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.

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.
INSTALL GUIDE
SCION IM
2016
RETAINS FACTORY AMPLIFIER, STEERING WHEEL CONTROLS, AND MORE!

PRODUCTS REQUIRED
iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro TO1 Installation Harness

PROGRAMMED FIRMWARE
ADS-RR(SR)-TOY01-DS

OPTIONAL ACCESSORIES
Click here for:
Radar Integration Installation Guide
Radar Integration Owner’s Guide for Kenwood and JVC Radios

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

<table>
<thead>
<tr>
<th>Installation Instructions</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wiring Diagram</td>
<td>4</td>
</tr>
<tr>
<td>Radio Wire Reference Chart</td>
<td>5</td>
</tr>
<tr>
<td>Vehicle Wire Reference Chart</td>
<td>6</td>
</tr>
</tbody>
</table>

NEED HELP?

1 866 427-2999

maestro.support@adsdata.ca

maestro.idatalink.com/support
www.12voltdata.com/forum
INSTALLATION INSTRUCTIONS

STEP 1
- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
- Remove the factory radio.

STEP 2
- If the vehicle is equipped with an OEM backup camera, connect the TO1 T-harness to the backup camera harness [see wire chart for details].

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 TO1 T-harness.

STEP 4
- Plug the OBDII connector into the OBDII of the vehicle, under driver dash.

STEP 5
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the auxiliary RCA cables 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.

NOTE:
In Pioneer radios: plug Audio cable in auxiliary input of the radio.

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

TROUBLESHOOTING TIPS:
- To reset the module back its factory settings, 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.
- For technical assistance call 1-866-427-2999 or e-mail “maestro.support@idatalink.com”. Visit us at “maestro.idatalink.com/support” and “www.12voltdata.com/forum/”
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 (+)
- **YELLOW/BLACK** - FOOT BRAKE
- **ORANGE** - ILLUMINATION (+)
- **PURPLE/WHITE** - REVERSE LIGHT (+)
- **LTGREN** - E-BRAKE (-)
- **PINK** - VEHICLE SPEED
- **LTGREEN** - E-BRAKE (-)
- **BLUE/WHITE** - AMP. TURN ON (+)
- **YELLOW** - VIDEO (+)
- **BROWN** - VIDEO (-)
- **BLUE/YELLOW** - CAM. POWER (+)
- **BLACK** - GROUND (-)

**STEP 2**

- **REVERSE CAM. HARNESS**

**STEP 3**

- **FACTORY RADIO HARNESS**

**STEP 4**

- **OBDII CONNECTOR**

**STEP 5**

- **MAIN HARNESS**

**STEP 6**

- **TO1 T-HARNESS**

- **CONNECT TO AFTERMARKET RADIO**

- **RCA CABLES**

- **DATA CABLE**

- **AUX IN**

- **BACKUP CAM**

CONNECT 20 OR 28 PIN CABLE

SEE AFTERMARKET RADIO GUIDE FOR RADIO WIRE COLORS

WHIRE FROM VEHICLE
## RADIO WIRE REFERENCE CHART

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Polarity</th>
<th>Wire Color on Maestro T-Harness</th>
<th>Wire Color on Alpine cable</th>
<th>Wire Color on Kenwood cable</th>
<th>Wire Color on Pioneer cable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Illumination</td>
<td>(+)</td>
<td>Orange</td>
<td>N/A</td>
<td>Orange/White</td>
<td>Orange/White</td>
</tr>
<tr>
<td>Reverse Light</td>
<td>(+)</td>
<td>Purple/White</td>
<td>Orange/White</td>
<td>Purple/White</td>
<td>Purple/White</td>
</tr>
<tr>
<td>E-Brake</td>
<td>(-)</td>
<td>Lt Green</td>
<td>Yellow/Blue</td>
<td>Lt Green</td>
<td>Lt Green</td>
</tr>
<tr>
<td>Foot Brake</td>
<td>(+)</td>
<td>Yellow/Black</td>
<td>Yellow/Black</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>VSS [vehicle speed sensor]</td>
<td>[DATA]</td>
<td>Pink</td>
<td>Green/White</td>
<td>N/A</td>
<td>Pink</td>
</tr>
</tbody>
</table>
# VEHICLE WIRE REFERENCE CHART

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Connector Name</th>
<th>Connector Color</th>
<th>Connector Type</th>
<th>Position</th>
<th>Wire Color</th>
<th>Polarity</th>
<th>Wire Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Camera Power</td>
<td>–</td>
<td>–</td>
<td>24 pin</td>
<td>11</td>
<td>Red</td>
<td>[+       ]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Ground</td>
<td>–</td>
<td>–</td>
<td>24 pin</td>
<td>23</td>
<td>Shield</td>
<td>[-]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Video +</td>
<td>–</td>
<td>–</td>
<td>24 pin</td>
<td>12</td>
<td>Black</td>
<td>[+       ]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Video -</td>
<td>–</td>
<td>–</td>
<td>24 pin</td>
<td>24</td>
<td>White</td>
<td>[-]</td>
<td>Reverse camera harness</td>
</tr>
</tbody>
</table>

**REVERSE CAMERA CONNECTORS**

![Diagram of reverse camera connectors]
INSTALL GUIDE
SCION IQ
2012-2015
RETAINS FACTORY AMPLIFIER, STEERING WHEEL CONTROLS, AND MORE!

PRODUCTS REQUIRED
iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro TO1 Installation Harness

PROGRAMMED FIRMWARE
ADS-RR(SR)-TOY01-DS

OPTIONAL ACCESSORIES
Click here for:
Radar Integration Installation Guide
Radar Integration Owner's Guide for Kenwood and JVC Radios

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@adsdata.ca
maestro.idatalink.com/support
www.12voltdata.com/forum

TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>Installation Instructions</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wiring Diagram</td>
<td>4</td>
</tr>
<tr>
<td>Radio Wire Reference Chart</td>
<td>5</td>
</tr>
<tr>
<td>Vehicle Wire Reference Chart</td>
<td>6</td>
</tr>
</tbody>
</table>
INSTALLATION INSTRUCTIONS

STEP 1

• Unbox the aftermarket radio and locate its main harness.
• Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
• Remove the factory radio.

STEP 2

• If the vehicle is equipped with an OEM backup camera, connect the TO1 T-harness to the backup camera harness (see wire chart for details).

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 TO1 T-harness.

STEP 4

• Plug the OBDII connector into the OBDII of the vehicle, under driver dash.

STEP 5

• Plug the aftermarket radio harnesses into the aftermarket radio.
• Connect the backup camera RCA cable into the aftermarket radio (if equipped).
• Connect the auxiliary RCA cables 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.

NOTE:
In Pioneer radios: plug Audio cable in auxiliary input of the radio.

STEP 6

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

TROUBLESHOOTING TIPS:
• To reset the module back its factory settings, 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.
• For technical assistance call 1-866-427-2999 or e-mail “maestro.support@idatalink.com”. Visit us at “maestro.idatalink.com/support” and “www.12voltdata.com/forum/”
# RADIO WIRE REFERENCE CHART

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Polarity</th>
<th>Wire Color on Maestro T-Harness</th>
<th>Wire Color on Alpine cable</th>
<th>Wire Color on Kenwood cable</th>
<th>Wire Color on Pioneer cable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Illumination (+)</td>
<td>Orange</td>
<td>N/A</td>
<td>Orange/White</td>
<td>Orange/White</td>
<td>Orange/White</td>
</tr>
<tr>
<td>Reverse Light (+)</td>
<td>Purple/White</td>
<td>Orange/White</td>
<td>Purple/White</td>
<td>Purple/White</td>
<td>Purple/White</td>
</tr>
<tr>
<td>E-Brake (-)</td>
<td>Lt Green</td>
<td>Yellow/Blue</td>
<td>Lt Green</td>
<td>Lt Green</td>
<td>Lt Green</td>
</tr>
<tr>
<td>Foot Brake (+)</td>
<td>Yellow/Black</td>
<td>Yellow/Black</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>VSS (vehicle speed sensor) [DATA]</td>
<td>Pink</td>
<td>Green/White</td>
<td>N/A</td>
<td>Pink</td>
<td></td>
</tr>
</tbody>
</table>
VEHICLE WIRE REFERENCE CHART

REVERSE CAMERA NOT AVAILABLE / NOT PRESENT
INSTALL GUIDE
SCION TC
2007-2016

RETAINS FACTORY AMPLIFIER, STEERING WHEEL CONTROLS, AND MORE!

PRODUCTS REQUIRED
iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro TO1 Installation Harness

OPTIONAL ACCESSORIES
Click here for:
Radar Integration Installation Guide
Radar Integration Owner’s Guide for Kenwood and JVC Radios

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@adsdata.ca

maestro.idatalink.com/support

www.12voltdata.com/forum

TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>Contents</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installation Instructions</td>
<td>3</td>
</tr>
<tr>
<td>Wiring Diagram</td>
<td>4</td>
</tr>
<tr>
<td>Radio Wire Reference Chart</td>
<td>5</td>
</tr>
<tr>
<td>Vehicle Wire Reference Chart</td>
<td>6</td>
</tr>
</tbody>
</table>
INSTALLATION INSTRUCTIONS

STEP 1
- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
- Remove the factory radio.

STEP 2
- If the vehicle is equipped with an OEM backup camera, connect the TO1 T-harness to the backup camera harness (see wire chart for details).

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 TO1 T-harness.

STEP 4
- Plug the OBDII connector into the OBDII of the vehicle, under driver dash.

STEP 5
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the auxiliary RCA cables 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.

NOTE:
In Pioneer radios: plug Audio cable in auxiliary input of the radio.

