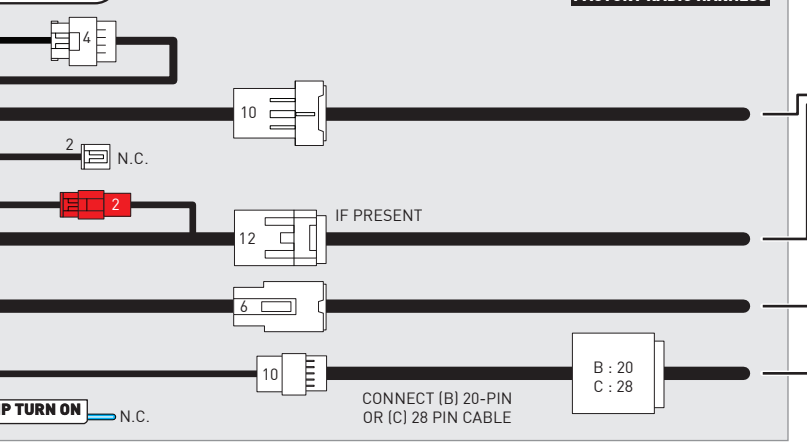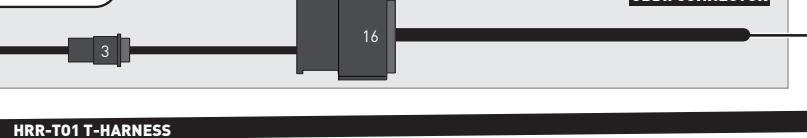
2

WIRING DIAGRAM *without an Amplifier*

STEP 1

WHITE - LF SPEAKER (+)
WHITE/BLACK - LF SPEAKER (-)
GRAY - RF SPEAKER (+)
GRAY/BLACK - RF SPEAKER (-)
GREEN - LR SPEAKER (+)
GREEN/BLACK - LR SPEAKER (-)
PURPLE - RR SPEAKER (+)
PURPLE/BLACK - RR SPEAKER (-)
BLUE/WHITE - AMP. TURN ON (+)
BLACK - GROUND
RED - ACCESSORY (+)
YELLOW - 12V (+)
ORANGE - ILLUMINATION (+)   SEE RADIO WIRE
PURPLE/WHITE - REVERSE LIGHT (+) *   CHART
LTGREEN - E-BRAKE (-)   FOR RADIO
PINK - VEHICLE SPEED   WIRE COLORS

* **ONLY** CONNECT TO RADIO REVERSE INPUT OR MODULE DAMAGE WILL OCCUR

20

IF NOT USING A MAESTRO HEAD UNIT ADAPTER:
CUT AND DISCARD CONNECTOR

HEAD UNIT ADAPTER
SOLD SEPARATELY

MAIN HARNESS

STEP 5

CONNECT TO AFTERMARKET RADIO

OR

IF WIRES ARE PRESENT ON
ADAPTER: SEE RADIO
REFERENCE CHART

STEP 2

REVERSE CAMERA HARNESS

BACKUP CAM

4   D : 16

DATA CABLE   AUDIO CABLE

STEP 3

FACTORY RADIO HARNESS

4

10

2   N.C.

2

12   IF PRESENT

6

10   B : 20
          C : 28

CONNECT (B) 20-PIN
OR (C) 28 PIN CABLE

AMP TURN ON   N.C.

WIRES FROM VEHICLE

STEP 6

4   3

18

10

10

3

STEP 4

OBDII CONNECTOR

3   16

HRR-T01 T-HARNESS

2

NOT REQUIRED

10

4   **STEERING WHEEL CONTROL CABLE**

18
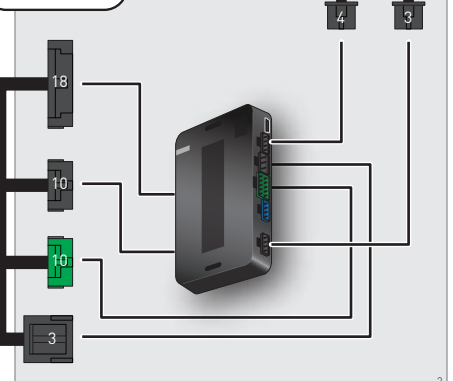
3
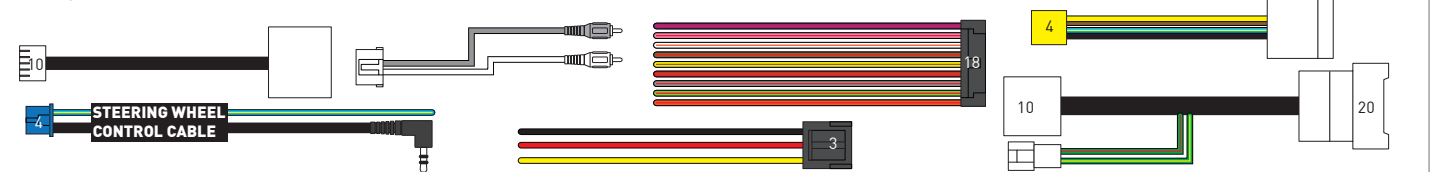
4

10   20

RADIO WIRE REFERENCE CHART

TO1 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood/ JVC cable	Wire Color on Pioneer cable	Wire Color on Sony cable
Illumination	(+)	Orange	N/A	Orange/White	Orange/White	Orange
Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Head unit adapter wiring (optional accessory, sold separately)

ACC-HU-ALP1 Wire Description	Polarity	Wire Color on Adapter	Alpine Radio
VSS (vehicle speed sensor)	(DATA)	Green/White	Green/White

ACC-HU-KEN1 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
CAM	(+)	Green/Red	Refer to camera/radio manual
CAM	(-)	Green/White	Refer to camera/radio manual
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

ACC-HU-KEN2 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
E-Brake	(-)	LtGreen	LtGreen
Reverse Light*	(+)	Purple/White	Purple/White
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

* Reverse light wire: Only connect to radio or module damage will occur.

MODULE DIAGNOSTICS

LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
● or ●		RED or GREEN flashing	LED flashes 1 or more times, either red or green, **when a steering wheel button is pressed** : normal operation.
●		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do <u>NOT</u> use DEMO MODE.
●		2 RED flashes	Problem detected. Consult troubleshooting table.
●		1 GREEN flash	After radio boots up : Normal operation.
	●	3 GREEN flashes	Bluetooth is activated. Turns off after one minute: Normal operation.
●	●	OFF	Normal operation (inactive).

VIDEO HELP		Installation, product information, vehicle specific videos.
VERIFY FLASH		Last flash information, steering control configuration, vehicle information.
WEBLINK		Software to program module.

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	Ensure OBDII connector is securely attached to the OBDII connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the **RED/BROWN** wire is on **PIN 6** and the **YELLOW/BROWN** wire is connected to **PIN 14** of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended. If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options. Reset the RR.
The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on.	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty. Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
The light on the Maestro is blinking **RED TWICE** but the radio is **NOT** turning on.	If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well. Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	Ensure the 20 or 28-pin connector is plugged to the vehicle and to the TO1 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).
(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

Turn the key to the OFF position, then disconnect all connectors from the module.
Press and hold the module's programming button and connect all the connectors back to the module. Wait, the module's LED will flash RED rapidly (this may take up to 10 seconds).
Release the programming button. Wait, the LED will turn solid GREEN for 2 seconds to show the reset was successful.

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

IMPORTANT: To ensure proper operation, the aftermarket radio needs to have the latest firmware from the manufacturer. Please visit the radio manufacturer's website and look for any updates pertaining to your radio.

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!

OR

PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro HRR-TO1 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-TOY01-DS

ADDITIONAL RESOURCES

Maestro RR2 Programmable Outputs Guide

OPTIONAL ACCESSORIES

K40
ELECTRONICS
ESCORT.

Click here for:
Radar Installation Guides

HEAD UNIT ADAPTER:
ACC-HU-PIO1, SON1, KEN1, KEN2, ALP1

NOTICE: Automotive Data Solutions Inc. (ADS) recommends having this installation performed by a certified technician. Logos and trademarks used here in are the properties of their respective owners.

WELCOME

Congratulations on the purchase of your iDatalink Maestro RR Radio replacement solution. You are now a few simple steps away from enjoying your new car radio with enhanced features.

Before starting your installation, please ensure that your iDatalink Maestro module is programmed with the correct firmware for your vehicle and that you carefully review the install guide.

Please note that Maestro RR will only retain functionalities that were originally available in the vehicle.

TABLE OF CONTENTS

NEED HELP?

📞 1 866 427-2999

✉ maestro.support@idatalink.com

INSTALLATION INSTRUCTIONS P1/1

STEP 1

Remove the factory radio

If using head unit adapter (sold separately), connect HRR-TO1 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-TO1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-TO1 T-harness and match the wire functions.

Note: only connect purple/white wire to radio reverse input or module damage will occur.

STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-TO1 harness to appropriate HRR adapter cable (D, E or F) then connect to the backup camera harness.

STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble TO1 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-TO1 harness.

STEP 4

- Connect HRR-TO1 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (if there is no iDatalink audio input, connect to AUX).
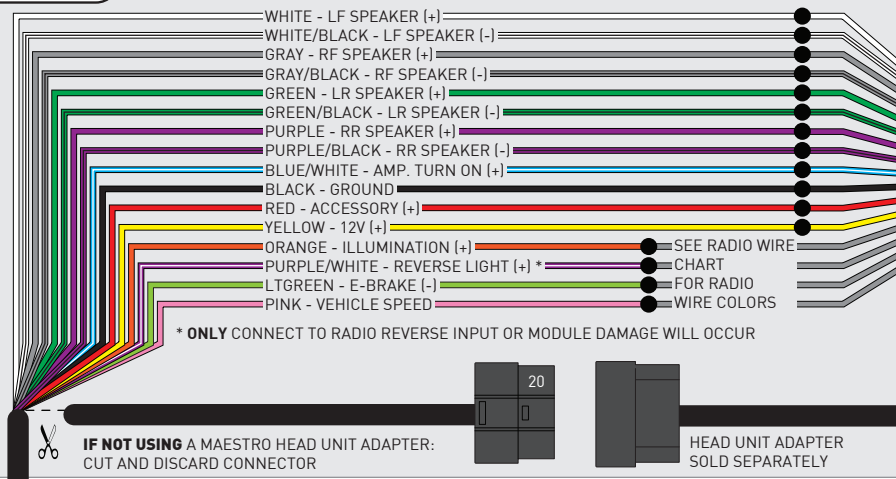
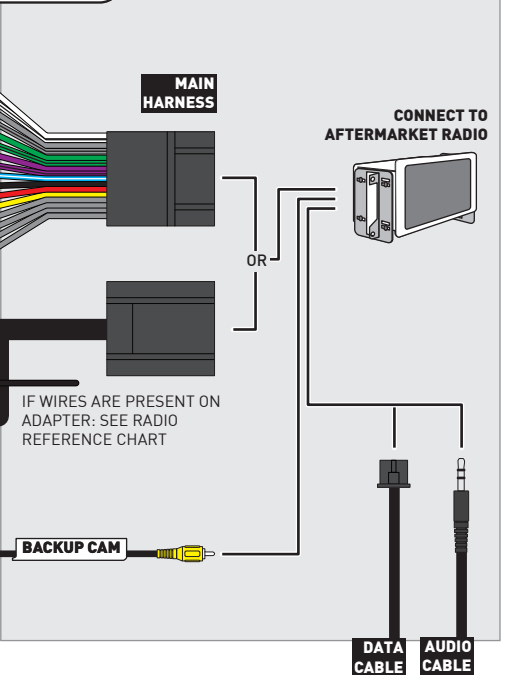**Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

STEP 6

- Connect all the harnesses to the Maestro RR module then test your installation.
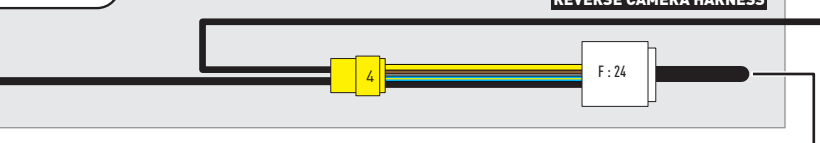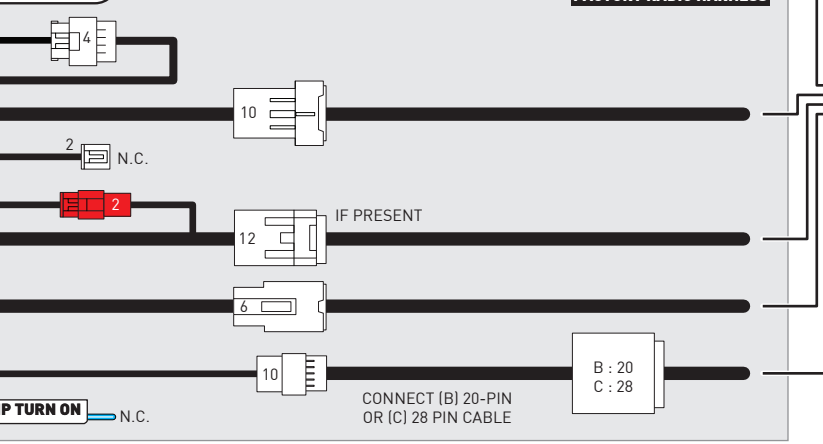
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WIRING DIAGRAM *without an Amplifier*
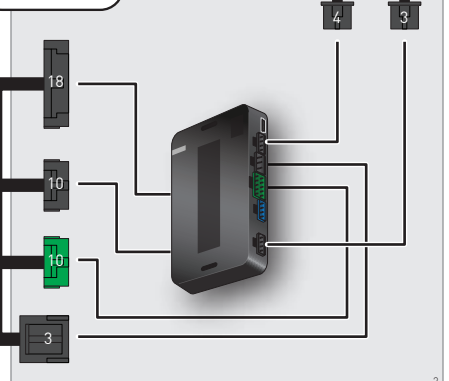
STEP 1

WHITE - LF SPEAKER (+)
WHITE/BLACK - LF SPEAKER (-)
GRAY - RF SPEAKER (+)
GRAY/BLACK - RF SPEAKER (-)
GREEN - LR SPEAKER (+)
GREEN/BLACK - LR SPEAKER (-)
PURPLE - RR SPEAKER (+)
PURPLE/BLACK - RR SPEAKER (-)
BLUE/WHITE - AMP. TURN ON (+)
BLACK - GROUND
RED - ACCESSORY (+)
YELLOW - 12V (+)
ORANGE - ILLUMINATION (+) ———— SEE RADIO WIRE
PURPLE/WHITE - REVERSE LIGHT (+) * ———— CHART
LTGREEN - E-BRAKE (-) ———— FOR RADIO
PINK - VEHICLE SPEED ———— WIRE COLORS

* **ONLY** CONNECT TO RADIO REVERSE INPUT OR MODULE DAMAGE WILL OCCUR

20

✂ **IF NOT USING** A MAESTRO HEAD UNIT ADAPTER:
CUT AND DISCARD CONNECTOR

HEAD UNIT ADAPTER
SOLD SEPARATELY

STEP 5

MAIN HARNESS

CONNECT TO AFTERMARKET RADIO

OR

IF WIRES ARE PRESENT ON
ADAPTER: SEE RADIO
REFERENCE CHART

STEP 2

REVERSE CAMERA HARNESS

4

F : 24

BACKUP CAM

DATA CABLE **AUDIO CABLE**

STEP 3

FACTORY RADIO HARNESS

4

10

2 N.C.

2

12   IF PRESENT

6

10

B : 20
C : 28

CONNECT (B) 20-PIN
OR (C) 28 PIN CABLE

WIRES FROM VEHICLE

AMP TURN ON N.C.

STEP 6

4   3

18

10

10

3

STEP 4

OBDII CONNECTOR

3

16

HRR-T01 T-HARNESS

NOT REQUIRED

10

STEERING WHEEL CONTROL CABLE   4

18
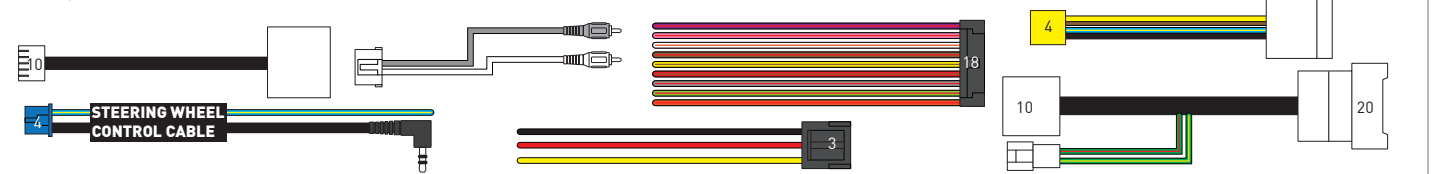
4

10

3

20

RADIO WIRE REFERENCE CHART

TO1 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood/ JVC cable	Wire Color on Pioneer cable	Wire Color on Sony cable
Illumination	(+)	Orange	N/A	Orange/White	Orange/White	Orange
Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Head unit adapter wiring (optional accessory, sold separately)

ACC-HU-ALP1 Wire Description	Polarity	Wire Color on Adapter	Alpine Radio
VSS (vehicle speed sensor)	(DATA)	Green/White	Green/White

ACC-HU-KEN1 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
CAM	(+)	Green/Red	Refer to camera/radio manual
CAM	(-)	Green/White	Refer to camera/radio manual
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

ACC-HU-KEN2 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
E-Brake	(-)	LtGreen	LtGreen
Reverse Light*	(+)	Purple/White	Purple/White
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

* Reverse light wire: Only connect to radio or module damage will occur.

MODULE DIAGNOSTICS

PROGRAMMING BUTTON

LED 1

LED 2

LED 1

LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
● or ●		RED or GREEN flashing	LED flashes 1 or more times, either red or green, **when a steering wheel button is pressed** : normal operation.
●		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do <u>NOT</u> use DEMO MODE.
●		2 RED flashes	Problem detected. Consult troubleshooting table.
●		1 GREEN flash	After radio boots up : Normal operation.
	●	3 GREEN flashes	Bluetooth is activated. Turns off after one minute: Normal operation.
●	●	OFF	Normal operation (inactive).

VIDEO HELP		Installation, product information, vehicle specific videos.
VERIFY FLASH		Last flash information, steering control configuration, vehicle information.
WEBLINK		Software to program module.

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PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	Ensure OBDII connector is securely attached to the OBDII connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the **RED/BROWN** wire is on **PIN 6** and the **YELLOW/BROWN** wire is connected to **PIN 14** of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended. If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options. Reset the RR.
The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on.	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty. Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
The light on the Maestro is blinking **RED TWICE** but the radio is **NOT** turning on.	If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well. Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	Ensure the 20 or 28-pin connector is plugged to the vehicle and to the TO1 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).
(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

Turn the key to the OFF position, then disconnect all connectors from the module.
Press and hold the module's programming button and connect all the connectors back to the module. Wait, the module's LED will flash RED rapidly (this may take up to 10 seconds).
Release the programming button. Wait, the LED will turn solid GREEN for 2 seconds to show the reset was successful.

TECHNICAL ASSISTANCE

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Email: maestro.support@idatalink.com

IMPORTANT: To ensure proper operation, the aftermarket radio needs to have the latest firmware from the manufacturer. Please visit the radio manufacturer's website and look for any updates pertaining to your radio.

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!

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ESCORT

Click here for:
Radar Installation Guides

HEAD UNIT ADAPTER:
ACC-HU-PIO1, SON1, KEN1, KEN2, ALP1

WELCOME

Congratulations on the purchase of your iDatalink Maestro RR Radio replacement solution. You are now a few simple steps away from enjoying your new car radio with enhanced features.

Before starting your installation, please ensure that your iDatalink Maestro module is programmed with the correct firmware for your vehicle and that you carefully review the install guide.

Please note that Maestro RR will only retain functionalities that were originally available in the vehicle.

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NEED HELP?

📞 1 866 427-2999

✉ maestro.support@idatalink.com

INSTALLATION INSTRUCTIONS P1 /1

STEP 1

Remove the factory radio

If using head unit adapter (sold separately), connect HRR-TO1 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-TO1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-TO1 T-harness and match the wire functions.

Note: only connect purple/white wire to radio reverse input or module damage will occur.

STEP 2

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble TO1 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-TO1 harness.

STEP 3

- Connect HRR-TO1 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 4

- Plug the harnesses into the aftermarket radio.
- Connect the left front and right front low level outputs RCA cables into the aftermarket radio.
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (if there is no iDatalink audio input, connect to AUX).

Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.

STEP 5

- Connect all the harnesses to the Maestro RR module then test your installation.

3

WIRING DIAGRAM *with an Amplifier*

STEP 1

WHITE - LF SPEAKER (+)
WHITE/BLACK - LF SPEAKER (-)
GRAY - RF SPEAKER (+)
GRAY/BLACK - RF SPEAKER (-)
GREEN - LR SPEAKER (+)
GREEN/BLACK - LR SPEAKER (-)
PURPLE - RR SPEAKER (+)
PURPLE/BLACK - RR SPEAKER (-)
BLUE/WHITE - AMP. TURN ON (+)
BLACK - GROUND
RED - ACCESSORY (+)
YELLOW - 12V (+)
ORANGE - ILLUMINATION (+)
PINK - VEHICLE SPEED
LTGREEN - E-BRAKE (-)
PURPLE/WHITE - REVERSE LIGHT (+) *

CONNECTIONS
NOT
REQUIRED
WITH AMP

SEE RADIO WIRE
CHART
FOR RADIO
WIRE COLORS

* **ONLY** CONNECT TO RADIO REVERSE INPUT OR MODULE DAMAGE WILL OCCUR

20

IF NOT USING A MAESTRO HEAD UNIT ADAPTER:
CUT AND DISCARD CONNECTOR

HEAD UNIT ADAPTER
SOLD SEPARATELY

STEP 4

MAIN HARNESS

CONNECT TO AFTERMARKET RADIO

OR

IF WIRES ARE PRESENT ON
ADAPTER: SEE RADIO
REFERENCE CHART

STEP 2

FACTORY RADIO HARNESS

4 UNPLUG

WHITE

4

10

2

2

12

IF PRESENT

6 N.C.

10

CONNECT (B) 20-PIN
OR (C) 28 PIN CABLE

AMP TURN ON N.C.

A 20

B : 20
C : 28

WIRES FROM VEHICLE

RF OUT
LF OUT

DATA CABLE **AUDIO CABLE**

4   3

STEP 5

18

MAESTRO RR MODULE

10

10

3

STEP 3

OBDII CONNECTOR

3

16

BACKUP CAM N.C.

4 N.C.

HRR-T01 T-HARNESS

NOT REQUIRED

10

4 **STEERING WHEEL CONTROL CABLE**

4 D

4 E

4 F

3

18

RADIO WIRE REFERENCE CHART

TO1 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood/ JVC cable	Wire Color on Pioneer cable	Wire Color on Sony cable
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Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Head unit adapter wiring (optional accessory, sold separately)

ACC-HU-ALP1 Wire Description	Polarity	Wire Color on Adapter	Alpine Radio
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CAM	(-)	Green/White	Refer to camera/radio manual
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

ACC-HU-KEN2 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
E-Brake	(-)	LtGreen	LtGreen
Reverse Light*	(+)	Purple/White	Purple/White
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

* Reverse light wire: Only connect to radio or module damage will occur.

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PROGRAMMING BUTTON

LED 1

LED 2

LED 1

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TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	Ensure OBDII connector is securely attached to the OBDII connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the **RED/BROWN** wire is on **PIN 6** and the **YELLOW/BROWN** wire is connected to **PIN 14** of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended. If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options. Reset the RR.
The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on.	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty. Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
The light on the Maestro is blinking **RED TWICE** but the radio is **NOT** turning on.	If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well. Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	Ensure the 20 or 28-pin connector is plugged to the vehicle and to the TO1 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).
(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

Turn the key to the OFF position, then disconnect all connectors from the module.
Press and hold the module's programming button and connect all the connectors back to the module. Wait, the module's LED will flash RED rapidly (this may take up to 10 seconds).
Release the programming button. Wait, the LED will turn solid GREEN for 2 seconds to show the reset was successful.

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

IMPORTANT: To ensure proper operation, the aftermarket radio needs to have the latest firmware from the manufacturer. Please visit the radio manufacturer's website and look for any updates pertaining to your radio.

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!

OR

PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro HRR-TO1 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-TOY01-DS

ADDITIONAL RESOURCES

Maestro RR2 Programmable Outputs Guide

OPTIONAL ACCESSORIES

Click here for:
Radar Installation Guides

HEAD UNIT ADAPTER:
ACC-HU-PIO1, SON1, KEN1, KEN2, ALP1

WELCOME

Congratulations on the purchase of your iDatalink Maestro RR Radio replacement solution. You are now a few simple steps away from enjoying your new car radio with enhanced features.

Before starting your installation, please ensure that your iDatalink Maestro module is programmed with the correct firmware for your vehicle and that you carefully review the install guide.

Please note that Maestro RR will only retain functionalities that were originally available in the vehicle.

NEED HELP?

📞 1 866 427-2999

✉ maestro.support@idatalink.com

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STEP 1

Remove the factory radio

If using head unit adapter (sold separately), connect HRR-TO1 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-TO1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-TO1 T-harness and match the wire functions.

  Note: only connect purple/white wire to radio reverse input or module damage will occur.

STEP 2

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble TO1 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-TO1 harness.

STEP 3

- Connect HRR-TO1 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 4

- Plug the harnesses into the aftermarket radio.
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (if there is no iDatalink audio input, connect to AUX).
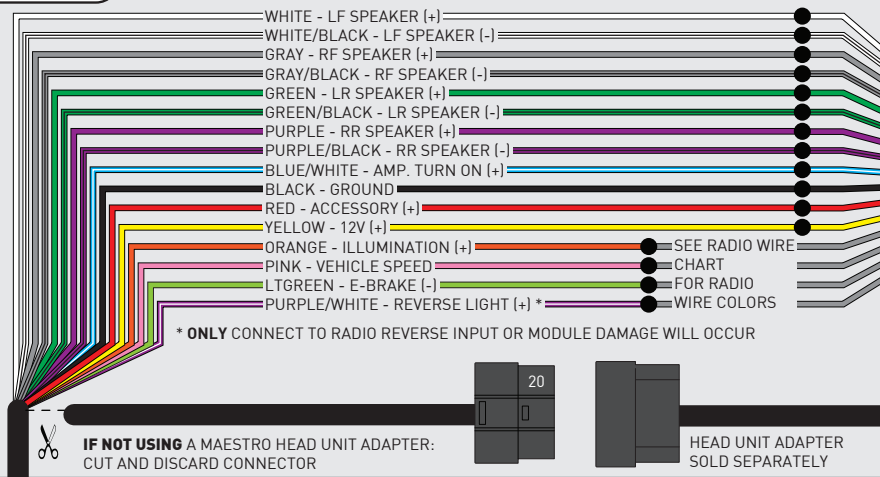
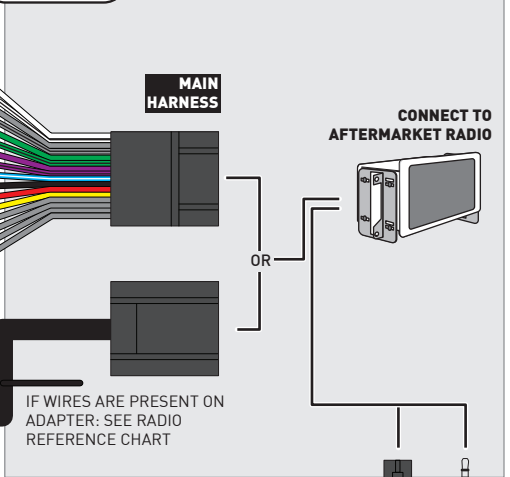 **Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

STEP 5

- Connect all the harnesses to the Maestro RR module then test your installation.
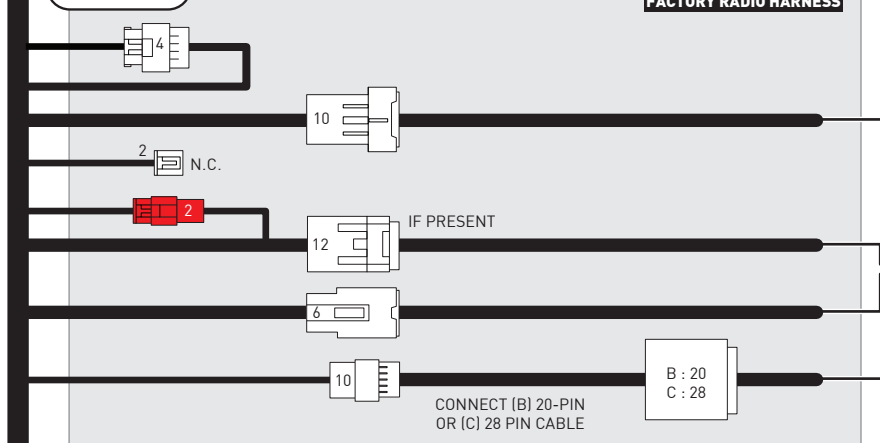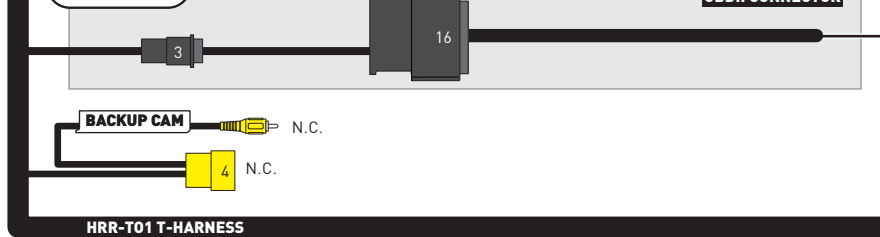
WIRING DIAGRAM *without an Amplifier*

STEP 1

WHITE - LF SPEAKER (+)
WHITE/BLACK - LF SPEAKER (-)
GRAY - RF SPEAKER (+)
GRAY/BLACK - RF SPEAKER (-)
GREEN - LR SPEAKER (+)
GREEN/BLACK - LR SPEAKER (-)
PURPLE - RR SPEAKER (+)
PURPLE/BLACK - RR SPEAKER (-)
BLUE/WHITE - AMP. TURN ON (+)
BLACK - GROUND
RED - ACCESSORY (+)
YELLOW - 12V (+)
ORANGE - ILLUMINATION (+) ▸ SEE RADIO WIRE
PINK - VEHICLE SPEED ▸ CHART
LTGREEN - E-BRAKE (-) ▸ FOR RADIO
PURPLE/WHITE - REVERSE LIGHT (+) * ▸ WIRE COLORS

* **ONLY** CONNECT TO RADIO REVERSE INPUT OR MODULE DAMAGE WILL OCCUR

MAIN HARNESS

CONNECT TO AFTERMARKET RADIO

OR

20

✂ **IF NOT USING** A MAESTRO HEAD UNIT ADAPTER: CUT AND DISCARD CONNECTOR

HEAD UNIT ADAPTER SOLD SEPARATELY

IF WIRES ARE PRESENT ON ADAPTER: SEE RADIO REFERENCE CHART

STEP 4

STEP 2

FACTORY RADIO HARNESS

4

10

2 ☐ N.C.

2

12 IF PRESENT

6

10 CONNECT (B) 20-PIN OR (C) 28 PIN CABLE

B : 20
C : 28

WIRES FROM VEHICLE

DATA CABLE **AUDIO CABLE**

AMP TURN ON ── N.C.

STEP 3

OBDII CONNECTOR

3

16

BACKUP CAM ──● N.C.

4 N.C.

HRR-TO1 T-HARNESS

STEP 5

4   3

18

10

10

3

MAESTRO RR MODULE

6

NOT REQUIRED

0

STEERING WHEEL CONTROL CABLE

4

4

4

4

D
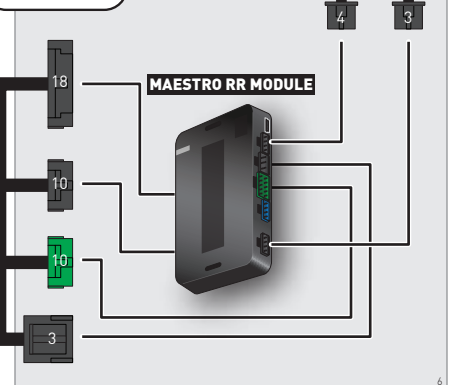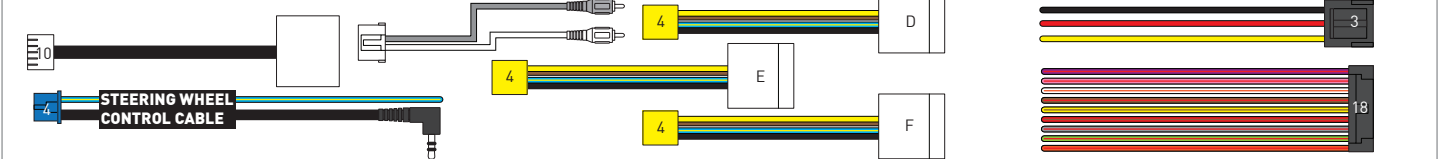
E

F

3

18

RADIO WIRE REFERENCE CHART

TO1 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood/ JVC cable	Wire Color on Pioneer cable	Wire Color on Sony cable
Illumination	(+)	Orange	N/A	Orange/White	Orange/White	Orange
Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Head unit adapter wiring (optional accessory, sold separately)

ACC-HU-ALP1 Wire Description	Polarity	Wire Color on Adapter	Alpine Radio
VSS (vehicle speed sensor)	(DATA)	Green/White	Green/White

ACC-HU-KEN1 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
CAM	(+)	Green/Red	Refer to camera/radio manual
CAM	(-)	Green/White	Refer to camera/radio manual
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

ACC-HU-KEN2 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
E-Brake	(-)	LtGreen	LtGreen
Reverse Light*	(+)	Purple/White	Purple/White
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

* Reverse light wire: Only connect to radio or module damage will occur.

MODULE DIAGNOSTICS

PROGRAMMING BUTTON

LED 1
LED 2
LED 1

LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
● or ●		RED or GREEN flashing	LED flashes 1 or more times, either red or green, **when a steering wheel button is pressed** : normal operation.
●		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do <u>NOT</u> use DEMO MODE.
●		2 RED flashes	Problem detected. Consult troubleshooting table.
●		1 GREEN flash	After radio boots up : Normal operation.
	●	3 GREEN flashes	Bluetooth is activated. Turns off after one minute: Normal operation.
●	●	OFF	Normal operation (inactive).

VIDEO HELP		Installation, product information, vehicle specific videos.
VERIFY FLASH		Last flash information, steering control configuration, vehicle information.
WEBLINK		Software to program module.

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	Ensure OBDII connector is securely attached to the OBDII connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the **RED/BROWN** wire is on **PIN 6** and the **YELLOW/BROWN** wire is connected to **PIN 14** of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended. If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options. Reset the RR.
The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on.	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty. Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
The light on the Maestro is blinking **RED TWICE** but the radio is **NOT** turning on.	If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well. Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	Ensure the 20 or 28-pin connector is plugged to the vehicle and to the TO1 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).
(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

Turn the key to the OFF position, then disconnect all connectors from the module.
Press and hold the module's programming button and connect all the connectors back to the module. Wait, the module's LED will flash RED rapidly (this may take up to 10 seconds).
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TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

IMPORTANT: To ensure proper operation, the aftermarket radio needs to have the latest firmware from the manufacturer. Please visit the radio manufacturer's website and look for any updates pertaining to your radio.

INSTALL GUIDE

2009-2013
TOYOTA COROLLA
WITHOUT JBL

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!

OR

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PROGRAMMED FIRMWARE

ADS-RR(SR)-TOY01-DS

ADDITIONAL RESOURCES

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ESCORT.

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Remove the factory radio

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- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-TO1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-TO1 T-harness and match the wire functions.

Note: only connect purple/white wire to radio reverse input or module damage will occur.

STEP 2

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble TO1 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-TO1 harness.

STEP 3

- Connect HRR-TO1 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 4

- Plug the harnesses into the aftermarket radio.
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (if there is no iDatalink audio input, connect to AUX).
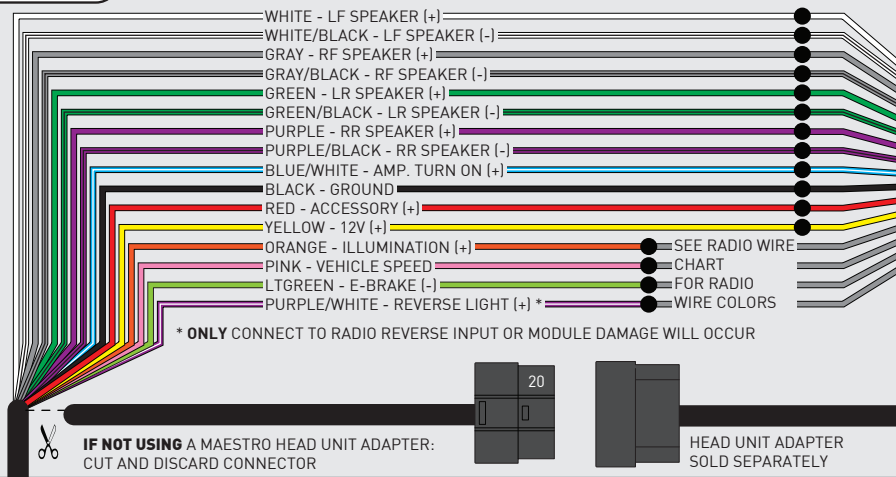
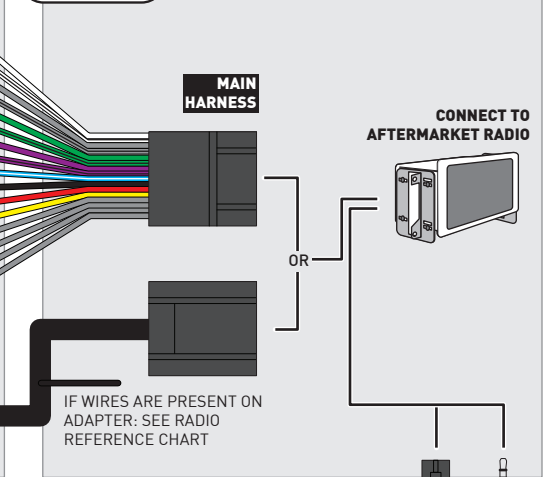**Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

STEP 5

- Connect all the harnesses to the Maestro RR module then test your installation.
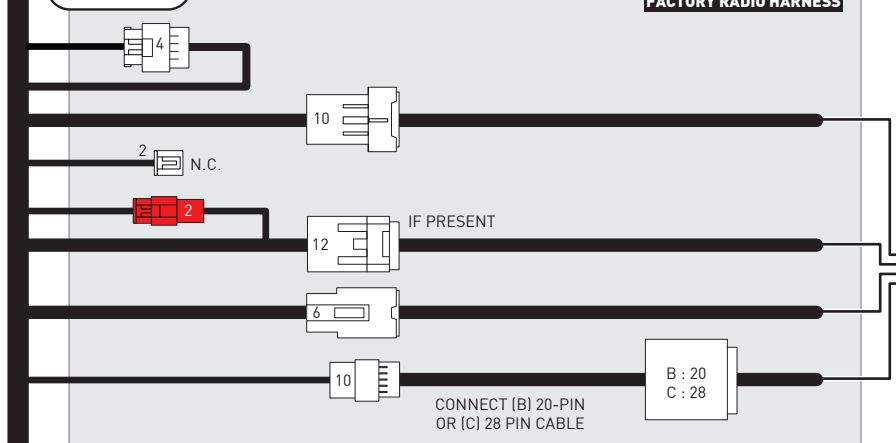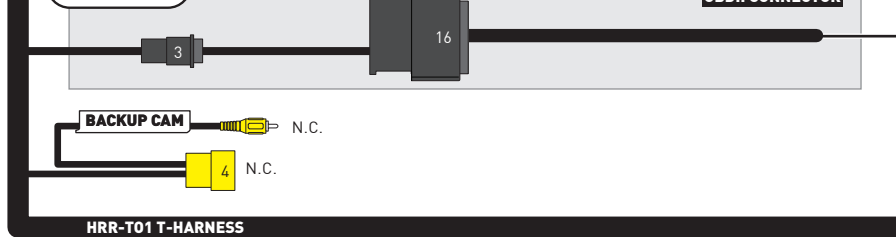
6

WIRING DIAGRAM *without an Amplifier*

STEP 1

WHITE - LF SPEAKER (+)
WHITE/BLACK - LF SPEAKER (-)
GRAY - RF SPEAKER (+)
GRAY/BLACK - RF SPEAKER (-)
GREEN - LR SPEAKER (+)
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PURPLE - RR SPEAKER (+)
PURPLE/BLACK - RR SPEAKER (-)
BLUE/WHITE - AMP. TURN ON (+)
BLACK - GROUND
RED - ACCESSORY (+)
YELLOW - 12V (+)
ORANGE - ILLUMINATION (+) — SEE RADIO WIRE
PINK - VEHICLE SPEED — CHART
LTGREEN - E-BRAKE (-) — FOR RADIO
PURPLE/WHITE - REVERSE LIGHT (+) * — WIRE COLORS

* ONLY CONNECT TO RADIO REVERSE INPUT OR MODULE DAMAGE WILL OCCUR

20

IF NOT USING A MAESTRO HEAD UNIT ADAPTER:
CUT AND DISCARD CONNECTOR

HEAD UNIT ADAPTER
SOLD SEPARATELY

STEP 4

MAIN HARNESS

CONNECT TO AFTERMARKET RADIO

OR

IF WIRES ARE PRESENT ON
ADAPTER: SEE RADIO
REFERENCE CHART

STEP 2

FACTORY RADIO HARNESS

4

10

2 N.C.

2

12 IF PRESENT

6

10   CONNECT (B) 20-PIN
OR (C) 28 PIN CABLE

B : 20
C : 28

WIRES FROM VEHICLE

AMP TURN ON N.C.

STEP 3

3   16   **OBDII CONNECTOR**

BACKUP CAM N.C.

4 N.C.

HRR-TO1 T-HARNESS

DATA CABLE   **AUDIO CABLE**

4   3

STEP 5

18

10

10

3

MAESTRO RR MODULE

6

NOT REQUIRED

0

4 **STEERING WHEEL CONTROL CABLE**

4   D

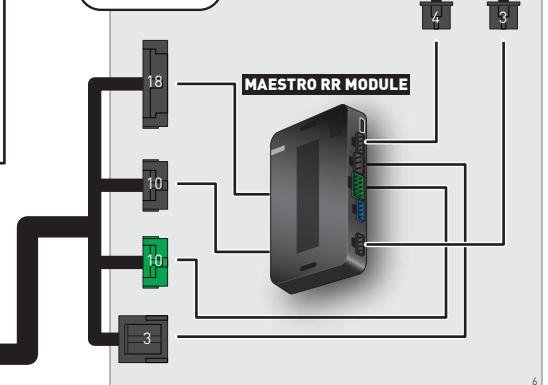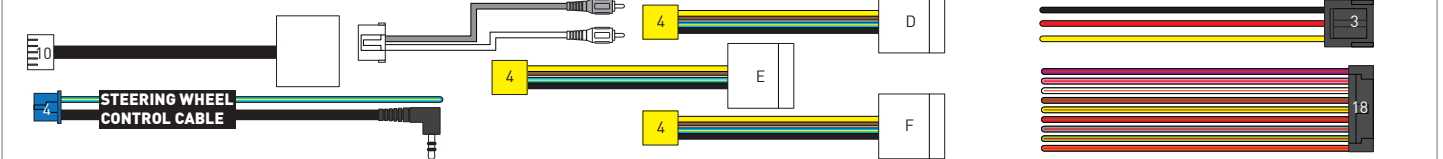4   E

4   F

3

18

RADIO WIRE REFERENCE CHART

TO1 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood/ JVC cable	Wire Color on Pioneer cable	Wire Color on Sony cable
Illumination	(+)	Orange	N/A	Orange/White	Orange/White	Orange
Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Head unit adapter wiring (optional accessory, sold separately)

ACC-HU-ALP1 Wire Description	Polarity	Wire Color on Adapter	Alpine Radio
VSS (vehicle speed sensor)	(DATA)	Green/White	Green/White

ACC-HU-KEN1 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
CAM	(+)	Green/Red	Refer to camera/radio manual
CAM	(-)	Green/White	Refer to camera/radio manual
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

ACC-HU-KEN2 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
E-Brake	(-)	LtGreen	LtGreen
Reverse Light*	(+)	Purple/White	Purple/White
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

* Reverse light wire: Only connect to radio or module damage will occur.

MODULE DIAGNOSTICS

PROGRAMMING BUTTON

LED 1

LED 2

LED 1

LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
● or ●		RED or GREEN flashing	LED flashes 1 or more times, either red or green, **when a steering wheel button is pressed** : normal operation.
●		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do <u>NOT</u> use DEMO MODE.
●		2 RED flashes	Problem detected. Consult troubleshooting table.
●		1 GREEN flash	After radio boots up : Normal operation.
	●	3 GREEN flashes	Bluetooth is activated. Turns off after one minute: Normal operation.
●	●	OFF	Normal operation (inactive).

VIDEO HELP		Installation, product information, vehicle specific videos.
VERIFY FLASH		Last flash information, steering control configuration, vehicle information.
WEBLINK		Software to program module.

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PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	Ensure OBDII connector is securely attached to the OBDII connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the **RED/BROWN** wire is on **PIN 6** and the **YELLOW/BROWN** wire is connected to **PIN 14** of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended. If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options. Reset the RR.
The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on.	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty. Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
The light on the Maestro is blinking **RED TWICE** but the radio is **NOT** turning on.	If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well. Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	Ensure the 20 or 28-pin connector is plugged to the vehicle and to the TO1 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).
(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

Turn the key to the OFF position, then disconnect all connectors from the module.
Press and hold the module's programming button and connect all the connectors back to the module. Wait, the module's LED will flash RED rapidly (this may take up to 10 seconds).
Release the programming button. Wait, the LED will turn solid GREEN for 2 seconds to show the reset was successful.

TECHNICAL ASSISTANCE

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Email: maestro.support@idatalink.com

IMPORTANT: To ensure proper operation, the aftermarket radio needs to have the latest firmware from the manufacturer. Please visit the radio manufacturer's website and look for any updates pertaining to your radio.

INSTALL GUIDE

2017-2018
TOYOTA COROLLA IM

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!

OR

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HEAD UNIT ADAPTER:
ACC-HU-PIO1, SON1, KEN1, KEN2, ALP1

NOTICE: Automotive Data Solutions Inc. (ADS) recommends having this installation performed by a certified technician. Logos and trademarks used here in are the properties of their respective owners.

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STEP 1

Remove the factory radio

If using head unit adapter (sold separately), connect HRR-TO1 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-TO1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-TO1 T-harness and match the wire functions.

  Note: only connect purple/white wire to radio reverse input or module damage will occur.

STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-TO1 harness to appropriate HRR adapter cable (D, E or F) then connect to the backup camera harness.

STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble TO1 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-TO1 harness.

STEP 4

- Connect HRR-TO1 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (if there is no iDatalink audio input, connect to AUX).

  Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.

STEP 6

- Connect all the harnesses to the Maestro RR module then test your installation.

2

WIRING DIAGRAM *without an Amplifier*

STEP 1

WHITE - LF SPEAKER (+)
WHITE/BLACK - LF SPEAKER (-)
GRAY - RF SPEAKER (+)
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PURPLE/WHITE - REVERSE LIGHT (+) * — CHART
LTGREEN - E-BRAKE (-) — FOR RADIO
PINK - VEHICLE SPEED — WIRE COLORS

* **ONLY** CONNECT TO RADIO REVERSE INPUT OR MODULE DAMAGE WILL OCCUR

20

IF NOT USING A MAESTRO HEAD UNIT ADAPTER:
CUT AND DISCARD CONNECTOR

HEAD UNIT ADAPTER
SOLD SEPARATELY

STEP 5

MAIN HARNESS

CONNECT TO AFTERMARKET RADIO

OR

IF WIRES ARE PRESENT ON
ADAPTER: SEE RADIO
REFERENCE CHART

STEP 2

REVERSE CAMERA HARNESS

BACKUP CAM

4

E : 24

DATA CABLE

AUDIO CABLE

STEP 3

FACTORY RADIO HARNESS

4

10

2   N.C.

2

12   IF PRESENT

6

10   B : 20   C : 28

CONNECT (B) 20-PIN
OR (C) 28 PIN CABLE

AMP TURN ON   N.C.

WIRES FROM VEHICLE

STEP 6

4   3

18

10

10

3

STEP 4

OBDII CONNECTOR

3   16

HRR-T01 T-HARNESS

NOT REQUIRED

10

4   STEERING WHEEL
CONTROL CABLE

18

3

4

10

20

RADIO WIRE REFERENCE CHART

TO1 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood/ JVC cable	Wire Color on Pioneer cable	Wire Color on Sony cable
Illumination	(+)	Orange	N/A	Orange/White	Orange/White	Orange
Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Head unit adapter wiring (optional accessory, sold separately)

ACC-HU-ALP1 Wire Description	Polarity	Wire Color on Adapter	Alpine Radio
VSS (vehicle speed sensor)	(DATA)	Green/White	Green/White

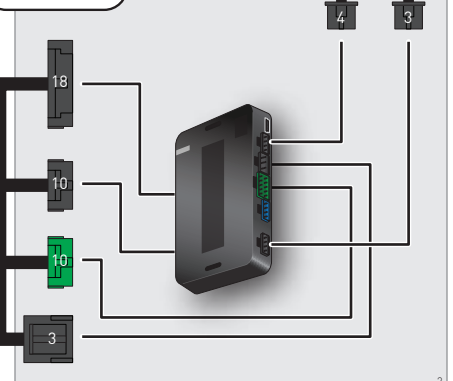| ACC-HU-KEN1 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
CAM	(+)	Green/Red	Refer to camera/radio manual
CAM	(-)	Green/White	Refer to camera/radio manual
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

ACC-HU-KEN2 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
E-Brake	(-)	LtGreen	LtGreen
Reverse Light*	(+)	Purple/White	Purple/White
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

* Reverse light wire: Only connect to radio or module damage will occur.

MODULE DIAGNOSTICS

PROGRAMMING BUTTON

LED 1

LED 2

LED 1

LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
● or ●		RED or GREEN flashing	LED flashes 1 or more times, either red or green, **when a steering wheel button is pressed** : normal operation.
●		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do <u>NOT</u> use DEMO MODE.
●		2 RED flashes	Problem detected. Consult troubleshooting table.
●		1 GREEN flash	After radio boots up : Normal operation.
	●	3 GREEN flashes	Bluetooth is activated. Turns off after one minute: Normal operation.
●	●	OFF	Normal operation (inactive).

VIDEO HELP		Installation, product information, vehicle specific videos.
VERIFY FLASH		Last flash information, steering control configuration, vehicle information.
WEBLINK		Software to program module.

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	Ensure OBDII connector is securely attached to the OBDII connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the **RED/BROWN** wire is on **PIN 6** and the **YELLOW/BROWN** wire is connected to **PIN 14** of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended. If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options. Reset the RR.
The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on.	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty. Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
The light on the Maestro is blinking **RED TWICE** but the radio is **NOT** turning on.	If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well. Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	Ensure the 20 or 28-pin connector is plugged to the vehicle and to the TO1 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).
(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

Turn the key to the OFF position, then disconnect all connectors from the module.
Press and hold the module's programming button and connect all the connectors back to the module. Wait, the module's LED will flash RED rapidly (this may take up to 10 seconds).
Release the programming button. Wait, the LED will turn solid GREEN for 2 seconds to show the reset was successful.

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

IMPORTANT: To ensure proper operation, the aftermarket radio needs to have the latest firmware from the manufacturer. Please visit the radio manufacturer's website and look for any updates pertaining to your radio.

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!

OR

PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
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HEAD UNIT ADAPTER:
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STEP 1

Remove the factory radio

If using head unit adapter (sold separately), connect HRR-TO1 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-TO1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-TO1 T-harness and match the wire functions.

  Note: only connect purple/white wire to radio reverse input or module damage will occur.

STEP 2

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble TO1 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-TO1 harness.

STEP 3

- Connect HRR-TO1 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 4

- Plug the harnesses into the aftermarket radio.
- Connect the left front and right front low level outputs RCA cables into the aftermarket radio.
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (if there is no iDatalink audio input, connect to AUX).

  Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.

STEP 5

- Connect all the harnesses to the Maestro RR module then test your installation.

3

WIRING DIAGRAM *with an Amplifier*

STEP 1

WHITE - LF SPEAKER (+)
WHITE/BLACK - LF SPEAKER (-)
GRAY - RF SPEAKER (+)
GRAY/BLACK - RF SPEAKER (-)
GREEN - LR SPEAKER (+)
GREEN/BLACK - LR SPEAKER (-)
PURPLE - RR SPEAKER (+)
PURPLE/BLACK - RR SPEAKER (-)

CONNECTIONS
NOT
REQUIRED
WITH AMP

BLUE/WHITE - AMP. TURN ON (+)
BLACK - GROUND
RED - ACCESSORY (+)
YELLOW - 12V (+)
ORANGE - ILLUMINATION (+)
PINK - VEHICLE SPEED
LTGREEN - E-BRAKE (-)
PURPLE/WHITE - REVERSE LIGHT (+) *

SEE RADIO WIRE
CHART
FOR RADIO
WIRE COLORS

* **ONLY** CONNECT TO RADIO REVERSE INPUT OR MODULE DAMAGE WILL OCCUR

IF NOT USING A MAESTRO HEAD UNIT ADAPTER:
CUT AND DISCARD CONNECTOR

20

HEAD UNIT ADAPTER
SOLD SEPARATELY

STEP 4

MAIN HARNESS

CONNECT TO AFTERMARKET RADIO

OR

IF WIRES ARE PRESENT ON
ADAPTER: SEE RADIO
REFERENCE CHART

STEP 2

FACTORY RADIO HARNESS

4 UNPLUG
WHITE
4
10
2
2
12
IF PRESENT
6 N.C.

A 20

RF OUT
LF OUT

DATA CABLE   **AUDIO CABLE**

WIRES FROM VEHICLE

10
CONNECT (B) 20-PIN
OR (C) 28 PIN CABLE

B : 20
C : 28

AMP TURN ON N.C.

STEP 5

STEP 3

OBDII CONNECTOR

3   16

MAESTRO RR MODULE

18

10

10

3

BACKUP CAM N.C.
4 N.C.

HRR-TO1 T-HARNESS

NOT REQUIRED

10

4 **STEERING WHEEL CONTROL CABLE**

4   D
4   E
4   F

3

18

RADIO WIRE REFERENCE CHART

TO1 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood/ JVC cable	Wire Color on Pioneer cable	Wire Color on Sony cable
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E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Head unit adapter wiring (optional accessory, sold separately)

ACC-HU-ALP1 Wire Description	Polarity	Wire Color on Adapter	Alpine Radio
VSS (vehicle speed sensor)	(DATA)	Green/White	Green/White

ACC-HU-KEN1 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
CAM	(+)	Green/Red	Refer to camera/radio manual
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Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

ACC-HU-KEN2 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
E-Brake	(-)	LtGreen	LtGreen
Reverse Light*	(+)	Purple/White	Purple/White
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

* Reverse light wire: Only connect to radio or module damage will occur.

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PROGRAMMING BUTTON

LED 1

LED 2

LED 1

LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
● or ●		RED or GREEN flashing	LED flashes 1 or more times, either red or green, **when a steering wheel button is pressed** : normal operation.
●		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do <u>NOT</u> use DEMO MODE.
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- Cut and remove the black 20 pin connector from the HRR-TO1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-TO1 T-harness and match the wire functions.

  Note: only connect purple/white wire to radio reverse input or module damage will occur.

STEP 2

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble TO1 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-TO1 harness.

STEP 3

- Connect HRR-TO1 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 4

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- Plug the Data cable to the data port of the aftermarket radio.
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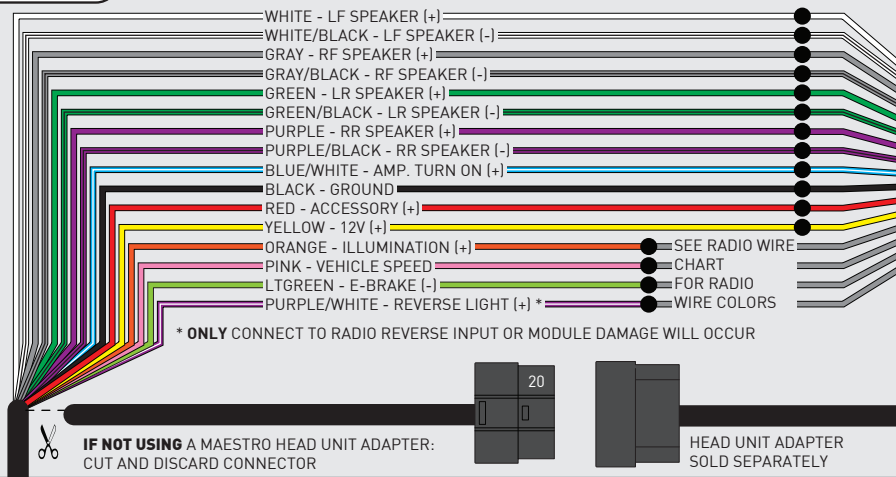
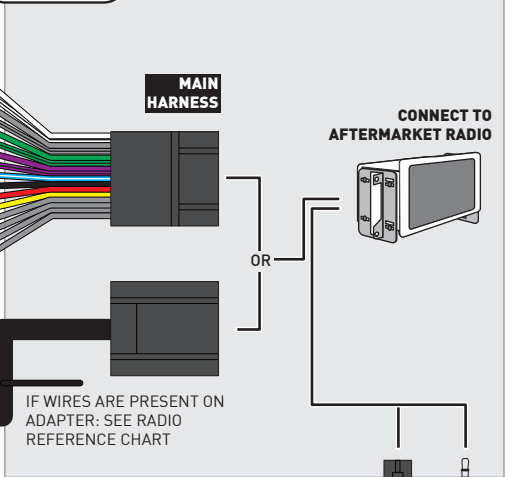 **Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

STEP 5

- Connect all the harnesses to the Maestro RR module then test your installation.
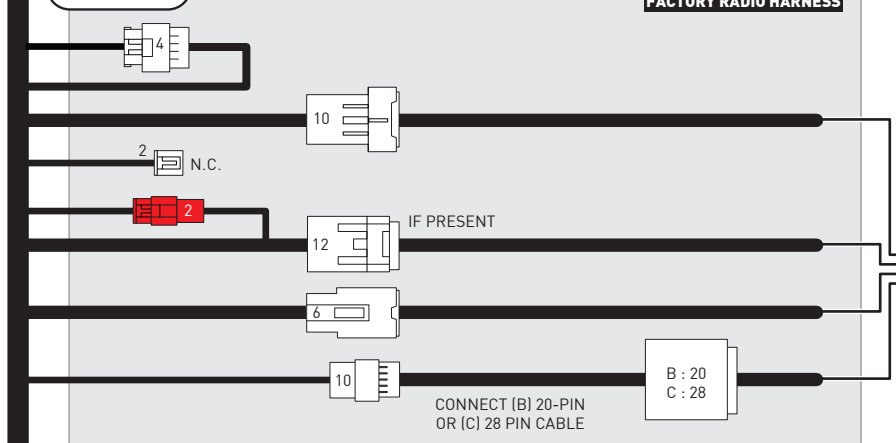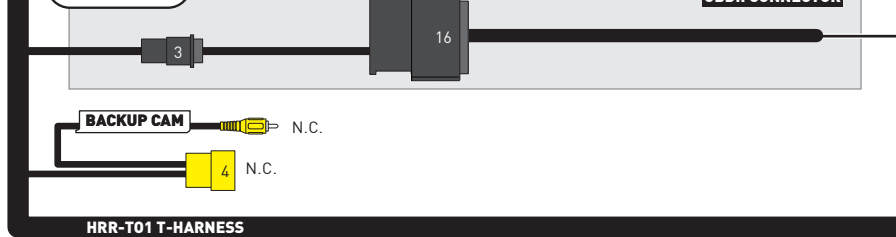
6

WIRING DIAGRAM *without an Amplifier*

STEP 1

WHITE - LF SPEAKER (+)
WHITE/BLACK - LF SPEAKER (-)
GRAY - RF SPEAKER (+)
GRAY/BLACK - RF SPEAKER (-)
GREEN - LR SPEAKER (+)
GREEN/BLACK - LR SPEAKER (-)
PURPLE - RR SPEAKER (+)
PURPLE/BLACK - RR SPEAKER (-)
BLUE/WHITE - AMP. TURN ON (+)
BLACK - GROUND
RED - ACCESSORY (+)
YELLOW - 12V (+)
ORANGE - ILLUMINATION (+)   SEE RADIO WIRE
PINK - VEHICLE SPEED   CHART
LTGREEN - E-BRAKE (-)   FOR RADIO
PURPLE/WHITE - REVERSE LIGHT (+) * WIRE COLORS

* **ONLY** CONNECT TO RADIO REVERSE INPUT OR MODULE DAMAGE WILL OCCUR

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IF NOT USING A MAESTRO HEAD UNIT ADAPTER:
CUT AND DISCARD CONNECTOR

HEAD UNIT ADAPTER
SOLD SEPARATELY

STEP 4

MAIN HARNESS

CONNECT TO AFTERMARKET RADIO

OR

IF WIRES ARE PRESENT ON
ADAPTER: SEE RADIO
REFERENCE CHART

STEP 2

FACTORY RADIO HARNESS

4

10

2 N.C.

2

12   IF PRESENT

6

10   B : 20
             C : 28

CONNECT (B) 20-PIN
OR (C) 28 PIN CABLE

WIRES FROM VEHICLE

AMP TURN ON — N.C.

STEP 3

OBDII CONNECTOR

3   **16**

BACKUP CAM — N.C.

4 N.C.

HRR-T01 T-HARNESS

STEP 5

DATA CABLE **AUDIO CABLE**

4   **3**

18

MAESTRO RR MODULE

10

10

3

6

NOT REQUIRED

0

4 **STEERING WHEEL CONTROL CABLE**

4   D

4   E

4   F

3

18
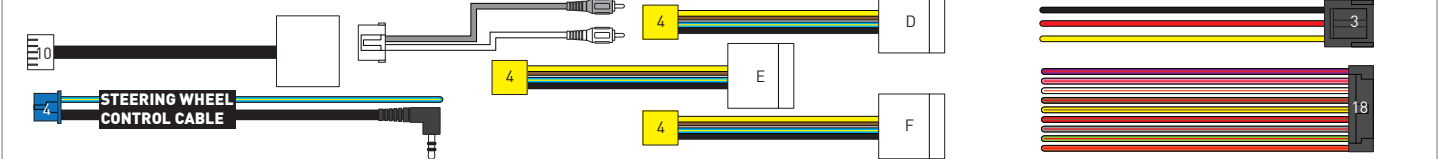
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ACC-HU-KEN2 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
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LED 2

LED 1

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NOTICE: Automotive Data Solutions Inc. (ADS) recommends having this installation performed by a certified technician. Logos and trademarks used here in are the properties of their respective owners.

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If using head unit adapter (sold separately), connect HRR-TO1 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-TO1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-TO1 T-harness and match the wire functions.

  Note: only connect purple/white wire to radio reverse input or module damage will occur.

STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-TO1 harness to appropriate HRR adapter cable (D, E or F) then connect to the backup camera harness.

STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble TO1 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-TO1 harness.

STEP 4

- Connect HRR-TO1 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the left front and right front low level outputs RCA cables into the aftermarket radio.
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (if there is no iDatalink audio input, connect to AUX).
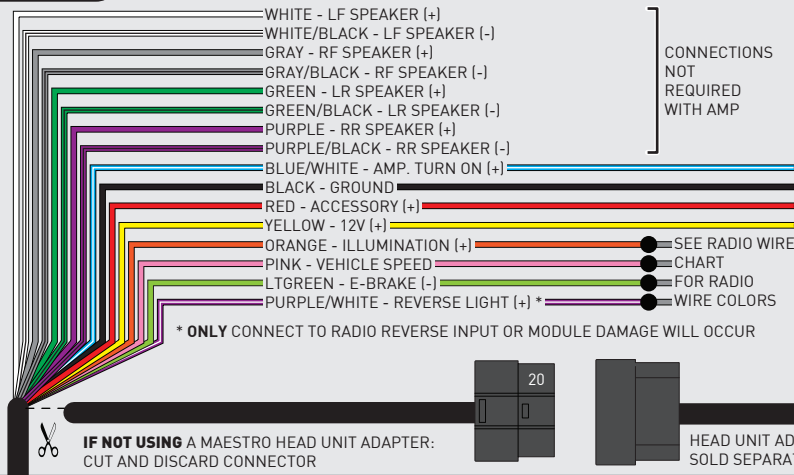
Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.
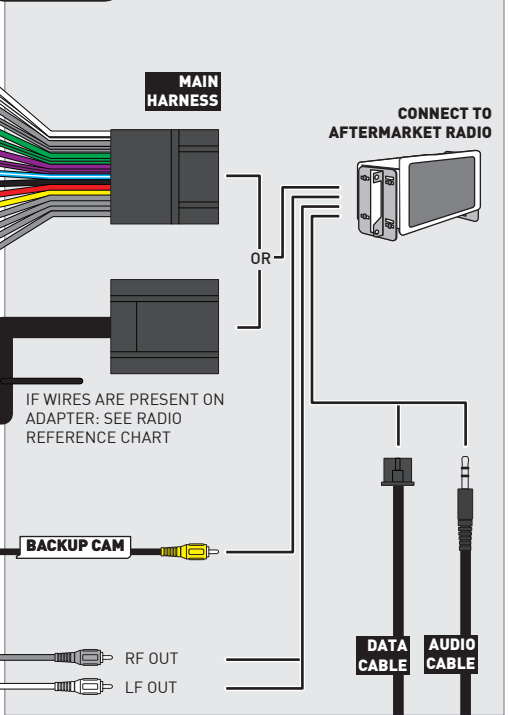
STEP 6

- Connect all the harnesses to the Maestro RR module then test your installation.
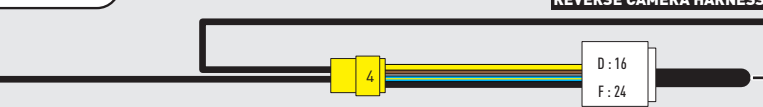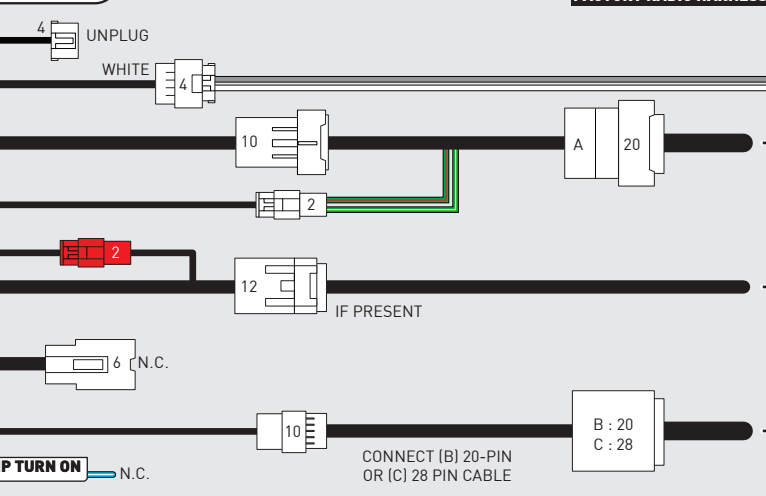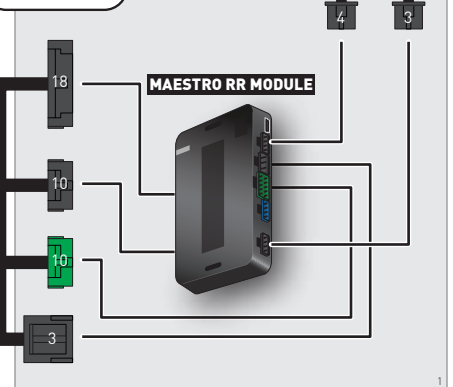
WIRING DIAGRAM *with an Amplifier*

STEP 1

WHITE - LF SPEAKER (+)
WHITE/BLACK - LF SPEAKER (-)
GRAY - RF SPEAKER (+)
GRAY/BLACK - RF SPEAKER (-)
GREEN - LR SPEAKER (+)
GREEN/BLACK - LR SPEAKER (-)
PURPLE - RR SPEAKER (+)
PURPLE/BLACK - RR SPEAKER (-)

CONNECTIONS NOT REQUIRED WITH AMP

BLUE/WHITE - AMP. TURN ON (+)
BLACK - GROUND
RED - ACCESSORY (+)
YELLOW - 12V (+)
ORANGE - ILLUMINATION (+)
PINK - VEHICLE SPEED
LTGREEN - E-BRAKE (-)
PURPLE/WHITE - REVERSE LIGHT (+) *

SEE RADIO WIRE CHART FOR RADIO WIRE COLORS

* **ONLY** CONNECT TO RADIO REVERSE INPUT OR MODULE DAMAGE WILL OCCUR

STEP 5

MAIN HARNESS

CONNECT TO AFTERMARKET RADIO

OR

IF WIRES ARE PRESENT ON ADAPTER: SEE RADIO REFERENCE CHART

IF NOT USING A MAESTRO HEAD UNIT ADAPTER: CUT AND DISCARD CONNECTOR

20

HEAD UNIT ADAPTER SOLD SEPARATELY

STEP 2

REVERSE CAMERA HARNESS

BACKUP CAM

4

D : 16
F : 24

RF OUT

LF OUT

DATA CABLE

AUDIO CABLE

STEP 3

FACTORY RADIO HARNESS

4 UNPLUG

WHITE

4

10

A 20

WIRES FROM VEHICLE

2

2

12 IF PRESENT

STEP 6

6 N.C.

10

B : 20
C : 28

CONNECT (B) 20-PIN OR (C) 28 PIN CABLE

18

MAESTRO RR MODULE

10

AMP TURN ON N.C.

10

3

STEP 4

16

OBDII CONNECTOR

3

HRR-T01 T-HARNESS

NOT REQUIRED

10

4

STEERING WHEEL CONTROL CABLE
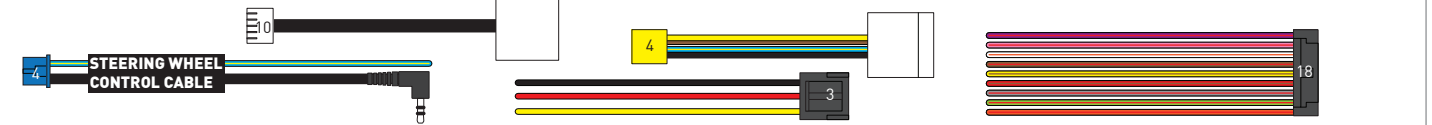
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3

18

RADIO WIRE REFERENCE CHART

TO1 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood/ JVC cable	Wire Color on Pioneer cable	Wire Color on Sony cable
Illumination	(+)	Orange	N/A	Orange/White	Orange/White	Orange
Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Head unit adapter wiring (optional accessory, sold separately)

ACC-HU-ALP1 Wire Description	Polarity	Wire Color on Adapter	Alpine Radio
VSS (vehicle speed sensor)	(DATA)	Green/White	Green/White

ACC-HU-KEN1 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
CAM	(+)	Green/Red	Refer to camera/radio manual
CAM	(-)	Green/White	Refer to camera/radio manual
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

ACC-HU-KEN2 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
E-Brake	(-)	LtGreen	LtGreen
Reverse Light*	(+)	Purple/White	Purple/White
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

* Reverse light wire: Only connect to radio or module damage will occur.

MODULE DIAGNOSTICS

PROGRAMMING BUTTON
LED 1
LED 2
LED 1

LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
● or ●		RED or GREEN flashing	LED flashes 1 or more times, either red or green, **when a steering wheel button is pressed** : normal operation.
●		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do <u>NOT</u> use DEMO MODE.
●		2 RED flashes	Problem detected. Consult troubleshooting table.
●		1 GREEN flash	After radio boots up : Normal operation.
	●	3 GREEN flashes	Bluetooth is activated. Turns off after one minute: Normal operation.
●	●	OFF	Normal operation (inactive).

VIDEO HELP		Installation, product information, vehicle specific videos.
VERIFY FLASH		Last flash information, steering control configuration, vehicle information.
WEBLINK		Software to program module.

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	Ensure OBDII connector is securely attached to the OBDII connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the **RED/BROWN** wire is on **PIN 6** and the **YELLOW/BROWN** wire is connected to **PIN 14** of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended. If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options. Reset the RR.
The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on.	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty. Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
The light on the Maestro is blinking **RED TWICE** but the radio is **NOT** turning on.	If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well. Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	Ensure the 20 or 28-pin connector is plugged to the vehicle and to the TO1 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).
(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

Turn the key to the OFF position, then disconnect all connectors from the module.
Press and hold the module's programming button and connect all the connectors back to the module. Wait, the module's LED will flash RED rapidly (this may take up to 10 seconds).
Release the programming button. Wait, the LED will turn solid GREEN for 2 seconds to show the reset was successful.

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

IMPORTANT: To ensure proper operation, the aftermarket radio needs to have the latest firmware from the manufacturer. Please visit the radio manufacturer's website and look for any updates pertaining to your radio.

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!

OR

PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro HRR-TO1 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-TOY01-DS

ADDITIONAL RESOURCES

Maestro RR2 Programmable Outputs Guide

OPTIONAL ACCESSORIES

K40
ELECTRONICS
ESCORT.

Click here for:
Radar Installation Guides

HEAD UNIT ADAPTER:
ACC-HU-PIO1, SON1, KEN1, KEN2, ALP1

NOTICE: Automotive Data Solutions Inc. (ADS) recommends having this installation performed by a certified technician. Logos and trademarks used here in are the properties of their respective owners.

WELCOME

Congratulations on the purchase of your iDatalink Maestro RR Radio replacement solution. You are now a few simple steps away from enjoying your new car radio with enhanced features.

Before starting your installation, please ensure that your iDatalink Maestro module is programmed with the correct firmware for your vehicle and that you carefully review the install guide.

Please note that Maestro RR will only retain functionalities that were originally available in the vehicle.

TABLE OF CONTENTS

NEED HELP?

📞 1 866 427-2999

✉ maestro.support@idatalink.com

INSTALLATION INSTRUCTIONS P1 /1

STEP 1

Remove the factory radio

If using head unit adapter (sold separately), connect HRR-TO1 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-TO1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-TO1 T-harness and match the wire functions.

  Note: only connect purple/white wire to radio reverse input or module damage will occur.

STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-TO1 harness to appropriate HRR adapter cable (D, E or F) then connect to the backup camera harness.

STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble TO1 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-TO1 harness.

STEP 4

- Connect HRR-TO1 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the left front and right front low level outputs RCA cables into the aftermarket radio.
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (if there is no iDatalink audio input, connect to AUX).
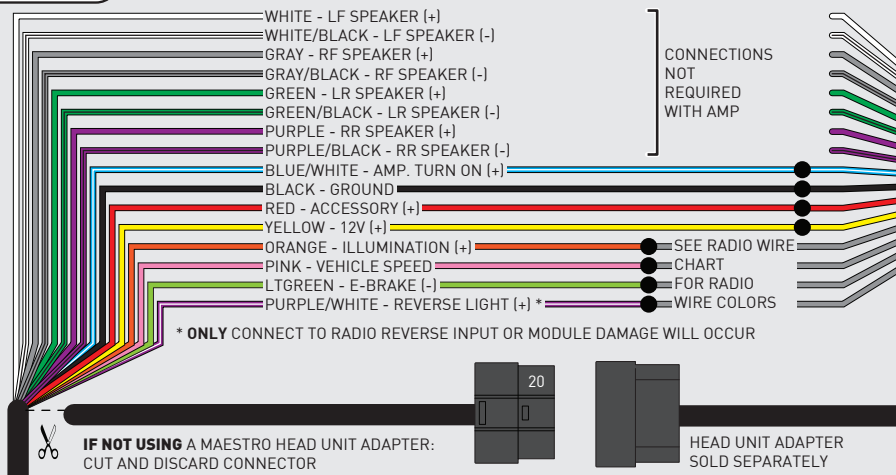
Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.
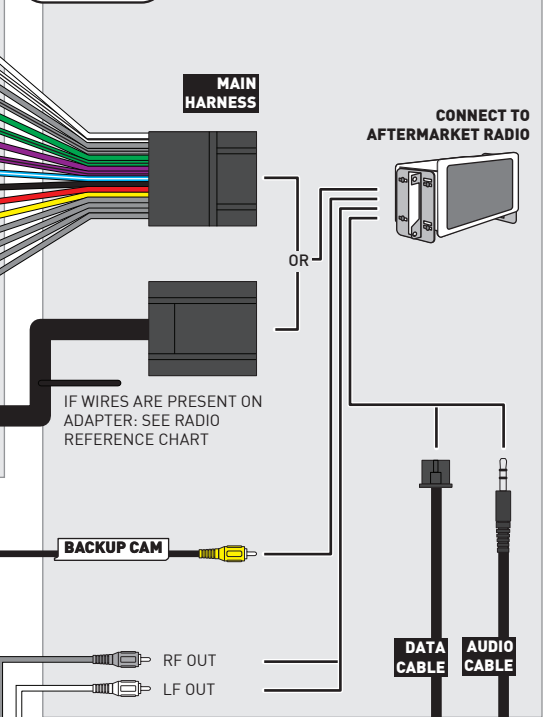
STEP 6

- Connect all the harnesses to the Maestro RR module then test your installation.
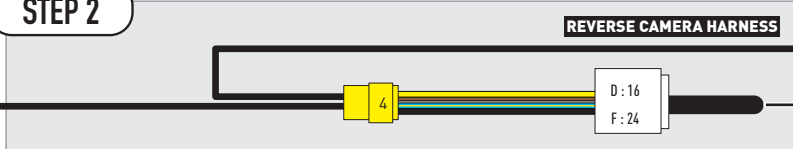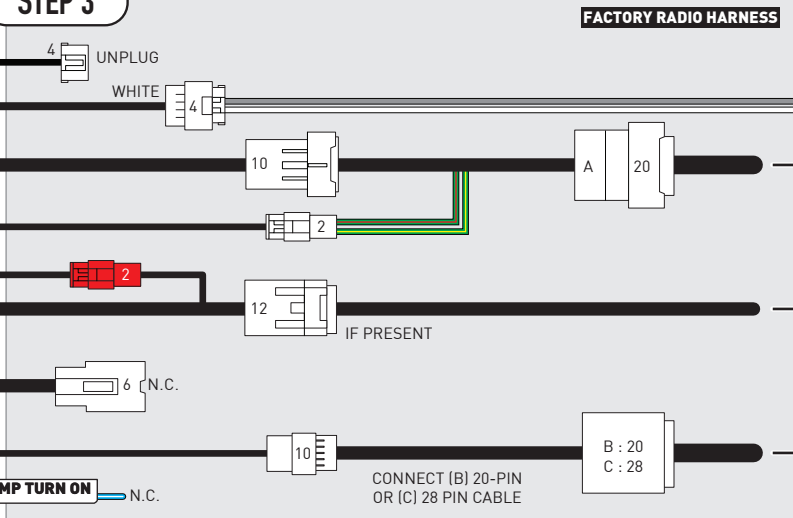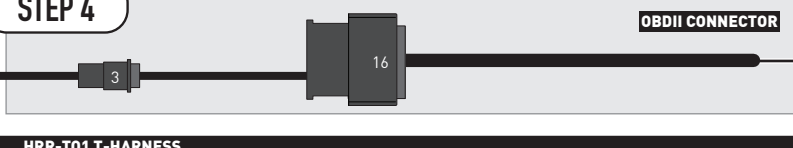
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WIRING DIAGRAM *with an Amplifier*

STEP 1

WHITE - LF SPEAKER (+)
WHITE/BLACK - LF SPEAKER (-)
GRAY - RF SPEAKER (+)
GRAY/BLACK - RF SPEAKER (-)
GREEN - LR SPEAKER (+)
GREEN/BLACK - LR SPEAKER (-)
PURPLE - RR SPEAKER (+)
PURPLE/BLACK - RR SPEAKER (-)

CONNECTIONS NOT REQUIRED WITH AMP

BLUE/WHITE - AMP. TURN ON (+)
BLACK - GROUND
RED - ACCESSORY (+)
YELLOW - 12V (+)
ORANGE - ILLUMINATION (+)
PINK - VEHICLE SPEED
LTGREEN - E-BRAKE (-)
PURPLE/WHITE - REVERSE LIGHT (+) *

SEE RADIO WIRE CHART FOR RADIO WIRE COLORS

* **ONLY** CONNECT TO RADIO REVERSE INPUT OR MODULE DAMAGE WILL OCCUR

IF NOT USING A MAESTRO HEAD UNIT ADAPTER: CUT AND DISCARD CONNECTOR

20

HEAD UNIT ADAPTER SOLD SEPARATELY

STEP 5

MAIN HARNESS

CONNECT TO AFTERMARKET RADIO

OR

IF WIRES ARE PRESENT ON ADAPTER: SEE RADIO REFERENCE CHART

STEP 2

REVERSE CAMERA HARNESS

BACKUP CAM

4   D : 16 / F : 24

RF OUT
LF OUT

DATA CABLE   AUDIO CABLE

STEP 3

FACTORY RADIO HARNESS

4   UNPLUG
WHITE   4
10
2
A   20
2
12   IF PRESENT
6   N.C.
10   B : 20 / C : 28
CONNECT (B) 20-PIN OR (C) 28 PIN CABLE
AMP TURN ON   N.C.

WIRES FROM VEHICLE

STEP 6

18
10
10
3

MAESTRO RR MODULE

4   3

STEP 4

OBDII CONNECTOR

3   16

HRR-T01 T-HARNESS

NOT REQUIRED

10
4   STEERING WHEEL CONTROL CABLE
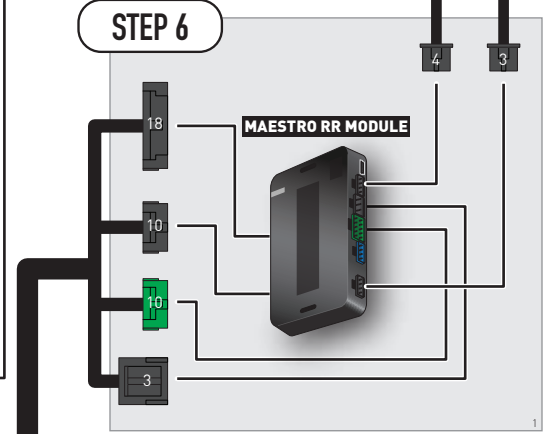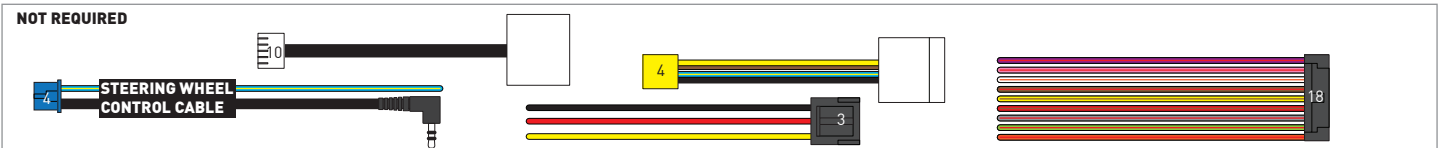4
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18

RADIO WIRE REFERENCE CHART

TO1 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood/ JVC cable	Wire Color on Pioneer cable	Wire Color on Sony cable
Illumination	(+)	Orange	N/A	Orange/White	Orange/White	Orange
Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Head unit adapter wiring (optional accessory, sold separately)

ACC-HU-ALP1 Wire Description	Polarity	Wire Color on Adapter	Alpine Radio
VSS (vehicle speed sensor)	(DATA)	Green/White	Green/White

ACC-HU-KEN1 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
CAM	(+)	Green/Red	Refer to camera/radio manual
CAM	(-)	Green/White	Refer to camera/radio manual
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

ACC-HU-KEN2 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
E-Brake	(-)	LtGreen	LtGreen
Reverse Light*	(+)	Purple/White	Purple/White
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

* Reverse light wire: Only connect to radio or module damage will occur.

MODULE DIAGNOSTICS

PROGRAMMING BUTTON

LED 1   LED 2

LED 1

LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
● or ●		RED or GREEN flashing	LED flashes 1 or more times, either red or green, **when a steering wheel button is pressed** : normal operation.
●		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do <u>NOT</u> use DEMO MODE.
●		2 RED flashes	Problem detected. Consult troubleshooting table.
●		1 GREEN flash	After radio boots up : Normal operation.
	●	3 GREEN flashes	Bluetooth is activated. Turns off after one minute: Normal operation.
●	●	OFF	Normal operation (inactive).

VIDEO HELP		Installation, product information, vehicle specific videos.
VERIFY FLASH		Last flash information, steering control configuration, vehicle information.
WEBLINK		Software to program module.

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	Ensure OBDII connector is securely attached to the OBDII connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the **RED/BROWN** wire is on **PIN 6** and the **YELLOW/BROWN** wire is connected to **PIN 14** of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended. If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options. Reset the RR.
The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on.	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty. Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
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The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	Ensure the 20 or 28-pin connector is plugged to the vehicle and to the TO1 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).
(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

Turn the key to the OFF position, then disconnect all connectors from the module.
Press and hold the module's programming button and connect all the connectors back to the module. Wait, the module's LED will flash RED rapidly (this may take up to 10 seconds).
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iDatalink Maestro HRR-TO1 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-TOY01-DS

ADDITIONAL RESOURCES

Maestro RR2 Programmable Outputs Guide

OPTIONAL ACCESSORIES

K40 ELECTRONICS

ESCORT.

Click here for:
Radar Installation Guides

HEAD UNIT ADAPTER:
ACC-HU-PIO1, SON1, KEN1, KEN2, ALP1

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STEP 1

Remove the factory radio

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- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-TO1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-TO1 T-harness and match the wire functions.

  Note: only connect purple/white wire to radio reverse input or module damage will occur.

STEP 2

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble TO1 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-TO1 harness.