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

TROUBLESHOOTING TIPS:
- To reset the module back to its factory settings, 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.
- For technical assistance call 1-866-427-2999 or e-mail “maestro.support@idatalink.com”. Visit us at “maestro.idatalink.com/support” and “www.12voltdata.com/forum/”
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 (+)
- BLUE/WHITE - AMP. TURN ON (-)
- RED - ACCESSORY (+)
- YELLOW - 12V (+)
- ORANGE - ILLUMINATION (+)
- PURPLE/WHITE - REVERSE LIGHT (+)
- LT GREEN - E-BRAKE (-)
- PINK - VEHICLE SPEED
- LT GREEN - E-BRAKE (-)
- BLUE/WHITE - AMP. TURN ON (+)
- BLUE/WHITE - AMP. TURN ON (-)
- BLACK - GROUND
- YELLOW/BLACK - FOOT BRAKE

**STEP 2**

- SEE AFTERMARKET RADIO GUIDE FOR RADIO WIRE COLORS
- SEE WIRE CHART

**STEP 3**

- FACTORY RADIO HARNESS

**STEP 4**

- OBDII CONNECTOR

**STEP 5**

- MAIN HARNESS
- RCA CABLES
- AUDIO CABLE
- DATA CABLE

**STEP 6**

- CONNECT TO AFTERMARKET RADIO
- WIRES FROM VEHICLE
- CONNECT 20 OR 28 PIN CABLE
- MAESTRO RR MODULE

**CONNECT 20 OR 28 PIN CABLE**
# RADIO WIRE REFERENCE CHART

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Polarity</th>
<th>Wire Color on Maestro T-Harness</th>
<th>Wire Color on Alpine cable</th>
<th>Wire Color on Kenwood cable</th>
<th>Wire Color on Pioneer cable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Illumination (+)</td>
<td>Orange</td>
<td>N/A</td>
<td>Orange/White</td>
<td>Orange/White</td>
<td>Orange/White</td>
</tr>
<tr>
<td>Reverse Light (+)</td>
<td>Purple/White</td>
<td>Orange/White</td>
<td>Purple/White</td>
<td>Purple/White</td>
<td>Purple/White</td>
</tr>
<tr>
<td>E-Brake (-)</td>
<td>Lt Green</td>
<td>Yellow/Blue</td>
<td>Lt Green</td>
<td>Lt Green</td>
<td>Lt Green</td>
</tr>
<tr>
<td>Foot Brake (+)</td>
<td>Yellow/Black</td>
<td>Yellow/Black</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>VSS [vehicle speed sensor] [DATA]</td>
<td>Pink</td>
<td>Green/White</td>
<td>N/A</td>
<td>Pink</td>
<td></td>
</tr>
</tbody>
</table>
VEHICLE WIRE REFERENCE CHART

REVERSE CAMERA NOT AVAILABLE / NOT PRESENT
INSTALL GUIDE
SCION XB
2008-2016
RETAINS FACTORY AMPLIFIER, STEERING WHEEL CONTROLS, AND MORE!

PRODUCTS REQUIRED
iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro TO1 Installation Harness

OPTIONAL ACCESSORIES
Click here for:
Radar Integration Installation Guide
Radar Integration Owner’s Guide for Kenwood and JVC Radios

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

| Installation Instructions | 3 |
| Wiring Diagram            | 4 |
| Radio Wire Reference Chart| 5 |
| Vehicle Wire Reference Chart| 6 |

NEED HELP?

1 866 427-2999

maestro.support@adsdata.ca

maestro.idatalink.com/support

www.12voltdata.com/forum
INSTALLATION INSTRUCTIONS

STEP 1

- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
- Remove the factory radio.

STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the TO1 T-harness to the backup camera harness (see wire chart for details).

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 TO1 T-harness.

STEP 4

- Plug the OBDII connector into the OBDII of the vehicle, under driver dash.

STEP 5

- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the auxiliary RCA cables 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.

NOTE:
In Pioneer radios: plug Audio cable in auxiliary input of the radio.

STEP 6

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

TROUBLESHOOTING TIPS:

- To reset the module back its factory settings, 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.
- For technical assistance call 1-866-427-2999 or e-mail “maestro.support@idatalink.com”. Visit us at “maestro.idatalink.com/support” and “www.12voltdata.com/forum/”
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 (+)
- YELLOW/BLACK - FOOT BRAKE
- LT GREEN - E-BRAKE (-)
- BLUE/WHITE - AMP. TURN ON (+)

STEP 2

- BLUE/YELLOW - CAM. POWER (+)
- BLACK - GROUND (-)

STEP 3

- FACTORY RADIO HARNESS
- CONNECT IF EQUIPPED

STEP 4

- OBDII CONNECTOR

STEP 5

- MAIN HARNESS
- CONNECT TO AFTERMARKET RADIO
- RCA CABLES

STEP 6

- WIRES FROM VEHICLE
- MAESTRO RR MODULE
- AUDIO CABLE
- DATA CABLE

SEE AFTERMARKET RADIO GUIDE FOR RADIO WIRE COLORS

SEE WIRE CHART

CONNECT 20 OR 28 PIN CABLE

YELLOW - VIDEO (+)
BROWN - VIDEO (-)

WIRING DIAGRAM for RADIO WIRE COLORS

GREEN - LR SPEAKER (+)
GREEN/BLACK - LR SPEAKER (-)
PURPLE/BLACK - RR SPEAKER (-)
PURPLE - RR SPEAKER (+)
WHITE - LF SPEAKER (+)
WHITE/BLACK - LF SPEAKER (-)
GRAY - RF SPEAKER (+)
GRAY/BLACK - RF SPEAKER (-)
YELLOW - 12V (+)
ORANGE - ILLUMINATION (+)
YELLOW/BLACK - FOOT BRAKE
LT GREEN - E-BRAKE (-)
BLUE/WHITE - AMP. TURN ON (+)

CONNECT 20 OR 28 PIN CABLE
## RADIO WIRE REFERENCE CHART

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Polarity</th>
<th>Wire Color on Maestro T-Harness</th>
<th>Wire Color on Alpine cable</th>
<th>Wire Color on Kenwood cable</th>
<th>Wire Color on Pioneer cable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Illumination</td>
<td>(+)</td>
<td>Orange</td>
<td>N/A</td>
<td>Orange/White</td>
<td>Orange/White</td>
</tr>
<tr>
<td>Reverse Light</td>
<td>(+)</td>
<td>Purple/White</td>
<td>Orange/White</td>
<td>Purple/White</td>
<td>Purple/White</td>
</tr>
<tr>
<td>E-Brake</td>
<td>(-)</td>
<td>Lt Green</td>
<td>Yellow/Blue</td>
<td>Lt Green</td>
<td>Lt Green</td>
</tr>
<tr>
<td>Foot Brake</td>
<td>(+)</td>
<td>Yellow/Black</td>
<td>Yellow/Black</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>VSS [vehicle speed sensor]</td>
<td>[DATA]</td>
<td>Pink</td>
<td>Green/White</td>
<td>N/A</td>
<td>Pink</td>
</tr>
</tbody>
</table>
VEHICLE WIRE REFERENCE CHART

REVERSE CAMERA NOT AVAILABLE / NOT PRESENT
INSTALL GUIDE
SCION XD
2008-2014
RETAINS FACTORY AMPLIFIER, STEERING WHEEL CONTROLS, AND MORE!

PRODUCTS REQUIRED
iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro TO1 Installation Harness

OPTIONAL ACCESSORIES
Click here for:
Radar Integration Installation Guide
Radar Integration Owner’s Guide for Kenwood and JVC Radios

PROGRAMMED FIRMWARE
ADS-RR(SR)-TOY01-DS

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

<table>
<thead>
<tr>
<th>Installation Instructions</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wiring Diagram</td>
<td>4</td>
</tr>
<tr>
<td>Radio Wire Reference Chart</td>
<td>5</td>
</tr>
<tr>
<td>Vehicle Wire Reference Chart</td>
<td>6</td>
</tr>
</tbody>
</table>

NEED HELP?

1 866 427-2999

maestro.support@adsdata.ca

maestro.idatalink.com/support
www.12voltdata.com/forum
INSTALLATION INSTRUCTIONS

STEP 1

• Unbox the aftermarket radio and locate its main harness.
• Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
• Remove the factory radio.

STEP 2

• If the vehicle is equipped with an OEM backup camera, connect the TO1 T-harness to the backup camera harness (see wire chart for details).

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 TO1 T-harness.

STEP 4

• Plug the OBDII connector into the OBDII of the vehicle, under driver dash.

STEP 5

• Plug the aftermarket radio harnesses into the aftermarket radio.
• Connect the backup camera RCA cable into the aftermarket radio (if equipped).
• Connect the auxiliary RCA cables 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.

NOTE:
In Pioneer radios: plug Audio cable in auxiliary input of the radio.

STEP 6

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

TROUBLESHOOTING TIPS:

• To reset the module back its factory settings, 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.
• For technical assistance call 1-866-427-2999 or e-mail “maestro.support@idatalink.com”. Visit us at “maestro.idatalink.com/support” and “www.12voltdata.com/forum/”
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 (+)
- BLUE/WHITE - AMP. TURN ON (-)
- RED - ACCESSORY (+)
- YELLOW - 12V (+)
- BLACK - GROUND
- ORANGE - ILLUMINATION (+)
- YELLOW/BLACK - FOOT BRAKE
- LTGREEN - E-BRAKE (-)
- BLUE/WHITE - AMP. TURN ON (+)
- BLUE/WHITE - AMP. TURN ON (-)

STEP 2

- REVERSE CAMERA HARNESS
- BLUE/YELLOW - CAM. POWER (+)
- BLACK - GROUND (-)

STEP 3

- FACTORY RADIO HARNESS
- YELLOW - VIDEO (+)
- BROWN - VIDEO (-)

STEP 4

- OBDII CONNECTOR

STEP 5

- MAIN HARNESS
- RCA CABLES

STEP 6

- WIRES FROM VEHICLE
- CONNECT 20 OR 28 PIN CABLE

- MAESTRO RR MODULE

- AUDIO CABLE
- DATA CABLE
- AUX IN
- BACKUP CAM
### RADIO WIRE REFERENCE CHART

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Polarity</th>
<th>Wire Color on Maestro T-Harness</th>
<th>Wire Color on Alpine cable</th>
<th>Wire Color on Kenwood cable</th>
<th>Wire Color on Pioneer cable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Illumination (+)</td>
<td>Orange</td>
<td>N/A</td>
<td>Orange/White</td>
<td>Orange/White</td>
<td>Orange/White</td>
</tr>
<tr>
<td>Reverse Light (+)</td>
<td>Purple/White</td>
<td>Orange/White</td>
<td>Purple/White</td>
<td>Purple/White</td>
<td>Purple/White</td>
</tr>
<tr>
<td>E-Brake (-)</td>
<td>Lt Green</td>
<td>Yellow/Blue</td>
<td>Lt Green</td>
<td>Lt Green</td>
<td>Lt Green</td>
</tr>
<tr>
<td>Foot Brake (+)</td>
<td>Yellow/Black</td>
<td>Yellow/Black</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>VSS (vehicle speed sensor)</td>
<td>[DATA]</td>
<td>Pink</td>
<td>Green/White</td>
<td>N/A</td>
<td>Pink</td>
</tr>
</tbody>
</table>
VEHICLE WIRE REFERENCE CHART

REVERSE CAMERA NOT AVAILABLE / NOT PRESENT
INSTALL GUIDE
TOYOTA 4 RUNNER
WITH JBL 2005-2011
RETAINS FACTORY AMPLIFIER, STEERING WHEEL CONTROLS, AND MORE!

PRODUCTS REQUIRED
iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro TO1 Installation Harness

OPTIONAL ACCESSORIES
Click here for:
Radar Integration Installation Guide
Radar Integration Owner’s Guide for Kenwood and JVC Radios

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@adsdata.ca
maestro.idatalink.com/support
www.12voltdata.com/forum

TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>Topic</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installation Instructions</td>
<td>3</td>
</tr>
<tr>
<td>Wiring Diagram</td>
<td>4</td>
</tr>
<tr>
<td>Radio Wire Reference Chart</td>
<td>5</td>
</tr>
<tr>
<td>Vehicle Wire Reference Chart</td>
<td>6</td>
</tr>
</tbody>
</table>
INSTALLATION INSTRUCTIONS

STEP 1

• Unbox the aftermarket radio and locate its main harness.
• Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
• Remove the factory radio.

STEP 2

• If the vehicle is equipped with an OEM backup camera, connect the TO1 T-harness to the backup camera harness (see wire chart for details).

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 TO1 T-harness.

STEP 4

• Plug the OBDII connector into the OBDII of the vehicle, under driver dash.

STEP 5

• Plug the aftermarket radio harnesses into the aftermarket radio.
• Connect the backup camera RCA cable into the aftermarket radio (if equipped).
• Connect the auxiliary RCA cables 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.

NOTE:
In Pioneer radios: plug Audio cable in auxiliary input of the radio.

STEP 6

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

TROUBLESHOOTING TIPS:
• To reset the module back its factory settings, 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.
• For technical assistance call 1-866-427-2999 or e-mail "maestro.support@idatalink.com". Visit us at "maestro.idatalink.com/support" and "www.12voltdata.com/forum/"
WIRING DIAGRAM with an Amplifier

**STEP 1**
- WHITE - LF SPEAKER (+)
- WHITE/BLACK - LF SPEAKER (-)
- GRAY/BLACK - RF SPEAKER (+)
- GREEN - LR SPEAKER (+)
- GREEN/BLACK - LR SPEAKER (-)
- PURPLE - RR SPEAKER (+)
- PURPLE/BLACK - RR SPEAKER (-)
- BLUE/WHITE - AMP. TURN ON (+)
- YELLOW - 12V (+)
- BLACK - GROUND
- RED - ACCESSORY (+)
- YELLOW/BLACK - FOOT BRAKE
- ORANGE - ILLUMINATION (+)
- LT GREEN - E-BRAKE (-)
- BLUE/WHITE - AMP. TURN ON (-)
- YELLOW - VIDEO (+)
- BROWN - VIDEO (-)

**STEP 2**
- REVERSE CAMERA HARNESS
- BLUE/YELLOW - CAM. POWER (+)
- BLACK - GROUND (-)
- YELLOW - VIDEO (+)
- BROWN - VIDEO (-)

**STEP 3**
- FACTORY RADIO HARNESS
- CONNECT AMP. ADAPTER
- GREEN - LR SPEAKER (+)
- GREEN/BLACK - LR SPEAKER (-)
- PURPLE/BLACK - RR SPEAKER (-)
- PURPLE - RR SPEAKER (+)
- WHITE - LF SPEAKER (+)
- WHITE/BLACK - LF SPEAKER (-)
- GRAY - RF SPEAKER (+)
- GRAY/BLACK - RF SPEAKER (-)
- RED - ACCESSORY (+)
- YELLOW/BLACK - FOOT BRAKE
- ORANGE - ILLUMINATION (+)
- LT GREEN - E-BRAKE (-)
- BLUE/WHITE - AMP. TURN ON (+)
- YELLOW - VIDEO (+)
- BROWN - VIDEO (-)

**STEP 4**
- OBDII CONNECTOR
- CONNECT 20 OR 28 PIN CABLE
- WHITE - LF SPEAKER (+)
- WHITE/BLACK - LF SPEAKER (-)
- GRAY - RF SPEAKER (+)
- GRAY/BLACK - RF SPEAKER (-)
- RED - ACCESSORY (+)
- YELLOW/BLACK - FOOT BRAKE
- ORANGE - ILLUMINATION (+)
- LT GREEN - E-BRAKE (-)
- BLUE/WHITE - AMP. TURN ON (+)
- YELLOW - VIDEO (+)
- BROWN - VIDEO (-)

**STEP 5**
- MAIN HARNESS
- CONNECT TO AFTERMARKET RADIO
- AUDI CABLE
- RCA CABLES
- WIRE CHART

**STEP 6**
- CONNECT TO LF AND RF LOW LEVEL OUTPUTS
- CONNECT 20 OR 28 PIN CABLE
- AUDIO CABLE
- DATA CABLE
## RADIO WIRE REFERENCE CHART

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Polarity</th>
<th>Wire Color on Maestro T-Harness</th>
<th>Wire Color on Alpine cable</th>
<th>Wire Color on Kenwood cable</th>
<th>Wire Color on Pioneer cable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Illumination (+)</td>
<td>Orange</td>
<td>N/A</td>
<td>Orange/White</td>
<td>Orange/White</td>
<td>Orange/White</td>
</tr>
<tr>
<td>Reverse Light (+)</td>
<td>Purple/White</td>
<td>Orange/White</td>
<td>Purple/White</td>
<td>Purple/White</td>
<td>Purple/White</td>
</tr>
<tr>
<td>E-Brake (-)</td>
<td>Lt Green</td>
<td>Yellow/Blue</td>
<td>Lt Green</td>
<td>Lt Green</td>
<td>Lt Green</td>
</tr>
<tr>
<td>Foot Brake (+)</td>
<td>Yellow/Black</td>
<td>Yellow/Black</td>
<td>Yellow/Black</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>VSS (vehicle speed sensor)</td>
<td>[DATA]</td>
<td>Pink</td>
<td>Green/White</td>
<td>N/A</td>
<td>Pink</td>
</tr>
</tbody>
</table>
# VEHICLE WIRE REFERENCE CHART

## 2006-2009

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Connector Name</th>
<th>Connector Color</th>
<th>Connector Type</th>
<th>Position</th>
<th>Wire Color</th>
<th>Polarity</th>
<th>Wire Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Camera Power</td>
<td>–</td>
<td>–</td>
<td>24 pin</td>
<td>24</td>
<td>Red</td>
<td>[+]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Ground</td>
<td>–</td>
<td>–</td>
<td>24 pin</td>
<td>21</td>
<td>White</td>
<td>[-]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Video +</td>
<td>–</td>
<td>–</td>
<td>24 pin</td>
<td>22</td>
<td>Black</td>
<td>[+]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Video -</td>
<td>–</td>
<td>–</td>
<td>24 pin</td>
<td>23</td>
<td>Shield</td>
<td>[-]</td>
<td>Reverse camera harness</td>
</tr>
</tbody>
</table>

## 2010-2011

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Connector Name</th>
<th>Connector Color</th>
<th>Connector Type</th>
<th>Position</th>
<th>Wire Color</th>
<th>Polarity</th>
<th>Wire Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Camera Power</td>
<td>–</td>
<td>–</td>
<td>24 pin</td>
<td>24</td>
<td>Red</td>
<td>[+]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Ground</td>
<td>–</td>
<td>–</td>
<td>24 pin</td>
<td>21</td>
<td>Shield</td>
<td>[-]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Video +</td>
<td>–</td>
<td>–</td>
<td>24 pin</td>
<td>22</td>
<td>White</td>
<td>[+]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Video -</td>
<td>–</td>
<td>–</td>
<td>24 pin</td>
<td>23</td>
<td>Black</td>
<td>[-]</td>
<td>Reverse camera harness</td>
</tr>
</tbody>
</table>

## REVERSE CAMERA CONNECTOR (WIRE SIDE)

![Diagram](image_url)
INSTALL GUIDE

TOYOTA 4 RUNNER 
WITH JBL 2012-2013

RETAINS FACTORY AMPLIFIER, STEERING WHEEL CONTROLS, AND MORE!

PRODUCTS REQUIRED
iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro TO1 Installation Harness

OPTIONAL ACCESSORIES
Click here for:
- Radar Integration Installation Guide
- Radar Integration Owner’s Guide for Kenwood and JVC Radios

PROGRAMMED FIRMWARE
ADS-RR(SR)-TOY01-DS

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@adsdata.ca

maestro.idatalink.com/support

www.12voltdata.com/forum

TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>Content</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installation Instructions</td>
<td>3</td>
</tr>
<tr>
<td>Wiring Diagram</td>
<td>4</td>
</tr>
<tr>
<td>Radio Wire Reference Chart</td>
<td>5</td>
</tr>
<tr>
<td>Vehicle Wire Reference Chart</td>
<td>6</td>
</tr>
</tbody>
</table>
INSTALLATION INSTRUCTIONS

STEP 1
• Unbox the aftermarket radio and locate its main harness.
• Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
• Remove the factory radio.

STEP 2
• If the vehicle is equipped with an OEM backup camera, connect the TO1 T-harness to the backup camera harness [see wire chart for details].

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 TO1 T-harness.

STEP 4
• Plug the OBDII connector into the OBDII of the vehicle, under driver dash.

STEP 5
• Plug the aftermarket radio harnesses into the aftermarket radio.
• Connect the backup camera RCA cable into the aftermarket radio [if equipped].
• Connect the auxiliary RCA cables 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.

NOTE:
In Pioneer radios: plug Audio cable in auxiliary input of the radio.