STEP 3

- Connect HRR-TO1 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 4

- Plug the harnesses into the aftermarket radio.
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (if there is no iDatalink audio input, connect to AUX).
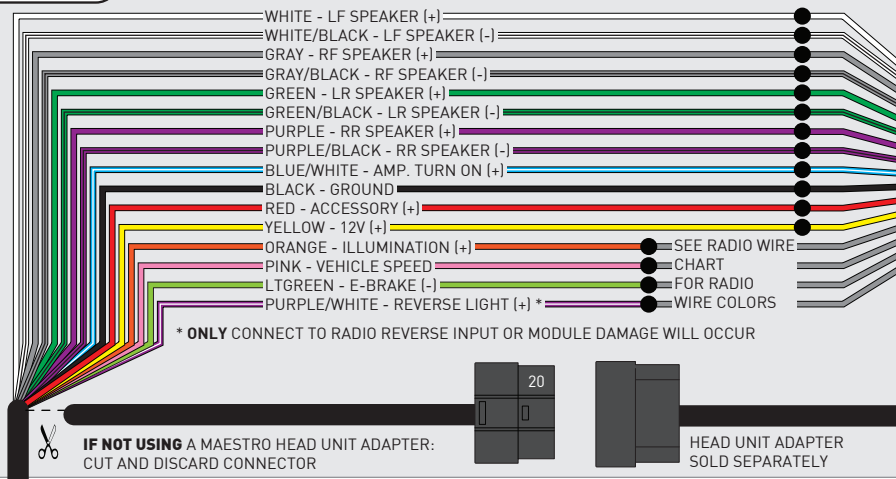
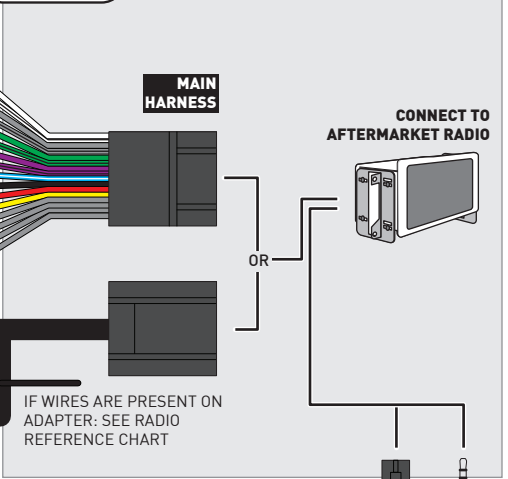 **Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

STEP 5

- Connect all the harnesses to the Maestro RR module then test your installation.
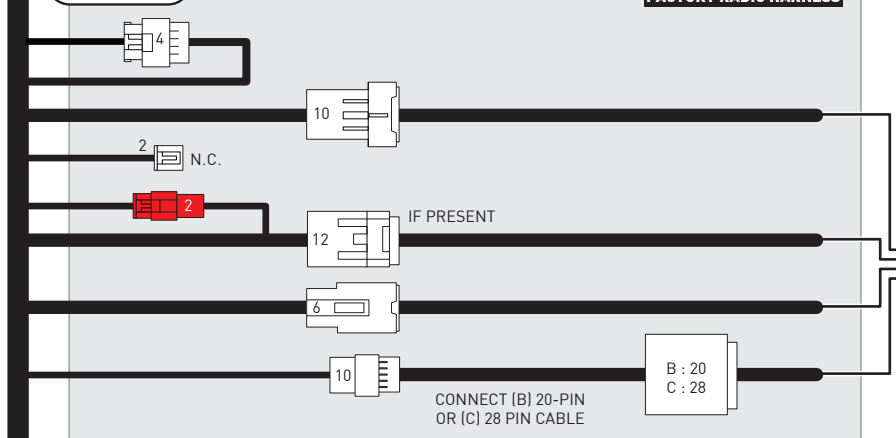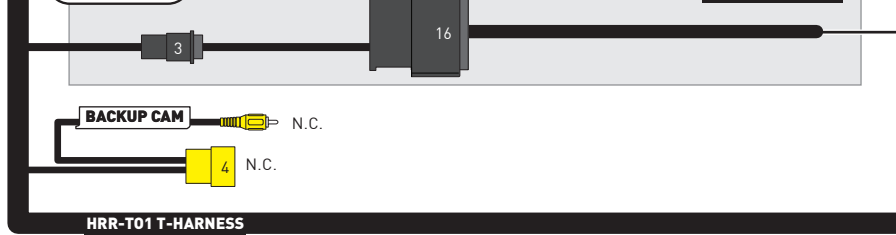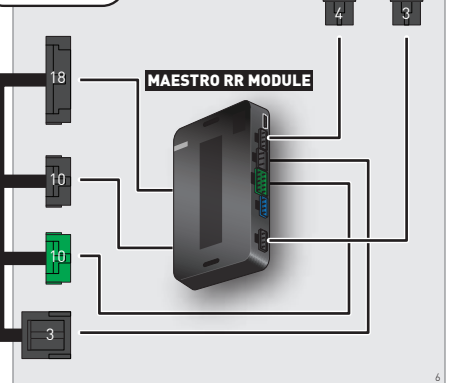
6

WIRING DIAGRAM *without an Amplifier*

STEP 1

- WHITE - LF SPEAKER (+)
- WHITE/BLACK - LF SPEAKER (-)
- GRAY - RF SPEAKER (+)
- GRAY/BLACK - RF SPEAKER (-)
- GREEN - LR SPEAKER (+)
- GREEN/BLACK - LR SPEAKER (-)
- PURPLE - RR SPEAKER (+)
- PURPLE/BLACK - RR SPEAKER (-)
- BLUE/WHITE - AMP. TURN ON (+)
- BLACK - GROUND
- RED - ACCESSORY (+)
- YELLOW - 12V (+)
- ORANGE - ILLUMINATION (+) ····· SEE RADIO WIRE
- PINK - VEHICLE SPEED ····· CHART
- LTGREEN - E-BRAKE (-) ····· FOR RADIO
- PURPLE/WHITE - REVERSE LIGHT (+) * ····· WIRE COLORS

*** ONLY** CONNECT TO RADIO REVERSE INPUT OR MODULE DAMAGE WILL OCCUR

20

IF NOT USING A MAESTRO HEAD UNIT ADAPTER:
CUT AND DISCARD CONNECTOR

HEAD UNIT ADAPTER
SOLD SEPARATELY

STEP 4

MAIN HARNESS

CONNECT TO
AFTERMARKET RADIO

OR

IF WIRES ARE PRESENT ON
ADAPTER: SEE RADIO
REFERENCE CHART

STEP 2

FACTORY RADIO HARNESS

4

10

2 N.C.

2

12   IF PRESENT

6

10   B : 20
        C : 28

CONNECT (B) 20-PIN
OR (C) 28 PIN CABLE

WIRES FROM
VEHICLE

AMP TURN ON   N.C.

STEP 3

3   16   OBDII CONNECTOR

BACKUP CAM   N.C.

4   N.C.

HRR-TO1 T-HARNESS

DATA CABLE   AUDIO CABLE

4   3

STEP 5

18

10

10

3

MAESTRO RR MODULE

6

NOT REQUIRED

0

STEERING WHEEL
CONTROL CABLE

4

4   D

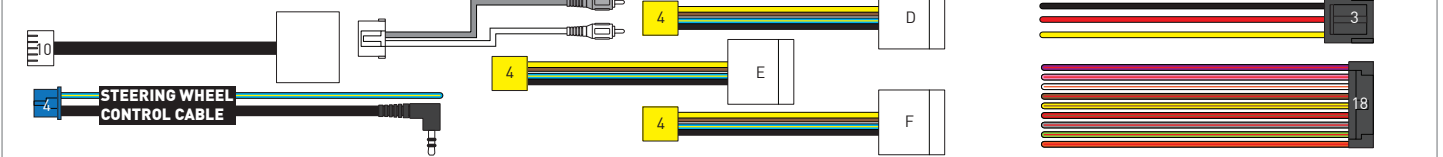4   E

4   F

3

18

RADIO WIRE REFERENCE CHART

TO1 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood/ JVC cable	Wire Color on Pioneer cable	Wire Color on Sony cable
Illumination	(+)	Orange	N/A	Orange/White	Orange/White	Orange
Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Head unit adapter wiring (optional accessory, sold separately)

ACC-HU-ALP1 Wire Description	Polarity	Wire Color on Adapter	Alpine Radio
VSS (vehicle speed sensor)	(DATA)	Green/White	Green/White

ACC-HU-KEN1 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
CAM	(+)	Green/Red	Refer to camera/radio manual
CAM	(-)	Green/White	Refer to camera/radio manual
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

ACC-HU-KEN2 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
E-Brake	(-)	LtGreen	LtGreen
Reverse Light*	(+)	Purple/White	Purple/White
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

* Reverse light wire: Only connect to radio or module damage will occur.

MODULE DIAGNOSTICS

LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
● or ●		RED or GREEN flashing	LED flashes 1 or more times, either red or green, **when a steering wheel button is pressed** : normal operation.
●		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do <u>NOT</u> use DEMO MODE.
●		2 RED flashes	Problem detected. Consult troubleshooting table.
●		1 GREEN flash	After radio boots up : Normal operation.
	●	3 GREEN flashes	Bluetooth is activated. Turns off after one minute: Normal operation.
●	●	OFF	Normal operation (inactive).

VIDEO HELP		Installation, product information, vehicle specific videos.
VERIFY FLASH		Last flash information, steering control configuration, vehicle information.
WEBLINK		Software to program module.

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	Ensure OBDII connector is securely attached to the OBDII connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the **RED/BROWN** wire is on **PIN 6** and the **YELLOW/BROWN** wire is connected to **PIN 14** of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended. If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options. Reset the RR.
The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on.	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty. Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
The light on the Maestro is blinking **RED TWICE** but the radio is **NOT** turning on.	If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well. Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	Ensure the 20 or 28-pin connector is plugged to the vehicle and to the TO1 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).
(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

Turn the key to the OFF position, then disconnect all connectors from the module.
Press and hold the module's programming button and connect all the connectors back to the module. Wait, the module's LED will flash RED rapidly (this may take up to 10 seconds).
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TECHNICAL ASSISTANCE

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Email: maestro.support@idatalink.com

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![iDatalink maestro RR logo]

INSTALL GUIDE

2013
TOYOTA HIGHLANDER
WITHOUT JBL

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!

OR

PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro HRR-TO1 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-TOY01-DS

ADDITIONAL RESOURCES

Maestro RR2 Programmable Outputs Guide

OPTIONAL ACCESSORIES

K40 ELECTRONICS
ESCORT.

Click here for:
Radar Installation Guides

HEAD UNIT ADAPTER:
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✉ maestro.support@idatalink.com

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If using head unit adapter (sold separately), connect HRR-TO1 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-TO1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-TO1 T-harness and match the wire functions.

Note: only connect purple/white wire to radio reverse input or module damage will occur.

STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-TO1 harness to appropriate HRR adapter cable (D, E or F) then connect to the backup camera harness.

STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble TO1 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-TO1 harness.

STEP 4

- Connect HRR-TO1 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (if there is no iDatalink audio input, connect to AUX).
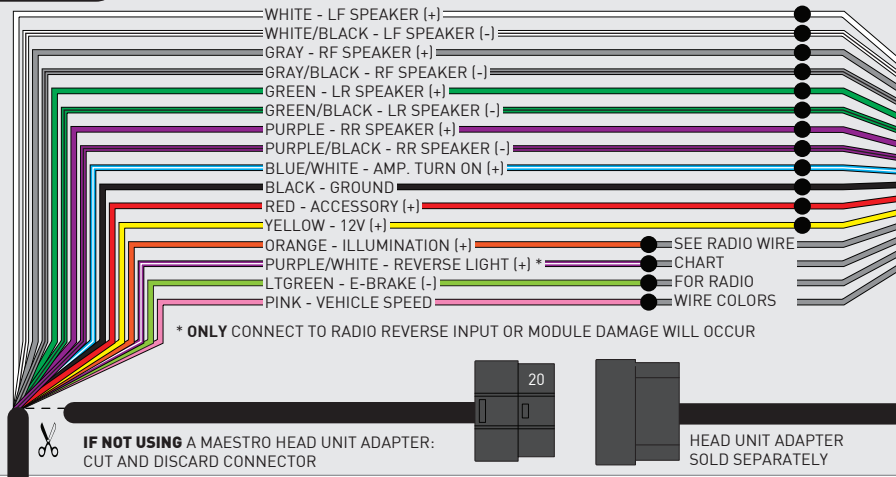
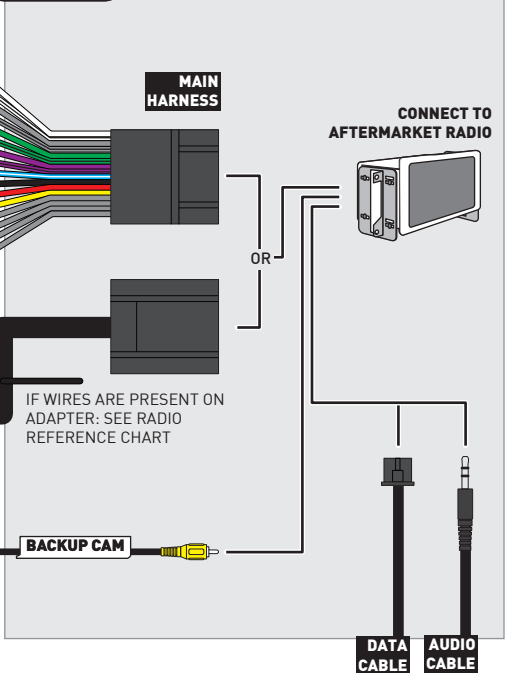**Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

STEP 6

- Connect all the harnesses to the Maestro RR module then test your installation.
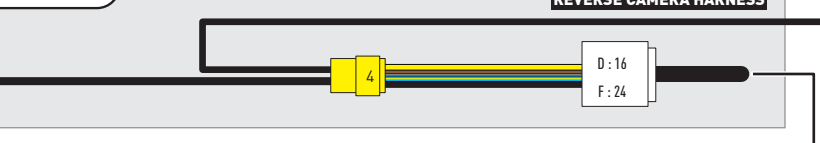
maestro Ar

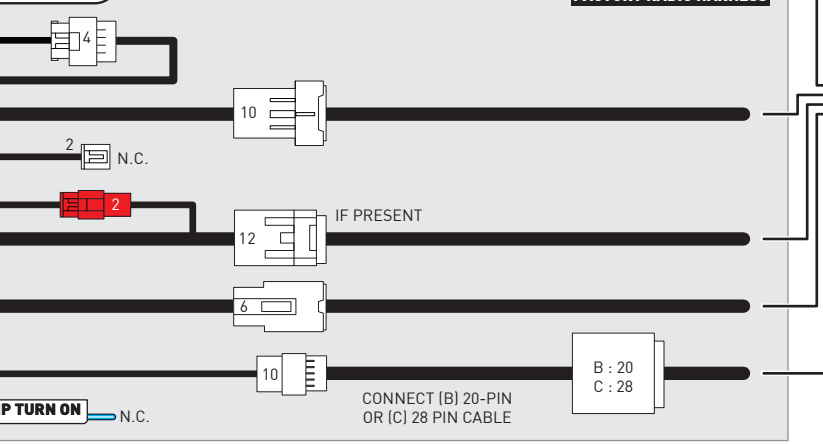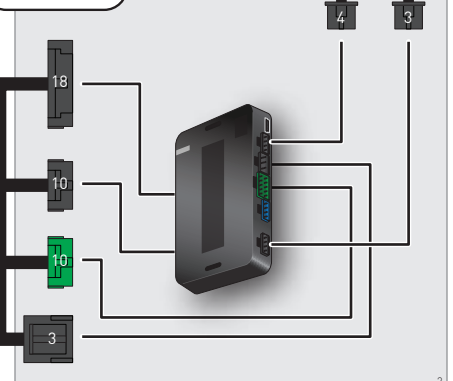# WIRING DIAGRAM *without an Amplifier*

STEP 1

WHITE - LF SPEAKER (+)
WHITE/BLACK - LF SPEAKER (-)
GRAY - RF SPEAKER (+)
GRAY/BLACK - RF SPEAKER (-)
GREEN - LR SPEAKER (+)
GREEN/BLACK - LR SPEAKER (-)
PURPLE - RR SPEAKER (+)
PURPLE/BLACK - RR SPEAKER (-)
BLUE/WHITE - AMP. TURN ON (+)
BLACK - GROUND
RED - ACCESSORY (+)
YELLOW - 12V (+)
ORANGE - ILLUMINATION (+)   SEE RADIO WIRE
PURPLE/WHITE - REVERSE LIGHT (+) * CHART
LTGREEN - E-BRAKE (-)   FOR RADIO
PINK - VEHICLE SPEED   WIRE COLORS

* **ONLY** CONNECT TO RADIO REVERSE INPUT OR MODULE DAMAGE WILL OCCUR

20

✂ **IF NOT USING** A MAESTRO HEAD UNIT ADAPTER:
CUT AND DISCARD CONNECTOR

HEAD UNIT ADAPTER
SOLD SEPARATELY

STEP 5

MAIN HARNESS

CONNECT TO AFTERMARKET RADIO

OR

IF WIRES ARE PRESENT ON
ADAPTER: SEE RADIO
REFERENCE CHART

STEP 2

REVERSE CAMERA HARNESS

BACKUP CAM

4

D : 16
F : 24

DATA CABLE   **AUDIO CABLE**

STEP 3

FACTORY RADIO HARNESS

4

10

2 N.C.

2

12 IF PRESENT

6

10   B : 20
C : 28

WIRES FROM VEHICLE

CONNECT (B) 20-PIN
OR (C) 28 PIN CABLE

AMP TURN ON N.C.

STEP 6

4   **3**

18

10

10

3

STEP 4

OBDII CONNECTOR

3   **16**

HRR-T01 T-HARNESS

NOT REQUIRED

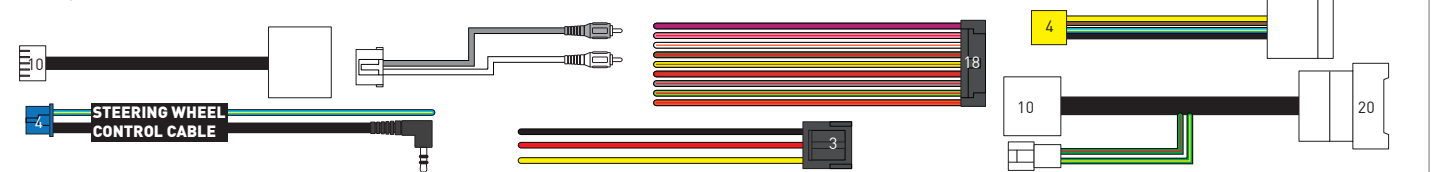10

STEERING WHEEL CONTROL CABLE   **4**

4

18

4

10

20

3

RADIO WIRE REFERENCE CHART

TO1 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood/ JVC cable	Wire Color on Pioneer cable	Wire Color on Sony cable
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E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Head unit adapter wiring (optional accessory, sold separately)

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Reverse Light*	(+)	Purple/White	Purple/White
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

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MODULE DIAGNOSTICS

PROGRAMMING BUTTON

LED 1

LED 2

LED 1

LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
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Note: only connect purple/white wire to radio reverse input or module damage will occur.

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- Assemble TO1 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-TO1 harness.

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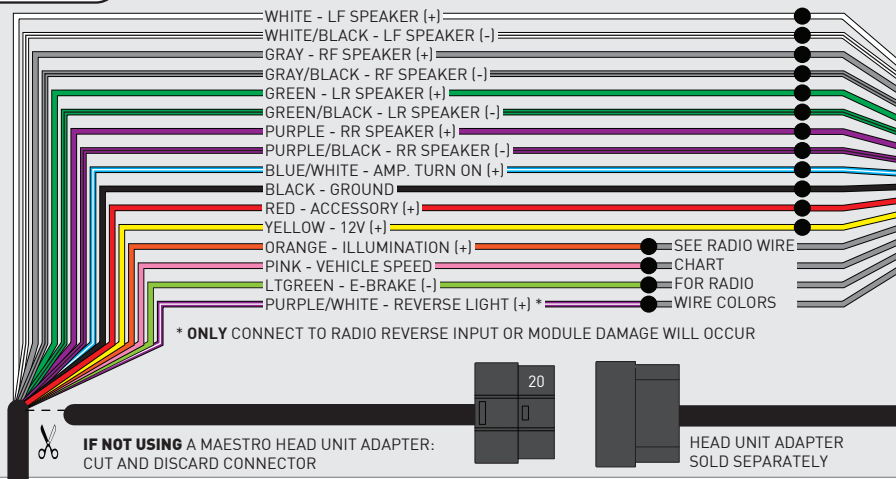
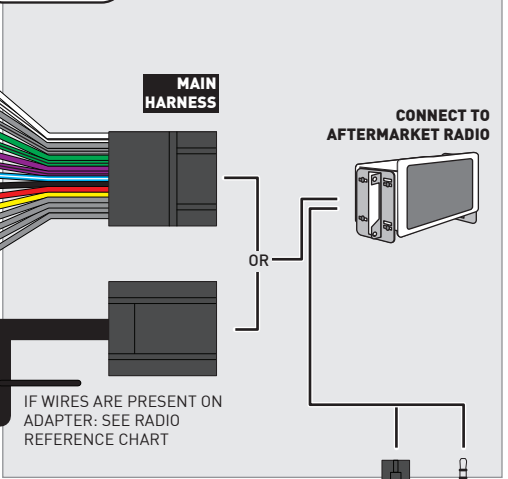**Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

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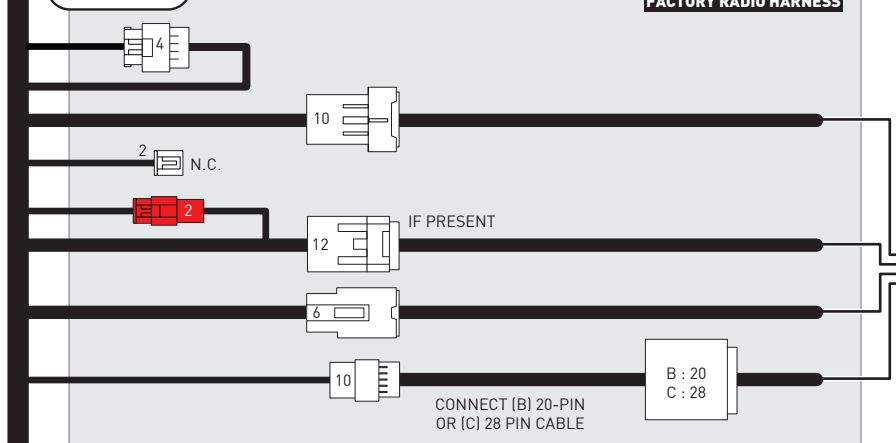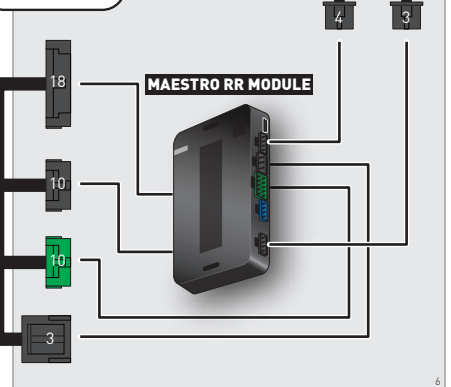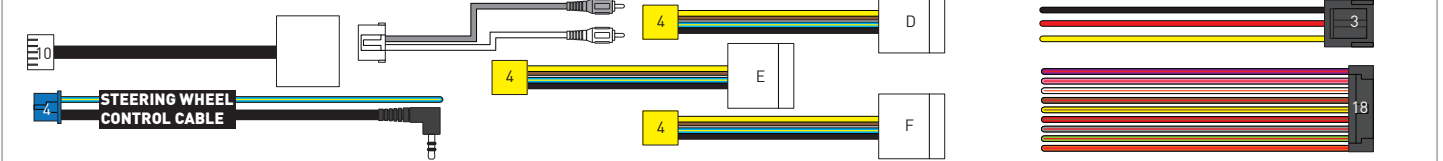
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WIRING DIAGRAM *without an Amplifier*

STEP 1

WHITE - LF SPEAKER (+)
WHITE/BLACK - LF SPEAKER (-)
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PINK - VEHICLE SPEED — CHART
LTGREEN - E-BRAKE (-) — FOR RADIO
PURPLE/WHITE - REVERSE LIGHT (+) * — WIRE COLORS

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20

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SOLD SEPARATELY

STEP 4

MAIN HARNESS

CONNECT TO AFTERMARKET RADIO

OR

IF WIRES ARE PRESENT ON
ADAPTER: SEE RADIO
REFERENCE CHART

STEP 2

FACTORY RADIO HARNESS

4

10

2 N.C.

2

12 IF PRESENT

6

10 CONNECT (B) 20-PIN
OR (C) 28 PIN CABLE

B : 20
C : 28

WIRES FROM VEHICLE

AMP TURN ON N.C.

STEP 3

3

16

OBDII CONNECTOR

BACKUP CAM N.C.

4 N.C.

HRR-TO1 T-HARNESS

DATA CABLE **AUDIO CABLE**

4 **3**

STEP 5

18

10

10

3

MAESTRO RR MODULE

6

NOT REQUIRED

0

4 **STEERING WHEEL CONTROL CABLE**

4 D

4 E

4 F

3

18

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2009-2012
TOYOTA MATRIX
WITH JBL

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Please note that Maestro RR will only retain functionalities that were originally available in the vehicle.

TABLE OF CONTENTS

NEED HELP?

📞 1 866 427-2999

✉ maestro.support@idatalink.com

INSTALLATION INSTRUCTIONS P1 /1

STEP 1

Remove the factory radio

If using head unit adapter (sold separately), connect HRR-TO1 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-TO1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-TO1 T-harness and match the wire functions.

Note: only connect purple/white wire to radio reverse input or module damage will occur.

STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-TO1 harness to appropriate HRR adapter cable (D, E or F) then connect to the backup camera harness.

STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble TO1 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-TO1 harness.

STEP 4

- Connect HRR-TO1 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the left front and right front low level outputs RCA cables into the aftermarket radio.
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (if there is no iDatalink audio input, connect to AUX).
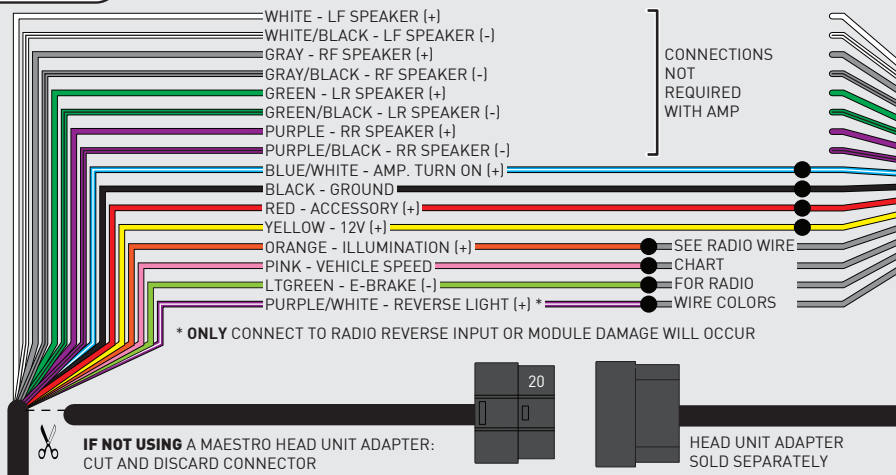
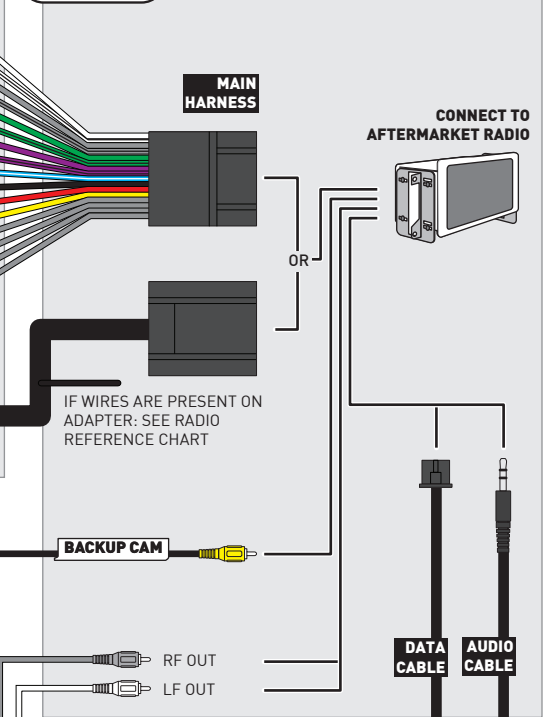Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.

STEP 6

- Connect all the harnesses to the Maestro RR module then test your installation.
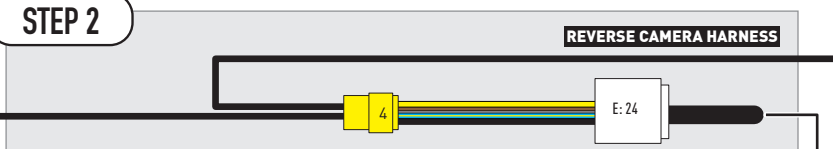
1

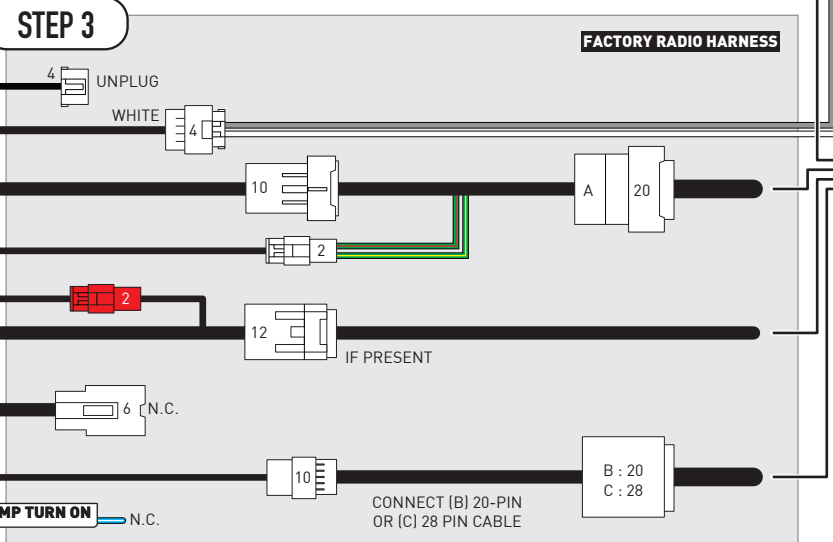# WIRING DIAGRAM *with an Amplifier*

STEP 1

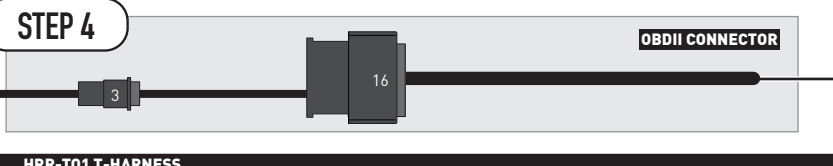WHITE - LF SPEAKER (+)
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PURPLE/BLACK - RR SPEAKER (-)
BLUE/WHITE - AMP. TURN ON (+)
BLACK - GROUND
RED - ACCESSORY (+)
YELLOW - 12V (+)
ORANGE - ILLUMINATION (+)
PINK - VEHICLE SPEED
LTGREEN - E-BRAKE (-)
PURPLE/WHITE - REVERSE LIGHT (+) *

CONNECTIONS NOT REQUIRED WITH AMP

SEE RADIO WIRE CHART FOR RADIO WIRE COLORS

* **ONLY** CONNECT TO RADIO REVERSE INPUT OR MODULE DAMAGE WILL OCCUR

MAIN HARNESS

CONNECT TO AFTERMARKET RADIO

OR

IF WIRES ARE PRESENT ON ADAPTER: SEE RADIO REFERENCE CHART

20

IF NOT USING A MAESTRO HEAD UNIT ADAPTER: CUT AND DISCARD CONNECTOR

HEAD UNIT ADAPTER SOLD SEPARATELY

STEP 5

STEP 2

REVERSE CAMERA HARNESS

BACKUP CAM

4   E: 24

RF OUT
LF OUT

DATA CABLE   **AUDIO CABLE**

STEP 3

FACTORY RADIO HARNESS

4   UNPLUG

WHITE   4

10

2

WIRES FROM VEHICLE

A   20

2

12   IF PRESENT

6   N.C.

10   B : 20 C : 28

CONNECT (B) 20-PIN OR (C) 28 PIN CABLE

AMP TURN ON   N.C.

STEP 6

4   3

18

10

MAESTRO RR MODULE

10

3

STEP 4

OBDII CONNECTOR

3   16

HRR-T01 T-HARNESS

NOT REQUIRED

10

STEERING WHEEL CONTROL CABLE
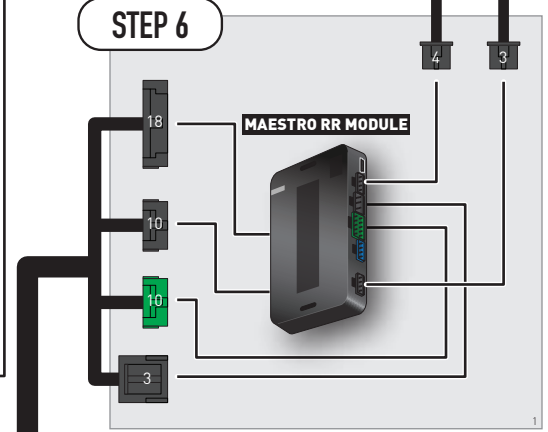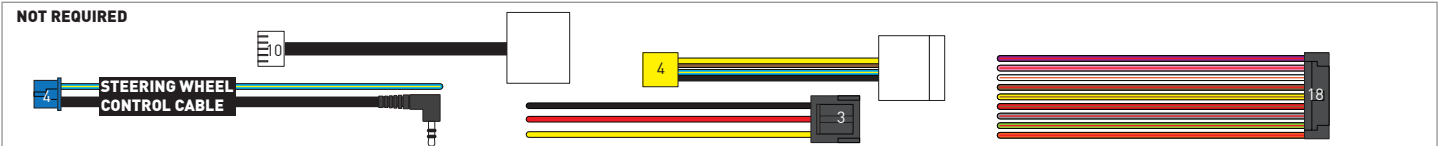
4

4

3

18

RADIO WIRE REFERENCE CHART

TO1 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood/ JVC cable	Wire Color on Pioneer cable	Wire Color on Sony cable
Illumination	(+)	Orange	N/A	Orange/White	Orange/White	Orange
Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Head unit adapter wiring (optional accessory, sold separately)

ACC-HU-ALP1 Wire Description	Polarity	Wire Color on Adapter	Alpine Radio
VSS (vehicle speed sensor)	(DATA)	Green/White	Green/White

ACC-HU-KEN1 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
CAM	(+)	Green/Red	Refer to camera/radio manual
CAM	(-)	Green/White	Refer to camera/radio manual
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

ACC-HU-KEN2 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
E-Brake	(-)	LtGreen	LtGreen
Reverse Light*	(+)	Purple/White	Purple/White
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

* Reverse light wire: Only connect to radio or module damage will occur.

MODULE DIAGNOSTICS

PROGRAMMING BUTTON

LED 1 · LED 2 · LED 1

LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
● or ●		RED or GREEN flashing	LED flashes 1 or more times, either red or green, **when a steering wheel button is pressed** : normal operation.
●		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do <u>NOT</u> use DEMO MODE.
●		2 RED flashes	Problem detected. Consult troubleshooting table.
●		1 GREEN flash	After radio boots up : Normal operation.
	●	3 GREEN flashes	Bluetooth is activated. Turns off after one minute: Normal operation.
●	●	OFF	Normal operation (inactive).

VIDEO HELP		Installation, product information, vehicle specific videos.
VERIFY FLASH		Last flash information, steering control configuration, vehicle information.
WEBLINK		Software to program module.

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	Ensure OBDII connector is securely attached to the OBDII connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the **RED/BROWN** wire is on **PIN 6** and the **YELLOW/BROWN** wire is connected to **PIN 14** of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended. If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options. Reset the RR.
The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on.	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty. Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
The light on the Maestro is blinking **RED TWICE** but the radio is **NOT** turning on.	If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well. Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	Ensure the 20 or 28-pin connector is plugged to the vehicle and to the TO1 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).
(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

Turn the key to the OFF position, then disconnect all connectors from the module.
Press and hold the module's programming button and connect all the connectors back to the module. Wait, the module's LED will flash RED rapidly (this may take up to 10 seconds).
Release the programming button. Wait, the LED will turn solid GREEN for 2 seconds to show the reset was successful.

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

IMPORTANT: To ensure proper operation, the aftermarket radio needs to have the latest firmware from the manufacturer. Please visit the radio manufacturer's website and look for any updates pertaining to your radio.

iDatalink **maestro** **Rr**

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!

OR

PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro HRR-TO1 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-TOY01-DS

ADDITIONAL RESOURCES

Maestro RR2 Programmable Outputs Guide

OPTIONAL ACCESSORIES

K40 ELECTRONICS
ESCORT.

Click here for:
Radar Installation Guides

HEAD UNIT ADAPTER:
ACC-HU-PIO1, SON1, KEN1, KEN2, ALP1

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    Note: only connect purple/white wire to radio reverse input or module damage will occur.

STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-TO1 harness to appropriate HRR adapter cable (D, E or F) then connect to the backup camera harness.

STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble TO1 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-TO1 harness.

STEP 4

- Connect HRR-TO1 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (if there is no iDatalink audio input, connect to AUX).
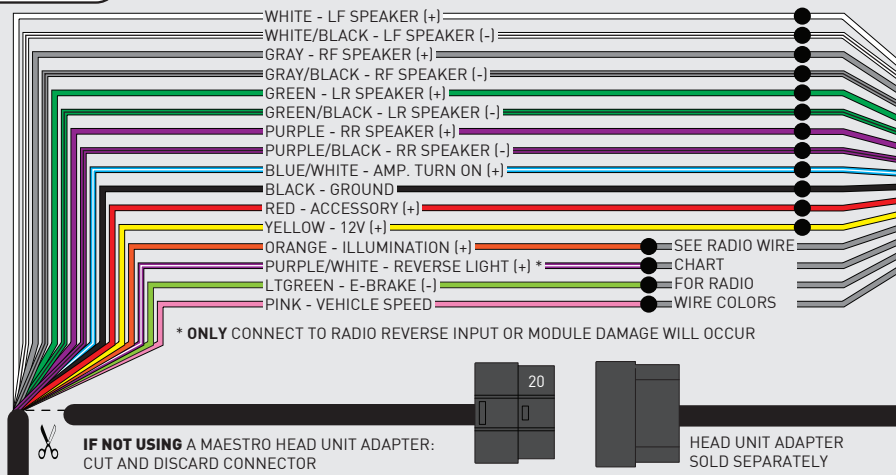
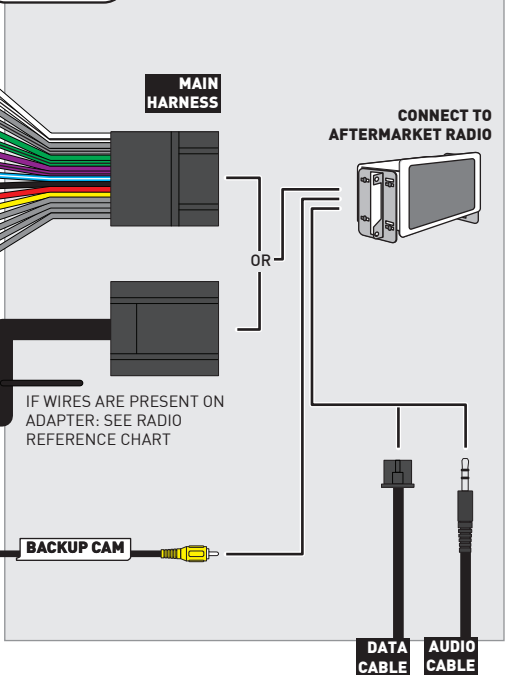   **Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

STEP 6

- Connect all the harnesses to the Maestro RR module then test your installation.

2

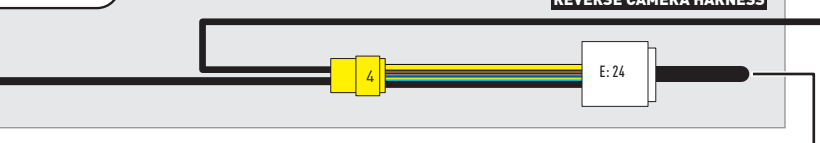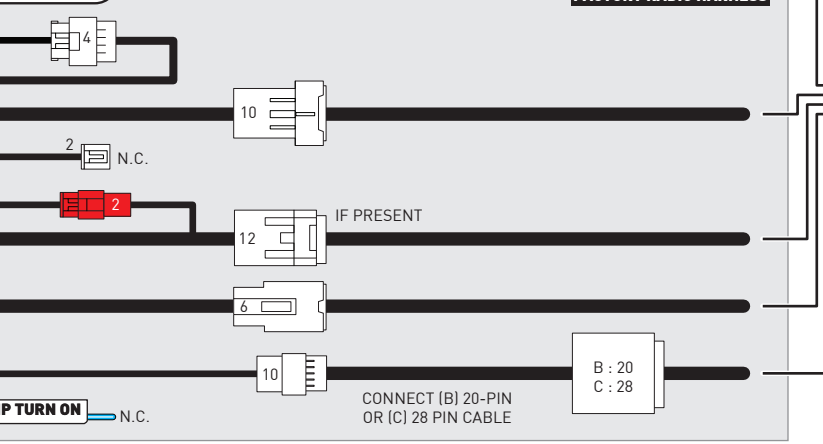# WIRING DIAGRAM *without an Amplifier*

STEP 1

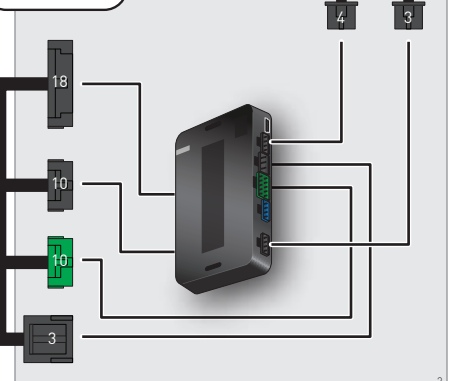WHITE - LF SPEAKER (+)
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PURPLE/BLACK - RR SPEAKER (-)
BLUE/WHITE - AMP. TURN ON (+)
BLACK - GROUND
RED - ACCESSORY (+)
YELLOW - 12V (+)
ORANGE - ILLUMINATION (+)   SEE RADIO WIRE
PURPLE/WHITE - REVERSE LIGHT (+) * CHART
LTGREEN - E-BRAKE (-)   FOR RADIO
PINK - VEHICLE SPEED   WIRE COLORS

* ONLY CONNECT TO RADIO REVERSE INPUT OR MODULE DAMAGE WILL OCCUR

20

IF NOT USING A MAESTRO HEAD UNIT ADAPTER:
CUT AND DISCARD CONNECTOR

HEAD UNIT ADAPTER
SOLD SEPARATELY

STEP 5

MAIN HARNESS

CONNECT TO AFTERMARKET RADIO

OR

IF WIRES ARE PRESENT ON
ADAPTER: SEE RADIO
REFERENCE CHART

STEP 2

REVERSE CAMERA HARNESS

BACKUP CAM

4

E: 24

DATA CABLE   **AUDIO CABLE**

STEP 3

FACTORY RADIO HARNESS

4

10

2   N.C.

2

WIRES FROM VEHICLE

12   IF PRESENT

6

10   B : 20
          C : 28

CONNECT (B) 20-PIN
OR (C) 28 PIN CABLE

AMP TURN ON   N.C.