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

TROUBLESHOOTING TIPS:
• To reset the module back its factory settings, 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.
• For technical assistance call 1-866-427-2999 or e-mail “maestro.support@idatalink.com”. Visit us at “maestro.idatalink.com/support” and “www.12voltdata.com/forum/”
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 (+)
- BLUE/WHITE - AMP. TURN ON (-)
- RED - ACCESSORY (+)
- YELLOW - 12V (+)
- BLACK - GROUND
- ORANGE - ILLUMINATION (+)
- PURPLE/WHITE - REVERSE LIGHT (+)
- LTGREEN - E-BRAKE (-)
- PINK - VEHICLE SPEED
- BLUE/WHITE - AMP. TURN ON (+)
- BLACK - GROUND

**STEP 2**
- BLUE/YELLOW - CAM. POWER (+)
- BLACK - GROUND (-)
- YELLOW - VIDEO (+)
- BROWN - VIDEO (-)

**STEP 3**
- FACTORY RADIO HARNESS
- CONNECT AMP. ADAPTER

**STEP 4**
- 10PIN HARNES
- OBDII CONNECTOR
- CONNECT 20 OR 28 PIN CABLE

**STEP 5**
- MAIN HARNESS
- RCA CABLES

**STEP 6**
- MAESTRO RR MODULE

CONNECTIONS NOT REQUIRED WITH AMP

CONNECT TO LF AND RF LOW LEVEL OUTPUTS

CONNECT TO AFTERMARKET RADIO

SEE AFTERMARKET RADIO GUIDE FOR RADIO WIRE COLORS

SEE WIRE CHART

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

WIRING DIAGRAM with an Amplifier

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

GREEN - LR SPEAKER (+)
GREEN/BLACK - LR SPEAKER (-)
PURPLE - RR SPEAKER (+)
PURPLE/BLACK - RR SPEAKER (-)

WHITE - LF SPEAKER (+)
WHITE/BLACK - LF SPEAKER (-)
GRAY - RF SPEAKER (+)
GRAY/BLACK - RF SPEAKER (-)

CONNECT IF EQUIPPED

WIRING DIAGRAM with an Amplifier

YELLOW - VIDEO (+)
BROWN - VIDEO (-)
BLUE/YELLOW - CAM. POWER (+)
BLACK - GROUND (-)
# RADIO WIRE REFERENCE CHART

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Polarity</th>
<th>Wire Color on Maestro T-Harness</th>
<th>Wire Color on Alpine cable</th>
<th>Wire Color on Kenwood cable</th>
<th>Wire Color on Pioneer cable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Illumination</td>
<td>(+)</td>
<td>Orange</td>
<td>N/A</td>
<td>Orange/White</td>
<td>Orange/White</td>
</tr>
<tr>
<td>Reverse Light</td>
<td>(+)</td>
<td>Purple/White</td>
<td>Orange/White</td>
<td>Purple/White</td>
<td>Purple/White</td>
</tr>
<tr>
<td>E-Brake</td>
<td>(-)</td>
<td>Lt Green</td>
<td>Yellow/Blue</td>
<td>Lt Green</td>
<td>Lt Green</td>
</tr>
<tr>
<td>Foot Brake</td>
<td>(+)</td>
<td>Yellow/Black</td>
<td>Yellow/Black</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>VSS (vehicle speed sensor)</td>
<td>[DATA]</td>
<td>Pink</td>
<td>Green/White</td>
<td>N/A</td>
<td>Pink</td>
</tr>
</tbody>
</table>
## VEHICLE WIRE REFERENCE CHART

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Connector Name</th>
<th>Connector Color</th>
<th>Connector Type</th>
<th>Position</th>
<th>Wire Color</th>
<th>Polarity</th>
<th>Wire Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Camera Power</td>
<td>~</td>
<td>~</td>
<td>24 pin</td>
<td>24</td>
<td>Red</td>
<td>[+]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Ground</td>
<td>~</td>
<td>~</td>
<td>24 pin</td>
<td>21</td>
<td>Shield</td>
<td>[-]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Video +</td>
<td>~</td>
<td>~</td>
<td>24 pin</td>
<td>22</td>
<td>White</td>
<td>[+]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Video -</td>
<td>~</td>
<td>~</td>
<td>24 pin</td>
<td>23</td>
<td>Black</td>
<td>[-]</td>
<td>Reverse camera harness</td>
</tr>
</tbody>
</table>

**OR**

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Connector Name</th>
<th>Connector Color</th>
<th>Connector Type</th>
<th>Position</th>
<th>Wire Color</th>
<th>Polarity</th>
<th>Wire Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Camera Power</td>
<td>~</td>
<td>~</td>
<td>16 pin</td>
<td>07</td>
<td>Red</td>
<td>[+]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Ground</td>
<td>~</td>
<td>~</td>
<td>16 pin</td>
<td>15</td>
<td>Shield</td>
<td>[-]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Video +</td>
<td>~</td>
<td>~</td>
<td>16 pin</td>
<td>08</td>
<td>White</td>
<td>[+]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Video -</td>
<td>~</td>
<td>~</td>
<td>16 pin</td>
<td>16</td>
<td>Black</td>
<td>[-]</td>
<td>Reverse camera harness</td>
</tr>
</tbody>
</table>

**REVERSE CAMERA CONNECTORS (WIRE SIDE)**

![Diagram of reverse camera connectors](image-url)
INSTALL GUIDE

TOYOTA 4 RUNNER
WITHOUT JBL 2005-2011

RETAILS FACTORY AMPLIFIER, STEERING WHEEL CONTROLS, AND MORE!

PRODUCTS REQUIRED

- iDatalink Maestro RR Radio Replacement Interface
- iDatalink Maestro TO1 Installation Harness

OPTIONAL ACCESSORIES

Click here for:
- Radar Integration Installation Guide
- Radar Integration Owner’s Guide for Kenwood and JVC Radios

PROGRAMMED Firmware

ADS-RR(SR)-TOY01-DS

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

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installation Instructions</td>
<td>3</td>
</tr>
<tr>
<td>Wiring Diagram</td>
<td>4</td>
</tr>
<tr>
<td>Radio Wire Reference Chart</td>
<td>5</td>
</tr>
<tr>
<td>Vehicle Wire Reference Chart</td>
<td>6</td>
</tr>
</tbody>
</table>

NEED HELP?

1 866 427-2999

maestro.support@adsdata.ca

maestro.idatalink.com/support

www.12voltdata.com/forum
INSTALLATION INSTRUCTIONS

STEP 1
- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
- Remove the factory radio.

STEP 2
- If the vehicle is equipped with an OEM backup camera, connect the TO1 T-harness to the backup camera harness (see wire chart for details).

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 TO1 T-harness.

STEP 4
- Plug the OBDII connector into the OBDII of the vehicle, under driver dash.

STEP 5
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the auxiliary RCA cables 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.

NOTE:
In Pioneer radios: plug Audio cable in auxiliary input of the radio.

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

TROUBLESHOOTING TIPS:
- To reset the module back its factory settings, 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.
- For technical assistance call 1-866-427-2999 or e-mail “maestro.support@idatalink.com”. Visit us at “maestro.idatalink.com/support” and “www.12voltdata.com/forum/”
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 (+)
- PURPLE/WHITE - REVERSE LIGHT (+)
- LT GREEN - E-BRAKE (-)
- PINK - VEHICLE SPEED
- LT GREEN - FOOT BRAKE

**STEP 2**

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

**STEP 3**

- FACTORY RADIO HARNESS
- CONNECT IF EQUIPPED

**STEP 4**

- OBDII CONNECTOR

**STEP 5**

- MAIN HARNESS
- CONNECT TO AFTERMARKET RADIO

**STEP 6**

- RCA CABLES
- WIRING DIAGRAM
- WITHOUT AN AMPLIFIER

---

**YELLOW - 12V (+)**
**BLACK - GROUND**
**RED - ACCESSORY (+)**
**YELLOW - 12V (+)**
**ORANGE - ILLUMINATION (+)**
**PURPLE/WHITE - REVERSE LIGHT (+)**
**LT GREEN - E-BRAKE (-)**
**PINK - VEHICLE SPEED**
**LT GREEN - FOOT BRAKE**

**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 (+)**

**YELLOW/BLACK - FOOT BRAKE**

---

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

**SEE AFTERMARKET RADIO GUIDE FOR RADIO WIRE COLORS**

**GREEN - LR SPEAKER (+)**
**GREEN/BLACK - LR SPEAKER (-)**
**PURPLE/BLACK - RR SPEAKER (-)**
**PURPLE - RR SPEAKER (+)**
**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 (+)**

**YELLOW/BLACK - FOOT BRAKE**

---

**GREEN - LR SPEAKER (+)**
**GREEN/BLACK - LR SPEAKER (-)**
**PURPLE/BLACK - RR SPEAKER (-)**
**PURPLE - RR SPEAKER (+)**
**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 (+)**

---

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

**SEE WIRE CHART**

---

**CONNECT 20 OR 28 PIN CABLE**

---

**TOYOTA 4 RUNNER WITHOUT JBL 2005-2011**

---

**TOYOTA T-HARNESS**
## RADIO WIRE REFERENCE CHART

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Polarity</th>
<th>Wire Color on Maestro T-Harness</th>
<th>Wire Color on Alpine cable</th>
<th>Wire Color on Kenwood cable</th>
<th>Wire Color on Pioneer cable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Illumination</td>
<td>(+)</td>
<td>Orange</td>
<td>N/A</td>
<td>Orange/White</td>
<td>Orange/White</td>
</tr>
<tr>
<td>Reverse Light</td>
<td>(+)</td>
<td>Purple/White</td>
<td>Orange/White</td>
<td>Purple/White</td>
<td>Purple/White</td>
</tr>
<tr>
<td>E-Brake</td>
<td>(-)</td>
<td>Lt Green</td>
<td>Yellow/Blue</td>
<td>Lt Green</td>
<td>Lt Green</td>
</tr>
<tr>
<td>Foot Brake</td>
<td>(+)</td>
<td>Yellow/Black</td>
<td>Yellow/Black</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>VSS [vehicle speed sensor]</td>
<td>[DATA]</td>
<td>Pink</td>
<td>Green/White</td>
<td>N/A</td>
<td>Pink</td>
</tr>
</tbody>
</table>
VEHICLE WIRE REFERENCE CHART

REVERSE CAMERA NOT AVAILABLE / NOT PRESENT
INSTALL GUIDE

TOYOTA 4 RUNNER
WITHOUT JBL 2012-2013

RETAILS FACTORY AMPLIFIER, STEERING WHEEL CONTROLS, AND MORE!

PRODUCTS REQUIRED
iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro TO1 Installation Harness

OPTIONAL ACCESSORIES
Click here for:
Radar Integration Installation Guide
Radar Integration Owner’s Guide for Kenwood and JVC Radios

PROGRAMMED FIRMWARE
ADS-RR(SR)-TOY01-DS

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@adsdata.ca
maestro.idatalink.com/support
www.12voltdata.com/forum

TABLE OF CONTENTS

Installation Instructions 3
Wiring Diagram 4
Radio Wire Reference Chart 5
Vehicle Wire Reference Chart 6
INSTALLATION INSTRUCTIONS

STEP 1
- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
- Remove the factory radio.

STEP 2
- If the vehicle is equipped with an OEM backup camera, connect the TO1 T-harness to the backup camera harness [see wire chart for details].

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 TO1 T-harness.

STEP 4
- Plug the OBDII connector into the OBDII of the vehicle, under driver dash.

STEP 5
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio [if equipped].
- Connect the auxiliary RCA cables 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.

NOTE:
In Pioneer radios: plug Audio cable in auxiliary input of the radio.