STEP 6

4   3

18

10

10

3

STEP 4

3   16   **OBDII CONNECTOR**

HRR-TO1 T-HARNESS

2

NOT REQUIRED

10

4   **STEERING WHEEL CONTROL CABLE**

18

4

10   3   20

RADIO WIRE REFERENCE CHART

TO1 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood/ JVC cable	Wire Color on Pioneer cable	Wire Color on Sony cable
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VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Head unit adapter wiring (optional accessory, sold separately)

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CAM	(+)	Green/Red	Refer to camera/radio manual
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ACC-HU-KEN2 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
E-Brake	(-)	LtGreen	LtGreen
Reverse Light*	(+)	Purple/White	Purple/White
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

* Reverse light wire: Only connect to radio or module damage will occur.

MODULE DIAGNOSTICS

LED 1

LED 2

LED 1

LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
● or ●		RED or GREEN flashing	LED flashes 1 or more times, either red or green, **when a steering wheel button is pressed** : normal operation.
●		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do <u>NOT</u> use DEMO MODE.
●		2 RED flashes	Problem detected. Consult troubleshooting table.
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	●	3 GREEN flashes	Bluetooth is activated. Turns off after one minute: Normal operation.
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VIDEO HELP		Installation, product information, vehicle specific videos.
VERIFY FLASH		Last flash information, steering control configuration, vehicle information.
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PROBLEM	SOLUTION
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The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	Ensure the 20 or 28-pin connector is plugged to the vehicle and to the TO1 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).
(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

Turn the key to the OFF position, then disconnect all connectors from the module.
Press and hold the module's programming button and connect all the connectors back to the module. Wait, the module's LED will flash RED rapidly (this may take up to 10 seconds).
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INSTALL GUIDE

2012-2015
TOYOTA PRIUS
BASE

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!

OR

PRODUCTS REQUIRED

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iDatalink Maestro HRR-TO1 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-TOY01-DS

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Maestro RR2 Programmable Outputs Guide

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Note: only connect purple/white wire to radio reverse input or module damage will occur.

STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-TO1 harness to HRR adapter cable **D**, then connect to the backup camera harness.

STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble TO1 T-harness as shown on wiring diagram. Unplug 2-pin red connectors.
- Connect the factory harness to the HRR-TO1 harness.

STEP 4

- Connect HRR-TO1 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
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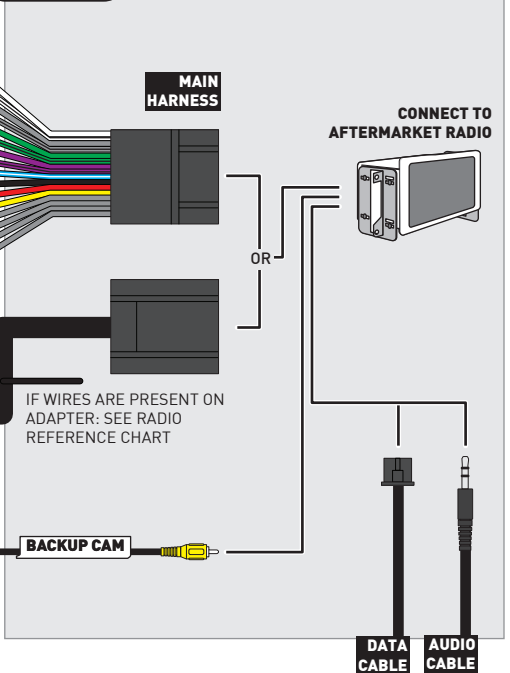**Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

STEP 6

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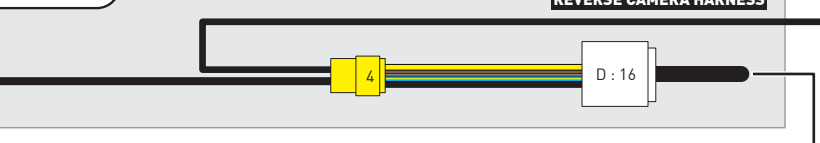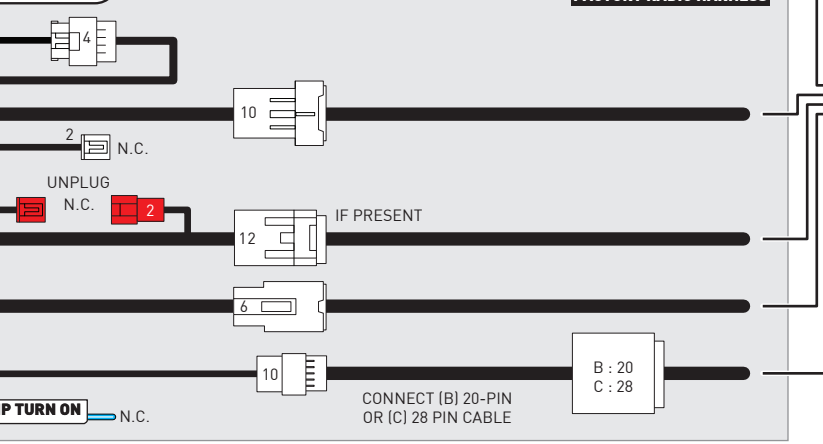
8

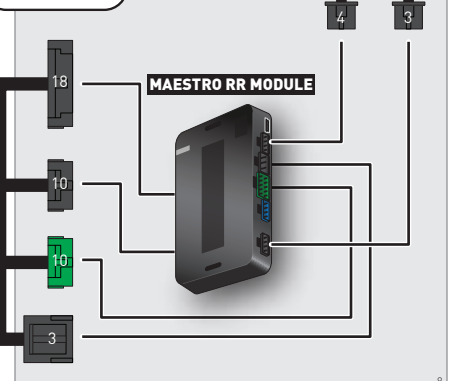# WIRING DIAGRAM *without an Amplifier*

STEP 1

WHITE - LF SPEAKER (+)
WHITE/BLACK - LF SPEAKER (-)
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GRAY/BLACK - RF SPEAKER (-)
GREEN - LR SPEAKER (+)
GREEN/BLACK - LR SPEAKER (-)
PURPLE - RR SPEAKER (+)
PURPLE/BLACK - RR SPEAKER (-)
BLUE/WHITE - AMP. TURN ON (+)
BLACK - GROUND
RED - ACCESSORY (+)
YELLOW - 12V (+)
ORANGE - ILLUMINATION (+)   SEE RADIO WIRE
PURPLE/WHITE - REVERSE LIGHT (+) *   CHART
LTGREEN - E-BRAKE (-)   FOR RADIO
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OR

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STEP 5

STEP 2

REVERSE CAMERA HARNESS

BACKUP CAM

4

D : 16

DATA CABLE   **AUDIO CABLE**

STEP 3

FACTORY RADIO HARNESS

4

10

2   N.C.

UNPLUG
N.C.   2

12   IF PRESENT

6

10   B : 20
C : 28

CONNECT (B) 20-PIN
OR (C) 28 PIN CABLE

AMP TURN ON   N.C.

WIRES FROM VEHICLE

STEP 6

4   3

18

MAESTRO RR MODULE

10

10

STEP 4

3   16   **OBDII CONNECTOR**

3

HRR-TO1 T-HARNESS

8

NOT REQUIRED

10

4   **STEERING WHEEL CONTROL CABLE**

18

3

4

10   20

RADIO WIRE REFERENCE CHART

TO1 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood/ JVC cable	Wire Color on Pioneer cable	Wire Color on Sony cable
Illumination	(+)	Orange	N/A	Orange/White	Orange/White	Orange
Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Head unit adapter wiring (optional accessory, sold separately)

ACC-HU-ALP1 Wire Description	Polarity	Wire Color on Adapter	Alpine Radio
VSS (vehicle speed sensor)	(DATA)	Green/White	Green/White

ACC-HU-KEN1 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
CAM	(+)	Green/Red	Refer to camera/radio manual
CAM	(-)	Green/White	Refer to camera/radio manual
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

ACC-HU-KEN2 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
E-Brake	(-)	LtGreen	LtGreen
Reverse Light*	(+)	Purple/White	Purple/White
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

* Reverse light wire: Only connect to radio or module damage will occur.

MODULE DIAGNOSTICS

PROGRAMMING BUTTON — LED 1 / LED 2 / LED 1

LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
● or ●		RED or GREEN flashing	LED flashes 1 or more times, either red or green, **when a steering wheel button is pressed** : normal operation.
●		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do <u>NOT</u> use DEMO MODE.
●		2 RED flashes	Problem detected. Consult troubleshooting table.
●		1 GREEN flash	After radio boots up : Normal operation.
	●	3 GREEN flashes	Bluetooth is activated. Turns off after one minute: Normal operation.
●	●	OFF	Normal operation (inactive).

VIDEO HELP		Installation, product information, vehicle specific videos.
VERIFY FLASH		Last flash information, steering control configuration, vehicle information.
WEBLINK		Software to program module.

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	Ensure OBDII connector is securely attached to the OBDII connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the **RED/BROWN** wire is on **PIN 6** and the **YELLOW/BROWN** wire is connected to **PIN 14** of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended. If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options. Reset the RR.
The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on.	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty. Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
The light on the Maestro is blinking **RED TWICE** but the radio is **NOT** turning on.	If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well. Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	Ensure the 20 or 28-pin connector is plugged to the vehicle and to the TO1 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).
(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

Turn the key to the OFF position, then disconnect all connectors from the module.
Press and hold the module's programming button and connect all the connectors back to the module. Wait, the module's LED will flash RED rapidly (this may take up to 10 seconds).
Release the programming button. Wait, the LED will turn solid GREEN for 2 seconds to show the reset was successful.

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

IMPORTANT: To ensure proper operation, the aftermarket radio needs to have the latest firmware from the manufacturer. Please visit the radio manufacturer's website and look for any updates pertaining to your radio.

INSTALL GUIDE

2010-2011
TOYOTA PRIUS
WITH JBL

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!

OR

PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro HRR-TO1 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-TOY01-DS

ADDITIONAL RESOURCES

Maestro RR2 Programmable Outputs Guide

OPTIONAL ACCESSORIES

Click here for:
Radar Installation Guides

HEAD UNIT ADAPTER:
ACC-HU-PIO1, SON1, KEN1, KEN2, ALP1

NOTICE: Automotive Data Solutions Inc. (ADS) recommends having this installation performed by a certified technician. Logos and trademarks used here in are the properties of their respective owners.

WELCOME

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TABLE OF CONTENTS

NEED HELP?

📞 1 866 427-2999

✉ maestro.support@idatalink.com

INSTALLATION INSTRUCTIONS P1 /1

STEP 1

Remove the factory radio

If using head unit adapter (sold separately), connect HRR-TO1 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-TO1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-TO1 T-harness and match the wire functions.

  Note: only connect purple/white wire to radio reverse input or module damage will occur.

STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-TO1 harness to HRR adapter cable **D**, then connect to the backup camera harness.

STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble TO1 T-harness as shown on wiring diagram. Unplug 2-pin red connectors.
- Connect the factory harness to the HRR-TO1 harness.

STEP 4

- Connect HRR-TO1 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the left front and right front low level outputs RCA cables into the aftermarket radio.
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (if there is no iDatalink audio input, connect to AUX).

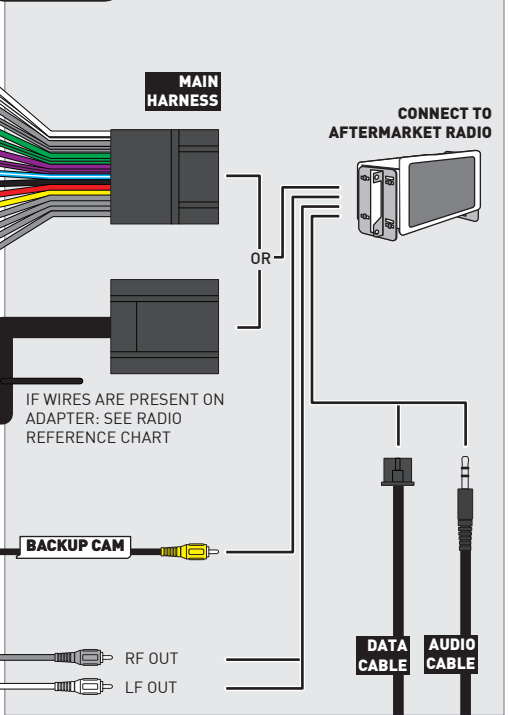**Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

STEP 6

- Connect all the harnesses to the Maestro RR module then test your installation.
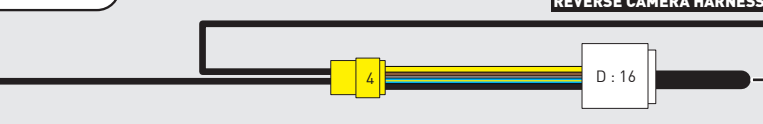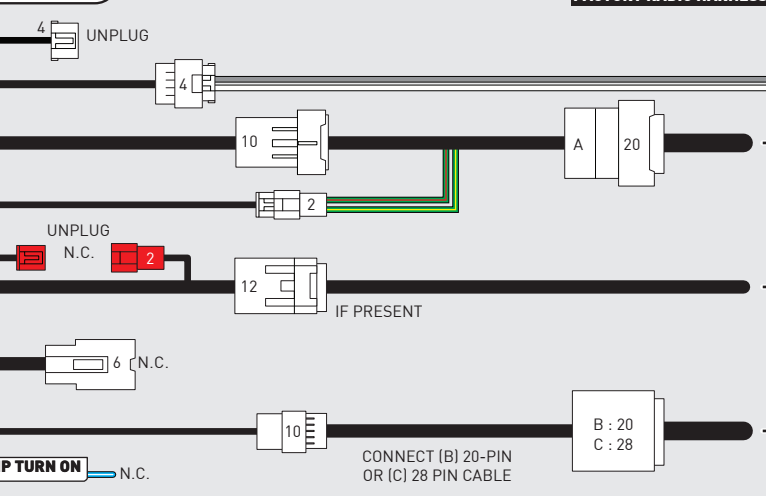
9

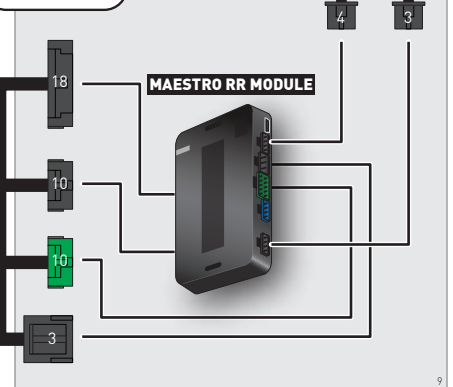# WIRING DIAGRAM *with an Amplifier*

STEP 1

WHITE - LF SPEAKER (+)
WHITE/BLACK - LF SPEAKER (-)
GRAY - RF SPEAKER (+)
GRAY/BLACK - RF SPEAKER (-)
GREEN - LR SPEAKER (+)
GREEN/BLACK - LR SPEAKER (-)
PURPLE - RR SPEAKER (+)
PURPLE/BLACK - RR SPEAKER (-)

CONNECTIONS
NOT
REQUIRED
WITH AMP

BLUE/WHITE - AMP. TURN ON (+)
BLACK - GROUND
RED - ACCESSORY (+)
YELLOW - 12V (+)
ORANGE - ILLUMINATION (+)
PINK - VEHICLE SPEED
LTGREEN - E-BRAKE (-)
PURPLE/WHITE - REVERSE LIGHT (+) *

SEE RADIO WIRE
CHART
FOR RADIO
WIRE COLORS

* **ONLY** CONNECT TO RADIO REVERSE INPUT OR MODULE DAMAGE WILL OCCUR

20

IF NOT USING A MAESTRO HEAD UNIT ADAPTER:
CUT AND DISCARD CONNECTOR

HEAD UNIT ADAPTER
SOLD SEPARATELY

STEP 5

MAIN
HARNESS

CONNECT TO
AFTERMARKET RADIO

OR

IF WIRES ARE PRESENT ON
ADAPTER: SEE RADIO
REFERENCE CHART

DATA
CABLE

AUDIO
CABLE

STEP 2

REVERSE CAMERA HARNESS

4

D : 16

BACKUP CAM

RF OUT
LF OUT

STEP 3

4   UNPLUG

4

10

2

UNPLUG
N.C.   2

12   IF PRESENT

6   N.C.

10

B : 20
C : 28

CONNECT (B) 20-PIN
OR (C) 28 PIN CABLE

AMP TURN ON   N.C.

FACTORY RADIO HARNESS

A   20

WIRES FROM
VEHICLE

STEP 6

18

10

10

3

MAESTRO RR MODULE

STEP 4

3

16

OBDII CONNECTOR

4   3

HRR-T01 T-HARNESS

NOT REQUIRED

10

4

18

STEERING WHEEL
CONTROL CABLE

3

RADIO WIRE REFERENCE CHART

TO1 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood/ JVC cable	Wire Color on Pioneer cable	Wire Color on Sony cable
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Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Head unit adapter wiring (optional accessory, sold separately)

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Reverse Light*	(+)	Purple/White	Purple/White
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

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MODULE DIAGNOSTICS

PROGRAMMING BUTTON

LED 1

LED 2

LED 1

LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
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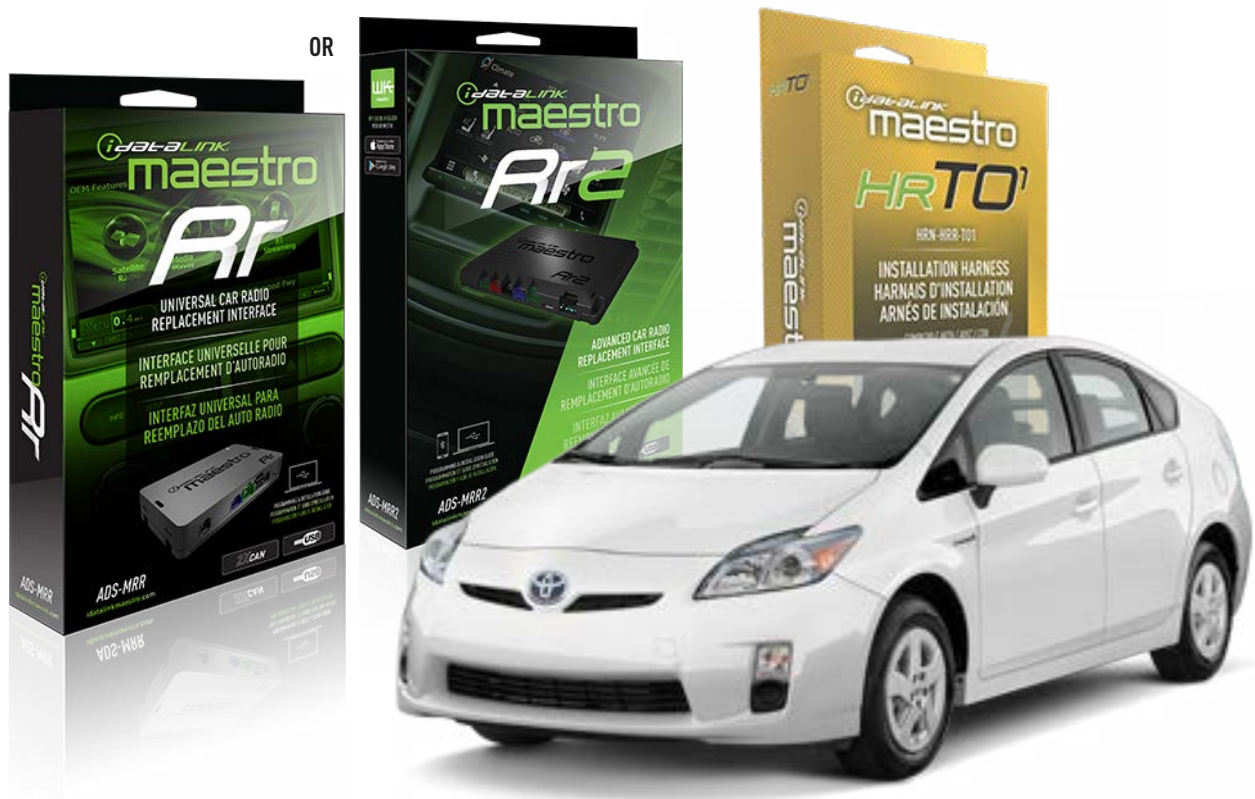
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K40 ELECTRONICS
ESCORT

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Radar Installation Guides

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  Note: only connect purple/white wire to radio reverse input or module damage will occur.

STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-TO1 harness to HRR adapter cable **D**, then connect to the backup camera harness.

STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble TO1 T-harness as shown on wiring diagram. Unplug 2-pin red connectors.
- Connect the factory harness to the HRR-TO1 harness.

STEP 4

- Connect HRR-TO1 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

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- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Plug the Data cable to the data port of the aftermarket radio.
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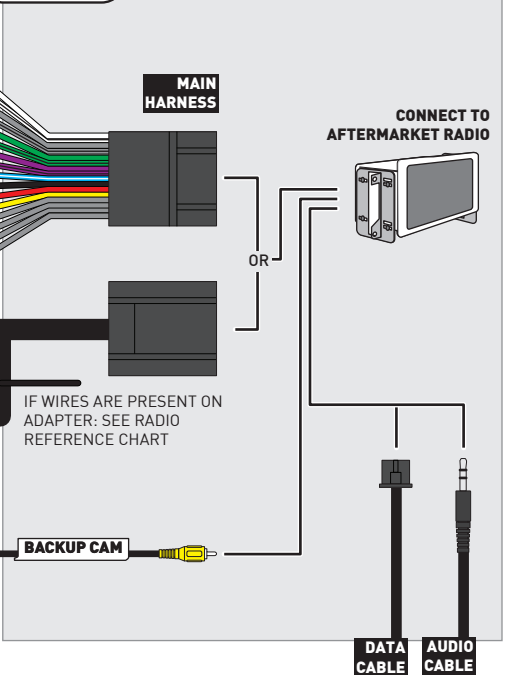
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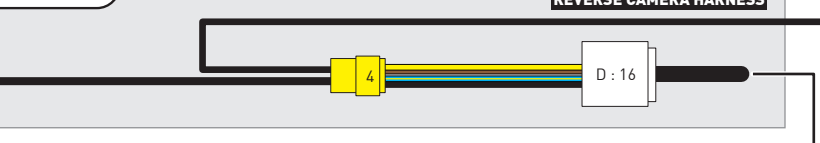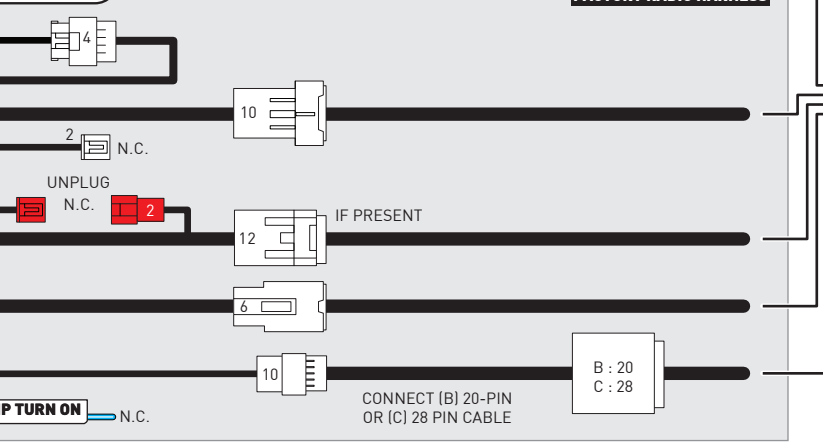
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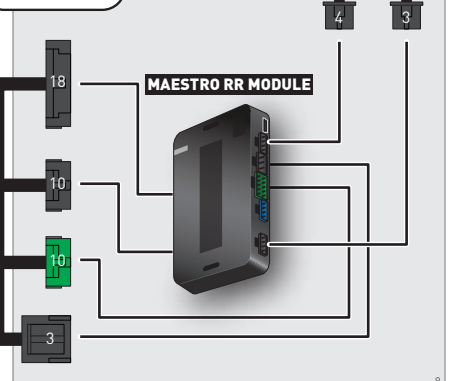# WIRING DIAGRAM *without an Amplifier*

STEP 1

STEP 5

WHITE - LF SPEAKER (+)
WHITE/BLACK - LF SPEAKER (-)
GRAY - RF SPEAKER (+)
GRAY/BLACK - RF SPEAKER (-)
GREEN - LR SPEAKER (+)
GREEN/BLACK - LR SPEAKER (-)
PURPLE - RR SPEAKER (+)
PURPLE/BLACK - RR SPEAKER (-)
BLUE/WHITE - AMP. TURN ON (+)
BLACK - GROUND
RED - ACCESSORY (+)
YELLOW - 12V (+)
ORANGE - ILLUMINATION (+)   SEE RADIO WIRE
PURPLE/WHITE - REVERSE LIGHT (+) * CHART
LTGREEN - E-BRAKE (-)   FOR RADIO
PINK - VEHICLE SPEED   WIRE COLORS

* **ONLY** CONNECT TO RADIO REVERSE INPUT OR MODULE DAMAGE WILL OCCUR

MAIN HARNESS

CONNECT TO AFTERMARKET RADIO

OR

20

IF NOT USING A MAESTRO HEAD UNIT ADAPTER:
CUT AND DISCARD CONNECTOR

HEAD UNIT ADAPTER
SOLD SEPARATELY

IF WIRES ARE PRESENT ON
ADAPTER: SEE RADIO
REFERENCE CHART

STEP 2

REVERSE CAMERA HARNESS

BACKUP CAM

4   D : 16

DATA CABLE   **AUDIO CABLE**

STEP 3

FACTORY RADIO HARNESS

4

10

2 N.C.

WIRES FROM VEHICLE

UNPLUG
N.C.   2

12   IF PRESENT

6

10   B : 20
          C : 28

STEP 6

4   3

AMP TURN ON   N.C.   CONNECT (B) 20-PIN
OR (C) 28 PIN CABLE

18

10

MAESTRO RR MODULE

STEP 4

OBDII CONNECTOR

10

3   16

3

HRR-TO1 T-HARNESS

8

NOT REQUIRED

10

18

4

STEERING WHEEL CONTROL CABLE

4

3

10   20

RADIO WIRE REFERENCE CHART

TO1 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood/ JVC cable	Wire Color on Pioneer cable	Wire Color on Sony cable
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LED 2

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maestro *Rr*

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Please note that Maestro RR will only retain functionalities that were originally available in the vehicle.

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NEED HELP?

📞 1 866 427-2999

✉ maestro.support@idatalink.com

INSTALLATION INSTRUCTIONS P1 /1

STEP 1

Remove the factory radio

If using head unit adapter (sold separately), connect HRR-TO1 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-TO1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-TO1 T-harness and match the wire functions.

    Note: only connect purple/white wire to radio reverse input or module damage will occur.

STEP 2

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble TO1 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-TO1 harness.

STEP 3

- Connect HRR-TO1 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 4

- Plug the harnesses into the aftermarket radio.
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (if there is no iDatalink audio input, connect to AUX).

    Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.

STEP 5

- Connect all the harnesses to the Maestro RR module then test your installation.
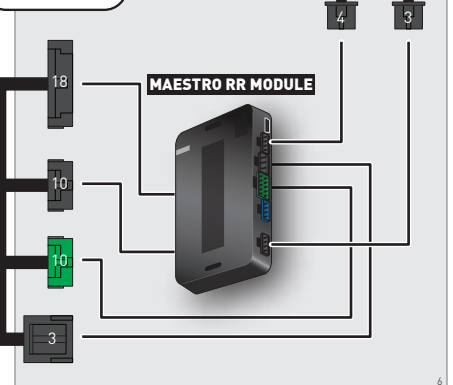
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WIRING DIAGRAM *without an Amplifier*

STEP 1

WHITE - LF SPEAKER (+)
WHITE/BLACK - LF SPEAKER (-)
GRAY - RF SPEAKER (+)
GRAY/BLACK - RF SPEAKER (-)
GREEN - LR SPEAKER (+)
GREEN/BLACK - LR SPEAKER (-)
PURPLE - RR SPEAKER (+)
PURPLE/BLACK - RR SPEAKER (-)
BLUE/WHITE - AMP. TURN ON (+)
BLACK - GROUND
RED - ACCESSORY (+)
YELLOW - 12V (+)
ORANGE - ILLUMINATION (+) — SEE RADIO WIRE
PINK - VEHICLE SPEED — CHART
LTGREEN - E-BRAKE (-) — FOR RADIO
PURPLE/WHITE - REVERSE LIGHT (+) * — WIRE COLORS

* **ONLY** CONNECT TO RADIO REVERSE INPUT OR MODULE DAMAGE WILL OCCUR

MAIN HARNESS

CONNECT TO AFTERMARKET RADIO

OR

20

IF NOT USING A MAESTRO HEAD UNIT ADAPTER:
CUT AND DISCARD CONNECTOR

HEAD UNIT ADAPTER
SOLD SEPARATELY

IF WIRES ARE PRESENT ON
ADAPTER: SEE RADIO
REFERENCE CHART

STEP 4

STEP 2

FACTORY RADIO HARNESS

4

10

2 N.C.

2

12   IF PRESENT

6

10   CONNECT (B) 20-PIN
OR (C) 28 PIN CABLE

B : 20
C : 28

WIRES FROM VEHICLE

DATA CABLE   **AUDIO CABLE**

AMP TURN ON N.C.

STEP 3

16   **OBDII CONNECTOR**

3

BACKUP CAM N.C.

4 N.C.

HRR-T01 T-HARNESS

STEP 5

4   3

18

MAESTRO RR MODULE

10

10

3

6

NOT REQUIRED

10

4   **STEERING WHEEL CONTROL CABLE**

4

4

4

D

E

F

3

18

RADIO WIRE REFERENCE CHART

TO1 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood/ JVC cable	Wire Color on Pioneer cable	Wire Color on Sony cable
Illumination	(+)	Orange	N/A	Orange/White	Orange/White	Orange
Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Head unit adapter wiring (optional accessory, sold separately)

ACC-HU-ALP1 Wire Description	Polarity	Wire Color on Adapter	Alpine Radio
VSS (vehicle speed sensor)	(DATA)	Green/White	Green/White

ACC-HU-KEN1 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
CAM	(+)	Green/Red	Refer to camera/radio manual
CAM	(-)	Green/White	Refer to camera/radio manual
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

ACC-HU-KEN2 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
E-Brake	(-)	LtGreen	LtGreen
Reverse Light*	(+)	Purple/White	Purple/White
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

* Reverse light wire: Only connect to radio or module damage will occur.

MODULE DIAGNOSTICS

PROGRAMMING BUTTON

LED 1   LED 2

LED 1

LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
● or ●		RED or GREEN flashing	LED flashes 1 or more times, either red or green, **when a steering wheel button is pressed** : normal operation.
●		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do <u>NOT</u> use DEMO MODE.
●		2 RED flashes	Problem detected. Consult troubleshooting table.
●		1 GREEN flash	After radio boots up : Normal operation.
	●	3 GREEN flashes	Bluetooth is activated. Turns off after one minute: Normal operation.
●	●	OFF	Normal operation (inactive).

VIDEO HELP		Installation, product information, vehicle specific videos.
VERIFY FLASH		Last flash information, steering control configuration, vehicle information.
WEBLINK		Software to program module.

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	Ensure OBDII connector is securely attached to the OBDII connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the **RED/BROWN** wire is on **PIN 6** and the **YELLOW/BROWN** wire is connected to **PIN 14** of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended. If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options. Reset the RR.
The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on.	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty. Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
The light on the Maestro is blinking **RED TWICE** but the radio is **NOT** turning on.	If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well. Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	Ensure the 20 or 28-pin connector is plugged to the vehicle and to the TO1 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).
(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

Turn the key to the OFF position, then disconnect all connectors from the module.
Press and hold the module's programming button and connect all the connectors back to the module. Wait, the module's LED will flash RED rapidly (this may take up to 10 seconds).
Release the programming button. Wait, the LED will turn solid GREEN for 2 seconds to show the reset was successful.

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

IMPORTANT: To ensure proper operation, the aftermarket radio needs to have the latest firmware from the manufacturer. Please visit the radio manufacturer's website and look for any updates pertaining to your radio.

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!

OR

PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro HRR-TO1 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-TOY01-DS

ADDITIONAL RESOURCES

Maestro RR2 Programmable Outputs Guide

OPTIONAL ACCESSORIES

K40
ELECTRONICS
ESCORT.

Click here for:
Radar Installation Guides

HEAD UNIT ADAPTER:
ACC-HU-PIO1, SON1, KEN1, KEN2, ALP1

NOTICE: Automotive Data Solutions Inc. (ADS) recommends having this installation performed by a certified technician. Logos and trademarks used here in are the properties of their respective owners.

WELCOME

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- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-TO1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-TO1 T-harness and match the wire functions.

  Note: only connect purple/white wire to radio reverse input or module damage will occur.

STEP 2

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble TO1 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-TO1 harness.

STEP 3

- Connect HRR-TO1 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 4

- Plug the harnesses into the aftermarket radio.
- Connect the left front and right front low level outputs RCA cables into the aftermarket radio.
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (if there is no iDatalink audio input, connect to AUX).

  Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.

STEP 5

- Connect all the harnesses to the Maestro RR module then test your installation.

WIRING DIAGRAM *with an Amplifier*

STEP 1

WHITE - LF SPEAKER (+)
WHITE/BLACK - LF SPEAKER (-)
GRAY - RF SPEAKER (+)
GRAY/BLACK - RF SPEAKER (-)
GREEN - LR SPEAKER (+)
GREEN/BLACK - LR SPEAKER (-)
PURPLE - RR SPEAKER (+)
PURPLE/BLACK - RR SPEAKER (-)

CONNECTIONS
NOT
REQUIRED
WITH AMP

BLUE/WHITE - AMP. TURN ON (+)
BLACK - GROUND
RED - ACCESSORY (+)
YELLOW - 12V (+)
ORANGE - ILLUMINATION (+)
PINK - VEHICLE SPEED
LTGREEN - E-BRAKE (-)
PURPLE/WHITE - REVERSE LIGHT (+) *

SEE RADIO WIRE
CHART
FOR RADIO
WIRE COLORS

* **ONLY** CONNECT TO RADIO REVERSE INPUT OR MODULE DAMAGE WILL OCCUR

20

✂ **IF NOT USING** A MAESTRO HEAD UNIT ADAPTER:
CUT AND DISCARD CONNECTOR

HEAD UNIT ADAPTER
SOLD SEPARATELY

STEP 4

MAIN
HARNESS

CONNECT TO
AFTERMARKET RADIO

OR

IF WIRES ARE PRESENT ON
ADAPTER: SEE RADIO
REFERENCE CHART

STEP 2

FACTORY RADIO HARNESS

4 ⊟ UNPLUG

WHITE
4

10

2

2

12
IF PRESENT

6 ⊟ N.C.

10 ⊟

A   20

B : 20
C : 28

CONNECT (B) 20-PIN
OR (C) 28 PIN CABLE

AMP TURN ON   N.C.

WIRES FROM
VEHICLE

RF OUT
LF OUT

DATA
CABLE

AUDIO
CABLE

4   3

STEP 5

STEP 3

OBDII CONNECTOR

3   16

BACKUP CAM ───○ N.C.

4   N.C.

HRR-TO1 T-HARNESS

18

10

10

3

MAESTRO RR MODULE

NOT REQUIRED

0

4 **STEERING WHEEL
CONTROL CABLE**

4   D

4   E

4   F

3

18

RADIO WIRE REFERENCE CHART

TO1 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood/ JVC cable	Wire Color on Pioneer cable	Wire Color on Sony cable
Illumination	(+)	Orange	N/A	Orange/White	Orange/White	Orange
Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Head unit adapter wiring (optional accessory, sold separately)

ACC-HU-ALP1 Wire Description	Polarity	Wire Color on Adapter	Alpine Radio
VSS (vehicle speed sensor)	(DATA)	Green/White	Green/White

ACC-HU-KEN1 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
CAM	(+)	Green/Red	Refer to camera/radio manual
CAM	(-)	Green/White	Refer to camera/radio manual
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

ACC-HU-KEN2 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
E-Brake	(-)	LtGreen	LtGreen
Reverse Light*	(+)	Purple/White	Purple/White
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

* Reverse light wire: Only connect to radio or module damage will occur.

MODULE DIAGNOSTICS

PROGRAMMING BUTTON
LED 1
LED 2
LED 1

LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
● or ●		RED or GREEN flashing	LED flashes 1 or more times, either red or green, **when a steering wheel button is pressed** : normal operation.
●		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do <u>NOT</u> use DEMO MODE.
●		2 RED flashes	Problem detected. Consult troubleshooting table.
●		1 GREEN flash	After radio boots up : Normal operation.
	●	3 GREEN flashes	Bluetooth is activated. Turns off after one minute: Normal operation.
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The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on.	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty. Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
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The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	Ensure the 20 or 28-pin connector is plugged to the vehicle and to the TO1 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).
(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

Turn the key to the OFF position, then disconnect all connectors from the module.
Press and hold the module's programming button and connect all the connectors back to the module. Wait, the module's LED will flash RED rapidly (this may take up to 10 seconds).
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- Cut and remove the black 20 pin connector from the HRR-TO1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-TO1 T-harness and match the wire functions.

   Note: only connect purple/white wire to radio reverse input or module damage will occur.

STEP 2

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble TO1 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-TO1 harness.

STEP 3

- Connect HRR-TO1 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 4

- Plug the harnesses into the aftermarket radio.
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (if there is no iDatalink audio input, connect to AUX).

   Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.

STEP 5

- Connect all the harnesses to the Maestro RR module then test your installation.

6

WIRING DIAGRAM *without an Amplifier*

STEP 1

WHITE - LF SPEAKER (+)
WHITE/BLACK - LF SPEAKER (-)
GRAY - RF SPEAKER (+)
GRAY/BLACK - RF SPEAKER (-)
GREEN - LR SPEAKER (+)
GREEN/BLACK - LR SPEAKER (-)
PURPLE - RR SPEAKER (+)
PURPLE/BLACK - RR SPEAKER (-)
BLUE/WHITE - AMP. TURN ON (+)
BLACK - GROUND
RED - ACCESSORY (+)
YELLOW - 12V (+)
ORANGE - ILLUMINATION (+)   SEE RADIO WIRE
PINK - VEHICLE SPEED   CHART
LTGREEN - E-BRAKE (-)   FOR RADIO
PURPLE/WHITE - REVERSE LIGHT (+) *   WIRE COLORS

* **ONLY** CONNECT TO RADIO REVERSE INPUT OR MODULE DAMAGE WILL OCCUR

IF NOT USING A MAESTRO HEAD UNIT ADAPTER:
CUT AND DISCARD CONNECTOR

20

HEAD UNIT ADAPTER
SOLD SEPARATELY

STEP 4

MAIN
HARNESS

CONNECT TO
AFTERMARKET RADIO

OR

IF WIRES ARE PRESENT ON
ADAPTER: SEE RADIO
REFERENCE CHART

DATA
CABLE

AUDIO
CABLE

STEP 2

FACTORY RADIO HARNESS

4

10

2 N.C.

2

12   IF PRESENT

6

10   CONNECT (B) 20-PIN
OR (C) 28 PIN CABLE

B : 20
C : 28

WIRES FROM
VEHICLE

AMP TURN ON ⌐ N.C.

STEP 3

OBDII CONNECTOR

3

16

BACKUP CAM ⌐ N.C.

4 N.C.

HRR-TO1 T-HARNESS

STEP 5

18

MAESTRO RR MODULE

10

10

3

4

3

6

NOT REQUIRED

0

4

D

STEERING WHEEL
CONTROL CABLE

4

4

E

3

F

18

RADIO WIRE REFERENCE CHART

TO1 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood/ JVC cable	Wire Color on Pioneer cable	Wire Color on Sony cable
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E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Head unit adapter wiring (optional accessory, sold separately)

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Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

ACC-HU-KEN2 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
E-Brake	(-)	LtGreen	LtGreen
Reverse Light*	(+)	Purple/White	Purple/White
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

* Reverse light wire: Only connect to radio or module damage will occur.

MODULE DIAGNOSTICS

PROGRAMMING BUTTON

LED 1

LED 2

LED 1

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● or ●		RED or GREEN flashing	LED flashes 1 or more times, either red or green, **when a steering wheel button is pressed** : normal operation.
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	●	3 GREEN flashes	Bluetooth is activated. Turns off after one minute: Normal operation.
●	●	OFF	Normal operation (inactive).

[VIDEO HELP](#)		Installation, product information, vehicle specific videos.
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PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	Ensure OBDII connector is securely attached to the OBDII connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the **RED/BROWN** wire is on **PIN 6** and the **YELLOW/BROWN** wire is connected to **PIN 14** of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended. If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options. Reset the RR.
The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on.	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty. Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
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The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	Ensure the 20 or 28-pin connector is plugged to the vehicle and to the TO1 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).
(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

Turn the key to the OFF position, then disconnect all connectors from the module.
Press and hold the module's programming button and connect all the connectors back to the module. Wait, the module's LED will flash RED rapidly (this may take up to 10 seconds).
Release the programming button. Wait, the LED will turn solid GREEN for 2 seconds to show the reset was successful.

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PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro HRR-TO1 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-TOY01-DS

ADDITIONAL RESOURCES

Maestro RR2 Programmable Outputs Guide

OPTIONAL ACCESSORIES

K40
ELECTRONICS
ESCORT.

Click here for:
Radar Installation Guides

HEAD UNIT ADAPTER:
ACC-HU-PIO1, SON1, KEN1, KEN2, ALP1

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WELCOME

Congratulations on the purchase of your iDatalink Maestro RR Radio replacement solution. You are now a few simple steps away from enjoying your new car radio with enhanced features.

Before starting your installation, please ensure that your iDatalink Maestro module is programmed with the correct firmware for your vehicle and that you carefully review the install guide.

Please note that Maestro RR will only retain functionalities that were originally available in the vehicle.

TABLE OF CONTENTS

NEED HELP?

📞 1 866 427-2999

✉ maestro.support@idatalink.com

INSTALLATION INSTRUCTIONS _{P1/1}

STEP 1

Remove the factory radio

If using head unit adapter (sold separately), connect HRR-TO1 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-TO1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-TO1 T-harness and match the wire functions.

Note: only connect purple/white wire to radio reverse input or module damage will occur.

STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-TO1 harness to appropriate HRR adapter cable (D, E or F) then connect to the backup camera harness.

STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble TO1 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-TO1 harness.