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

TROUBLESHOOTING TIPS:
- To reset the module back its factory settings, 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.
- For technical assistance call 1-866-427-2999 or e-mail “maestro.support@idatalink.com”. Visit us at “maestro.idatalink.com/support” and “www.12voltdata.com/forum/”
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 (+)
- YELLOW/BLACK - FOOT BRAKE
- ORANGE - ILLUMINATION (+)
- LTGREEN - E-BRAKE (-)
- BLUE/YELLOW - CAM. POWER (+)
- BLUE/WHITE - AMP. TURN ON (+)

STEP 2

- REVERSE CAMERA HARNESS
- BLUE/YELLOW - CAM. POWER (+)
- BLACK - GROUND (-)
- YELLOW - VIDEO (+)
- BROWN - VIDEO (-)

STEP 3

- FACTORY RADIO HARNESS

STEP 4

- OBDII CONNECTOR

STEP 5

- CONNECT TO AFTERMARKET RADIO

STEP 6

- WIRES FROM VEHICLE
- CONNECT 20 OR 28 PIN CABLE

See Aftermarket Radio Guide for radio wire colors
See Wire Chart

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 (+)
YELLOW/BLACK - FOOT BRAKE
ORANGE - ILLUMINATION (+)
LTGREEN - E-BRAKE (-)
BLUE/YELLOW - CAM. POWER (+)
BLUE/WHITE - AMP. TURN ON (+)

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 (+)
YELLOW/BLACK - FOOT BRAKE
ORANGE - ILLUMINATION (+)
LTGREEN - E-BRAKE (-)
BLUE/YELLOW - CAM. POWER (+)
BLUE/WHITE - AMP. TURN ON (+)

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 (+)
YELLOW/BLACK - FOOT BRAKE
ORANGE - ILLUMINATION (+)
LTGREEN - E-BRAKE (-)
BLUE/YELLOW - CAM. POWER (+)
BLUE/WHITE - AMP. TURN ON (+)

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 (+)
YELLOW/BLACK - FOOT BRAKE
ORANGE - ILLUMINATION (+)
LTGREEN - E-BRAKE (-)
BLUE/YELLOW - CAM. POWER (+)
BLUE/WHITE - AMP. TURN ON (+)

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 (+)
YELLOW/BLACK - FOOT BRAKE
ORANGE - ILLUMINATION (+)
LTGREEN - E-BRAKE (-)
BLUE/YELLOW - CAM. POWER (+)
BLUE/WHITE - AMP. TURN ON (+)

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 (+)
YELLOW/BLACK - FOOT BRAKE
ORANGE - ILLUMINATION (+)
LTGREEN - E-BRAKE (-)
BLUE/YELLOW - CAM. POWER (+)
BLUE/WHITE - AMP. TURN ON (+)
# RADIO WIRE REFERENCE CHART

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Polarity</th>
<th>Wire Color on Maestro T-Harness</th>
<th>Wire Color on Alpine cable</th>
<th>Wire Color on Kenwood cable</th>
<th>Wire Color on Pioneer cable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Illumination</td>
<td>(+)</td>
<td>Orange</td>
<td>N/A</td>
<td>Orange/White</td>
<td>Orange/White</td>
</tr>
<tr>
<td>Reverse Light</td>
<td>(+)</td>
<td>Purple/White</td>
<td>Orange/White</td>
<td>Purple/White</td>
<td>Purple/White</td>
</tr>
<tr>
<td>E-Brake</td>
<td>(-)</td>
<td>Lt Green</td>
<td>Yellow/Blue</td>
<td>Lt Green</td>
<td>Lt Green</td>
</tr>
<tr>
<td>Foot Brake</td>
<td>(+)</td>
<td>Yellow/Black</td>
<td>Yellow/Black</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>VSS (vehicle speed sensor)</td>
<td>[DATA]</td>
<td>Pink</td>
<td>Green/White</td>
<td>N/A</td>
<td>Pink</td>
</tr>
</tbody>
</table>
# VEHICLE WIRE REFERENCE CHART

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Connector Name</th>
<th>Connector Color</th>
<th>Connector Type</th>
<th>Position</th>
<th>Wire Color</th>
<th>Polarity</th>
<th>Wire Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Camera Power</td>
<td></td>
<td></td>
<td>24 pin</td>
<td>24</td>
<td>Red</td>
<td>(+)</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Ground</td>
<td></td>
<td></td>
<td>24 pin</td>
<td>21</td>
<td>Shield</td>
<td>(-)</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Video +</td>
<td></td>
<td></td>
<td>24 pin</td>
<td>22</td>
<td>White</td>
<td>(+)</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Video -</td>
<td></td>
<td></td>
<td>24 pin</td>
<td>23</td>
<td>Black</td>
<td>(-)</td>
<td>Reverse camera harness</td>
</tr>
</tbody>
</table>

**OR**

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Connector Name</th>
<th>Connector Color</th>
<th>Connector Type</th>
<th>Position</th>
<th>Wire Color</th>
<th>Polarity</th>
<th>Wire Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Camera Power</td>
<td></td>
<td></td>
<td>16 pin</td>
<td>07</td>
<td>Red</td>
<td>(+)</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Ground</td>
<td></td>
<td></td>
<td>16 pin</td>
<td>15</td>
<td>Shield</td>
<td>(-)</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Video +</td>
<td></td>
<td></td>
<td>16 pin</td>
<td>08</td>
<td>White</td>
<td>(+)</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Video -</td>
<td></td>
<td></td>
<td>16 pin</td>
<td>16</td>
<td>Black</td>
<td>(-)</td>
<td>Reverse camera harness</td>
</tr>
</tbody>
</table>

## REVERSE CAMERA CONNECTORS (WIRE SIDE)

![Diagram of reverse camera connectors](image-url)
INSTALL GUIDE
TOYOTA AVALON
WITH JBL 2011-2012
RETAINS FACTORY AMPLIFIER, STEERING WHEEL CONTROLS, AND MORE!

PRODUCTS REQUIRED
iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro TO1 Installation Harness

OPTIONAL ACCESSORIES
Click here for:
Radar Integration Installation Guide
Radar Integration Owner’s Guide for Kenwood and JVC Radios

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

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installation Instructions</td>
<td>3</td>
</tr>
<tr>
<td>Wiring Diagram</td>
<td>4</td>
</tr>
<tr>
<td>Radio Wire Reference Chart</td>
<td>5</td>
</tr>
<tr>
<td>Vehicle Wire Reference Chart</td>
<td>6</td>
</tr>
</tbody>
</table>

NEED HELP?

1 866 427-2999
maestro.support@adsdata.ca
maestro.idatalink.com/support
www.12voltdata.com/forum
INSTALLATION INSTRUCTIONS

STEP 1
- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
- Remove the factory radio.

STEP 2
- If the vehicle is equipped with an OEM backup camera, connect the TO1 T-harness to the backup camera harness (see wire chart for details).

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 TO1 T-harness.

STEP 4
- Plug the OBDII connector into the OBDII of the vehicle, under driver dash.

STEP 5
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the auxiliary RCA cables 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.

NOTE:
In Pioneer radios: plug Audio cable in auxiliary input of the radio.

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

TROUBLESHOOTING TIPS:
- To reset the module back its factory settings, 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.
- For technical assistance call 1-866-427-2999 or e-mail “maestro.support@idatalink.com”. Visit us at “maestro.idatalink.com/support” and “www.12voltdata.com/forum/”
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 (+)
- PURPLE/WHITE - REVERSE LIGHT (+)
- LTGREEN - E-BRAKE (-)
- PINK - VEHICLE SPEED
- BLUE/WHITE - AMPLIFIER PIN 1
- WHITE/BLACK - FOOT BRAKE

**STEP 2**
- BLUE/YELLOW - CAM. POWER (+)
- BLACK - GROUND (-)
- YELLOW - VIDEO (+)
- BROWN - VIDEO (-)

**STEP 3**
- FACTORY RADIO HARNESS
- CONNECT AMP. ADAPTER
- WIRES FROM VEHICLE
- CONNECT 20 OR 28 PIN CABLE

**STEP 4**
- OBDII CONNECTOR
- CONNECTIONS NOT REQUIRED WITH AMP

**STEP 5**
- MAIN HARNESS
- RCA CABLES
- DATA CABLE
- AUDIO CABLE
- CONNECT TO LF AND RF LOW LEVEL OUTPUTS
- CONNECT TO AFTERMARKET RADIO

**STEP 6**
- AUX IN
- BACKUP CAM
- STEP 6
- STEP 5
- STEP 4
- STEP 3
- STEP 2
- STEP 1
- WIRING DIAGRAM with an Amplifier

- SEE AFTERMARKET RADIO GUIDE FOR RADIO WIRE COLORS
- SEE WIRE CHART
- CONNECT AMP. ADAPTER
- CONNECT TO LF AND RF LOW LEVEL OUTPUTS

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Polarity</th>
<th>Wire Color on Maestro T-Harness</th>
<th>Wire Color on Alpine cable</th>
<th>Wire Color on Kenwood cable</th>
<th>Wire Color on Pioneer cable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Illumination</td>
<td>(+)</td>
<td>Orange</td>
<td>N/A</td>
<td>Orange/White</td>
<td>Orange/White</td>
</tr>
<tr>
<td>Reverse Light</td>
<td>(+)</td>
<td>Purple/White</td>
<td>Orange/White</td>
<td>Purple/White</td>
<td>Purple/White</td>
</tr>
<tr>
<td>E-Brake</td>
<td>(-)</td>
<td>Lt Green</td>
<td>Yellow/Blue</td>
<td>Lt Green</td>
<td>Lt Green</td>
</tr>
<tr>
<td>Foot Brake</td>
<td>(+)</td>
<td>Yellow/Black</td>
<td>Yellow/Black</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>VSS [vehicle speed sensor]</td>
<td>[DATA]</td>
<td>Pink</td>
<td>Green/White</td>
<td>N/A</td>
<td>Pink</td>
</tr>
</tbody>
</table>
# VEHICLE WIRE REFERENCE CHART

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Connector Name</th>
<th>Connector Color</th>
<th>Connector Type</th>
<th>Position</th>
<th>Wire Color</th>
<th>Polarity</th>
<th>Wire Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Camera Power</td>
<td>–</td>
<td>–</td>
<td>24 pin</td>
<td>24</td>
<td>Green</td>
<td>[+]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Ground</td>
<td>–</td>
<td>–</td>
<td>24 pin</td>
<td>21</td>
<td>Shield</td>
<td>[-]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Video +</td>
<td>–</td>
<td>–</td>
<td>24 pin</td>
<td>22</td>
<td>Blue</td>
<td>[+]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Video -</td>
<td>–</td>
<td>–</td>
<td>24 pin</td>
<td>23</td>
<td>Pink</td>
<td>[-]</td>
<td>Reverse camera harness</td>
</tr>
</tbody>
</table>

**REVERSE CAMERA CONNECTOR (WIRE SIDE)**

![Diagram of reverse camera connector](image-url)
INSTALL GUIDE
TOYOTA AVALON
WITH JBL 2013-2014

RETAINS FACTORY AMPLIFIER, STEERING WHEEL CONTROLS, AND MORE!