STEP 4

- Connect HRR-TO1 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the left front and right front low level outputs RCA cables into the aftermarket radio.
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (if there is no iDatalink audio input, connect to AUX).

Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.

STEP 6

- Connect all the harnesses to the Maestro RR module then test your installation.
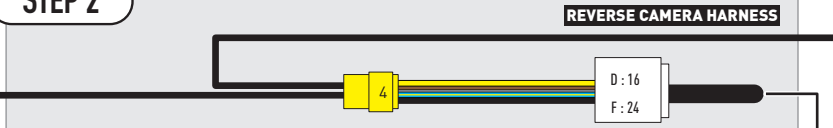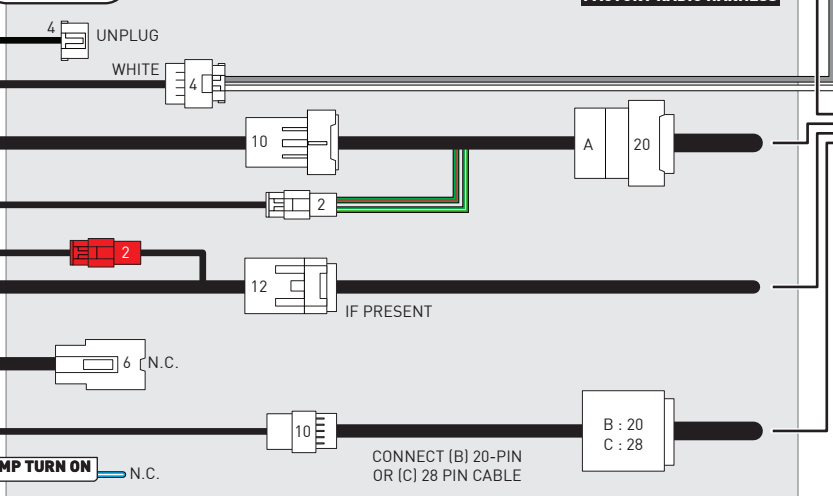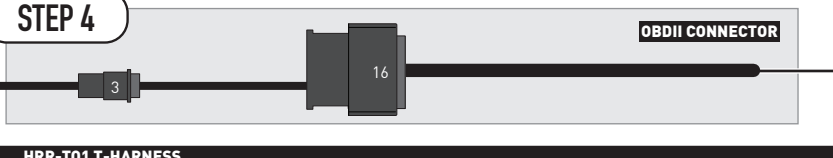
WIRING DIAGRAM *with an Amplifier*

STEP 1

WHITE - LF SPEAKER (+)
WHITE/BLACK - LF SPEAKER (-)
GRAY - RF SPEAKER (+)
GRAY/BLACK - RF SPEAKER (-)
GREEN - LR SPEAKER (+)
GREEN/BLACK - LR SPEAKER (-)
PURPLE - RR SPEAKER (+)
PURPLE/BLACK - RR SPEAKER (-)

CONNECTIONS
NOT
REQUIRED
WITH AMP

BLUE/WHITE - AMP. TURN ON (+)
BLACK - GROUND
RED - ACCESSORY (+)
YELLOW - 12V (+)
ORANGE - ILLUMINATION (+)
PINK - VEHICLE SPEED
LTGREEN - E-BRAKE (-)
PURPLE/WHITE - REVERSE LIGHT (+) *

SEE RADIO WIRE
CHART
FOR RADIO
WIRE COLORS

**MAIN
HARNESS**

**CONNECT TO
AFTERMARKET RADIO**

OR

* **ONLY** CONNECT TO RADIO REVERSE INPUT OR MODULE DAMAGE WILL OCCUR

STEP 5

20

IF NOT USING A MAESTRO HEAD UNIT ADAPTER:
CUT AND DISCARD CONNECTOR

HEAD UNIT ADAPTER
SOLD SEPARATELY

IF WIRES ARE PRESENT ON
ADAPTER: SEE RADIO
REFERENCE CHART

STEP 2

REVERSE CAMERA HARNESS

BACKUP CAM

4

D : 16
F : 24

RF OUT
LF OUT

**DATA
CABLE**

**AUDIO
CABLE**

STEP 3

FACTORY RADIO HARNESS

4 UNPLUG

WHITE

4

10

A 20

2

**WIRES FROM
VEHICLE**

2

12

IF PRESENT

STEP 6

6 N.C.

18

MAESTRO RR MODULE

10

B : 20
C : 28

CONNECT (B) 20-PIN
OR (C) 28 PIN CABLE

10

AMP TURN ON N.C.

3

STEP 4

OBDII CONNECTOR

3

16

4

3

1

HRR-T01 T-HARNESS

NOT REQUIRED

10

4

**STEERING WHEEL
CONTROL CABLE**

4

3

18

RADIO WIRE REFERENCE CHART

TO1 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood/ JVC cable	Wire Color on Pioneer cable	Wire Color on Sony cable
Illumination	(+)	Orange	N/A	Orange/White	Orange/White	Orange
Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Head unit adapter wiring (optional accessory, sold separately)

ACC-HU-ALP1 Wire Description	Polarity	Wire Color on Adapter	Alpine Radio
VSS (vehicle speed sensor)	(DATA)	Green/White	Green/White

ACC-HU-KEN1 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
CAM	(+)	Green/Red	Refer to camera/radio manual
CAM	(-)	Green/White	Refer to camera/radio manual
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

ACC-HU-KEN2 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
E-Brake	(-)	LtGreen	LtGreen
Reverse Light*	(+)	Purple/White	Purple/White
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

* Reverse light wire: Only connect to radio or module damage will occur.

MODULE DIAGNOSTICS

LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
● or ●		RED or GREEN flashing	LED flashes 1 or more times, either red or green, **when a steering wheel button is pressed** : normal operation.
●		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do <u>NOT</u> use DEMO MODE.
●		2 RED flashes	Problem detected. Consult troubleshooting table.
●		1 GREEN flash	After radio boots up : Normal operation.
	●	3 GREEN flashes	Bluetooth is activated. Turns off after one minute: Normal operation.
●	●	OFF	Normal operation (inactive).

VIDEO HELP		Installation, product information, vehicle specific videos.
VERIFY FLASH		Last flash information, steering control configuration, vehicle information.
WEBLINK		Software to program module.

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	Ensure OBDII connector is securely attached to the OBDII connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the **RED/BROWN** wire is on **PIN 6** and the **YELLOW/BROWN** wire is connected to **PIN 14** of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended. If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options. Reset the RR.
The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on.	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty. Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
The light on the Maestro is blinking **RED TWICE** but the radio is **NOT** turning on.	If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well. Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	Ensure the 20 or 28-pin connector is plugged to the vehicle and to the TO1 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).
(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

Turn the key to the OFF position, then disconnect all connectors from the module.
Press and hold the module's programming button and connect all the connectors back to the module. Wait, the module's LED will flash RED rapidly (this may take up to 10 seconds).
Release the programming button. Wait, the LED will turn solid GREEN for 2 seconds to show the reset was successful.

TECHNICAL ASSISTANCE

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Email: maestro.support@idatalink.com

IMPORTANT: To ensure proper operation, the aftermarket radio needs to have the latest firmware from the manufacturer. Please visit the radio manufacturer's website and look for any updates pertaining to your radio.

maestro **Rr**

INSTALL GUIDE

2008-2013
TOYOTA SEQUOIA
WITHOUT JBL

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!

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- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-TO1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-TO1 T-harness and match the wire functions.

  Note: only connect purple/white wire to radio reverse input or module damage will occur.

STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-TO1 harness to any HRR adapter cable (D, E or F) then cut off the 16 or 24-pin connector. Connect the adapter's wires to reverse camera harness, as shown in wiring diagram.
- Assemble TO1 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-TO1 harness.

STEP 3

- Connect HRR-TO1 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 4

- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (if there is no iDatalink audio input, connect to AUX).

  Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.

STEP 5

- Connect all the harnesses to the Maestro RR module then test your installation.
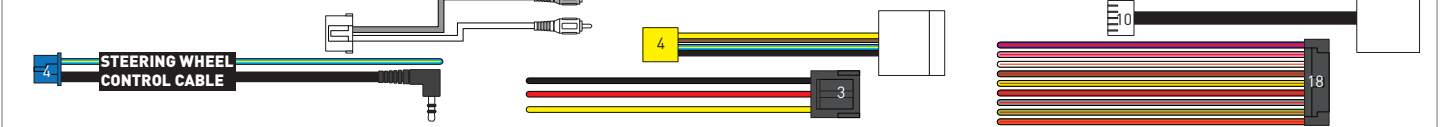
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WIRING DIAGRAM *without an Amplifier*

STEP 1

WHITE - LF SPEAKER (+)
WHITE/BLACK - LF SPEAKER (-)
GRAY - RF SPEAKER (+)
GRAY/BLACK - RF SPEAKER (-)
GREEN - LR SPEAKER (+)
GREEN/BLACK - LR SPEAKER (-)
PURPLE - RR SPEAKER (+)
PURPLE/BLACK - RR SPEAKER (-)
BLUE/WHITE - AMP. TURN ON (+)
BLACK - GROUND
RED - ACCESSORY (+)
YELLOW - 12V (+)
ORANGE - ILLUMINATION (+)
PINK - VEHICLE SPEED
LTGREEN - E-BRAKE (-)
PURPLE/WHITE - REVERSE LIGHT (+) *

SEE RADIO WIRE
CHART
FOR RADIO
WIRE COLORS

* **ONLY** CONNECT TO RADIO REVERSE INPUT OR MODULE DAMAGE WILL OCCUR

20

IF NOT USING A MAESTRO HEAD UNIT ADAPTER:
CUT AND DISCARD CONNECTOR

HEAD UNIT ADAPTER
SOLD SEPARATELY

STEP 4

MAIN HARNESS

CONNECT TO AFTERMARKET RADIO

OR

IF WIRES ARE PRESENT ON
ADAPTER: SEE RADIO
REFERENCE CHART

BACKUP CAM

DATA CABLE   **AUDIO CABLE**

STEP 2

FACTORY RADIO and REVERSE CAMERA HARNESSES

CUT AND
DISCARD

D/
E/
F

RED
SHIELD
BLACK
WHITE

DO NOT CUT VEHICLE WIRES

YELLOW - VIDEO (+)
BROWN - VIDEO (-)
BLUE/YELLOW - CAM POWER (+)
BLACK - GROUND (-)

4

11 12 13 14 | 5 6 7 8 9 10
15 16 17 18 19 20

10

B : 20

WIRES FROM VEHICLE

4

10

2 N.C.

2

12   IF PRESENT

6

STEP 5

18

MAESTRO RR MODULE

10

10

3

AMP TURN ON   N.C.

STEP 3

3

16   **OBDII CONNECTOR**

7

HRR-T01 T-HARNESS

NOT REQUIRED

4 **STEERING WHEEL CONTROL CABLE**

4

3

10

18

RADIO WIRE REFERENCE CHART

TO1 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood/ JVC cable	Wire Color on Pioneer cable	Wire Color on Sony cable
Illumination	(+)	Orange	N/A	Orange/White	Orange/White	Orange
Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Head unit adapter wiring (optional accessory, sold separately)

ACC-HU-ALP1 Wire Description	Polarity	Wire Color on Adapter	Alpine Radio
VSS (vehicle speed sensor)	(DATA)	Green/White	Green/White

ACC-HU-KEN1 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
CAM	(+)	Green/Red	Refer to camera/radio manual
CAM	(-)	Green/White	Refer to camera/radio manual
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

ACC-HU-KEN2 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
E-Brake	(-)	LtGreen	LtGreen
Reverse Light*	(+)	Purple/White	Purple/White
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

* Reverse light wire: Only connect to radio or module damage will occur.

MODULE DIAGNOSTICS

PROGRAMMING BUTTON

LED 1
LED 2
LED 1

LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
● or ●		RED or GREEN flashing	LED flashes 1 or more times, either red or green, **when a steering wheel button is pressed** : normal operation.
●		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do <u>NOT</u> use DEMO MODE.
●		2 RED flashes	Problem detected. Consult troubleshooting table.
●		1 GREEN flash	After radio boots up : Normal operation.
	●	3 GREEN flashes	Bluetooth is activated. Turns off after one minute: Normal operation.
●	●	OFF	Normal operation (inactive).

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Gauges do not work, radio shows OBD2 Error 1 or Error 2.	Ensure OBDII connector is securely attached to the OBDII connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the **RED/BROWN** wire is on **PIN 6** and the **YELLOW/BROWN** wire is connected to **PIN 14** of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended. If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options. Reset the RR.
The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on.	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty. Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
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The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	Ensure the 20 or 28-pin connector is plugged to the vehicle and to the TO1 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).
(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

Turn the key to the OFF position, then disconnect all connectors from the module.
Press and hold the module's programming button and connect all the connectors back to the module. Wait, the module's LED will flash RED rapidly (this may take up to 10 seconds).
Release the programming button. Wait, the LED will turn solid GREEN for 2 seconds to show the reset was successful.

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RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!

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- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-TO1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-TO1 T-harness and match the wire functions.

  Note: only connect purple/white wire to radio reverse input or module damage will occur.

STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-TO1 harness to appropriate HRR adapter cable (D, E or F) then connect to the backup camera harness.

STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble TO1 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-TO1 harness.

STEP 4

- Connect HRR-TO1 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (if there is no iDatalink audio input, connect to AUX).

  Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.

STEP 6

- Connect all the harnesses to the Maestro RR module then test your installation.

2

WIRING DIAGRAM *without an Amplifier*

STEP 1

WHITE - LF SPEAKER (+)
WHITE/BLACK - LF SPEAKER (-)
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BLUE/WHITE - AMP. TURN ON (+)
BLACK - GROUND
RED - ACCESSORY (+)
YELLOW - 12V (+)
ORANGE - ILLUMINATION (+)   SEE RADIO WIRE
PURPLE/WHITE - REVERSE LIGHT (+) *   CHART
LTGREEN - E-BRAKE (-)   FOR RADIO
PINK - VEHICLE SPEED   WIRE COLORS

* **ONLY** CONNECT TO RADIO REVERSE INPUT OR MODULE DAMAGE WILL OCCUR

STEP 5

MAIN HARNESS

CONNECT TO AFTERMARKET RADIO

OR

IF WIRES ARE PRESENT ON
ADAPTER: SEE RADIO
REFERENCE CHART

20

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CUT AND DISCARD CONNECTOR

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SOLD SEPARATELY

STEP 2

REVERSE CAMERA HARNESS

BACKUP CAM

4   E : 24

DATA CABLE   AUDIO CABLE

STEP 3

FACTORY RADIO HARNESS

4

10

2   N.C.

2

12   IF PRESENT

6

10   B : 20
            C : 28

CONNECT (B) 20-PIN
OR (C) 28 PIN CABLE

WIRES FROM VEHICLE

STEP 6

18

10

4   3

10

3

AMP TURN ON   N.C.

STEP 4

OBDII CONNECTOR

3   16

HRR-T01 T-HARNESS

2

NOT REQUIRED

10

4   **STEERING WHEEL CONTROL CABLE**

18

4

3

10   20

RADIO WIRE REFERENCE CHART

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ACC-HU-KEN2 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
E-Brake	(-)	LtGreen	LtGreen
Reverse Light*	(+)	Purple/White	Purple/White
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

* Reverse light wire: Only connect to radio or module damage will occur.

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PROGRAMMING BUTTON

LED 1

LED 2

LED 1

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TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	Ensure OBDII connector is securely attached to the OBDII connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the **RED/BROWN** wire is on **PIN 6** and the **YELLOW/BROWN** wire is connected to **PIN 14** of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended. If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options. Reset the RR.
The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on.	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty. Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
The light on the Maestro is blinking **RED TWICE** but the radio is **NOT** turning on.	If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well. Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	Ensure the 20 or 28-pin connector is plugged to the vehicle and to the TO1 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).
(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

Turn the key to the OFF position, then disconnect all connectors from the module.
Press and hold the module's programming button and connect all the connectors back to the module. Wait, the module's LED will flash RED rapidly (this may take up to 10 seconds).
Release the programming button. Wait, the LED will turn solid GREEN for 2 seconds to show the reset was successful.

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

IMPORTANT: To ensure proper operation, the aftermarket radio needs to have the latest firmware from the manufacturer. Please visit the radio manufacturer's website and look for any updates pertaining to your radio.

INSTALL GUIDE

2007-2010
TOYOTA SIENNA
WITH JBL

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!

OR

PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro HRR-TO1 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-TOY01-DS

ADDITIONAL RESOURCES

Maestro RR2 Programmable Outputs Guide

OPTIONAL ACCESSORIES

K40 ELECTRONICS
ESCORT.

Click here for:
Radar Installation Guides

HEAD UNIT ADAPTER:
ACC-HU-PIO1, SON1, KEN1, KEN2, ALP1

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WELCOME

Congratulations on the purchase of your iDatalink Maestro RR Radio replacement solution. You are now a few simple steps away from enjoying your new car radio with enhanced features.

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Please note that Maestro RR will only retain functionalities that were originally available in the vehicle.

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📞 1 866 427-2999

✉ maestro.support@idatalink.com

INSTALLATION INSTRUCTIONS P1/1

STEP 1

Remove the factory radio

If using head unit adapter (sold separately), connect HRR-TO1 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-TO1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-TO1 T-harness and match the wire functions.

Note: only connect purple/white wire to radio reverse input or module damage will occur.

STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-TO1 harness to appropriate HRR adapter cable (D, E or F) then connect to the backup camera harness.

STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble TO1 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-TO1 harness.

STEP 4

- Connect HRR-TO1 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the left front and right front low level outputs RCA cables into the aftermarket radio.
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (if there is no iDatalink audio input, connect to AUX).

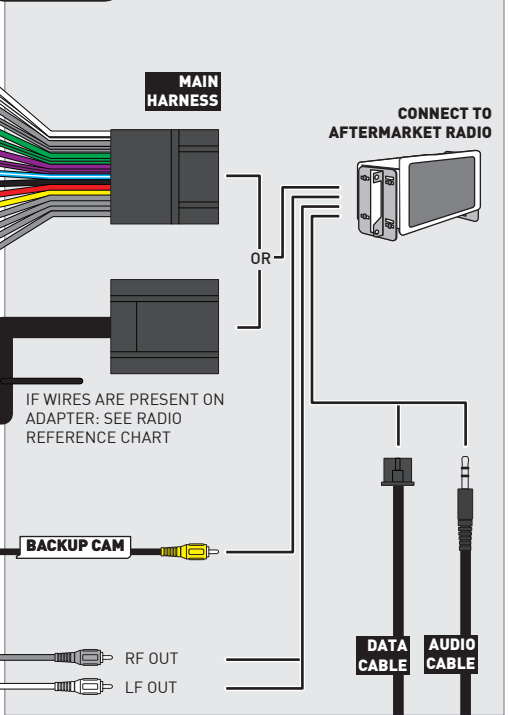Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.

STEP 6

- Connect all the harnesses to the Maestro RR module then test your installation.
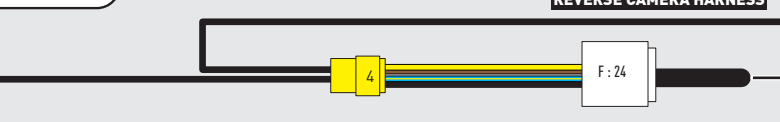
WIRING DIAGRAM *with an Amplifier*
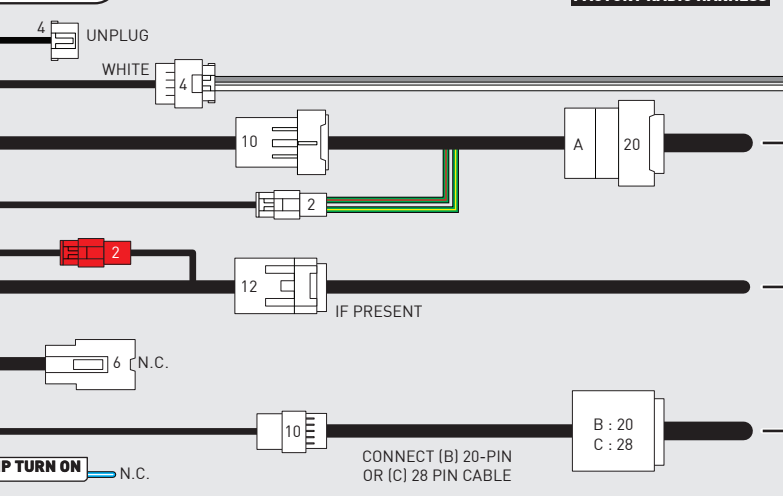
STEP 1

WHITE - LF SPEAKER (+)
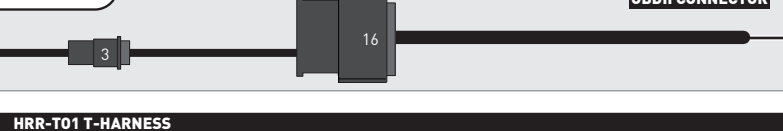WHITE/BLACK - LF SPEAKER (-)
GRAY - RF SPEAKER (+)
GRAY/BLACK - RF SPEAKER (-)
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GREEN/BLACK - LR SPEAKER (-)
PURPLE - RR SPEAKER (+)
PURPLE/BLACK - RR SPEAKER (-)

CONNECTIONS NOT REQUIRED WITH AMP

BLUE/WHITE - AMP. TURN ON (+)
BLACK - GROUND
RED - ACCESSORY (+)
YELLOW - 12V (+)
ORANGE - ILLUMINATION (+)
PINK - VEHICLE SPEED
LTGREEN - E-BRAKE (-)
PURPLE/WHITE - REVERSE LIGHT (+) *

SEE RADIO WIRE CHART FOR RADIO WIRE COLORS

* **ONLY** CONNECT TO RADIO REVERSE INPUT OR MODULE DAMAGE WILL OCCUR

STEP 5

MAIN HARNESS

CONNECT TO AFTERMARKET RADIO

OR

IF WIRES ARE PRESENT ON ADAPTER: SEE RADIO REFERENCE CHART

20

IF NOT USING A MAESTRO HEAD UNIT ADAPTER: CUT AND DISCARD CONNECTOR

HEAD UNIT ADAPTER SOLD SEPARATELY

STEP 2

REVERSE CAMERA HARNESS

BACKUP CAM

4

F : 24

RF OUT
LF OUT

DATA CABLE **AUDIO CABLE**

STEP 3

FACTORY RADIO HARNESS

4 UNPLUG

WHITE

4

10

A 20

2

WIRES FROM VEHICLE

2

12 IF PRESENT

STEP 6

6 N.C.

18

MAESTRO RR MODULE

10

10 CONNECT (B) 20-PIN OR (C) 28 PIN CABLE

B : 20 C : 28

10

AMP TURN ON N.C.

3

STEP 4

OBDII CONNECTOR

4 3

3

16

1

HRR-T01 T-HARNESS

4 3

NOT REQUIRED

10

4

STEERING WHEEL CONTROL CABLE

4

18

3

RADIO WIRE REFERENCE CHART

TO1 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood/ JVC cable	Wire Color on Pioneer cable	Wire Color on Sony cable
Illumination	(+)	Orange	N/A	Orange/White	Orange/White	Orange
Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Head unit adapter wiring (optional accessory, sold separately)

ACC-HU-ALP1 Wire Description	Polarity	Wire Color on Adapter	Alpine Radio
VSS (vehicle speed sensor)	(DATA)	Green/White	Green/White

ACC-HU-KEN1 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
CAM	(+)	Green/Red	Refer to camera/radio manual
CAM	(-)	Green/White	Refer to camera/radio manual
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

ACC-HU-KEN2 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
E-Brake	(-)	LtGreen	LtGreen
Reverse Light*	(+)	Purple/White	Purple/White
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

* Reverse light wire: Only connect to radio or module damage will occur.

MODULE DIAGNOSTICS

PROGRAMMING BUTTON

LED 1

LED 2

LED 1

LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
● or ●		RED or GREEN flashing	LED flashes 1 or more times, either red or green, **when a steering wheel button is pressed** : normal operation.
●		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do <u>NOT</u> use DEMO MODE.
●		2 RED flashes	Problem detected. Consult troubleshooting table.
●		1 GREEN flash	After radio boots up : Normal operation.
	●	3 GREEN flashes	Bluetooth is activated. Turns off after one minute: Normal operation.
●	●	OFF	Normal operation (inactive).

VIDEO HELP		Installation, product information, vehicle specific videos.
VERIFY FLASH		Last flash information, steering control configuration, vehicle information.
WEBLINK		Software to program module.

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	Ensure OBDII connector is securely attached to the OBDII connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the **RED/BROWN** wire is on **PIN 6** and the **YELLOW/BROWN** wire is connected to **PIN 14** of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended. If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options. Reset the RR.
The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on.	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty. Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
The light on the Maestro is blinking **RED TWICE** but the radio is **NOT** turning on.	If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well. Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	Ensure the 20 or 28-pin connector is plugged to the vehicle and to the TO1 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).
(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

Turn the key to the OFF position, then disconnect all connectors from the module.
Press and hold the module's programming button and connect all the connectors back to the module. Wait, the module's LED will flash RED rapidly (this may take up to 10 seconds).
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TECHNICAL ASSISTANCE

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- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-TO1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-TO1 T-harness and match the wire functions.

  Note: only connect purple/white wire to radio reverse input or module damage will occur.

STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-TO1 harness to any HRR adapter cable (D, E or F) then cut off the 16 or 24-pin connector. Connect the adapter's wires to parking assist ECU harness, as shown in wiring diagram.

STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble TO1 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-TO1 harness.

STEP 4

- Connect HRR-TO1 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the left front and right front low level outputs RCA cables into the aftermarket radio.
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (if there is no iDatalink audio input,

connect to AUX).

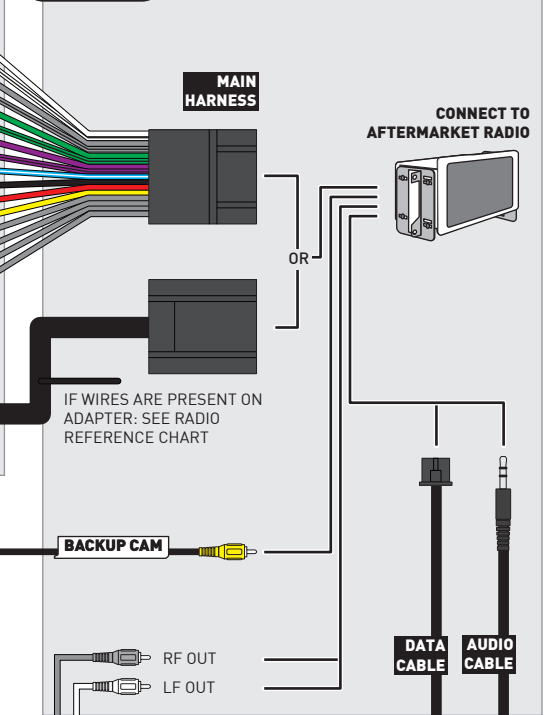**Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

STEP 6

- Connect all the harnesses to the Maestro RR module then test your installation.
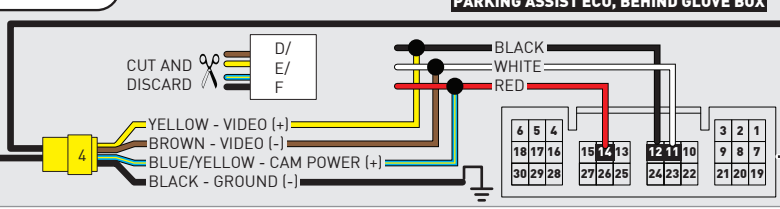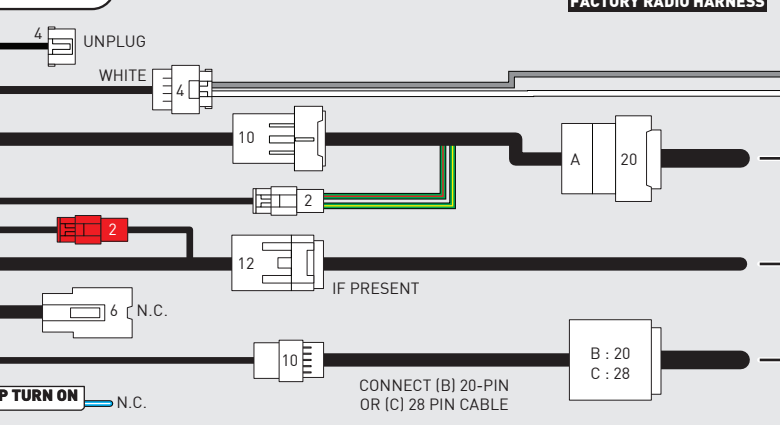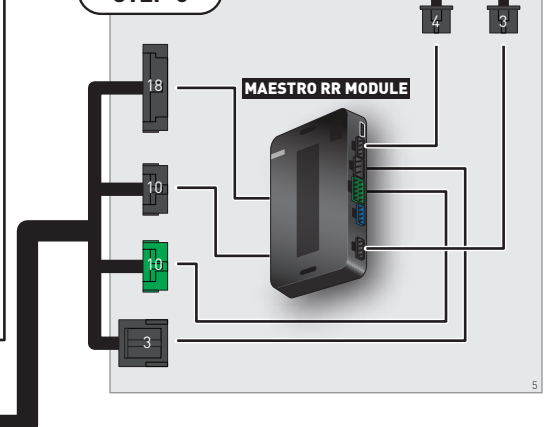
5

WIRING DIAGRAM *with an Amplifier*

STEP 1

WHITE - LF SPEAKER (+)
WHITE/BLACK - LF SPEAKER (-)
GRAY - RF SPEAKER (+)
GRAY/BLACK - RF SPEAKER (-)
GREEN - LR SPEAKER (+)
GREEN/BLACK - LR SPEAKER (-)
PURPLE - RR SPEAKER (+)
PURPLE/BLACK - RR SPEAKER (-)

CONNECTIONS NOT REQUIRED WITH AMP

BLUE/WHITE - AMP. TURN ON (+)
BLACK - GROUND
RED - ACCESSORY (+)
YELLOW - 12V (+)
ORANGE - ILLUMINATION (+)
PINK - VEHICLE SPEED
LTGREEN - E-BRAKE (-)
PURPLE/WHITE - REVERSE LIGHT (+) *

SEE RADIO WIRE CHART FOR RADIO WIRE COLORS

* **ONLY** CONNECT TO RADIO REVERSE INPUT OR MODULE DAMAGE WILL OCCUR

20

IF NOT USING A MAESTRO HEAD UNIT ADAPTER: CUT AND DISCARD CONNECTOR

HEAD UNIT ADAPTER SOLD SEPARATELY

STEP 5

MAIN HARNESS

CONNECT TO AFTERMARKET RADIO

OR

IF WIRES ARE PRESENT ON ADAPTER: SEE RADIO REFERENCE CHART

BACKUP CAM

DATA CABLE | AUDIO CABLE

RF OUT
LF OUT

STEP 2

PARKING ASSIST ECU, BEHIND GLOVE BOX

CUT AND DISCARD

D/ E/ F

BLACK
WHITE
RED

YELLOW - VIDEO (+)
BROWN - VIDEO (-)
BLUE/YELLOW - CAM POWER (+)
BLACK - GROUND (-)

4

6	5	4		15	14	13		12	11	10		3	2	1
18	17	16		27	26	25		24	23	22		9	8	7
30	29	28										21	20	19

STEP 3

FACTORY RADIO HARNESS

4 UNPLUG

WHITE

4

10

2

2

12

IF PRESENT

6 N.C.

10

A : 20

B : 20
C : 28

CONNECT (B) 20-PIN OR (C) 28 PIN CABLE

AMP TURN ON N.C.

WIRES FROM VEHICLE

STEP 6

18

MAESTRO RR MODULE

10

10

3

STEP 4

16

OBDII CONNECTOR

3

HRR-TO1 T-HARNESS

4 | 3

5

NOT REQUIRED

10

STEERING WHEEL CONTROL CABLE

4

4

3

18

RADIO WIRE REFERENCE CHART

TO1 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood/ JVC cable	Wire Color on Pioneer cable	Wire Color on Sony cable
Illumination	(+)	Orange	N/A	Orange/White	Orange/White	Orange
Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Head unit adapter wiring (optional accessory, sold separately)

ACC-HU-ALP1 Wire Description	Polarity	Wire Color on Adapter	Alpine Radio
VSS (vehicle speed sensor)	(DATA)	Green/White	Green/White

ACC-HU-KEN1 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
CAM	(+)	Green/Red	Refer to camera/radio manual
CAM	(-)	Green/White	Refer to camera/radio manual
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

ACC-HU-KEN2 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
E-Brake	(-)	LtGreen	LtGreen
Reverse Light*	(+)	Purple/White	Purple/White
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

* Reverse light wire: Only connect to radio or module damage will occur.

MODULE DIAGNOSTICS

PROGRAMMING BUTTON

LED 1
LED 2
LED 1

LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
● or ●		RED or GREEN flashing	LED flashes 1 or more times, either red or green, **when a steering wheel button is pressed** : normal operation.
●		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do <u>NOT</u> use DEMO MODE.
●		2 RED flashes	Problem detected. Consult troubleshooting table.
●		1 GREEN flash	After radio boots up : Normal operation.
	●	3 GREEN flashes	Bluetooth is activated. Turns off after one minute: Normal operation.
●	●	OFF	Normal operation (inactive).

VIDEO HELP		Installation, product information, vehicle specific videos.
VERIFY FLASH		Last flash information, steering control configuration, vehicle information.
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PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	Ensure OBDII connector is securely attached to the OBDII connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the **RED/BROWN** wire is on **PIN 6** and the **YELLOW/BROWN** wire is connected to **PIN 14** of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended. If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options. Reset the RR.
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The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	Ensure the 20 or 28-pin connector is plugged to the vehicle and to the TO1 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).
(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

Turn the key to the OFF position, then disconnect all connectors from the module.

Press and hold the module's programming button and connect all the connectors back to the module. Wait, the module's LED will flash RED rapidly (this may take up to 10 seconds).

Release the programming button. Wait, the LED will turn solid GREEN for 2 seconds to show the reset was successful.

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If using head unit adapter (sold separately), connect HRR-TO1 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-TO1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-TO1 T-harness and match the wire functions.

  Note: only connect purple/white wire to radio reverse input or module damage will occur.

STEP 2

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble TO1 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-TO1 harness.

STEP 3

- Connect HRR-TO1 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

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- Plug the harnesses into the aftermarket radio.
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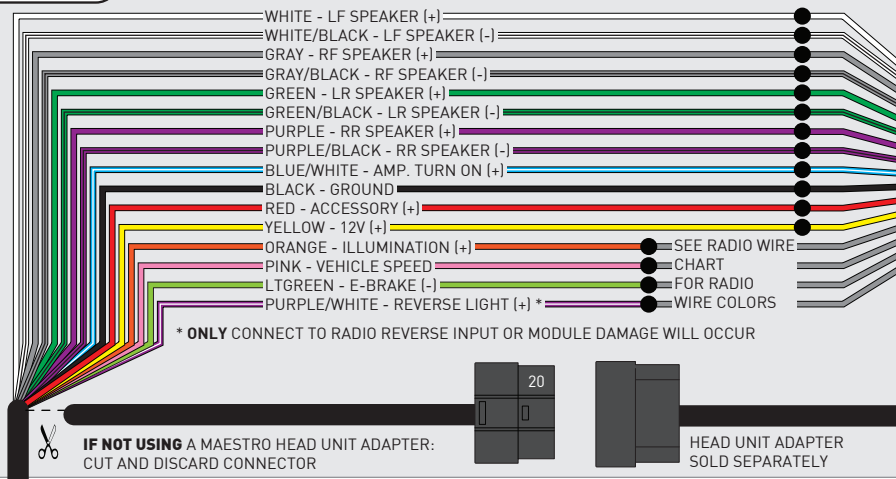
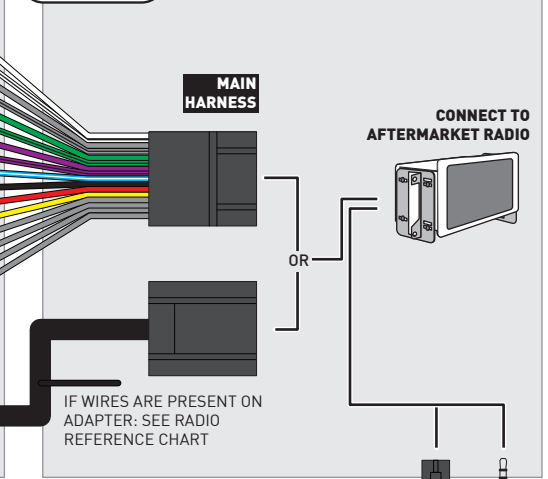 **Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

STEP 5

- Connect all the harnesses to the Maestro RR module then test your installation.

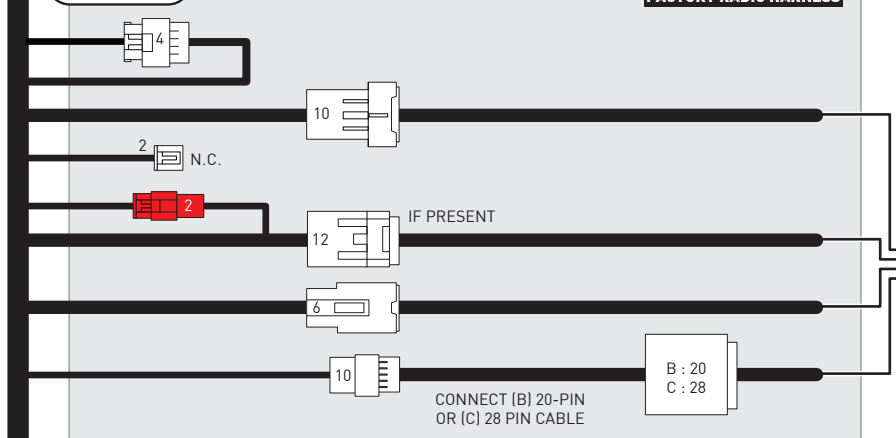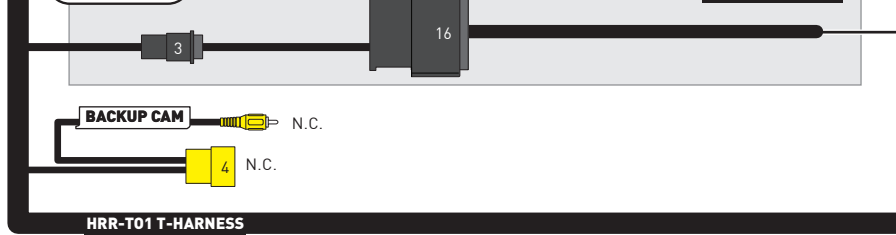# WIRING DIAGRAM *without an Amplifier*

WHITE - LF SPEAKER (+)
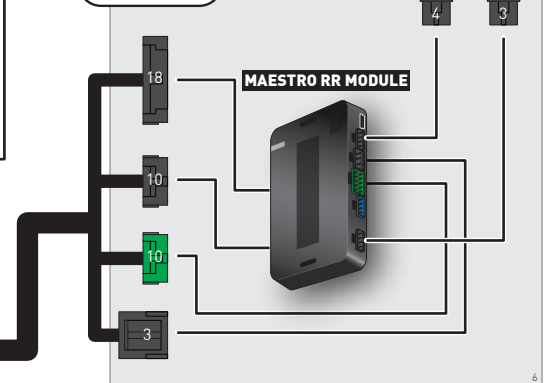WHITE/BLACK - LF SPEAKER (-)
GRAY - RF SPEAKER (+)
GRAY/BLACK - RF SPEAKER (-)
GREEN - LR SPEAKER (+)
GREEN/BLACK - LR SPEAKER (-)
PURPLE - RR SPEAKER (+)
PURPLE/BLACK - RR SPEAKER (-)
BLUE/WHITE - AMP. TURN ON (+)
BLACK - GROUND
RED - ACCESSORY (+)
YELLOW - 12V (+)
ORANGE - ILLUMINATION (+)
PINK - VEHICLE SPEED
LTGREEN - E-BRAKE (-)
PURPLE/WHITE - REVERSE LIGHT (+) *

SEE RADIO WIRE
CHART
FOR RADIO
WIRE COLORS

* **ONLY** CONNECT TO RADIO REVERSE INPUT OR MODULE DAMAGE WILL OCCUR

IF NOT USING A MAESTRO HEAD UNIT ADAPTER:
CUT AND DISCARD CONNECTOR

20

HEAD UNIT ADAPTER
SOLD SEPARATELY

STEP 4

MAIN HARNESS

CONNECT TO AFTERMARKET RADIO

OR

IF WIRES ARE PRESENT ON ADAPTER: SEE RADIO REFERENCE CHART

STEP 2

FACTORY RADIO HARNESS

4

10

2 N.C.

2

12 IF PRESENT

6

10

B : 20
C : 28

CONNECT (B) 20-PIN
OR (C) 28 PIN CABLE

WIRES FROM VEHICLE

AMP TURN ON N.C.

STEP 3

OBDII CONNECTOR

3

16

BACKUP CAM N.C.

4 N.C.

HRR-TO1 T-HARNESS

DATA CABLE

AUDIO CABLE

STEP 5

4

3

18

MAESTRO RR MODULE

10

10

3

6

NOT REQUIRED
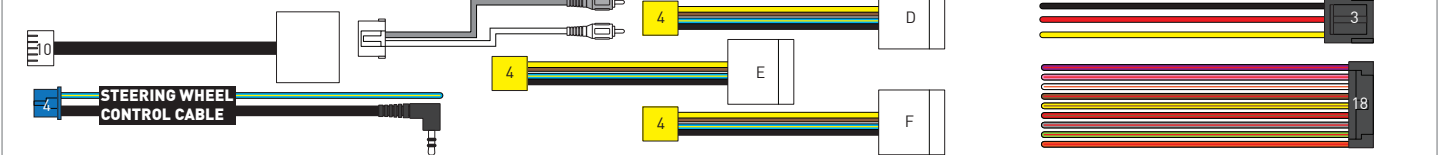
0

10

STEERING WHEEL
CONTROL CABLE

4

4

4

4

D

E

F

3

18

RADIO WIRE REFERENCE CHART

TO1 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood/ JVC cable	Wire Color on Pioneer cable	Wire Color on Sony cable
Illumination	(+)	Orange	N/A	Orange/White	Orange/White	Orange
Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Head unit adapter wiring (optional accessory, sold separately)

ACC-HU-ALP1 Wire Description	Polarity	Wire Color on Adapter	Alpine Radio
VSS (vehicle speed sensor)	(DATA)	Green/White	Green/White

ACC-HU-KEN1 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
CAM	(+)	Green/Red	Refer to camera/radio manual
CAM	(-)	Green/White	Refer to camera/radio manual
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

ACC-HU-KEN2 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
E-Brake	(-)	LtGreen	LtGreen
Reverse Light*	(+)	Purple/White	Purple/White
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

* Reverse light wire: Only connect to radio or module damage will occur.