PRODUCTS REQUIRED
iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro TO1 Installation Harness

OPTIONAL ACCESSORIES
Click here for:
- Radar Integration Installation Guide
- Radar Integration Owner’s Guide for Kenwood and JVC Radios

PROGRAMMED FIRMWARE
ADS-RR(SR)-TOY01-DS

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@adsdata.ca

maestro.idatalink.com/support

www.12voltdata.com/forum

TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>Installation Instructions</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wiring Diagram</td>
<td>4</td>
</tr>
<tr>
<td>Radio Wire Reference Chart</td>
<td>5</td>
</tr>
<tr>
<td>Vehicle Wire Reference Chart</td>
<td>6</td>
</tr>
</tbody>
</table>
INSTALLATION INSTRUCTIONS

STEP 1
• Unbox the aftermarket radio and locate its main harness.
• Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
• Remove the factory radio.

STEP 2
• If the vehicle is equipped with an OEM backup camera, connect the TO1 T-harness to the backup camera harness (see wire chart for details).

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 TO1 T-harness.

STEP 4
• Plug the OBDII connector into the OBDII of the vehicle, under driver dash.

STEP 5
• Plug the aftermarket radio harnesses into the aftermarket radio.
• Connect the backup camera RCA cable into the aftermarket radio (if equipped).
• Connect the auxiliary RCA cables 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.

NOTE:
In Pioneer radios: plug Audio cable in auxiliary input of the radio.

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

TROUBLESHOOTING TIPS:
• To reset the module back its factory settings, 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.
• For technical assistance call 1-866-427-2999 or e-mail “maestro.support@idatalink.com”. Visit us at “maestro.idatalink.com/support” and “www.12voltdata.com/forum/”
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 (+)
- LTGREEN - E-BRAKE (-)
- BLUE/WHITE - AMP. TURN ON (-)

**STEP 2**

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

**STEP 3**

- FACTORY RADIO HARNESS
- CONNECT AMP. ADAPTER
- WIRE COLORS
- BLUES - LF SPEAKER (+)
- GREEN/BLACK - LF SPEAKER (-)
- PURPLE/BLACK - RR SPEAKER (-)
- PURPLE - RR SPEAKER (+)
- WHITE/BLACK - RR SPEAKER (-)
- WHITE - LF SPEAKER (+)
- RED - ACCESSORY (+)
- YELLOW - 12V (+)
- ORANGE - ILLUMINATION (+)
- LTGREEN - E-BRAKE (-)
- BLACK - GROUND
- BLUE/WHITE - AMP. TURN ON (-)

**STEP 4**

- OBDII CONNECTOR
- DROP TO LF AND RF LOW LEVEL OUTPUTS
- GREEN - LR SPEAKER (+)
- GREEN/BLACK - LR SPEAKER (-)
- PURPLE/BLACK - RR SPEAKER (-)
- PURPLE - RR SPEAKER (+)
- WHITE - LF SPEAKER (+)
- WHITE/BLACK - LF SPEAKER (-)
- GRAY - RF SPEAKER (+)
- GRAY/BLACK - RF SPEAKER (-)
- RED - ACCESSORY (+)
- YELLOW - 12V (+)
- ORANGE - ILLUMINATION (+)
- LTGREEN - E-BRAKE (-)
- BLACK - GROUND
- BLUE/WHITE - AMP. TURN ON (-)

**STEP 5**

- CONNECT 20 OR 28 PIN CABLE
- MAESTRO RR MODULE
- DATA CABLE
- AUDIO CABLE

**STEP 6**

- CONNECT TO LF AND RF LOW LEVEL OUTPUTS
- CONNECT TO AFTERMARKET RADIO
- RCA CABLES
- AUX IN
- BACKUP CAM
- MAIN HARNESS

**WIRING DIAGRAM**

- WIRING DIAGRAM for TOYOTA AVALON with JBL 2013-2014
- Automotive Data Solutions Inc. © 2018
- maestro.idatalink.com
## RADIO WIRE REFERENCE CHART

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Polarity</th>
<th>Wire Color on Maestro T-Harness</th>
<th>Wire Color on Alpine cable</th>
<th>Wire Color on Kenwood cable</th>
<th>Wire Color on Pioneer cable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Illumination</td>
<td>(+)</td>
<td>Orange</td>
<td>N/A</td>
<td>Orange/White</td>
<td>Orange/White</td>
</tr>
<tr>
<td>Reverse Light</td>
<td>(+)</td>
<td>Purple/White</td>
<td>Orange/White</td>
<td>Purple/White</td>
<td>Purple/White</td>
</tr>
<tr>
<td>E-Brake</td>
<td>(-)</td>
<td>Lt Green</td>
<td>Yellow/Blue</td>
<td>Lt Green</td>
<td>Lt Green</td>
</tr>
<tr>
<td>Foot Brake</td>
<td>(+)</td>
<td>Yellow/Black</td>
<td>Yellow/Black</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>VSS [vehicle speed sensor]</td>
<td>[DATA]</td>
<td>Pink</td>
<td>Green/White</td>
<td>N/A</td>
<td>Pink</td>
</tr>
</tbody>
</table>
### VEHICLE WIRE REFERENCE CHART

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Connector Name</th>
<th>Connector Color</th>
<th>Connector Type</th>
<th>Position</th>
<th>Wire Color</th>
<th>Polarity</th>
<th>Wire Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Camera Power</td>
<td>–</td>
<td>–</td>
<td>16 pin</td>
<td>07</td>
<td>Red</td>
<td>[+]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Ground</td>
<td>–</td>
<td>–</td>
<td>16 pin</td>
<td>15</td>
<td>Shield</td>
<td>[-]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Video +</td>
<td>–</td>
<td>–</td>
<td>16 pin</td>
<td>08</td>
<td>White</td>
<td>[+]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Video -</td>
<td>–</td>
<td>–</td>
<td>16 pin</td>
<td>16</td>
<td>Black</td>
<td>[-]</td>
<td>Reverse camera harness</td>
</tr>
</tbody>
</table>

**REVERSE CAMERA CONNECTOR (WIRE SIDE)**

![Diagram of reverse camera connector wire side]
INSTALLED GUIDE

TOYOTA AVALON

WITHOUT JBL 2011-2012

RETAILS FACTORY AMPLIFIER, STEERING WHEEL CONTROLS, AND MORE!

PRODUCTS REQUIRED

iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro T01 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-TOY01-DS

OPTIONAL ACCESSORIES

Click here for:
Radar Integration Installation Guide
Radar Integration Owner’s Guide for Kenwood and JVC Radios

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

<table>
<thead>
<tr>
<th>Installation Instructions</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wiring Diagram</td>
<td>4</td>
</tr>
<tr>
<td>Radio Wire Reference Chart</td>
<td>5</td>
</tr>
<tr>
<td>Vehicle Wire Reference Chart</td>
<td>6</td>
</tr>
</tbody>
</table>

NEED HELP?

☎ 1 866 427-2999

✉️ maestro.support@adsdata.ca

💬 maestro.idatalink.com/support
    www.12voltdata.com/forum
INSTALLATION INSTRUCTIONS

STEP 1
• Unbox the aftermarket radio and locate its main harness.
• Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
• Remove the factory radio.

STEP 2
• If the vehicle is equipped with an OEM backup camera, connect the TO1 T-harness to the backup camera harness [see wire chart for details].

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 TO1 T-harness.

STEP 4
• Plug the OBDII connector into the OBDII of the vehicle, under driver dash.

STEP 5
• Plug the aftermarket radio harnesses into the aftermarket radio.
• Connect the backup camera RCA cable into the aftermarket radio (if equipped).
• Connect the auxiliary RCA cables 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.

NOTE:
In Pioneer radios: plug Audio cable in auxiliary input of the radio.

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

TROUBLESHOOTING TIPS:
• To reset the module back its factory settings, 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.
• For technical assistance call 1-866-427-2999 or e-mail “maestro.support@idatalink.com”. Visit us at “maestro.idatalink.com/support” and “www.12voltdata.com/forum/”
WIRING DIAGRAM without an Amplifier

STEP 1
- Connect 20 or 28 pin cable

STEP 2
- Reverse Camera Harness

STEP 3
- Factory Radio Harness

STEP 4
- OBDII Connector

STEP 5
- Connect to Aftermarket Radio

STEP 6
- Connect to Aftermarket Radio

Wiring Diagram with Aftermarket Radio:
- Yellow - Video (+)
- Brown - Video (-)
- Blue/Yellow - Cam. Power (+)
- Black - Ground (-)

Audio Cable:
- Yellow - Video (+)
- Brown - Video (-)

See Aftermarket Radio Guide for Radio Wire Colors
See Wire Chart
## RADIO WIRE REFERENCE CHART

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Polarity</th>
<th>Wire Color on Maestro T-Harness</th>
<th>Wire Color on Alpine cable</th>
<th>Wire Color on Kenwood cable</th>
<th>Wire Color on Pioneer cable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Illumination</td>
<td>(+)</td>
<td>Orange</td>
<td>N/A</td>
<td>Orange/White</td>
<td>Orange/White</td>
</tr>
<tr>
<td>Reverse Light</td>
<td>(+)</td>
<td>Purple/White</td>
<td>Orange/White</td>
<td>Purple/White</td>
<td>Purple/White</td>
</tr>
<tr>
<td>E-Brake</td>
<td>(-)</td>
<td>Lt Green</td>
<td>Yellow/Blue</td>
<td>Lt Green</td>
<td>Lt Green</td>
</tr>
<tr>
<td>Foot Brake</td>
<td>(+)</td>
<td>Yellow/Black</td>
<td>Yellow/Black</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>VSS [vehicle speed sensor]</td>
<td>[DATA]</td>
<td>Pink</td>
<td>Green/White</td>
<td>N/A</td>
<td>Pink</td>
</tr>
</tbody>
</table>
# VEHICLE WIRE REFERENCE CHART

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Connector Name</th>
<th>Connector Color</th>
<th>Connector Type</th>
<th>Position</th>
<th>Wire Color</th>
<th>Polarity</th>
<th>Wire Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Camera Power</td>
<td>-</td>
<td>-</td>
<td>24 pin</td>
<td>24</td>
<td>Green</td>
<td>[+ ]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Ground</td>
<td>-</td>
<td>-</td>
<td>24 pin</td>
<td>21</td>
<td>Shield</td>
<td>[- ]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Video +</td>
<td>-</td>
<td>-</td>
<td>24 pin</td>
<td>22</td>
<td>Blue</td>
<td>[+ ]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Video -</td>
<td>-</td>
<td>-</td>
<td>24 pin</td>
<td>23</td>
<td>Pink</td>
<td>[- ]</td>
<td>Reverse camera harness</td>
</tr>
</tbody>
</table>

## REVERSE CAMERA CONNECTOR (WIRE SIDE)

![Reverse Camera Connector Diagram]
INSTALL GUIDE
TOYOTA AVALON
WITHOUT JBL 2013-2014
RETAINS FACTORY AMPLIFIER, STEERING WHEEL CONTROLS, AND MORE!

PRODUCTS REQUIRED
iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro TO1 Installation Harness

OPTIONAL ACCESSORIES
Click here for:
Radar Integration Installation Guide
Radar Integration Owner's Guide for Kenwood and JVC Radios

PROGRAMMED FIRMWARE
ADS-RR(SR)-TOY01-DS

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**

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installation Instructions</td>
<td>3</td>
</tr>
<tr>
<td>Wiring Diagram</td>
<td>4</td>
</tr>
<tr>
<td>Radio Wire Reference Chart</td>
<td>5</td>
</tr>
<tr>
<td>Vehicle Wire Reference Chart</td>
<td>6</td>
</tr>
</tbody>
</table>

---

**NEED HELP?**

1 866 427-2999

maestro.support@adsdata.ca

maestro.idatalink.com/support

www.12voltdata.com/forum
INSTALLATION INSTRUCTIONS

STEP 1
- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
- Remove the factory radio.

STEP 2
- If the vehicle is equipped with an OEM backup camera, connect the TO1 T-harness to the backup camera harness (see wire chart for details).

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 TO1 T-harness.

STEP 4
- Plug the OBDII connector into the OBDII of the vehicle, under driver dash.

STEP 5
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the auxiliary RCA cables 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.

NOTE:
In Pioneer radios: plug Audio cable in auxiliary input of the radio.

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

TROUBLESHOOTING TIPS:
- To reset the module back its factory settings, 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.
- For technical assistance call 1-866-427-2999 or e-mail “maestro.support@idatalink.com”. Visit us at “maestro.idatalink.com/support” and “www.12voltdata.com/forum/”
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 (+)
- PURPLE/WHITE - REVERSE LIGHT (+)
- LT GREEN - E-BRAKE (-)
- PINK - VEHICLE SPEED
- LT GREEN - E-BRAKE (-)
- BLUE/WHITE - AMP. TURN ON (+)
- YELLOW/BLACK - FOOT BRAKE

**STEP 2** (REVERSE CAMERA HARNESS)
- BLUE/YELLOW - CAM. POWER (+)
- BLACK - GROUND (-)
- YELLOW - VIDEO (+)
- BROWN - VIDEO (-)

**STEP 3** (FACTORY RADIO HARNESS)
- CONNECT IF EQUIPPED

**STEP 4** (OBDII CONNECTOR)
- CONNECT 20 OR 28 PIN CABLE

**STEP 5**
- CONNECT TO AFTERMARKET RADIO

**STEP 6**
- AUDIO CABLE
- DATA CABLE
# RADIO WIRE REFERENCE CHART

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Polarity</th>
<th>Wire Color on Maestro T-Harness</th>
<th>Wire Color on Alpine cable</th>
<th>Wire Color on Kenwood cable</th>
<th>Wire Color on Pioneer cable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Illumination</td>
<td>(+)</td>
<td>Orange</td>
<td>N/A</td>
<td>Orange/White</td>
<td>Orange/White</td>
</tr>
<tr>
<td>Reverse Light</td>
<td>(+)</td>
<td>Purple/White</td>
<td>Orange/White</td>
<td>Purple/White</td>
<td>Purple/White</td>
</tr>
<tr>
<td>E-Brake</td>
<td>(-)</td>
<td>Lt Green</td>
<td>Yellow/Blue</td>
<td>Lt Green</td>
<td>Lt Green</td>
</tr>
<tr>
<td>Foot Brake</td>
<td>(+)</td>
<td>Yellow/Black</td>
<td>Yellow/Black</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>VSS [vehicle speed sensor]</td>
<td>[DATA]</td>
<td>Pink</td>
<td>Green/White</td>
<td>N/A</td>
<td>Pink</td>
</tr>
</tbody>
</table>
# VEHICLE WIRE REFERENCE CHART

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Connector Name</th>
<th>Connector Color</th>
<th>Connector Type</th>
<th>Position</th>
<th>Wire Color</th>
<th>Polarity</th>
<th>Wire Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Camera Power</td>
<td>~</td>
<td>~</td>
<td>16 pin</td>
<td>07</td>
<td>Black</td>
<td>(+)</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Ground</td>
<td>~</td>
<td>~</td>
<td>16 pin</td>
<td>15</td>
<td>Shield</td>
<td>(-)</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Video +</td>
<td>~</td>
<td>~</td>
<td>16 pin</td>
<td>08</td>
<td>White</td>
<td>(+)</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Video -</td>
<td>~</td>
<td>~</td>
<td>16 pin</td>
<td>16</td>
<td>Red</td>
<td>(-)</td>
<td>Reverse camera harness</td>
</tr>
</tbody>
</table>

## REVERSE CAMERA CONNECTOR (WIRE SIDE)
INSTALL GUIDE

TOYOTA CAMRY WITH JBL 2007-2011

RETAINS FACTORY AMPLIFIER, STEERING WHEEL CONTROLS, AND MORE!

PRODUCTS REQUIRED

iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro TO1 Installation Harness

OPTIONAL ACCESSORIES

Click here for:
- Radar Integration Installation Guide
- Radar Integration Owner’s Guide for Kenwood and JVC Radios

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

<table>
<thead>
<tr>
<th>Installation Instructions</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wiring Diagram</td>
<td>4</td>
</tr>
<tr>
<td>Radio Wire Reference Chart</td>
<td>5</td>
</tr>
<tr>
<td>Vehicle Wire Reference Chart</td>
<td>6</td>
</tr>
</tbody>
</table>

NEED HELP?

1 866 427-2999

maestro.support@adsdata.ca

maestro.idatalink.com/support
www.12voltdata.com/forum
INSTALLATION INSTRUCTIONS

STEP 1
• Unbox the aftermarket radio and locate its main harness.
• Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
• Remove the factory radio.

STEP 2
• If the vehicle is equipped with an OEM backup camera, connect the TO1 T-harness to the backup camera harness (see wire chart for details).

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 TO1 T-harness.

STEP 4
• Plug the OBDII connector into the OBDII of the vehicle, under driver dash.

STEP 5
• Plug the aftermarket radio harnesses into the aftermarket radio.
• Connect the backup camera RCA cable into the aftermarket radio (if equipped).
• Connect the auxiliary RCA cables 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.

NOTE:
In Pioneer radios: plug Audio cable in auxiliary input of the radio.

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

TROUBLESHOOTING TIPS:
• To reset the module back its factory settings, 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.
• For technical assistance call 1-866-427-2999 or e-mail “maestro.support@idatalink.com”. Visit us at “maestro.idatalink.com/support” and “www.12voltdata.com/forum/”
WIRING DIAGRAM with an Amplifier

**STEP 1**
- WHITE - LF SPEAKER (+)
- WHITE/BLACK - LF SPEAKER (-)
- GRAY/BLACK - RF SPEAKER (+)
- GREEN/BLACK - RF SPEAKER (-)
- GREEN - LR SPEAKER (+)
- GREEN/BLACK - LR SPEAKER (-)
- PURPLE - RR SPEAKER (+)
- PURPLE/BLACK - RR SPEAKER (-)
- BLUE/WHITE - AMP. TURN ON (+)
- RED - ACCESSORY (+)
- YELLOW - 12V (+)
- RED - ACCESSORY (-)
- YELLOW/BLACK - FOOT BRAKE
- ORANGE - ILLUMINATION (+)
- PURPLE/WHITE - REVERSE LIGHT (+)
- LTGREEN - E-BRAKE (-)
- BLUE/WHITE - AMP. TURN ON (-)
- BLACK - GROUND
- YELLOW - VIDEO (+)
- BROWN - VIDEO (-)
- BLUE/YELLOW - CAM. POWER (+)
- BLACK - GROUND (-)

**STEP 2**
- REVERSE CAMERA HARNESS
- BLUE/YELLOW - CAM. POWER (+)
- BLACK - GROUND (-)
- YELLOW - VIDEO (+)
- BROWN - VIDEO (-)

**STEP 3**
- FACTORY RADIO HARNESS
- CONNECT AMP. ADAPTER

**STEP 4**
- OBDII CONNECTOR
- CONNECT 20 OR 28 PIN CABLE

**STEP 5**
- MAIN HARNESS
- RCA CABLES

**STEP 6**
- WIRING DIAGRAM with an Amplifier
- AUDIO CABLE
- COLOR CODE:
  - GREEN - LR SPEAKER (+)
  - GREEN/BLACK - LR SPEAKER (-)
  - PURPLE/BLACK - RR SPEAKER (-)
  - PURPLE - RR SPEAKER (+)
  - WHITE - LF SPEAKER (+)
  - WHITE/BLACK - LF SPEAKER (-)
  - GRAY/BLACK - RF SPEAKER (+)
  - GRAY/BLACK - RF SPEAKER (-)

**WIRING DIAGRAM with an Amplifier**

**STEP 1**
- SEE AFTERMARKET RADIO GUIDE FOR RADIO WIRE COLORS
- CONNECT TO LF AND RF LOW LEVEL OUTPUTS

**STEP 2**
- SEE WIRE CHART

**STEP 3**
- SEE AFTERMARKET RADIO GUIDE FOR RADIO WIRE COLORS

**STEP 4**
- CONNECT 20 OR 28 PIN CABLE

**STEP 5**
- CONNECT TO AFTERMARKET RADIO
- RCA CABLES

**STEP 6**
- WIRING DIAGRAM with an Amplifier
- AUDIO CABLE
- COLOR CODE:
  - GREEN - LR SPEAKER (+)
  - GREEN/BLACK - LR SPEAKER (-)
  - PURPLE/BLACK - RR SPEAKER (-)
  - PURPLE - RR SPEAKER (+)

**WIRING DIAGRAM with an Amplifier**

**STEP 1**
- SEE AFTERMARKET RADIO GUIDE FOR RADIO WIRE COLORS
- CONNECT TO LF AND RF LOW LEVEL OUTPUTS

**STEP 2**
- SEE WIRE CHART

**STEP 3**
- SEE AFTERMARKET RADIO GUIDE FOR RADIO WIRE COLORS

**STEP 4**
- CONNECT 20 OR 28 PIN CABLE

**STEP 5**
- CONNECT TO AFTERMARKET RADIO
- RCA CABLES

**STEP 6**
- WIRING DIAGRAM with an Amplifier
- AUDIO CABLE
- COLOR CODE:
  - GREEN - LR SPEAKER (+)
  - GREEN/BLACK - LR SPEAKER (-)
  - PURPLE/BLACK - RR SPEAKER (-)
  - PURPLE - RR SPEAKER (+)