MODULE DIAGNOSTICS

PROGRAMMING BUTTON
LED 1
LED 2
LED 1

LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
● or ●		RED or GREEN flashing	LED flashes 1 or more times, either red or green, **when a steering wheel button is pressed** : normal operation.
●		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do <u>NOT</u> use DEMO MODE.
●		2 RED flashes	Problem detected. Consult troubleshooting table.
●		1 GREEN flash	After radio boots up : Normal operation.
	●	3 GREEN flashes	Bluetooth is activated. Turns off after one minute: Normal operation.
●	●	OFF	Normal operation (inactive).

VIDEO HELP		Installation, product information, vehicle specific videos.
VERIFY FLASH		Last flash information, steering control configuration, vehicle information.
WEBLINK		Software to program module.

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	Ensure OBDII connector is securely attached to the OBDII connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the **RED/BROWN** wire is on **PIN 6** and the **YELLOW/BROWN** wire is connected to **PIN 14** of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended. If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options. Reset the RR.
The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on.	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty. Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
The light on the Maestro is blinking **RED TWICE** but the radio is **NOT** turning on.	If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well. Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	Ensure the 20 or 28-pin connector is plugged to the vehicle and to the TO1 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).
(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

Turn the key to the OFF position, then disconnect all connectors from the module.
Press and hold the module's programming button and connect all the connectors back to the module. Wait, the module's LED will flash RED rapidly (this may take up to 10 seconds).
Release the programming button. Wait, the LED will turn solid GREEN for 2 seconds to show the reset was successful.

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

IMPORTANT: To ensure proper operation, the aftermarket radio needs to have the latest firmware from the manufacturer. Please visit the radio manufacturer's website and look for any updates pertaining to your radio.

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!

OR

PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro HRR-TO1 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-TOY01-DS

ADDITIONAL RESOURCES

Maestro RR2 Programmable Outputs Guide

OPTIONAL ACCESSORIES

K40 ELECTRONICS
ESCORT®

Click here for:
Radar Installation Guides

HEAD UNIT ADAPTER:
ACC-HU-PIO1, SON1, KEN1, KEN2, ALP1

NOTICE: Automotive Data Solutions Inc. (ADS) recommends having this installation performed by a certified technician. Logos and trademarks used here in are the properties of their respective owners.

WELCOME

Congratulations on the purchase of your iDatalink Maestro RR Radio replacement solution. You are now a few simple steps away from enjoying your new car radio with enhanced features.

Before starting your installation, please ensure that your iDatalink Maestro module is programmed with the correct firmware for your vehicle and that you carefully review the install guide.

Please note that Maestro RR will only retain functionalities that were originally available in the vehicle.

TABLE OF CONTENTS

NEED HELP?

📞 1 866 427-2999

✉ maestro.support@idatalink.com

INSTALLATION INSTRUCTIONS P1/1

STEP 1

Remove the factory radio

If using head unit adapter (sold separately), connect HRR-TO1 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-TO1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-TO1 T-harness and match the wire functions.

Note: only connect purple/white wire to radio reverse input or module damage will occur.

STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-TO1 harness to any HRR adapter cable (D, E or F) then cut off the 16 or 24-pin connector. Connect the adapter's wires to reverse camera harness, as shown in wiring diagram.
- Assemble TO1 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-TO1 harness.

STEP 3

- Connect HRR-TO1 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 4

- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (if there is no iDatalink audio input, connect to AUX).
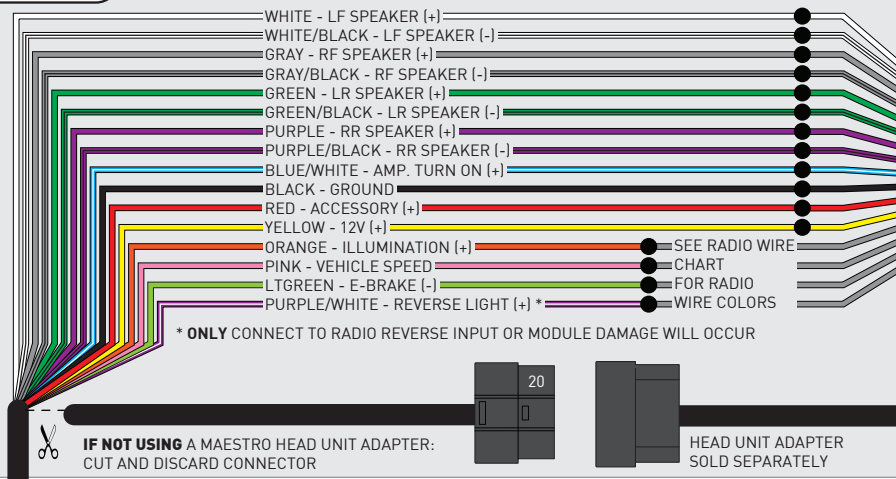
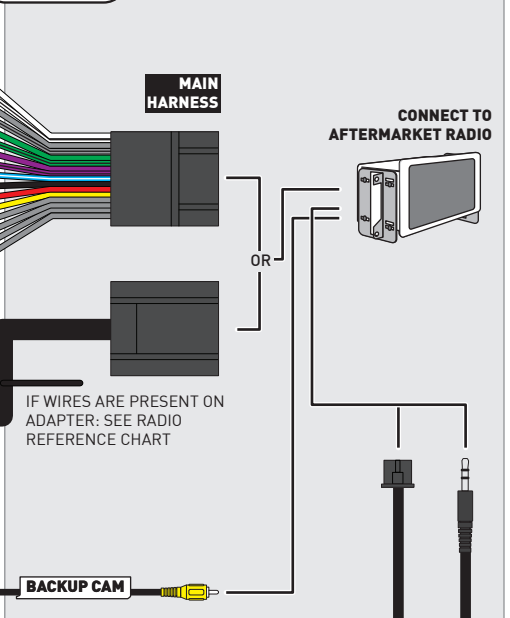**Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

STEP 5

- Connect all the harnesses to the Maestro RR module then test your installation.
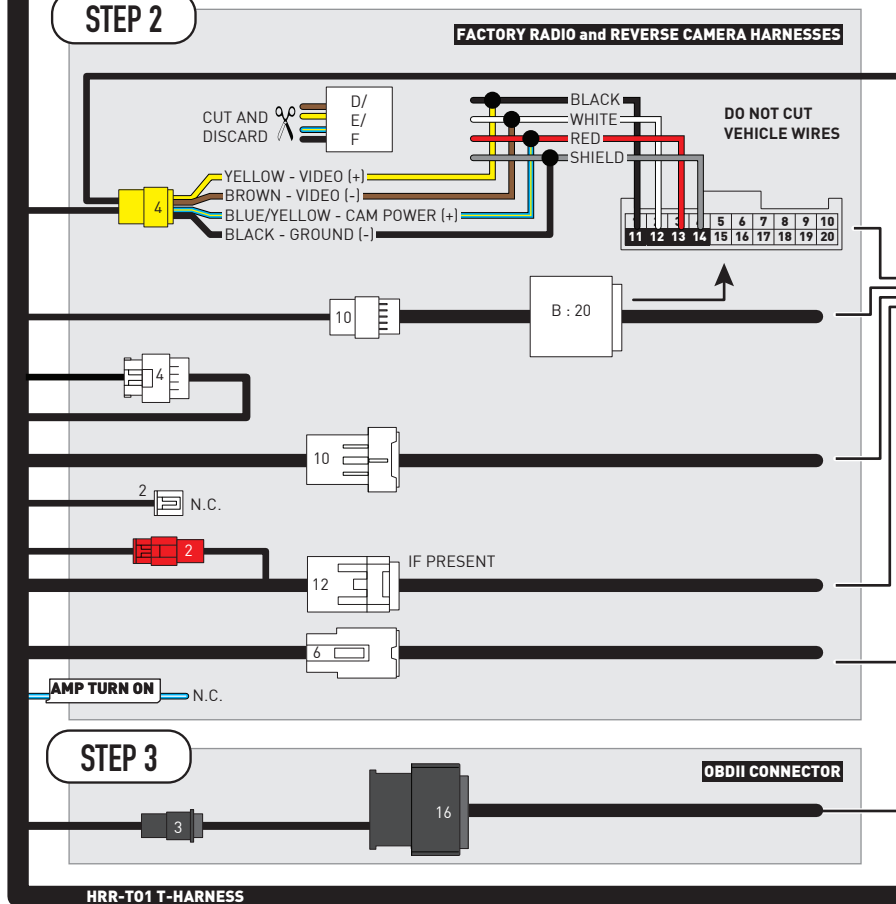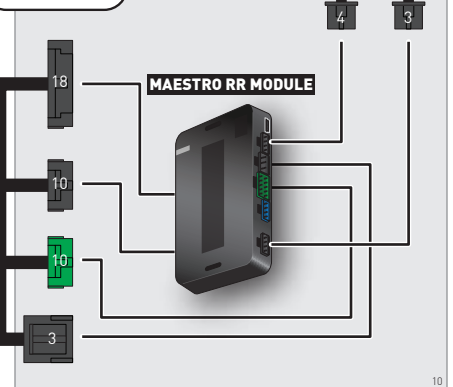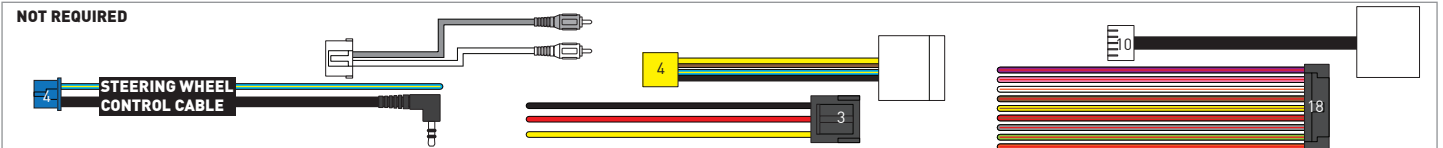
10

WIRING DIAGRAM *without an Amplifier*

STEP 1

WHITE - LF SPEAKER (+)
WHITE/BLACK - LF SPEAKER (-)
GRAY - RF SPEAKER (+)
GRAY/BLACK - RF SPEAKER (-)
GREEN - LR SPEAKER (+)
GREEN/BLACK - LR SPEAKER (-)
PURPLE - RR SPEAKER (+)
PURPLE/BLACK - RR SPEAKER (-)
BLUE/WHITE - AMP. TURN ON (+)
BLACK - GROUND
RED - ACCESSORY (+)
YELLOW - 12V (+)
ORANGE - ILLUMINATION (+) — SEE RADIO WIRE
PINK - VEHICLE SPEED — CHART
LTGREEN - E-BRAKE (-) — FOR RADIO
PURPLE/WHITE - REVERSE LIGHT (+) * — WIRE COLORS

* **ONLY** CONNECT TO RADIO REVERSE INPUT OR MODULE DAMAGE WILL OCCUR

IF NOT USING A MAESTRO HEAD UNIT ADAPTER:
CUT AND DISCARD CONNECTOR

20

HEAD UNIT ADAPTER
SOLD SEPARATELY

STEP 4

MAIN HARNESS

CONNECT TO AFTERMARKET RADIO

OR

IF WIRES ARE PRESENT ON ADAPTER: SEE RADIO REFERENCE CHART

BACKUP CAM

DATA CABLE **AUDIO CABLE**

STEP 2

FACTORY RADIO and REVERSE CAMERA HARNESSES

CUT AND DISCARD — D/E/F

BLACK
WHITE
RED
SHIELD

DO NOT CUT VEHICLE WIRES

YELLOW - VIDEO (+)
BROWN - VIDEO (-)
BLUE/YELLOW - CAM POWER (+)
BLACK - GROUND (-)

4

| 11 | 12 | 13 | 14 | 5 | 6 | 7 | 8 | 9 | 10 |
| --- | --- | --- | --- | 15 | 16 | 17 | 18 | 19 | 20 |

WIRES FROM VEHICLE

10

B : 20

4

10

2 N.C.

2

12 IF PRESENT

6

AMP TURN ON N.C.

STEP 5

18

MAESTRO RR MODULE

10

10

3

STEP 3

3

16

OBDII CONNECTOR

4

3

10

HRR-T01 T-HARNESS

NOT REQUIRED

4 **STEERING WHEEL CONTROL CABLE**

4

3

10

18

RADIO WIRE REFERENCE CHART

T01 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood/ JVC cable	Wire Color on Pioneer cable	Wire Color on Sony cable
Illumination	(+)	Orange	N/A	Orange/White	Orange/White	Orange
Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Head unit adapter wiring (optional accessory, sold separately)

ACC-HU-ALP1 Wire Description	Polarity	Wire Color on Adapter	Alpine Radio
VSS (vehicle speed sensor)	(DATA)	Green/White	Green/White

ACC-HU-KEN1 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
CAM	(+)	Green/Red	Refer to camera/radio manual
CAM	(-)	Green/White	Refer to camera/radio manual
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

ACC-HU-KEN2 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
E-Brake	(-)	LtGreen	LtGreen
Reverse Light*	(+)	Purple/White	Purple/White
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

* Reverse light wire: Only connect to radio or module damage will occur.

MODULE DIAGNOSTICS

PROGRAMMING BUTTON

LED 1

LED 2

LED 1

LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
● or ●		RED or GREEN flashing	LED flashes 1 or more times, either red or green, **when a steering wheel button is pressed** : normal operation.
●		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do <u>NOT</u> use DEMO MODE.
●		2 RED flashes	Problem detected. Consult troubleshooting table.
●		1 GREEN flash	After radio boots up : Normal operation.
	●	3 GREEN flashes	Bluetooth is activated. Turns off after one minute: Normal operation.
●	●	OFF	Normal operation (inactive).

VIDEO HELP		Installation, product information, vehicle specific videos.
VERIFY FLASH		Last flash information, steering control configuration, vehicle information.
WEBLINK		Software to program module.

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	Ensure OBDII connector is securely attached to the OBDII connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the **RED/BROWN** wire is on **PIN 6** and the **YELLOW/BROWN** wire is connected to **PIN 14** of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended. If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options. Reset the RR.
The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on.	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty. Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
The light on the Maestro is blinking **RED TWICE** but the radio is **NOT** turning on.	If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well. Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	Ensure the 20 or 28-pin connector is plugged to the vehicle and to the TO1 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).
(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

Turn the key to the OFF position, then disconnect all connectors from the module.
Press and hold the module's programming button and connect all the connectors back to the module. Wait, the module's LED will flash RED rapidly (this may take up to 10 seconds).
Release the programming button. Wait, the LED will turn solid GREEN for 2 seconds to show the reset was successful.

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

IMPORTANT: To ensure proper operation, the aftermarket radio needs to have the latest firmware from the manufacturer. Please visit the radio manufacturer's website and look for any updates pertaining to your radio.

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!

OR

PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro HRR-TO1 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-TOY01-DS

ADDITIONAL RESOURCES

Maestro RR2 Programmable Outputs Guide

OPTIONAL ACCESSORIES

K40
ELECTRONICS
ESCORT

Click here for:
Radar Installation Guides

HEAD UNIT ADAPTER:
ACC-HU-PIO1, SON1, KEN1, KEN2, ALP1

NOTICE: Automotive Data Solutions Inc. (ADS) recommends having this installation performed by a certified technician. Logos and trademarks used here in are the properties of their respective owners.

WELCOME

Congratulations on the purchase of your iDatalink Maestro RR Radio replacement solution. You are now a few simple steps away from enjoying your new car radio with enhanced features.

Before starting your installation, please ensure that your iDatalink Maestro module is programmed with the correct firmware for your vehicle and that you carefully review the install guide.

Please note that Maestro RR will only retain functionalities that were originally available in the vehicle.

TABLE OF CONTENTS

NEED HELP?

📞 1 866 427-2999

✉ maestro.support@idatalink.com

INSTALLATION INSTRUCTIONS P1/1

STEP 1

Remove the factory radio

If using head unit adapter (sold separately), connect HRR-TO1 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-TO1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-TO1 T-harness and match the wire functions.

Note: only connect purple/white wire to radio reverse input or module damage will occur.

STEP 2

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble TO1 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-TO1 harness.

STEP 3

- Connect HRR-TO1 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 4

- Plug the harnesses into the aftermarket radio.
- Connect the left front and right front low level outputs RCA cables into the aftermarket radio.
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (if there is no iDatalink audio input, connect to AUX).

Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.

STEP 5

- Connect all the harnesses to the Maestro RR module then test your installation.

3

WIRING DIAGRAM *with an Amplifier*

STEP 1

WHITE - LF SPEAKER (+)
WHITE/BLACK - LF SPEAKER (-)
GRAY - RF SPEAKER (+)
GRAY/BLACK - RF SPEAKER (-)
GREEN - LR SPEAKER (+)
GREEN/BLACK - LR SPEAKER (-)
PURPLE - RR SPEAKER (+)
PURPLE/BLACK - RR SPEAKER (-)

CONNECTIONS
NOT
REQUIRED
WITH AMP

BLUE/WHITE - AMP. TURN ON (+)
BLACK - GROUND
RED - ACCESSORY (+)
YELLOW - 12V (+)
ORANGE - ILLUMINATION (+)
PINK - VEHICLE SPEED
LTGREEN - E-BRAKE (-)
PURPLE/WHITE - REVERSE LIGHT (+) *

SEE RADIO WIRE
CHART
FOR RADIO
WIRE COLORS

* **ONLY** CONNECT TO RADIO REVERSE INPUT OR MODULE DAMAGE WILL OCCUR

STEP 4

MAIN HARNESS

CONNECT TO AFTERMARKET RADIO

OR

20

IF NOT USING A MAESTRO HEAD UNIT ADAPTER:
CUT AND DISCARD CONNECTOR

HEAD UNIT ADAPTER
SOLD SEPARATELY

IF WIRES ARE PRESENT ON
ADAPTER: SEE RADIO
REFERENCE CHART

STEP 2

FACTORY RADIO HARNESS

4 UNPLUG

WHITE
4

RF OUT
LF OUT

10

2

2

A 20

12

IF PRESENT

WIRES FROM VEHICLE

DATA CABLE **AUDIO CABLE**

6 N.C.

10

B : 20
C : 28

AMP TURN ON N.C.

CONNECT (B) 20-PIN
OR (C) 28 PIN CABLE

4 3

STEP 5

STEP 3

OBDII CONNECTOR

3

16

18

MAESTRO RR MODULE

10

BACKUP CAM N.C.

4 N.C.

10

3

HRR-T01 T-HARNESS

3

NOT REQUIRED

0

4 STEERING WHEEL
CONTROL CABLE

4

4

4

D

E

F

3

18

RADIO WIRE REFERENCE CHART

TO1 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood/ JVC cable	Wire Color on Pioneer cable	Wire Color on Sony cable
Illumination	(+)	Orange	N/A	Orange/White	Orange/White	Orange
Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Head unit adapter wiring (optional accessory, sold separately)

ACC-HU-ALP1 Wire Description	Polarity	Wire Color on Adapter	Alpine Radio
VSS (vehicle speed sensor)	(DATA)	Green/White	Green/White

ACC-HU-KEN1 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
CAM	(+)	Green/Red	Refer to camera/radio manual
CAM	(-)	Green/White	Refer to camera/radio manual
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

ACC-HU-KEN2 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
E-Brake	(-)	LtGreen	LtGreen
Reverse Light*	(+)	Purple/White	Purple/White
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

* Reverse light wire: Only connect to radio or module damage will occur.

MODULE DIAGNOSTICS

PROGRAMMING BUTTON

LED 1

LED 2

LED 1

LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
● or ●		RED or GREEN flashing	LED flashes 1 or more times, either red or green, **when a steering wheel button is pressed** : normal operation.
●		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do <u>NOT</u> use DEMO MODE.
●		2 RED flashes	Problem detected. Consult troubleshooting table.
●		1 GREEN flash	After radio boots up : Normal operation.
	●	3 GREEN flashes	Bluetooth is activated. Turns off after one minute: Normal operation.
●	●	OFF	Normal operation (inactive).

VIDEO HELP		Installation, product information, vehicle specific videos.
VERIFY FLASH		Last flash information, steering control configuration, vehicle information.
WEBLINK		Software to program module.

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	Ensure OBDII connector is securely attached to the OBDII connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the **RED/BROWN** wire is on **PIN 6** and the **YELLOW/BROWN** wire is connected to **PIN 14** of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended. If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options. Reset the RR.
The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on.	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty. Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
The light on the Maestro is blinking **RED TWICE** but the radio is **NOT** turning on.	If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well. Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	Ensure the 20 or 28-pin connector is plugged to the vehicle and to the TO1 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).
(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

Turn the key to the OFF position, then disconnect all connectors from the module.
Press and hold the module's programming button and connect all the connectors back to the module. Wait, the module's LED will flash RED rapidly (this may take up to 10 seconds).
Release the programming button. Wait, the LED will turn solid GREEN for 2 seconds to show the reset was successful.

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

IMPORTANT: To ensure proper operation, the aftermarket radio needs to have the latest firmware from the manufacturer. Please visit the radio manufacturer's website and look for any updates pertaining to your radio.

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!

OR

PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro HRR-TO1 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-TOY01-DS

ADDITIONAL RESOURCES

Maestro RR2 Programmable Outputs Guide

OPTIONAL ACCESSORIES

K40 ELECTRONICS

ESCORT

Click here for:
Radar Installation Guides

HEAD UNIT ADAPTER:
ACC-HU-PIO1, SON1, KEN1, KEN2, ALP1

WELCOME

Congratulations on the purchase of your iDatalink Maestro RR Radio replacement solution. You are now a few simple steps away from enjoying your new car radio with enhanced features.

Before starting your installation, please ensure that your iDatalink Maestro module is programmed with the correct firmware for your vehicle and that you carefully review the install guide.

Please note that Maestro RR will only retain functionalities that were originally available in the vehicle.

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NEED HELP?

📞 1 866 427-2999

✉ maestro.support@idatalink.com

INSTALLATION INSTRUCTIONS P1/1

STEP 1

Remove the factory radio

If using head unit adapter (sold separately), connect HRR-TO1 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-TO1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-TO1 T-harness and match the wire functions.

Note: only connect purple/white wire to radio reverse input or module damage will occur.

STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-TO1 harness to appropriate HRR adapter cable (D, E or F) then connect to the backup camera harness.

STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble TO1 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-TO1 harness.

STEP 4

- Connect HRR-TO1 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the left front and right front low level outputs RCA cables into the aftermarket radio.
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (if there is no iDatalink audio input, connect to AUX).

Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.

STEP 6

- Connect all the harnesses to the Maestro RR module then test your installation.

1

WIRING DIAGRAM *with an Amplifier*

STEP 1

WHITE - LF SPEAKER (+)
WHITE/BLACK - LF SPEAKER (-)
GRAY - RF SPEAKER (+)
GRAY/BLACK - RF SPEAKER (-)
GREEN - LR SPEAKER (+)
GREEN/BLACK - LR SPEAKER (-)
PURPLE - RR SPEAKER (+)
PURPLE/BLACK - RR SPEAKER (-)

CONNECTIONS NOT REQUIRED WITH AMP

BLUE/WHITE - AMP. TURN ON (+)
BLACK - GROUND
RED - ACCESSORY (+)
YELLOW - 12V (+)
ORANGE - ILLUMINATION (+)
PINK - VEHICLE SPEED
LTGREEN - E-BRAKE (-)
PURPLE/WHITE - REVERSE LIGHT (+) *

SEE RADIO WIRE
CHART
FOR RADIO
WIRE COLORS

* **ONLY** CONNECT TO RADIO REVERSE INPUT OR MODULE DAMAGE WILL OCCUR

20

IF NOT USING A MAESTRO HEAD UNIT ADAPTER: CUT AND DISCARD CONNECTOR

HEAD UNIT ADAPTER
SOLD SEPARATELY

STEP 5

MAIN HARNESS

CONNECT TO AFTERMARKET RADIO

OR

IF WIRES ARE PRESENT ON ADAPTER: SEE RADIO REFERENCE CHART

STEP 2

REVERSE CAMERA HARNESS

BACKUP CAM

4

D : 16
E : 24

RF OUT
LF OUT

DATA CABLE

AUDIO CABLE

STEP 3

FACTORY RADIO HARNESS

4 UNPLUG

WHITE

4

10

2

A 20

2

12

IF PRESENT

WIRES FROM VEHICLE

6 N.C.

STEP 6

10

B : 20
C : 28

CONNECT (B) 20-PIN
OR (C) 28 PIN CABLE

AMP TURN ON N.C.

18

MAESTRO RR MODULE

10

10

4

3

3

STEP 4

OBDII CONNECTOR

3

16

HRR-T01 T-HARNESS

NOT REQUIRED

10

STEERING WHEEL
CONTROL CABLE

4

4

3

18

RADIO WIRE REFERENCE CHART

TO1 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood/ JVC cable	Wire Color on Pioneer cable	Wire Color on Sony cable
Illumination	(+)	Orange	N/A	Orange/White	Orange/White	Orange
Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Head unit adapter wiring (optional accessory, sold separately)

ACC-HU-ALP1 Wire Description	Polarity	Wire Color on Adapter	Alpine Radio
VSS (vehicle speed sensor)	(DATA)	Green/White	Green/White

ACC-HU-KEN1 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
CAM	(+)	Green/Red	Refer to camera/radio manual
CAM	(-)	Green/White	Refer to camera/radio manual
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

ACC-HU-KEN2 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
E-Brake	(-)	LtGreen	LtGreen
Reverse Light*	(+)	Purple/White	Purple/White
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

* Reverse light wire: Only connect to radio or module damage will occur.

MODULE DIAGNOSTICS

PROGRAMMING BUTTON

LED 1

LED 2

LED 1

LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
● or ●		RED or GREEN flashing	LED flashes 1 or more times, either red or green, **when a steering wheel button is pressed** : normal operation.
●		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do <u>NOT</u> use DEMO MODE.
●		2 RED flashes	Problem detected. Consult troubleshooting table.
●		1 GREEN flash	After radio boots up : Normal operation.
	●	3 GREEN flashes	Bluetooth is activated. Turns off after one minute: Normal operation.
●	●	OFF	Normal operation (inactive).

VIDEO HELP		Installation, product information, vehicle specific videos.
VERIFY FLASH		Last flash information, steering control configuration, vehicle information.
WEBLINK		Software to program module.

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	Ensure OBDII connector is securely attached to the OBDII connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the **RED/BROWN** wire is on **PIN 6** and the **YELLOW/BROWN** wire is connected to **PIN 14** of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended. If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options. Reset the RR.
The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on.	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty. Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
The light on the Maestro is blinking **RED TWICE** but the radio is **NOT** turning on.	If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well. Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	Ensure the 20 or 28-pin connector is plugged to the vehicle and to the TO1 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).
(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

Turn the key to the OFF position, then disconnect all connectors from the module.
Press and hold the module's programming button and connect all the connectors back to the module. Wait, the module's LED will flash RED rapidly (this may take up to 10 seconds).
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Email: maestro.support@idatalink.com

IMPORTANT: To ensure proper operation, the aftermarket radio needs to have the latest firmware from the manufacturer. Please visit the radio manufacturer's website and look for any updates pertaining to your radio.

INSTALL GUIDE

2005-2011
TOYOTA TACOMA
WITHOUT JBL

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!

OR

PRODUCTS REQUIRED

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Radar Installation Guides

HEAD UNIT ADAPTER:
ACC-HU-PIO1, SON1, KEN1, KEN2, ALP1

NOTICE: Automotive Data Solutions Inc. (ADS) recommends having this installation performed by a certified technician. Logos and trademarks used here in are the properties of their respective owners.

WELCOME

Congratulations on the purchase of your iDatalink Maestro RR Radio replacement solution. You are now a few simple steps away from enjoying your new car radio with enhanced features.

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Please note that Maestro RR will only retain functionalities that were originally available in the vehicle.

NEED HELP?

📞 1 866 427-2999

✉ maestro.support@idatalink.com

INSTALLATION INSTRUCTIONS P1 /1

STEP 1

Remove the factory radio

If using head unit adapter (sold separately), connect HRR-TO1 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-TO1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-TO1 T-harness and match the wire functions.

  Note: only connect purple/white wire to radio reverse input or module damage will occur.

STEP 2

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble TO1 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-TO1 harness.

STEP 3

- Connect HRR-TO1 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 4

- Plug the harnesses into the aftermarket radio.
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (if there is no iDatalink audio input, connect to AUX).
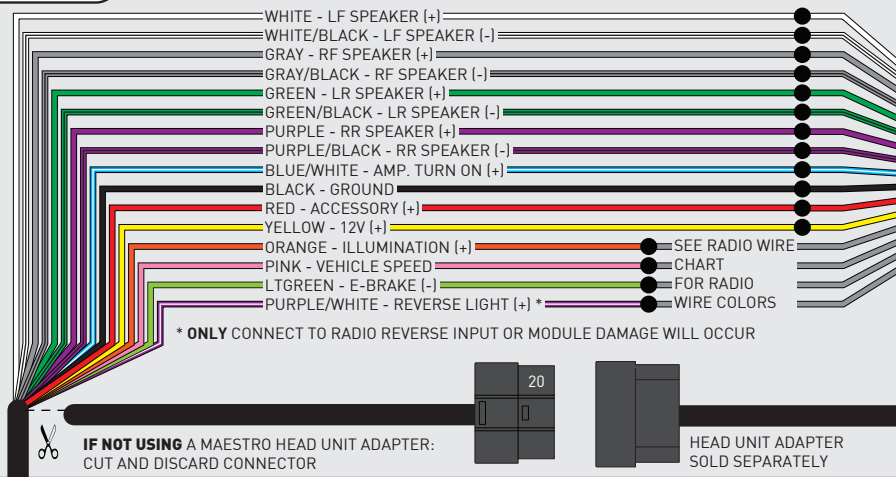
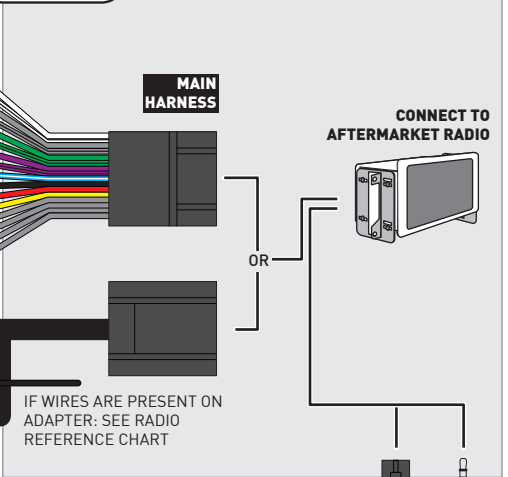 **Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

STEP 5

- Connect all the harnesses to the Maestro RR module then test your installation.

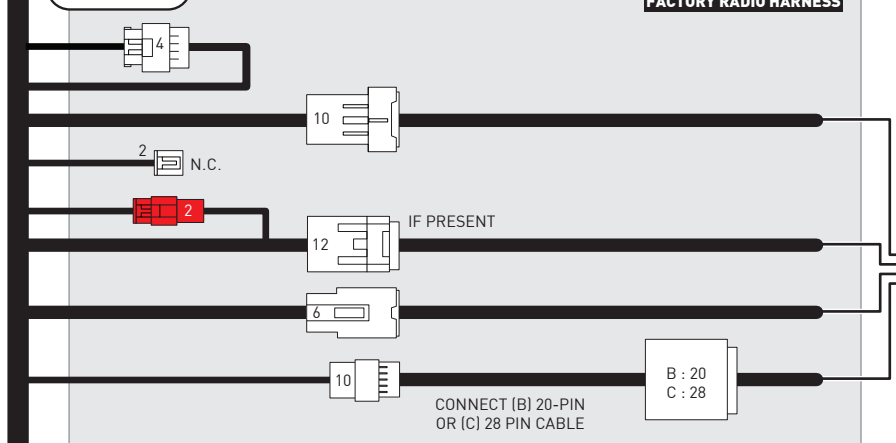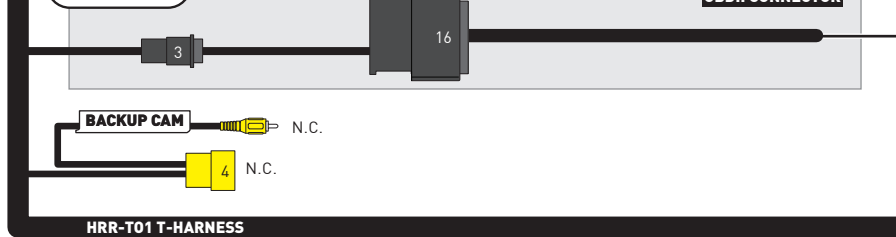6

WIRING DIAGRAM *without an Amplifier*

STEP 1

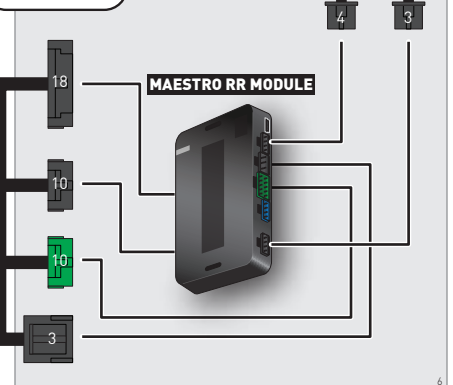WHITE - LF SPEAKER (+)
WHITE/BLACK - LF SPEAKER (-)
GRAY - RF SPEAKER (+)
GRAY/BLACK - RF SPEAKER (-)
GREEN - LR SPEAKER (+)
GREEN/BLACK - LR SPEAKER (-)
PURPLE - RR SPEAKER (+)
PURPLE/BLACK - RR SPEAKER (-)
BLUE/WHITE - AMP. TURN ON (+)
BLACK - GROUND
RED - ACCESSORY (+)
YELLOW - 12V (+)
ORANGE - ILLUMINATION (+) — SEE RADIO WIRE
PINK - VEHICLE SPEED — CHART
LTGREEN - E-BRAKE (-) — FOR RADIO
PURPLE/WHITE - REVERSE LIGHT (+) * — WIRE COLORS

* **ONLY** CONNECT TO RADIO REVERSE INPUT OR MODULE DAMAGE WILL OCCUR

20

IF NOT USING A MAESTRO HEAD UNIT ADAPTER:
CUT AND DISCARD CONNECTOR

HEAD UNIT ADAPTER
SOLD SEPARATELY

STEP 4

MAIN HARNESS

CONNECT TO AFTERMARKET RADIO

OR

IF WIRES ARE PRESENT ON
ADAPTER: SEE RADIO
REFERENCE CHART

STEP 2

FACTORY RADIO HARNESS

4

10

2 — N.C.

2

12 — IF PRESENT

6

10 — CONNECT (B) 20-PIN
OR (C) 28 PIN CABLE

B : 20
C : 28

WIRES FROM VEHICLE

AMP TURN ON — N.C.

STEP 3

3

16 — **OBDII CONNECTOR**

BACKUP CAM — N.C.

4 — N.C.

HRR-T01 T-HARNESS

DATA CABLE   **AUDIO CABLE**

4   3

STEP 5

18

10

10

3

MAESTRO RR MODULE

NOT REQUIRED

0

4 — **STEERING WHEEL CONTROL CABLE**

4 — D

4 — E

4 — F
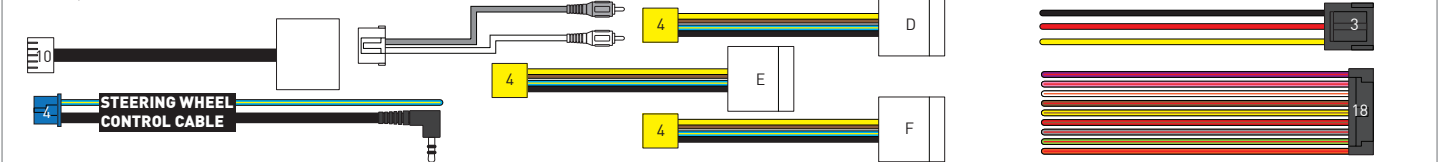
3

18

RADIO WIRE REFERENCE CHART

TO1 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood/ JVC cable	Wire Color on Pioneer cable	Wire Color on Sony cable
Illumination	(+)	Orange	N/A	Orange/White	Orange/White	Orange
Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Head unit adapter wiring (optional accessory, sold separately)

ACC-HU-ALP1 Wire Description	Polarity	Wire Color on Adapter	Alpine Radio
VSS (vehicle speed sensor)	(DATA)	Green/White	Green/White

ACC-HU-KEN1 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
CAM	(+)	Green/Red	Refer to camera/radio manual
CAM	(-)	Green/White	Refer to camera/radio manual
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

ACC-HU-KEN2 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
E-Brake	(-)	LtGreen	LtGreen
Reverse Light*	(+)	Purple/White	Purple/White
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

* Reverse light wire: Only connect to radio or module damage will occur.

MODULE DIAGNOSTICS

PROGRAMMING BUTTON

LED 1

LED 2

LED 1

LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
● or ●		RED or GREEN flashing	LED flashes 1 or more times, either red or green, **when a steering wheel button is pressed** : normal operation.
●		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do <u>NOT</u> use DEMO MODE.
●		2 RED flashes	Problem detected. Consult troubleshooting table.
●		1 GREEN flash	After radio boots up : Normal operation.
	●	3 GREEN flashes	Bluetooth is activated. Turns off after one minute: Normal operation.
●	●	OFF	Normal operation (inactive).

VIDEO HELP		Installation, product information, vehicle specific videos.
VERIFY FLASH		Last flash information, steering control configuration, vehicle information.
WEBLINK		Software to program module.

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	Ensure OBDII connector is securely attached to the OBDII connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the **RED/BROWN** wire is on **PIN 6** and the **YELLOW/BROWN** wire is connected to **PIN 14** of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended. If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options. Reset the RR.
The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on.	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty. Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
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The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	Ensure the 20 or 28-pin connector is plugged to the vehicle and to the TO1 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).
(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

Turn the key to the OFF position, then disconnect all connectors from the module.
Press and hold the module's programming button and connect all the connectors back to the module. Wait, the module's LED will flash RED rapidly (this may take up to 10 seconds).
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- Cut and remove the black 20 pin connector from the HRR-TO1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-TO1 T-harness and match the wire functions.

   Note: only connect purple/white wire to radio reverse input or module damage will occur.

STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-TO1 harness to appropriate HRR adapter cable (D, E or F) then connect to the backup camera harness.

STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble TO1 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-TO1 harness.

STEP 4

- Connect HRR-TO1 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
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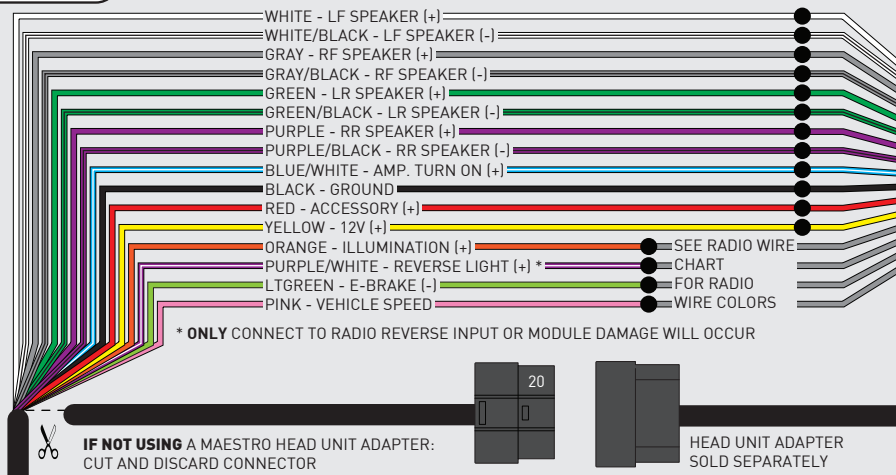
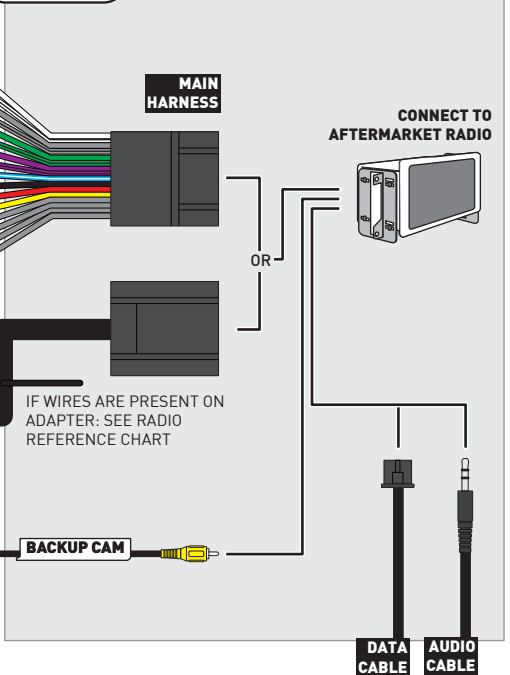   **Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

STEP 6

- Connect all the harnesses to the Maestro RR module then test your installation.
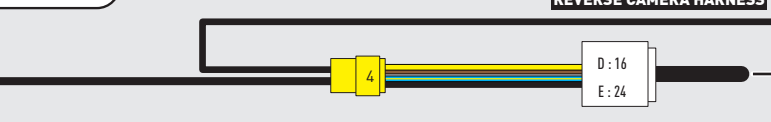
2

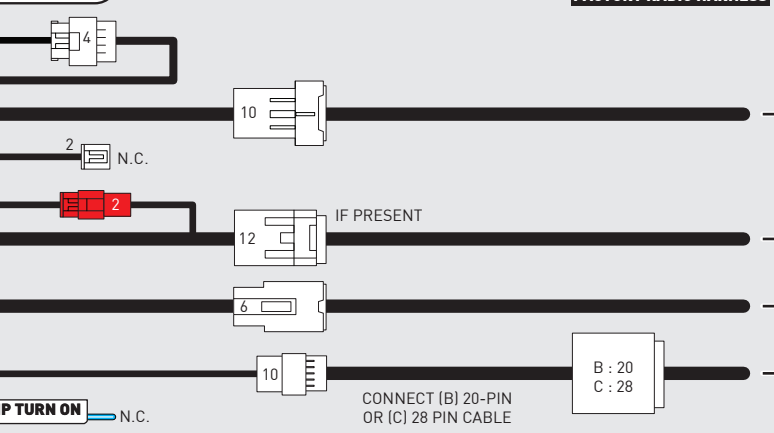# WIRING DIAGRAM *without an Amplifier*

STEP 1

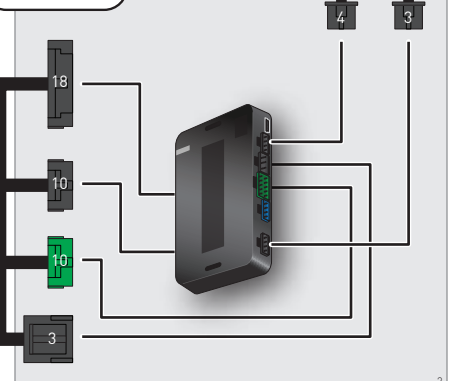WHITE - LF SPEAKER (+)
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PURPLE - RR SPEAKER (+)
PURPLE/BLACK - RR SPEAKER (-)
BLUE/WHITE - AMP. TURN ON (+)
BLACK - GROUND
RED - ACCESSORY (+)
YELLOW - 12V (+)
ORANGE - ILLUMINATION (+)   SEE RADIO WIRE
PURPLE/WHITE - REVERSE LIGHT (+) * CHART
LTGREEN - E-BRAKE (-)   FOR RADIO
PINK - VEHICLE SPEED   WIRE COLORS

* **ONLY** CONNECT TO RADIO REVERSE INPUT OR MODULE DAMAGE WILL OCCUR

20

IF NOT USING A MAESTRO HEAD UNIT ADAPTER:
CUT AND DISCARD CONNECTOR

HEAD UNIT ADAPTER
SOLD SEPARATELY

STEP 5

MAIN
HARNESS

CONNECT TO
AFTERMARKET RADIO

OR

IF WIRES ARE PRESENT ON
ADAPTER: SEE RADIO
REFERENCE CHART

STEP 2

REVERSE CAMERA HARNESS

BACKUP CAM

4   D : 16
       E : 24

DATA   AUDIO
CABLE   CABLE

STEP 3

FACTORY RADIO HARNESS

4

10

2   N.C.

2

12   IF PRESENT

6

10   B : 20
      C : 28

WIRES FROM
VEHICLE

AMP TURN ON   N.C.

CONNECT (B) 20-PIN
OR (C) 28 PIN CABLE

STEP 6

4   3

18

10

10

3

STEP 4

OBDII CONNECTOR

3   16

HRR-T01 T-HARNESS

2

NOT REQUIRED

10

18

STEERING WHEEL
CONTROL CABLE
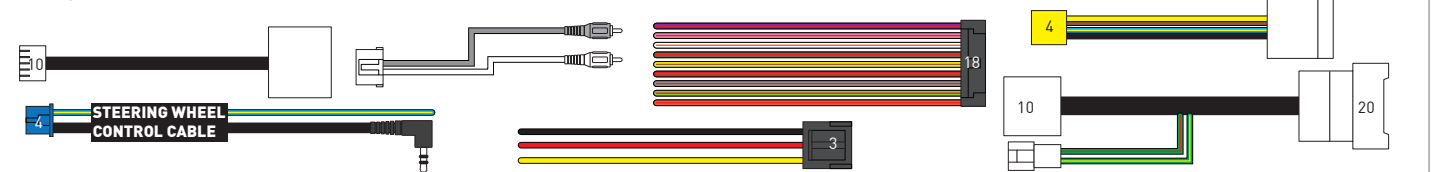
4

4

10

3

20

RADIO WIRE REFERENCE CHART

TO1 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood/ JVC cable	Wire Color on Pioneer cable	Wire Color on Sony cable
Illumination	(+)	Orange	N/A	Orange/White	Orange/White	Orange
Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Head unit adapter wiring (optional accessory, sold separately)

ACC-HU-ALP1 Wire Description	Polarity	Wire Color on Adapter	Alpine Radio
VSS (vehicle speed sensor)	(DATA)	Green/White	Green/White

ACC-HU-KEN1 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
CAM	(+)	Green/Red	Refer to camera/radio manual
CAM	(-)	Green/White	Refer to camera/radio manual
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

ACC-HU-KEN2 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
E-Brake	(-)	LtGreen	LtGreen
Reverse Light*	(+)	Purple/White	Purple/White
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

* Reverse light wire: Only connect to radio or module damage will occur.

MODULE DIAGNOSTICS

PROGRAMMING BUTTON

LED 1

LED 2

LED 1

LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
● or ●		RED or GREEN flashing	LED flashes 1 or more times, either red or green, **when a steering wheel button is pressed** : normal operation.
●		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do <u>NOT</u> use DEMO MODE.
●		2 RED flashes	Problem detected. Consult troubleshooting table.
●		1 GREEN flash	After radio boots up : Normal operation.
	●	3 GREEN flashes	Bluetooth is activated. Turns off after one minute: Normal operation.
●	●	OFF	Normal operation (inactive).

VIDEO HELP		Installation, product information, vehicle specific videos.
VERIFY FLASH		Last flash information, steering control configuration, vehicle information.
WEBLINK		Software to program module.

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	Ensure OBDII connector is securely attached to the OBDII connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the **RED/BROWN** wire is on **PIN 6** and the **YELLOW/BROWN** wire is connected to **PIN 14** of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended. If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options. Reset the RR.
The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on.	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty. Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
The light on the Maestro is blinking **RED TWICE** but the radio is **NOT** turning on.	If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well. Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	Ensure the 20 or 28-pin connector is plugged to the vehicle and to the TO1 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).
(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

Turn the key to the OFF position, then disconnect all connectors from the module.
Press and hold the module's programming button and connect all the connectors back to the module. Wait, the module's LED will flash RED rapidly (this may take up to 10 seconds).
Release the programming button. Wait, the LED will turn solid GREEN for 2 seconds to show the reset was successful.

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

IMPORTANT: To ensure proper operation, the aftermarket radio needs to have the latest firmware from the manufacturer. Please visit the radio manufacturer's website and look for any updates pertaining to your radio.

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!

OR

PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro HRR-TO1 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-TOY01-DS

ADDITIONAL RESOURCES

Maestro RR2 Programmable Outputs Guide

OPTIONAL ACCESSORIES

Click here for:
Radar Installation Guides

HEAD UNIT ADAPTER:
ACC-HU-PIO1, SON1, KEN1, KEN2, ALP1

NOTICE: Automotive Data Solutions Inc. (ADS) recommends having this installation performed by a certified technician. Logos and trademarks used here in are the properties of their respective owners.

WELCOME

Congratulations on the purchase of your iDatalink Maestro RR Radio replacement solution. You are now a few simple steps away from enjoying your new car radio with enhanced features.

Before starting your installation, please ensure that your iDatalink Maestro module is programmed with the correct firmware for your vehicle and that you carefully review the install guide.

Please note that Maestro RR will only retain functionalities that were originally available in the vehicle.

TABLE OF CONTENTS

NEED HELP?

📞 1 866 427-2999

✉ maestro.support@idatalink.com

INSTALLATION INSTRUCTIONS P1 /1

STEP 1

Remove the factory radio

If using head unit adapter (sold separately), connect HRR-TO1 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-TO1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-TO1 T-harness and match the wire functions.

Note: only connect purple/white wire to radio reverse input or module damage will occur.

STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-TO1 harness to appropriate HRR adapter cable (D, E or F) then connect to the backup camera harness.

STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble TO1 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-TO1 harness.

STEP 4

- Connect HRR-TO1 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the left front and right front low level outputs RCA cables into the aftermarket radio.
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (if there is no iDatalink audio input, connect to AUX).
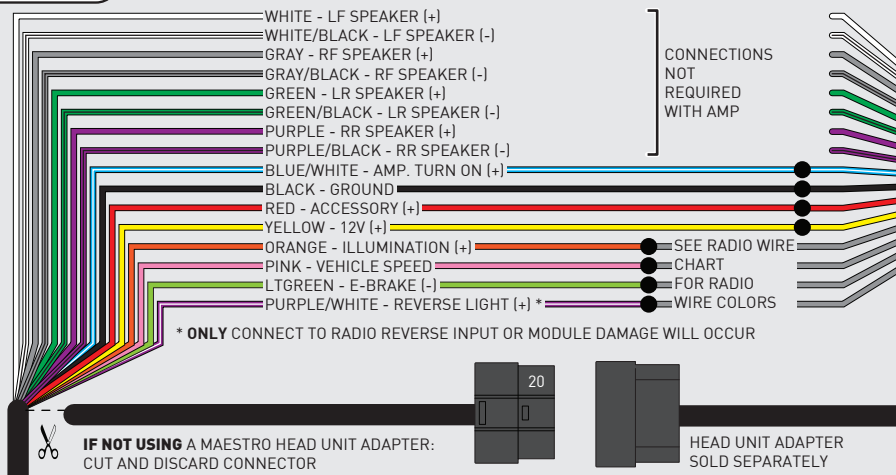
Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.
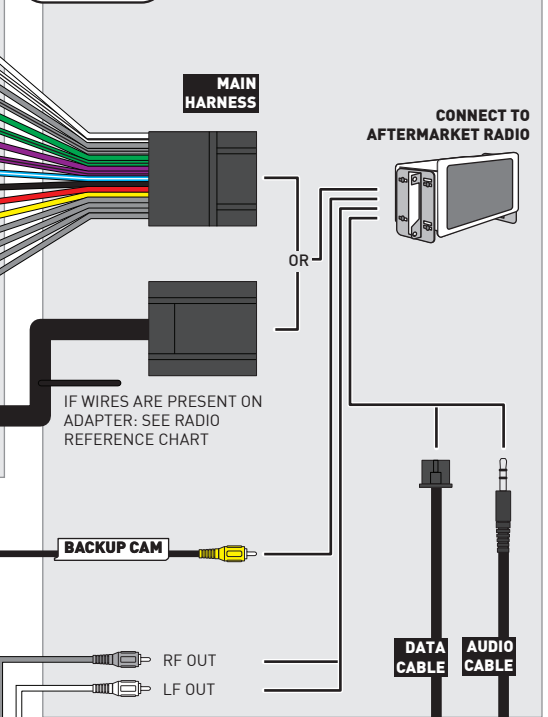
STEP 6

- Connect all the harnesses to the Maestro RR module then test your installation.
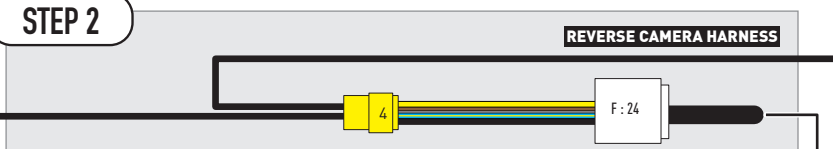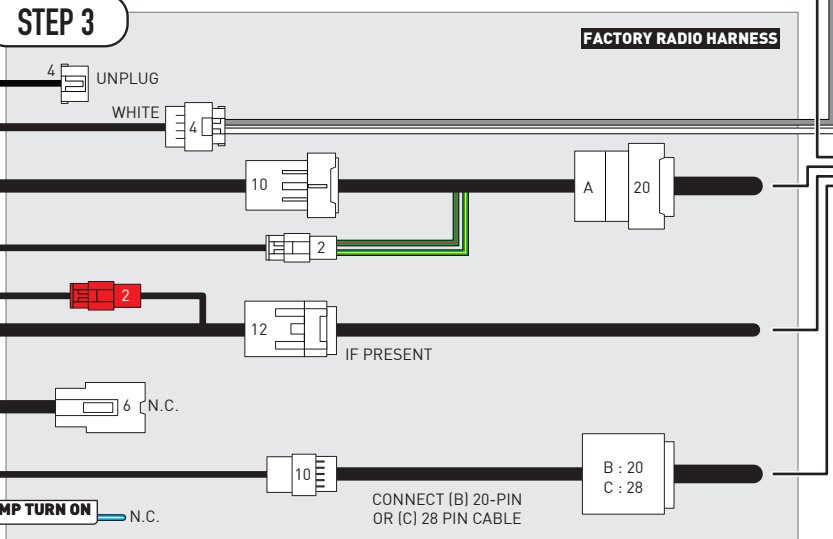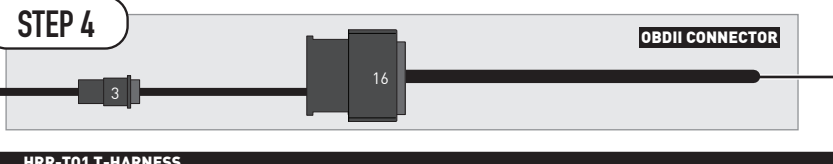
1

WIRING DIAGRAM *with an Amplifier*

STEP 1

WHITE - LF SPEAKER (+)
WHITE/BLACK - LF SPEAKER (-)
GRAY - RF SPEAKER (+)
GRAY/BLACK - RF SPEAKER (-)
GREEN - LR SPEAKER (+)
GREEN/BLACK - LR SPEAKER (-)
PURPLE - RR SPEAKER (+)
PURPLE/BLACK - RR SPEAKER (-)

CONNECTIONS
NOT
REQUIRED
WITH AMP

BLUE/WHITE - AMP. TURN ON (+)
BLACK - GROUND
RED - ACCESSORY (+)
YELLOW - 12V (+)
ORANGE - ILLUMINATION (+)
PINK - VEHICLE SPEED
LTGREEN - E-BRAKE (-)
PURPLE/WHITE - REVERSE LIGHT (+) *

SEE RADIO WIRE
CHART
FOR RADIO
WIRE COLORS

* **ONLY** CONNECT TO RADIO REVERSE INPUT OR MODULE DAMAGE WILL OCCUR

MAIN HARNESS

CONNECT TO AFTERMARKET RADIO

OR

IF WIRES ARE PRESENT ON
ADAPTER: SEE RADIO
REFERENCE CHART

20

IF NOT USING A MAESTRO HEAD UNIT ADAPTER:
CUT AND DISCARD CONNECTOR

HEAD UNIT ADAPTER
SOLD SEPARATELY

STEP 5

STEP 2

REVERSE CAMERA HARNESS

BACKUP CAM

4

F : 24

DATA CABLE **AUDIO CABLE**

RF OUT
LF OUT

STEP 3

FACTORY RADIO HARNESS

4 UNPLUG

WHITE

4

10

A 20

2

WIRES FROM VEHICLE

2

12

IF PRESENT

STEP 6

6 N.C.

18

MAESTRO RR MODULE

10

B : 20
C : 28

CONNECT (B) 20-PIN
OR (C) 28 PIN CABLE

10

AMP TURN ON N.C.

3

STEP 4

OBDII CONNECTOR

4

3

3

16

HRR-T01 T-HARNESS

NOT REQUIRED

10

4

18

4 **STEERING WHEEL CONTROL CABLE**
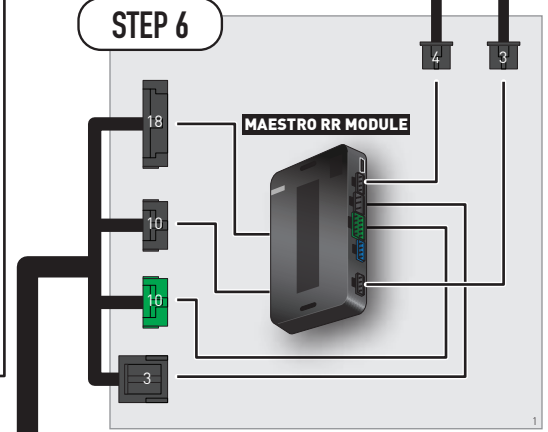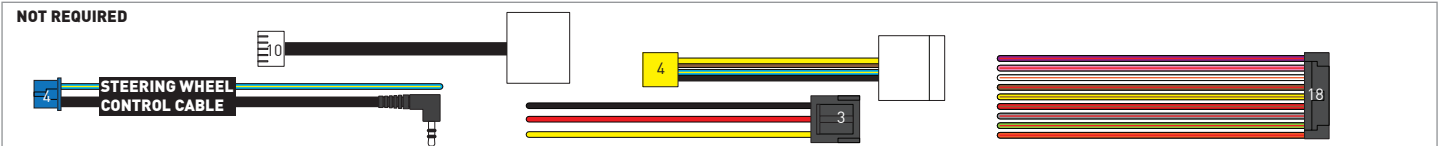
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RADIO WIRE REFERENCE CHART

TO1 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood/ JVC cable	Wire Color on Pioneer cable	Wire Color on Sony cable
Illumination	(+)	Orange	N/A	Orange/White	Orange/White	Orange
Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Head unit adapter wiring (optional accessory, sold separately)

ACC-HU-ALP1 Wire Description	Polarity	Wire Color on Adapter	Alpine Radio
VSS (vehicle speed sensor)	(DATA)	Green/White	Green/White

ACC-HU-KEN1 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
CAM	(+)	Green/Red	Refer to camera/radio manual
CAM	(-)	Green/White	Refer to camera/radio manual
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

ACC-HU-KEN2 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
E-Brake	(-)	LtGreen	LtGreen
Reverse Light*	(+)	Purple/White	Purple/White
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

* Reverse light wire: Only connect to radio or module damage will occur.

MODULE DIAGNOSTICS

PROGRAMMING BUTTON

LED 1

LED 2

LED 1

LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
● or ●		RED or GREEN flashing	LED flashes 1 or more times, either red or green, **when a steering wheel button is pressed** : normal operation.
●		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do <u>NOT</u> use DEMO MODE.
●		2 RED flashes	Problem detected. Consult troubleshooting table.
●		1 GREEN flash	After radio boots up : Normal operation.
	●	3 GREEN flashes	Bluetooth is activated. Turns off after one minute: Normal operation.
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TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	Ensure OBDII connector is securely attached to the OBDII connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the **RED/BROWN** wire is on **PIN 6** and the **YELLOW/BROWN** wire is connected to **PIN 14** of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended. If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options. Reset the RR.
The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on.	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty. Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
The light on the Maestro is blinking **RED TWICE** but the radio is **NOT** turning on.	If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well. Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	Ensure the 20 or 28-pin connector is plugged to the vehicle and to the TO1 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).
(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

Turn the key to the OFF position, then disconnect all connectors from the module.
Press and hold the module's programming button and connect all the connectors back to the module. Wait, the module's LED will flash RED rapidly (this may take up to 10 seconds).
Release the programming button. Wait, the LED will turn solid GREEN for 2 seconds to show the reset was successful.

TECHNICAL ASSISTANCE

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Email: maestro.support@idatalink.com

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maestro **Ar**

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!

OR

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iDatalink Maestro HRR-TO1 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-TOY01-DS

ADDITIONAL RESOURCES

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HEAD UNIT ADAPTER:
ACC-HU-PIO1, SON1, KEN1, KEN2, ALP1

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✉ maestro.support@idatalink.com

INSTALLATION INSTRUCTIONS P1 /1

STEP 1

Remove the factory radio

If using head unit adapter (sold separately), connect HRR-TO1 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-TO1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-TO1 T-harness and match the wire functions.

Note: only connect purple/white wire to radio reverse input or module damage will occur.

STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-TO1 harness to any HRR adapter cable (D, E or F) then cut off the 16 or 24-pin connector. Connect the adapter's wires to reverse camera harness, as shown in wiring diagram.
- Assemble TO1 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-TO1 harness.

STEP 3

- Connect HRR-TO1 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 4

- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (if there is no iDatalink audio input, connect to AUX).
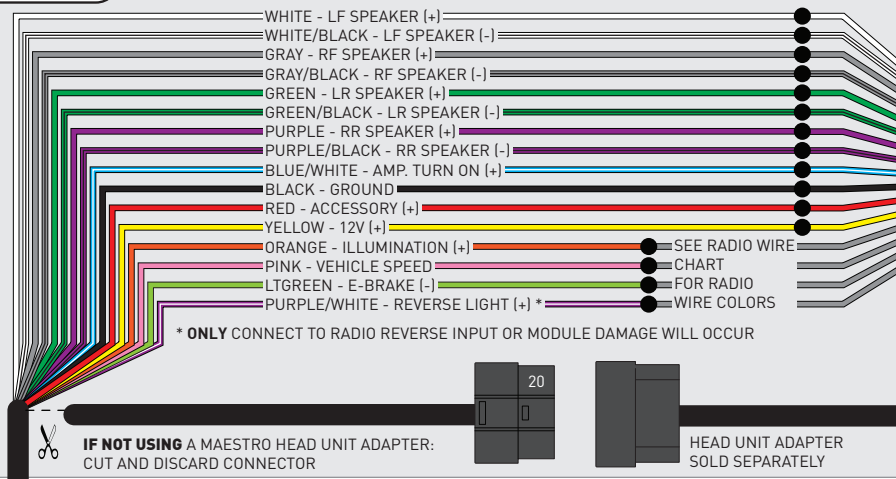
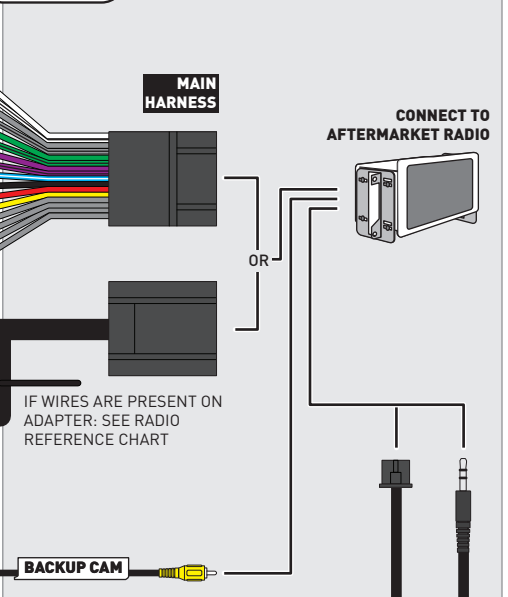**Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

STEP 5

- Connect all the harnesses to the Maestro RR module then test your installation.
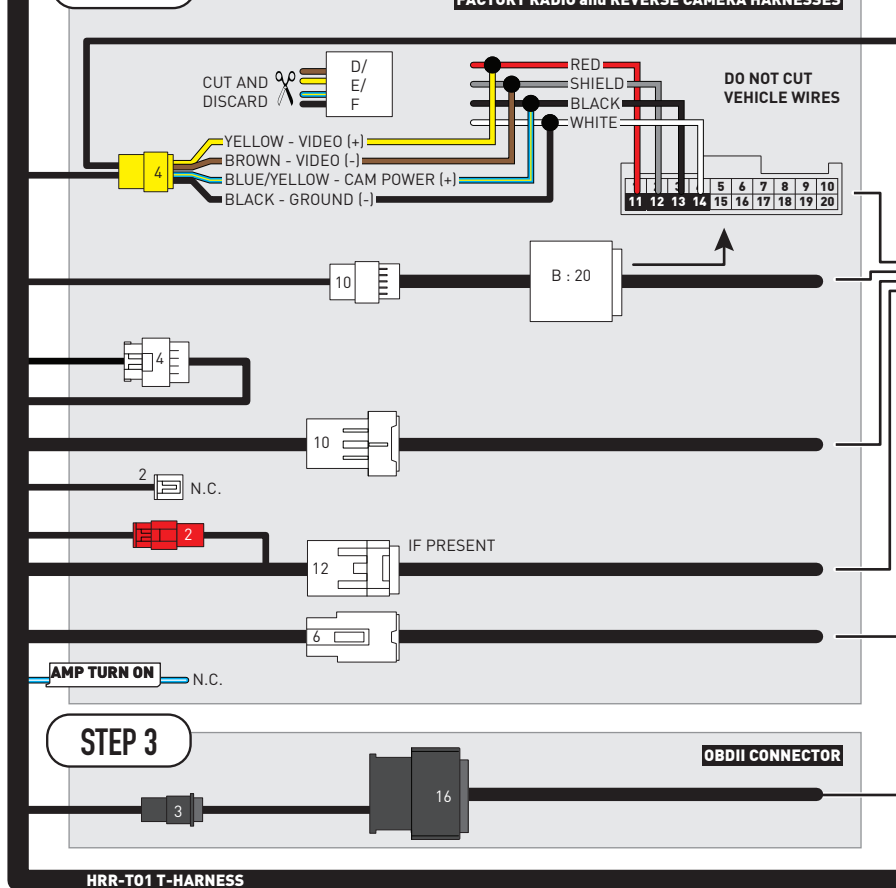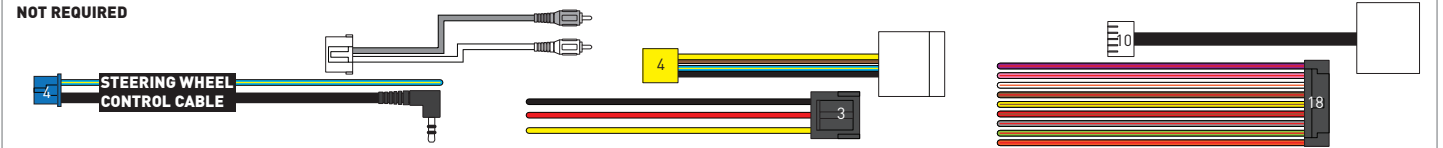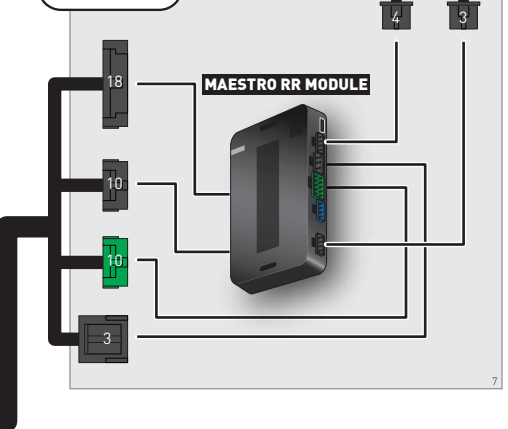
7

WIRING DIAGRAM *without an Amplifier*

STEP 1

WHITE - LF SPEAKER (+)
WHITE/BLACK - LF SPEAKER (-)
GRAY - RF SPEAKER (+)
GRAY/BLACK - RF SPEAKER (-)
GREEN - LR SPEAKER (+)
GREEN/BLACK - LR SPEAKER (-)
PURPLE - RR SPEAKER (+)
PURPLE/BLACK - RR SPEAKER (-)
BLUE/WHITE - AMP. TURN ON (+)
BLACK - GROUND
RED - ACCESSORY (+)
YELLOW - 12V (+)
ORANGE - ILLUMINATION (+) — SEE RADIO WIRE
PINK - VEHICLE SPEED — CHART
LTGREEN - E-BRAKE (-) — FOR RADIO
PURPLE/WHITE - REVERSE LIGHT (+) * — WIRE COLORS

* **ONLY** CONNECT TO RADIO REVERSE INPUT OR MODULE DAMAGE WILL OCCUR

20

IF NOT USING A MAESTRO HEAD UNIT ADAPTER:
CUT AND DISCARD CONNECTOR

HEAD UNIT ADAPTER
SOLD SEPARATELY

STEP 4

MAIN HARNESS

CONNECT TO AFTERMARKET RADIO

OR

IF WIRES ARE PRESENT ON ADAPTER: SEE RADIO REFERENCE CHART

BACKUP CAM

STEP 2

FACTORY RADIO and REVERSE CAMERA HARNESSES

CUT AND DISCARD

D/ E/ F

RED
SHIELD
BLACK
WHITE

DO NOT CUT VEHICLE WIRES

YELLOW - VIDEO (+)
BROWN - VIDEO (-)
BLUE/YELLOW - CAM POWER (+)
BLACK - GROUND (-)

4

11 12 13 14 | 5 6 7 8 9 10 | 15 16 17 18 19 20

10 — B : 20

WIRES FROM VEHICLE

DATA CABLE   AUDIO CABLE

4

10

2 N.C.

2

12 IF PRESENT

6

AMP TURN ON — N.C.

STEP 5

4   **3**

18

MAESTRO RR MODULE

10

10

STEP 3

3 — **16** — OBDII CONNECTOR

3

HRR-T01 T-HARNESS

NOT REQUIRED

4 STEERING WHEEL CONTROL CABLE

4

3

10

18

RADIO WIRE REFERENCE CHART

TO1 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood/ JVC cable	Wire Color on Pioneer cable	Wire Color on Sony cable
Illumination	(+)	Orange	N/A	Orange/White	Orange/White	Orange
Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Head unit adapter wiring (optional accessory, sold separately)

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ACC-HU-KEN1 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
CAM	(+)	Green/Red	Refer to camera/radio manual
CAM	(-)	Green/White	Refer to camera/radio manual
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

ACC-HU-KEN2 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
E-Brake	(-)	LtGreen	LtGreen
Reverse Light*	(+)	Purple/White	Purple/White
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

* Reverse light wire: Only connect to radio or module damage will occur.

MODULE DIAGNOSTICS

PROGRAMMING BUTTON

LED 1

LED 2

LED 1

LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
● or ●		RED or GREEN flashing	LED flashes 1 or more times, either red or green, **when a steering wheel button is pressed** : normal operation.
●		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do <u>NOT</u> use DEMO MODE.
●		2 RED flashes	Problem detected. Consult troubleshooting table.
●		1 GREEN flash	After radio boots up : Normal operation.
	●	3 GREEN flashes	Bluetooth is activated. Turns off after one minute: Normal operation.
●	●	OFF	Normal operation (inactive).

VIDEO HELP		Installation, product information, vehicle specific videos.
VERIFY FLASH		Last flash information, steering control configuration, vehicle information.
WEBLINK		Software to program module.

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	Ensure OBDII connector is securely attached to the OBDII connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the **RED/BROWN** wire is on **PIN 6** and the **YELLOW/BROWN** wire is connected to **PIN 14** of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended. If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options. Reset the RR.
The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on.	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty. Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
The light on the Maestro is blinking **RED TWICE** but the radio is **NOT** turning on.	If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well. Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	Ensure the 20 or 28-pin connector is plugged to the vehicle and to the TO1 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).
(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

Turn the key to the OFF position, then disconnect all connectors from the module.
Press and hold the module's programming button and connect all the connectors back to the module. Wait, the module's LED will flash RED rapidly (this may take up to 10 seconds).
Release the programming button. Wait, the LED will turn solid GREEN for 2 seconds to show the reset was successful.

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

IMPORTANT: To ensure proper operation, the aftermarket radio needs to have the latest firmware from the manufacturer. Please visit the radio manufacturer's website and look for any updates pertaining to your radio.

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!

OR

PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro HRR-TO1 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-TOY01-DS

ADDITIONAL RESOURCES

Maestro RR2 Programmable Outputs Guide

OPTIONAL ACCESSORIES

K40
ELECTRONICS
ESCORT.

Click here for:
Radar Installation Guides

HEAD UNIT ADAPTER:
ACC-HU-PIO1, SON1, KEN1, KEN2, ALP1

NOTICE: Automotive Data Solutions Inc. (ADS) recommends having this installation performed by a certified technician. Logos and trademarks used here in are the properties of their respective owners.

WELCOME

Congratulations on the purchase of your iDatalink Maestro RR Radio replacement solution. You are now a few simple steps away from enjoying your new car radio with enhanced features.

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✉ maestro.support@idatalink.com

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Remove the factory radio

If using head unit adapter (sold separately), connect HRR-TO1 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-TO1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-TO1 T-harness and match the wire functions.

Note: only connect purple/white wire to radio reverse input or module damage will occur.

STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-TO1 harness to appropriate HRR adapter cable (D, E or F) then connect to the backup camera harness.

STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble TO1 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-TO1 harness.

STEP 4

- Connect HRR-TO1 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the left front and right front low level outputs RCA cables into the aftermarket radio.
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (if there is no iDatalink audio input, connect to AUX).
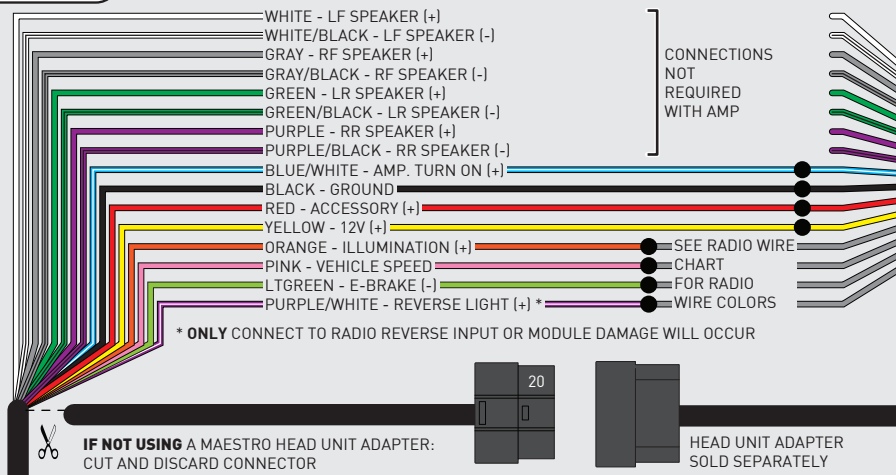
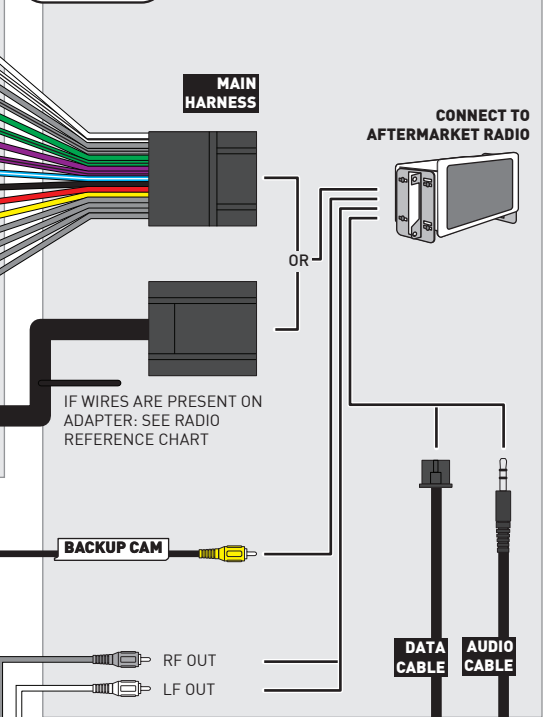Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.

STEP 6

- Connect all the harnesses to the Maestro RR module then test your installation.
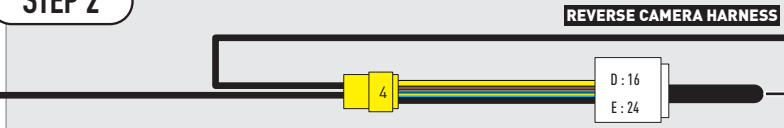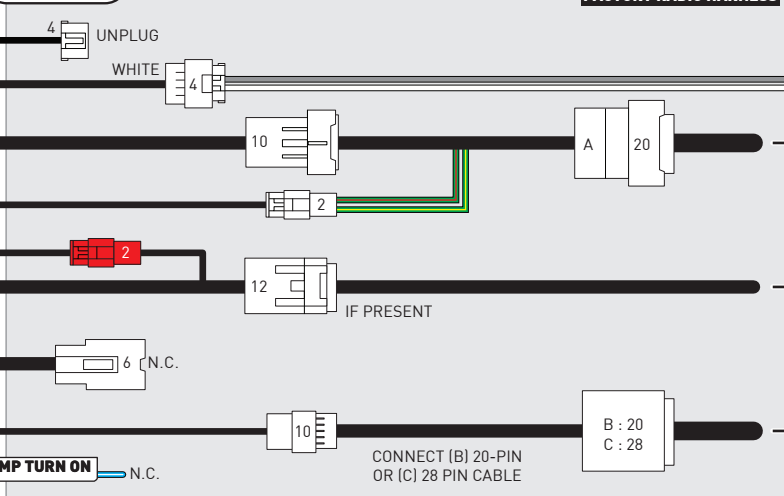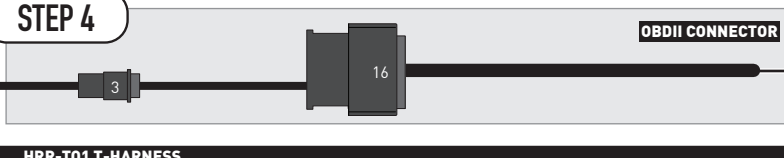
1

WIRING DIAGRAM *with an Amplifier*

STEP 1

WHITE - LF SPEAKER (+)
WHITE/BLACK - LF SPEAKER (-)
GRAY - RF SPEAKER (+)
GRAY/BLACK - RF SPEAKER (-)
GREEN - LR SPEAKER (+)
GREEN/BLACK - LR SPEAKER (-)
PURPLE - RR SPEAKER (+)
PURPLE/BLACK - RR SPEAKER (-)
BLUE/WHITE - AMP. TURN ON (+)
BLACK - GROUND
RED - ACCESSORY (+)
YELLOW - 12V (+)
ORANGE - ILLUMINATION (+)
PINK - VEHICLE SPEED
LTGREEN - E-BRAKE (-)
PURPLE/WHITE - REVERSE LIGHT (+) *

CONNECTIONS
NOT
REQUIRED
WITH AMP

SEE RADIO WIRE
CHART
FOR RADIO
WIRE COLORS

* **ONLY** CONNECT TO RADIO REVERSE INPUT OR MODULE DAMAGE WILL OCCUR

20

IF NOT USING A MAESTRO HEAD UNIT ADAPTER:
CUT AND DISCARD CONNECTOR

HEAD UNIT ADAPTER
SOLD SEPARATELY

STEP 5

MAIN
HARNESS

CONNECT TO
AFTERMARKET RADIO

OR

IF WIRES ARE PRESENT ON
ADAPTER: SEE RADIO
REFERENCE CHART

STEP 2

REVERSE CAMERA HARNESS

BACKUP CAM

4

D : 16
E : 24

RF OUT

LF OUT

DATA
CABLE

AUDIO
CABLE

STEP 3

FACTORY RADIO HARNESS

4   UNPLUG

WHITE

4

10

A   20

2

WIRES FROM
VEHICLE

2

12   IF PRESENT

STEP 6

6   N.C.

10

B : 20
C : 28

CONNECT (B) 20-PIN
OR (C) 28 PIN CABLE

18

MAESTRO RR MODULE

10

AMP TURN ON   N.C.

10

STEP 4

3

16   OBDII CONNECTOR

3

HRR-T01 T-HARNESS

NOT REQUIRED

10

4   STEERING WHEEL
CONTROL CABLE
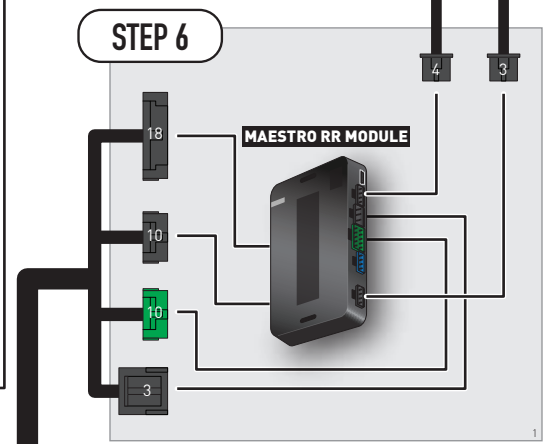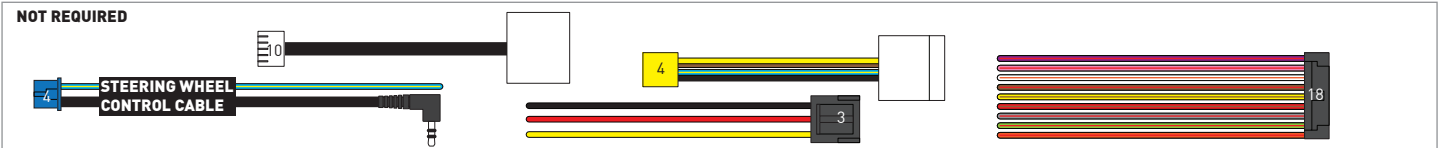
4

3

18

RADIO WIRE REFERENCE CHART

TO1 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood/ JVC cable	Wire Color on Pioneer cable	Wire Color on Sony cable
Illumination	(+)	Orange	N/A	Orange/White	Orange/White	Orange
Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Head unit adapter wiring (optional accessory, sold separately)

ACC-HU-ALP1 Wire Description	Polarity	Wire Color on Adapter	Alpine Radio
VSS (vehicle speed sensor)	(DATA)	Green/White	Green/White

ACC-HU-KEN1 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
CAM	(+)	Green/Red	Refer to camera/radio manual
CAM	(-)	Green/White	Refer to camera/radio manual
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

ACC-HU-KEN2 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
E-Brake	(-)	LtGreen	LtGreen
Reverse Light*	(+)	Purple/White	Purple/White
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

* Reverse light wire: Only connect to radio or module damage will occur.

MODULE DIAGNOSTICS

PROGRAMMING BUTTON

LED 1

LED 2

LED 1

LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
● or ●		RED or GREEN flashing	LED flashes 1 or more times, either red or green, **when a steering wheel button is pressed** : normal operation.
●		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do <u>NOT</u> use DEMO MODE.
●		2 RED flashes	Problem detected. Consult troubleshooting table.
●		1 GREEN flash	After radio boots up : Normal operation.
	●	3 GREEN flashes	Bluetooth is activated. Turns off after one minute: Normal operation.
●	●	OFF	Normal operation (inactive).

VIDEO HELP		Installation, product information, vehicle specific videos.
VERIFY FLASH		Last flash information, steering control configuration, vehicle information.
WEBLINK		Software to program module.

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	Ensure OBDII connector is securely attached to the OBDII connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the **RED/BROWN** wire is on **PIN 6** and the **YELLOW/BROWN** wire is connected to **PIN 14** of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended. If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options. Reset the RR.
The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on.	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty. Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
The light on the Maestro is blinking **RED TWICE** but the radio is **NOT** turning on.	If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well. Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	Ensure the 20 or 28-pin connector is plugged to the vehicle and to the TO1 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).
(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

Turn the key to the OFF position, then disconnect all connectors from the module.
Press and hold the module's programming button and connect all the connectors back to the module. Wait, the module's LED will flash RED rapidly (this may take up to 10 seconds).
Release the programming button. Wait, the LED will turn solid GREEN for 2 seconds to show the reset was successful.

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INSTALL GUIDE

2013-2014
TOYOTA VENZA
WITH JBL

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!

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- Cut and remove the black 20 pin connector from the HRR-TO1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-TO1 T-harness and match the wire functions.

  Note: only connect purple/white wire to radio reverse input or module damage will occur.

STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-TO1 harness to appropriate HRR adapter cable (D, E or F) then connect to the backup camera harness.

STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble TO1 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-TO1 harness.

STEP 4

- Connect HRR-TO1 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the left front and right front low level outputs RCA cables into the aftermarket radio.
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (if there is no iDatalink audio input, connect to AUX).
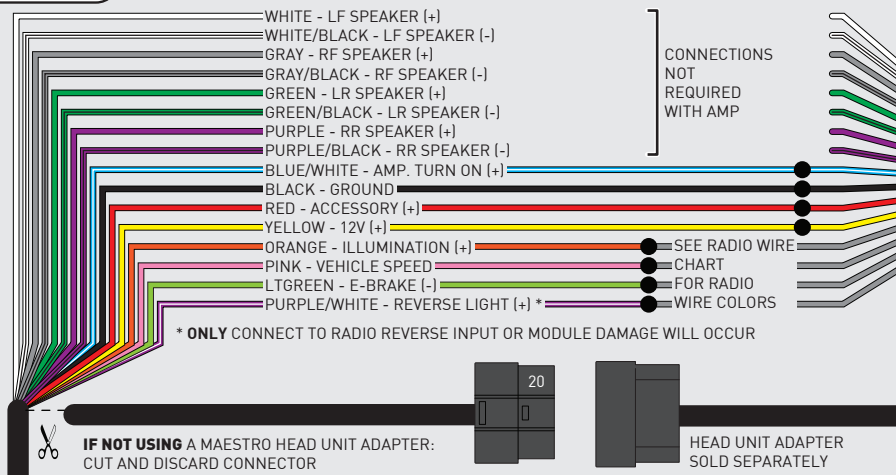
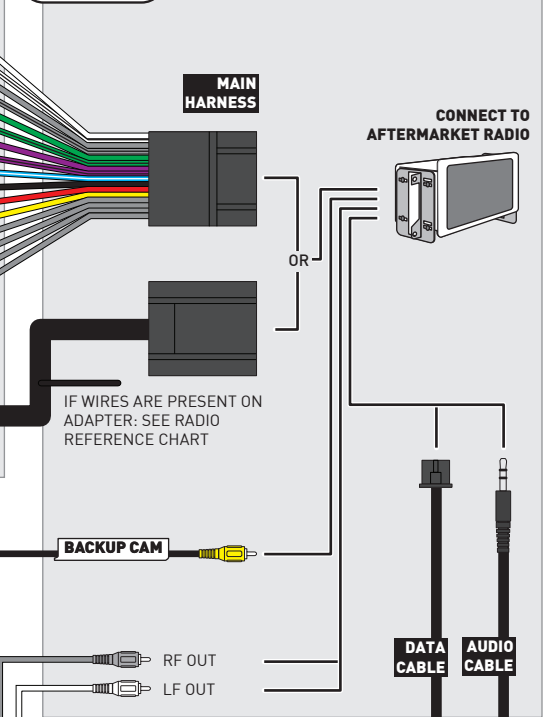Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.

STEP 6

- Connect all the harnesses to the Maestro RR module then test your installation.
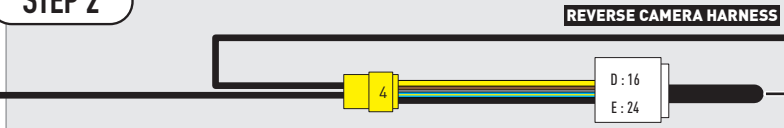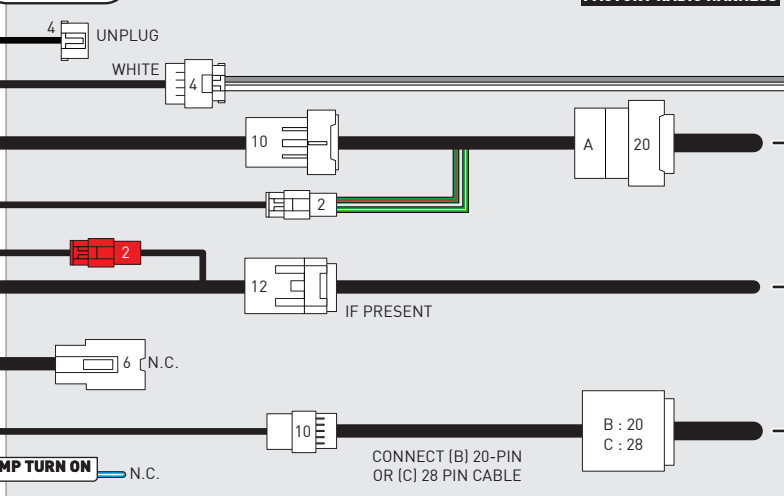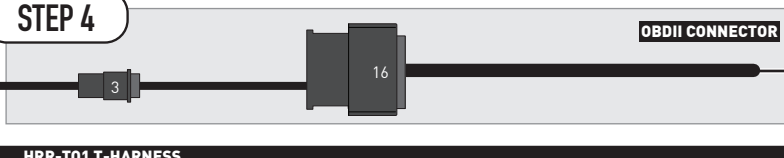
1

WIRING DIAGRAM *with an Amplifier*

STEP 1

WHITE – LF SPEAKER (+)
WHITE/BLACK – LF SPEAKER (-)
GRAY – RF SPEAKER (+)
GRAY/BLACK – RF SPEAKER (-)
GREEN – LR SPEAKER (+)
GREEN/BLACK – LR SPEAKER (-)
PURPLE – RR SPEAKER (+)
PURPLE/BLACK – RR SPEAKER (-)

CONNECTIONS
NOT
REQUIRED
WITH AMP

BLUE/WHITE – AMP. TURN ON (+)
BLACK – GROUND
RED – ACCESSORY (+)
YELLOW – 12V (+)
ORANGE – ILLUMINATION (+)
PINK – VEHICLE SPEED
LTGREEN – E-BRAKE (-)
PURPLE/WHITE – REVERSE LIGHT (+) *

SEE RADIO WIRE
CHART
FOR RADIO
WIRE COLORS

* ONLY CONNECT TO RADIO REVERSE INPUT OR MODULE DAMAGE WILL OCCUR

20

IF NOT USING A MAESTRO HEAD UNIT ADAPTER:
CUT AND DISCARD CONNECTOR

HEAD UNIT ADAPTER
SOLD SEPARATELY

STEP 5

MAIN
HARNESS

CONNECT TO
AFTERMARKET RADIO

OR

IF WIRES ARE PRESENT ON
ADAPTER: SEE RADIO
REFERENCE CHART

STEP 2

REVERSE CAMERA HARNESS

BACKUP CAM

4

D : 16
E : 24

RF OUT

LF OUT

DATA
CABLE

AUDIO
CABLE

STEP 3

FACTORY RADIO HARNESS

4   UNPLUG

WHITE

4

10

2

2

12   IF PRESENT

6   N.C.

10

AMP TURN ON   N.C.

A   20

B : 20
C : 28

CONNECT (B) 20-PIN
OR (C) 28 PIN CABLE

WIRES FROM
VEHICLE

STEP 6

18

10

10

3

MAESTRO RR MODULE

4   3

STEP 4

3

16

OBDII CONNECTOR

HRR-T01 T-HARNESS

NOT REQUIRED

10

4

STEERING WHEEL
CONTROL CABLE
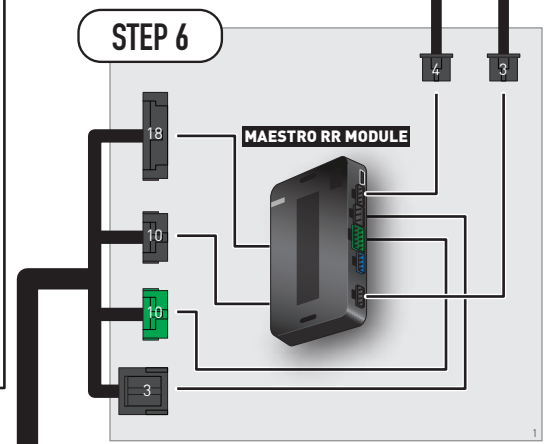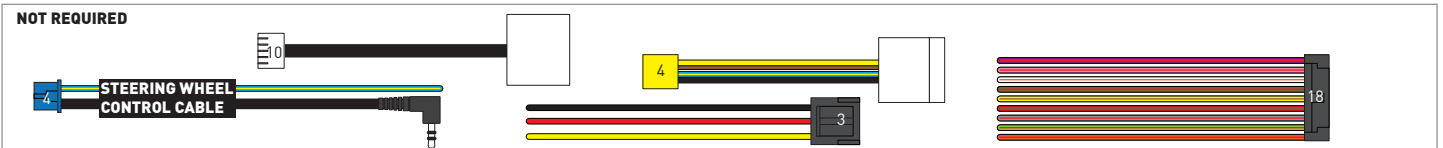
4

3

18

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Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Head unit adapter wiring (optional accessory, sold separately)

ACC-HU-ALP1 Wire Description	Polarity	Wire Color on Adapter	Alpine Radio
VSS (vehicle speed sensor)	(DATA)	Green/White	Green/White

ACC-HU-KEN1 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
CAM	(+)	Green/Red	Refer to camera/radio manual
CAM	(-)	Green/White	Refer to camera/radio manual
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

ACC-HU-KEN2 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
E-Brake	(-)	LtGreen	LtGreen
Reverse Light*	(+)	Purple/White	Purple/White
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

* Reverse light wire: Only connect to radio or module damage will occur.

MODULE DIAGNOSTICS

PROGRAMMING BUTTON

LED 1

LED 2

LED 1

LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
● or ●		RED or GREEN flashing	LED flashes 1 or more times, either red or green, **when a steering wheel button is pressed** : normal operation.
●		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do <u>NOT</u> use DEMO MODE.
●		2 RED flashes	Problem detected. Consult troubleshooting table.
●		1 GREEN flash	After radio boots up : Normal operation.
	●	3 GREEN flashes	Bluetooth is activated. Turns off after one minute: Normal operation.
●	●	OFF	Normal operation (inactive).

[VIDEO HELP](#)		Installation, product information, vehicle specific videos.
[VERIFY FLASH](#)		Last flash information, steering control configuration, vehicle information.
[WEBLINK](#)		Software to program module.

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	Ensure OBDII connector is securely attached to the OBDII connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the **RED/BROWN** wire is on **PIN 6** and the **YELLOW/BROWN** wire is connected to **PIN 14** of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended. If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options. Reset the RR.
The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on.	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty. Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
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The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	Ensure the 20 or 28-pin connector is plugged to the vehicle and to the TO1 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).
(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

Turn the key to the OFF position, then disconnect all connectors from the module.
Press and hold the module's programming button and connect all the connectors back to the module. Wait, the module's LED will flash RED rapidly (this may take up to 10 seconds).
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maestro *Rr*

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STEP 1

Remove the factory radio

If using head unit adapter (sold separately), connect HRR-TO1 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-TO1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-TO1 T-harness and match the wire functions.

  Note: only connect purple/white wire to radio reverse input or module damage will occur.

STEP 2

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble TO1 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-TO1 harness.

STEP 3

- Connect HRR-TO1 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 4

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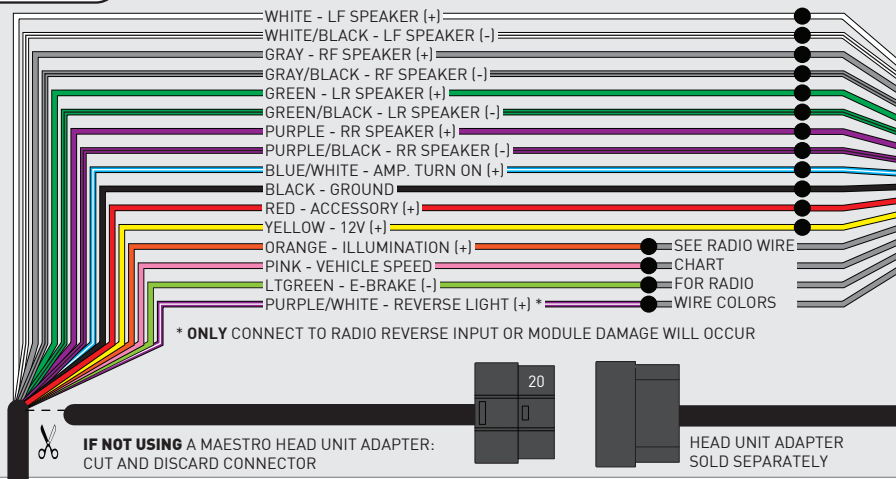
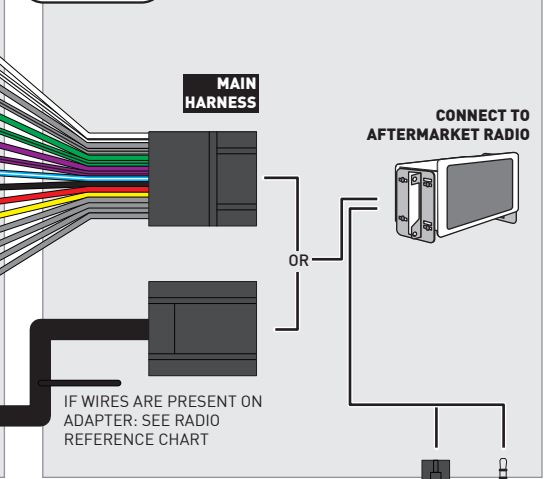 **Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

STEP 5

- Connect all the harnesses to the Maestro RR module then test your installation.
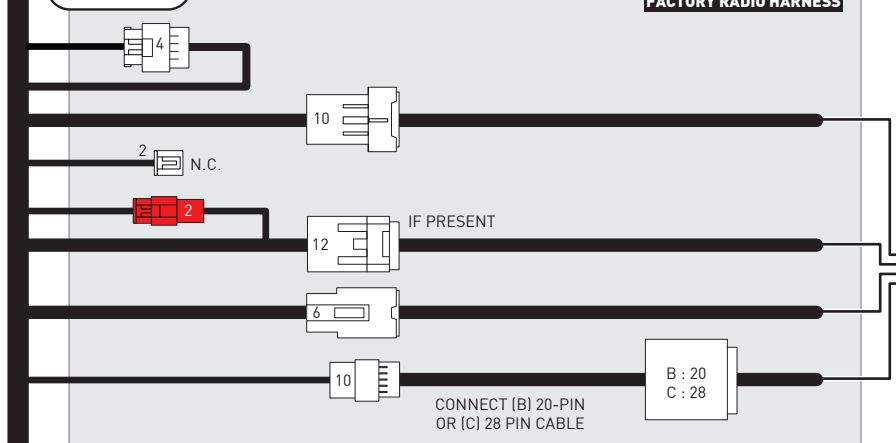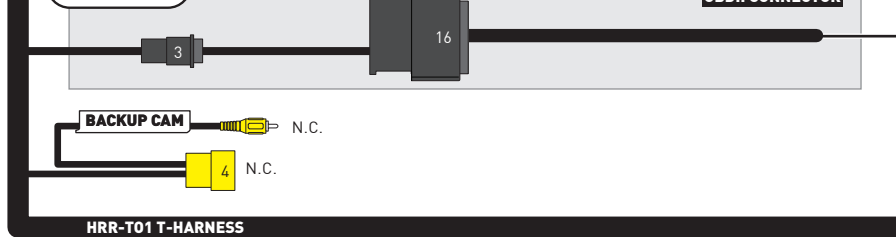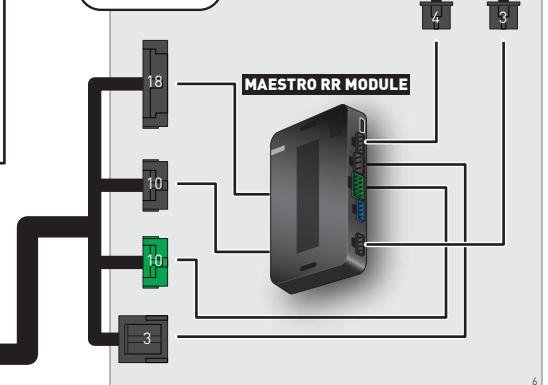
WIRING DIAGRAM *without an Amplifier*

STEP 1

- WHITE - LF SPEAKER (+)
- WHITE/BLACK - LF SPEAKER (-)
- GRAY - RF SPEAKER (+)
- GRAY/BLACK - RF SPEAKER (-)
- GREEN - LR SPEAKER (+)
- GREEN/BLACK - LR SPEAKER (-)
- PURPLE - RR SPEAKER (+)
- PURPLE/BLACK - RR SPEAKER (-)
- BLUE/WHITE - AMP. TURN ON (+)
- BLACK - GROUND
- RED - ACCESSORY (+)
- YELLOW - 12V (+)
- ORANGE - ILLUMINATION (+) — SEE RADIO WIRE
- PINK - VEHICLE SPEED — CHART
- LTGREEN - E-BRAKE (-) — FOR RADIO
- PURPLE/WHITE - REVERSE LIGHT (+) * — WIRE COLORS

* **ONLY** CONNECT TO RADIO REVERSE INPUT OR MODULE DAMAGE WILL OCCUR

20

IF NOT USING A MAESTRO HEAD UNIT ADAPTER:
CUT AND DISCARD CONNECTOR

HEAD UNIT ADAPTER
SOLD SEPARATELY

STEP 4

MAIN HARNESS

CONNECT TO AFTERMARKET RADIO

OR

IF WIRES ARE PRESENT ON
ADAPTER: SEE RADIO
REFERENCE CHART

STEP 2

FACTORY RADIO HARNESS

4

10

2 N.C.

2

12 IF PRESENT

6

10 CONNECT (B) 20-PIN
OR (C) 28 PIN CABLE

B : 20
C : 28

WIRES FROM VEHICLE

AMP TURN ON — N.C.

STEP 3

3

16 OBDII CONNECTOR

BACKUP CAM — N.C.

4 N.C.

HRR-TO1 T-HARNESS

DATA CABLE

AUDIO CABLE

STEP 5

4

3

18

10

10

3

MAESTRO RR MODULE

6

NOT REQUIRED

10

STEERING WHEEL CONTROL CABLE

4

4

4

4

D
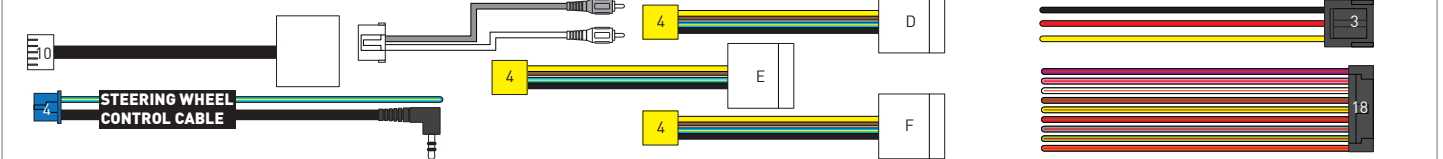
E

F

3

18

RADIO WIRE REFERENCE CHART

TO1 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood/ JVC cable	Wire Color on Pioneer cable	Wire Color on Sony cable
Illumination	(+)	Orange	N/A	Orange/White	Orange/White	Orange
Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Head unit adapter wiring (optional accessory, sold separately)

ACC-HU-ALP1 Wire Description	Polarity	Wire Color on Adapter	Alpine Radio
VSS (vehicle speed sensor)	(DATA)	Green/White	Green/White

ACC-HU-KEN1 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
CAM	(+)	Green/Red	Refer to camera/radio manual
CAM	(-)	Green/White	Refer to camera/radio manual
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

ACC-HU-KEN2 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
E-Brake	(-)	LtGreen	LtGreen
Reverse Light*	(+)	Purple/White	Purple/White
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

* Reverse light wire: Only connect to radio or module damage will occur.

MODULE DIAGNOSTICS

PROGRAMMING BUTTON

LED 1

LED 2

LED 1

LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
● or ●		RED or GREEN flashing	LED flashes 1 or more times, either red or green, **when a steering wheel button is pressed** : normal operation.
●		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do <u>NOT</u> use DEMO MODE.
●		2 RED flashes	Problem detected. Consult troubleshooting table.
●		1 GREEN flash	After radio boots up : Normal operation.
	●	3 GREEN flashes	Bluetooth is activated. Turns off after one minute: Normal operation.
●	●	OFF	Normal operation (inactive).

VIDEO HELP		Installation, product information, vehicle specific videos.
VERIFY FLASH		Last flash information, steering control configuration, vehicle information.
WEBLINK		Software to program module.

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	Ensure OBDII connector is securely attached to the OBDII connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the **RED/BROWN** wire is on **PIN 6** and the **YELLOW/BROWN** wire is connected to **PIN 14** of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended. If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options. Reset the RR.
The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on.	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty. Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
The light on the Maestro is blinking **RED TWICE** but the radio is **NOT** turning on.	If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well. Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	Ensure the 20 or 28-pin connector is plugged to the vehicle and to the TO1 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).
(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

Turn the key to the OFF position, then disconnect all connectors from the module.
Press and hold the module's programming button and connect all the connectors back to the module. Wait, the module's LED will flash RED rapidly (this may take up to 10 seconds).
Release the programming button. Wait, the LED will turn solid GREEN for 2 seconds to show the reset was successful.

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

IMPORTANT: To ensure proper operation, the aftermarket radio needs to have the latest firmware from the manufacturer. Please visit the radio manufacturer's website and look for any updates pertaining to your radio.

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!

OR

PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro HRR-TO1 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-TOY01-DS

ADDITIONAL RESOURCES

Maestro RR2 Programmable Outputs Guide

OPTIONAL ACCESSORIES

![K40 ELECTRONICS logo] ![ESCORT logo]

Click here for:
Radar Installation Guides

HEAD UNIT ADAPTER:
ACC-HU-PIO1, SON1, KEN1, KEN2, ALP1

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WELCOME

Congratulations on the purchase of your iDatalink Maestro RR Radio replacement solution. You are now a few simple steps away from enjoying your new car radio with enhanced features.

Before starting your installation, please ensure that your iDatalink Maestro module is programmed with the correct firmware for your vehicle and that you carefully review the install guide.

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TABLE OF CONTENTS

NEED HELP?

📞 1 866 427-2999

✉ maestro.support@idatalink.com

INSTALLATION INSTRUCTIONS <small>P1 /1</small>

STEP 1

Remove the factory radio

If using head unit adapter (sold separately), connect HRR-TO1 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-TO1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-TO1 T-harness and match the wire functions.

Note: only connect purple/white wire to radio reverse input or module damage will occur.

STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-TO1 harness to appropriate HRR adapter cable (D, E or F) then connect to the backup camera harness.

STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble TO1 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-TO1 harness.

STEP 4

- Connect HRR-TO1 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (if there is no iDatalink audio input, connect to AUX).
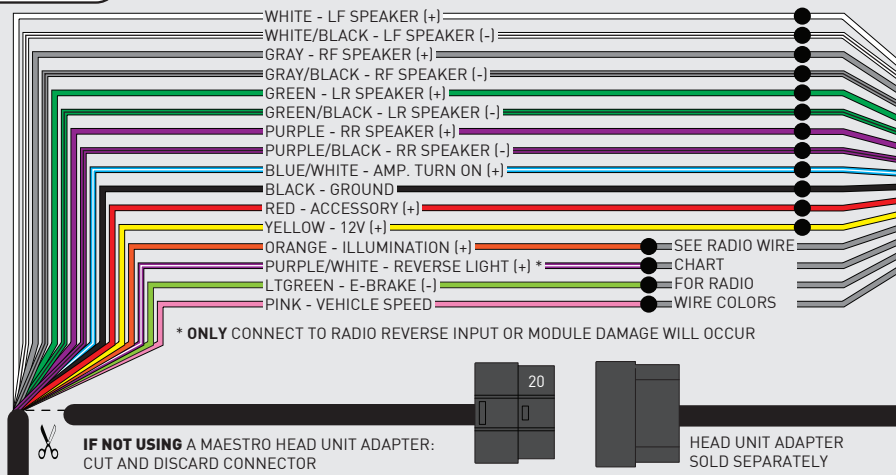
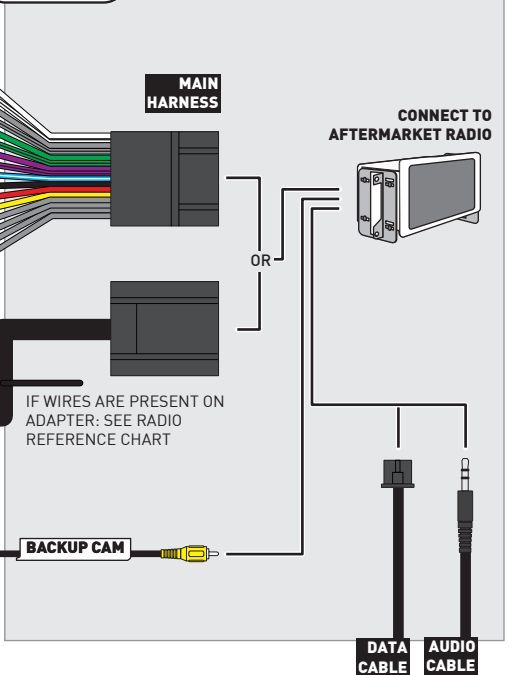**Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

STEP 6

- Connect all the harnesses to the Maestro RR module then test your installation.
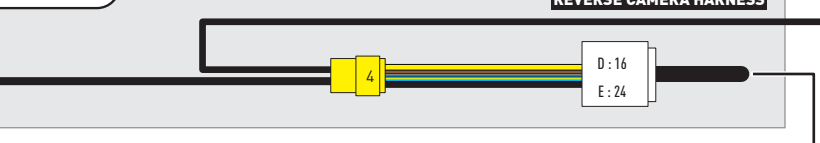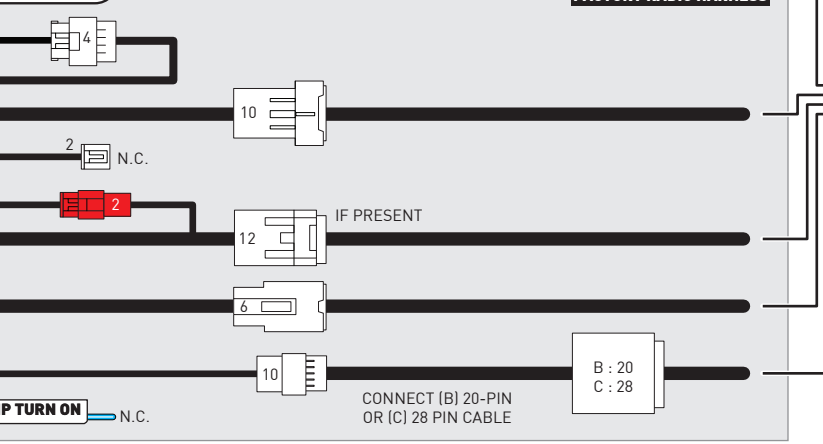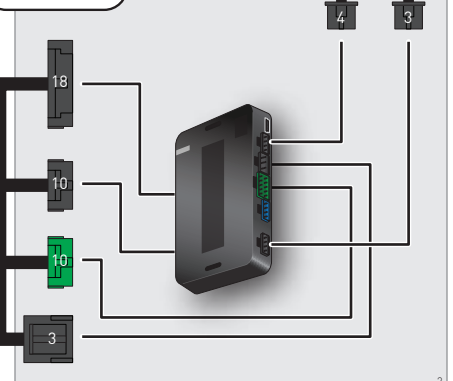
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WIRING DIAGRAM *without an Amplifier*

STEP 1

WHITE - LF SPEAKER (+)
WHITE/BLACK - LF SPEAKER (-)
GRAY - RF SPEAKER (+)
GRAY/BLACK - RF SPEAKER (-)
GREEN - LR SPEAKER (+)
GREEN/BLACK - LR SPEAKER (-)
PURPLE - RR SPEAKER (+)
PURPLE/BLACK - RR SPEAKER (-)
BLUE/WHITE - AMP. TURN ON (+)
BLACK - GROUND
RED - ACCESSORY (+)
YELLOW - 12V (+)
ORANGE - ILLUMINATION (+)   SEE RADIO WIRE
PURPLE/WHITE - REVERSE LIGHT (+) *   CHART
LTGREEN - E-BRAKE (-)   FOR RADIO
PINK - VEHICLE SPEED   WIRE COLORS

* **ONLY** CONNECT TO RADIO REVERSE INPUT OR MODULE DAMAGE WILL OCCUR

20

IF NOT USING A MAESTRO HEAD UNIT ADAPTER:
CUT AND DISCARD CONNECTOR

HEAD UNIT ADAPTER
SOLD SEPARATELY

STEP 5

MAIN
HARNESS

CONNECT TO
AFTERMARKET RADIO

OR

IF WIRES ARE PRESENT ON
ADAPTER: SEE RADIO
REFERENCE CHART

STEP 2

REVERSE CAMERA HARNESS

BACKUP CAM

4   D : 16
     E : 24

DATA   AUDIO
CABLE   CABLE

STEP 3

FACTORY RADIO HARNESS

4

10

2   N.C.

2

12   IF PRESENT

6

10   B : 20
      C : 28

CONNECT (B) 20-PIN
OR (C) 28 PIN CABLE

AMP TURN ON   N.C.

WIRES FROM
VEHICLE

STEP 6

4   3

18

10

10

3

STEP 4

OBDII CONNECTOR

3   16

HRR-T01 T-HARNESS

NOT REQUIRED

10

4   STEERING WHEEL
    CONTROL CABLE

18
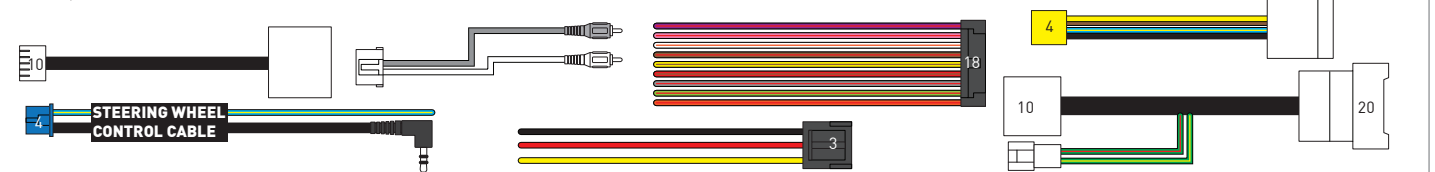
3

4

10

20

RADIO WIRE REFERENCE CHART

TO1 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood/ JVC cable	Wire Color on Pioneer cable	Wire Color on Sony cable
Illumination	(+)	Orange	N/A	Orange/White	Orange/White	Orange
Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
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VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Head unit adapter wiring (optional accessory, sold separately)

ACC-HU-ALP1 Wire Description	Polarity	Wire Color on Adapter	Alpine Radio
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ACC-HU-KEN1 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
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ACC-HU-KEN2 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
E-Brake	(-)	LtGreen	LtGreen
Reverse Light*	(+)	Purple/White	Purple/White
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

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MODULE DIAGNOSTICS

PROGRAMMING BUTTON

LED 1

LED 2

LED 1

LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
● or ●		RED or GREEN flashing	LED flashes 1 or more times, either red or green, **when a steering wheel button is pressed** : normal operation.
●		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do <u>NOT</u> use DEMO MODE.
●		2 RED flashes	Problem detected. Consult troubleshooting table.
●		1 GREEN flash	After radio boots up : Normal operation.
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VIDEO HELP		Installation, product information, vehicle specific videos.
VERIFY FLASH		Last flash information, steering control configuration, vehicle information.
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(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

Turn the key to the OFF position, then disconnect all connectors from the module.
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RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!

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STEP 4

MAIN HARNESS

CONNECT TO AFTERMARKET RADIO

OR

IF WIRES ARE PRESENT ON ADAPTER: SEE RADIO REFERENCE CHART

STEP 2

FACTORY RADIO HARNESS

4

10

2 — N.C.

2

12 — IF PRESENT

6

10 — CONNECT (B) 20-PIN OR (C) 28 PIN CABLE

B : 20
C : 28

WIRES FROM VEHICLE

AMP TURN ON — N.C.

STEP 3

OBDII CONNECTOR

3

16

BACKUP CAM — N.C.

4 — N.C.

HRR-TO1 T-HARNESS

STEP 5

DATA CABLE

AUDIO CABLE

4

3

18

MAESTRO RR MODULE

10

10

3

6

NOT REQUIRED

0

4 — **STEERING WHEEL CONTROL CABLE**

4 — D

4 — E
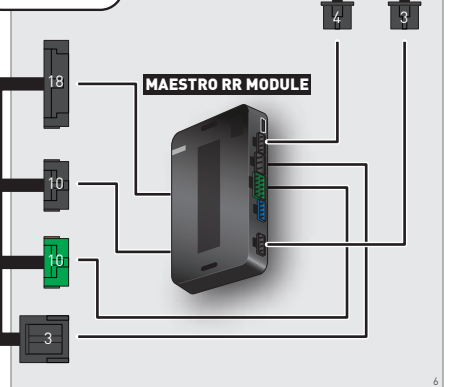
4 — F
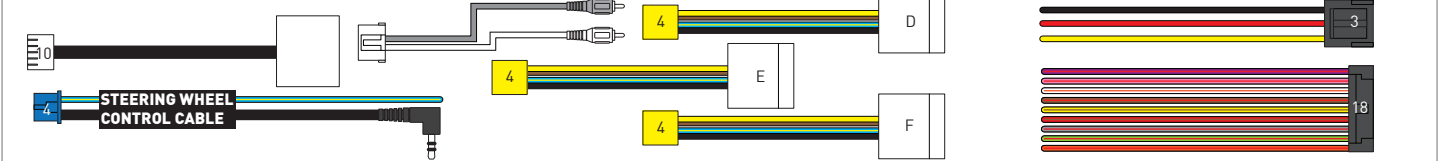
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IMPORTANT: To ensure proper operation, the aftermarket radio needs to have the latest firmware from the manufacturer. Please visit the radio manufacturer's website and look for any updates pertaining to your radio.

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!

OR

PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro HRR-TO1 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-TOY01-DS

ADDITIONAL RESOURCES

Maestro RR2 Programmable Outputs Guide

OPTIONAL ACCESSORIES

Click here for:
Radar Installation Guides

HEAD UNIT ADAPTER:
ACC-HU-PIO1, SON1, KEN1, KEN2, ALP1

NOTICE: Automotive Data Solutions Inc. (ADS) recommends having this installation performed by a certified technician. Logos and trademarks used here in are the properties of their respective owners.

WELCOME

Congratulations on the purchase of your iDatalink Maestro RR Radio replacement solution. You are now a few simple steps away from enjoying your new car radio with enhanced features.

Before starting your installation, please ensure that your iDatalink Maestro module is programmed with the correct firmware for your vehicle and that you carefully review the install guide.

Please note that Maestro RR will only retain functionalities that were originally available in the vehicle.

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NEED HELP?

📞 1 866 427-2999

✉ maestro.support@idatalink.com

INSTALLATION INSTRUCTIONS P1/1

STEP 1

Remove the factory radio

If using head unit adapter (sold separately), connect HRR-TO1 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-TO1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-TO1 T-harness and match the wire functions.

  Note: only connect purple/white wire to radio reverse input or module damage will occur.

STEP 2

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble TO1 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-TO1 harness.

STEP 3

- Connect HRR-TO1 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 4

- Plug the harnesses into the aftermarket radio.
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (if there is no iDatalink audio input, connect to AUX).
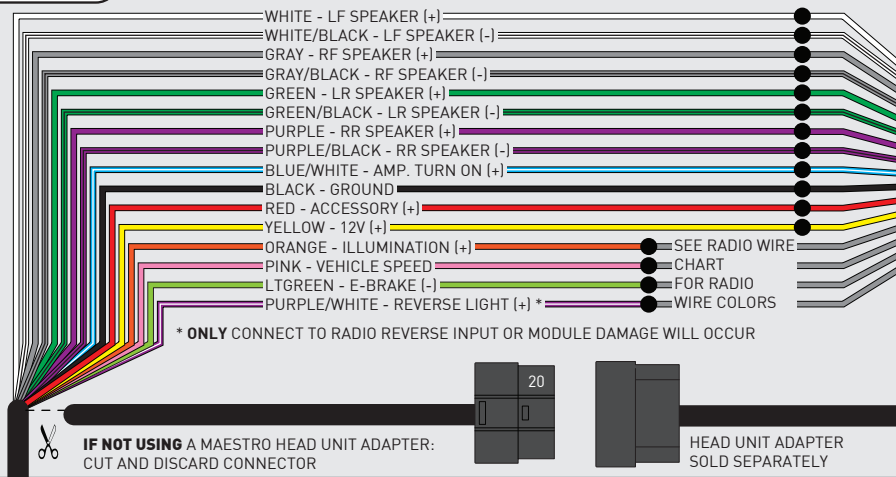
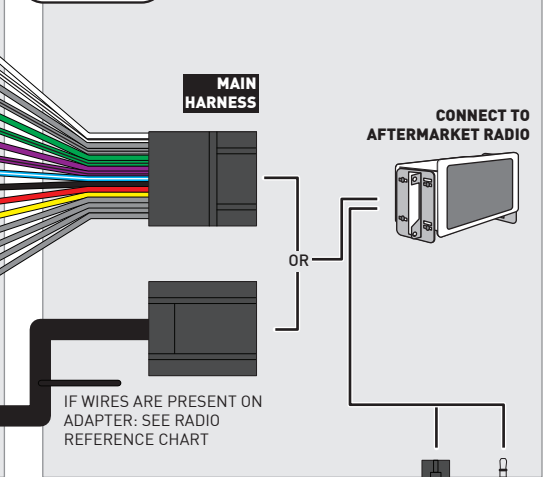 **Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

STEP 5

- Connect all the harnesses to the Maestro RR module then test your installation.
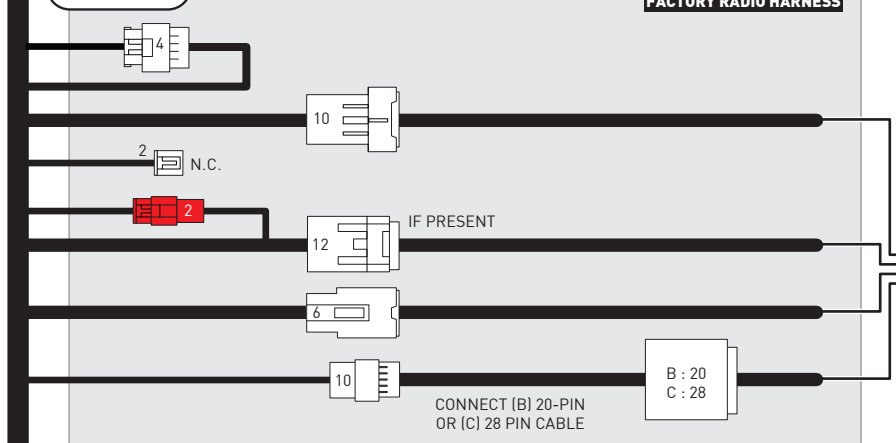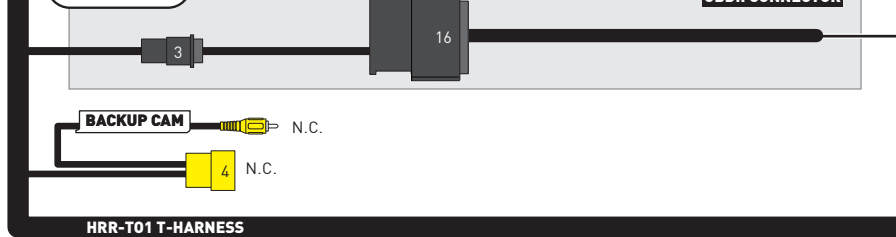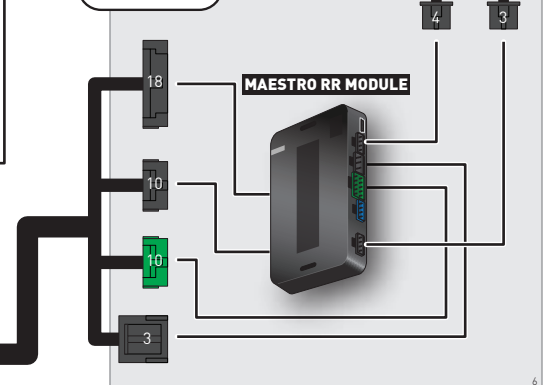
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WIRING DIAGRAM *without an Amplifier*

STEP 1

WHITE - LF SPEAKER (+)
WHITE/BLACK - LF SPEAKER (-)
GRAY - RF SPEAKER (+)
GRAY/BLACK - RF SPEAKER (-)
GREEN - LR SPEAKER (+)
GREEN/BLACK - LR SPEAKER (-)
PURPLE - RR SPEAKER (+)
PURPLE/BLACK - RR SPEAKER (-)
BLUE/WHITE - AMP. TURN ON (+)
BLACK - GROUND
RED - ACCESSORY (+)
YELLOW - 12V (+)
ORANGE - ILLUMINATION (+) — SEE RADIO WIRE
PINK - VEHICLE SPEED — CHART
LTGREEN - E-BRAKE (-) — FOR RADIO
PURPLE/WHITE - REVERSE LIGHT (+) * — WIRE COLORS

* ONLY CONNECT TO RADIO REVERSE INPUT OR MODULE DAMAGE WILL OCCUR

IF NOT USING A MAESTRO HEAD UNIT ADAPTER:
CUT AND DISCARD CONNECTOR

20

HEAD UNIT ADAPTER
SOLD SEPARATELY

STEP 4

MAIN HARNESS

CONNECT TO
AFTERMARKET RADIO

OR

IF WIRES ARE PRESENT ON
ADAPTER: SEE RADIO
REFERENCE CHART

STEP 2

FACTORY RADIO HARNESS

4

10

2 N.C.

2

12 IF PRESENT

6

10 CONNECT (B) 20-PIN
OR (C) 28 PIN CABLE

B : 20
C : 28

WIRES FROM
VEHICLE

AMP TURN ON N.C.

STEP 3

16 OBDII CONNECTOR

3

BACKUP CAM N.C.

4 N.C.

HRR-T01 T-HARNESS

DATA
CABLE

AUDIO
CABLE

STEP 5

4

3

18

10

MAESTRO RR MODULE

10

3

6

NOT REQUIRED

10

STEERING WHEEL
CONTROL CABLE

4

4

4

4

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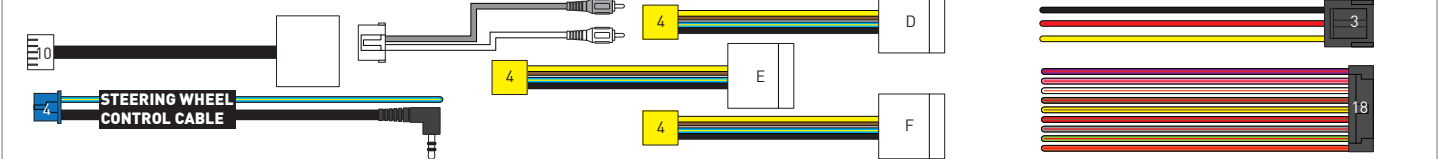
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RADIO WIRE REFERENCE CHART

TO1 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood/JVC cable	Wire Color on Pioneer cable	Wire Color on Sony cable
Illumination	(+)	Orange	N/A	Orange/White	Orange/White	Orange
Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Head unit adapter wiring (optional accessory, sold separately)

ACC-HU-ALP1 Wire Description	Polarity	Wire Color on Adapter	Alpine Radio
VSS (vehicle speed sensor)	(DATA)	Green/White	Green/White

ACC-HU-KEN1 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
CAM	(+)	Green/Red	Refer to camera/radio manual
CAM	(-)	Green/White	Refer to camera/radio manual
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

ACC-HU-KEN2 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
E-Brake	(-)	LtGreen	LtGreen
Reverse Light*	(+)	Purple/White	Purple/White
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

* Reverse light wire: Only connect to radio or module damage will occur.

MODULE DIAGNOSTICS

LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
● or ●		RED or GREEN flashing	LED flashes 1 or more times, either red or green, **when a steering wheel button is pressed** : normal operation.
●		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do <u>NOT</u> use DEMO MODE.
●		2 RED flashes	Problem detected. Consult troubleshooting table.
●		1 GREEN flash	After radio boots up : Normal operation.
	●	3 GREEN flashes	Bluetooth is activated. Turns off after one minute: Normal operation.
●	●	OFF	Normal operation (inactive).

VIDEO HELP		Installation, product information, vehicle specific videos.
VERIFY FLASH		Last flash information, steering control configuration, vehicle information.
WEBLINK		Software to program module.

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	Ensure OBDII connector is securely attached to the OBDII connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the **RED/BROWN** wire is on **PIN 6** and the **YELLOW/BROWN** wire is connected to **PIN 14** of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended. If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options. Reset the RR.
The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on.	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty. Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
The light on the Maestro is blinking **RED TWICE** but the radio is **NOT** turning on.	If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well. Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	Ensure the 20 or 28-pin connector is plugged to the vehicle and to the TO1 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).
(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

Turn the key to the OFF position, then disconnect all connectors from the module.
Press and hold the module's programming button and connect all the connectors back to the module. Wait, the module's LED will flash RED rapidly (this may take up to 10 seconds).
Release the programming button. Wait, the LED will turn solid GREEN for 2 seconds to show the reset was successful.

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

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