**WIRING DIAGRAM with an Amplifier**

**STEP 1**
- SEE AFTERMARKET RADIO GUIDE FOR RADIO WIRE COLORS
- CONNECT TO LF AND RF LOW LEVEL OUTPUTS

**STEP 2**
- SEE WIRE CHART

**STEP 3**
- SEE AFTERMARKET RADIO GUIDE FOR RADIO WIRE COLORS

**STEP 4**
- CONNECT 20 OR 28 PIN CABLE

**STEP 5**
- CONNECT TO AFTERMARKET RADIO
- RCA CABLES

**STEP 6**
- WIRING DIAGRAM with an Amplifier
- AUDIO CABLE
- COLOR CODE:
  - GREEN - LR SPEAKER (+)
  - GREEN/BLACK - LR SPEAKER (-)
  - PURPLE/BLACK - RR SPEAKER (-)
  - PURPLE - RR SPEAKER (+)

**WIRING DIAGRAM with an Amplifier**

**STEP 1**
- SEE AFTERMARKET RADIO GUIDE FOR RADIO WIRE COLORS
- CONNECT TO LF AND RF LOW LEVEL OUTPUTS

**STEP 2**
- SEE WIRE CHART

**STEP 3**
- SEE AFTERMARKET RADIO GUIDE FOR RADIO WIRE COLORS

**STEP 4**
- CONNECT 20 OR 28 PIN CABLE

**STEP 5**
- CONNECT TO AFTERMARKET RADIO
- RCA CABLES

**STEP 6**
- WIRING DIAGRAM with an Amplifier
- AUDIO CABLE
- COLOR CODE:
  - GREEN - LR SPEAKER (+)
  - GREEN/BLACK - LR SPEAKER (-)
  - PURPLE/BLACK - RR SPEAKER (-)
  - PURPLE - RR SPEAKER (+)
# RADIO WIRE REFERENCE CHART

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Polarity</th>
<th>Wire Color on Maestro T-Harness</th>
<th>Wire Color on Alpine cable</th>
<th>Wire Color on Kenwood cable</th>
<th>Wire Color on Pioneer cable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Illumination (+)</td>
<td>Orange</td>
<td>N/A</td>
<td>Orange/White</td>
<td>Orange/White</td>
<td>Orange/White</td>
</tr>
<tr>
<td>Reverse Light (+)</td>
<td>Purple/White</td>
<td>Orange/White</td>
<td>Purple/White</td>
<td>Purple/White</td>
<td>Purple/White</td>
</tr>
<tr>
<td>E-Brake (-)</td>
<td>Lt Green</td>
<td>Yellow/Blue</td>
<td>Lt Green</td>
<td>Lt Green</td>
<td>Lt Green</td>
</tr>
<tr>
<td>Foot Brake (+)</td>
<td>Yellow/Black</td>
<td>Yellow/Black</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>VSS [vehicle speed sensor] [DATA]</td>
<td>Pink</td>
<td>Green/White</td>
<td>N/A</td>
<td>Pink</td>
<td></td>
</tr>
</tbody>
</table>
## VEHICLE WIRE REFERENCE CHART

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Connector Name</th>
<th>Connector Color</th>
<th>Connector Type</th>
<th>Position</th>
<th>Wire Color</th>
<th>Polarity</th>
<th>Wire Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Camera Power</td>
<td></td>
<td></td>
<td>24 pin</td>
<td>24</td>
<td>Black</td>
<td>[+]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Ground</td>
<td></td>
<td></td>
<td>24 pin</td>
<td>21</td>
<td>Shield</td>
<td>[-]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Video +</td>
<td></td>
<td></td>
<td>24 pin</td>
<td>22</td>
<td>Red</td>
<td>[+]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Video -</td>
<td></td>
<td></td>
<td>24 pin</td>
<td>23</td>
<td>White</td>
<td>[-]</td>
<td>Reverse camera harness</td>
</tr>
</tbody>
</table>

### REVERSE CAMERA CONNECTOR (WIRE SIDE)
INSTALL GUIDE

TOYOTA CAMRY

WITHOUT FACTORY SCREEN 2012-2014

RETAINS FACTORY AMPLIFIER, STEERING WHEEL CONTROLS, AND MORE!

PRODUCTS REQUIRED
iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro T01 Installation Harness

PROGRAMMED FIRMWARE
ADS-RR(SR)-TOY01-DS

OPTIONAL ACCESSORIES
Click here for:
- Radar Integration Installation Guide
- Radar Integration Owner's Guide for Kenwood and JVC Radios

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

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installation Instructions</td>
<td>3</td>
</tr>
<tr>
<td>Wiring Diagram</td>
<td>4</td>
</tr>
<tr>
<td>Radio Wire Reference Chart</td>
<td>5</td>
</tr>
<tr>
<td>Vehicle Wire Reference Chart</td>
<td>6</td>
</tr>
</tbody>
</table>

NEED HELP?

1 866 427-2999

maestro.support@adsdata.ca

maestro.idatalink.com/support
www.12voltdata.com/forum
INSTALLATION INSTRUCTIONS

STEP 1
• Unbox the aftermarket radio and locate its main harness.
• Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
• Remove the factory radio.

STEP 2
• If the vehicle is equipped with an OEM backup camera, connect the TO1 T-harness to the backup camera harness [see wire chart for details].

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 TO1 T-harness.

STEP 4
• Plug the OBDII connector into the OBDII of the vehicle, under driver dash.

STEP 5
• Plug the aftermarket radio harnesses into the aftermarket radio.
• Connect the backup camera RCA cable into the aftermarket radio [if equipped].
• Connect the auxiliary RCA cables 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.

NOTE:
In Pioneer radios: plug Audio cable in auxiliary input of the radio.

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

TROUBLESHOOTING TIPS:
• To reset the module back its factory settings, 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.
• For technical assistance call 1-866-427-2999 or e-mail “maestro.support@idatalink.com”. Visit us at “maestro.idatalink.com/support” and “www.12voltdata.com/forum/”
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 (+)
- BLUE/BLACK - AMP. TURN ON (-)
- RED - ACCESSORY (+)
- YELLOW - 12V (+)
- YELLOW/BLACK - FOOT BRAKE
- ORANGE - ILLUMINATION (+)
- LT GREEN - E-BRAKE (-)
- BLUE/WHITE - AMP. TURN ON (+)

**STEP 2**

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

**STEP 3**

- FACTORY RADIO HARNESS
- REVERSE CAMERA HARNESS
- CONNECT IF EQUIPPED

**STEP 4**

- T01 T-HARNESS
- OBDII CONNECTOR

**STEP 5**

- MAIN HARNESS
- RCA CABLES
- CONNECT TO AFTERMARKET RADIO

**STEP 6**

- WIRING DIAGRAM
- SEE AFTERMARKET RADIO GUIDE FOR RADIO WIRE COLORS
- AUDIO CABLE
- YELLOW - VIDEO (+)
- BROWN - VIDEO (-)
- BLUE/YELLOW - CAM. POWER (+)
- BLACK - GROUND (-)
- WHITE - LF SPEAKER (+)
- GREEN/BLACK - LR SPEAKER (-)
- PURPLE - RR SPEAKER (+)
- PURPLE/BLACK - RR SPEAKER (-)
- WHITE/BLACK - LF SPEAKER (-)
- GRAY - RF SPEAKER (+)
- GRAY/BLACK - RF SPEAKER (-)
- GREEN - LR SPEAKER (+)
- GREEN/BLACK - LR SPEAKER (-)
- BLUE/WHITE - AMP. TURN ON (+)
- BLUE/BLACK - AMP. TURN ON (-)
- RED - ACCESSORY (+)
- YELLOW - 12V (+)
- YELLOW/BLACK - FOOT BRAKE
- ORANGE - ILLUMINATION (+)
- LT GREEN - E-BRAKE (-)
- BLUE/WHITE - AMP. TURN ON (+)

CONNECT 20 OR 28 PIN CABLE
# RADIO WIRE REFERENCE CHART

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Polarity</th>
<th>Wire Color on Maestro T-Harness</th>
<th>Wire Color on Alpine cable</th>
<th>Wire Color on Kenwood cable</th>
<th>Wire Color on Pioneer cable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Illumination</td>
<td>(+)</td>
<td>Orange</td>
<td>N/A</td>
<td>Orange/White</td>
<td>Orange/White</td>
</tr>
<tr>
<td>Reverse Light</td>
<td>(+)</td>
<td>Purple/White</td>
<td>Orange/White</td>
<td>Purple/White</td>
<td>Purple/White</td>
</tr>
<tr>
<td>E-Brake</td>
<td>(-)</td>
<td>Lt Green</td>
<td>Yellow/Blue</td>
<td>Lt Green</td>
<td>Lt Green</td>
</tr>
<tr>
<td>Foot Brake</td>
<td>(+)</td>
<td>Yellow/Black</td>
<td>Yellow/Black</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>VSS (vehicle speed sensor)</td>
<td>[DATA]</td>
<td>Pink</td>
<td>Green/White</td>
<td>N/A</td>
<td>Pink</td>
</tr>
</tbody>
</table>
# VEHICLE WIRE REFERENCE CHART

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Connector Name</th>
<th>Connector Color</th>
<th>Connector Type</th>
<th>Position</th>
<th>Wire Color</th>
<th>Polarity</th>
<th>Wire Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Camera Power</td>
<td>-</td>
<td>-</td>
<td>16 pin</td>
<td>07</td>
<td>Black</td>
<td>[+]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Ground</td>
<td>-</td>
<td>-</td>
<td>16 pin</td>
<td>15</td>
<td>Shield</td>
<td>[-]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Video +</td>
<td>-</td>
<td>-</td>
<td>16 pin</td>
<td>08</td>
<td>White</td>
<td>[+]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Video -</td>
<td>-</td>
<td>-</td>
<td>16 pin</td>
<td>16</td>
<td>Red</td>
<td>[-]</td>
<td>Reverse camera harness</td>
</tr>
</tbody>
</table>

**REVERSE CAMERA CONNECTOR (WIRE SIDE)**

![Diagram of reverse camera connector](image-url)
INSTALL GUIDE
TOYOTA CAMRY
WITHOUT JBL 2007-2011
RETAINS FACTORY AMPLIFIER, STEERING WHEEL CONTROLS, AND MORE!

PRODUCTS REQUIRED
iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro TO1 Installation Harness

PROGRAMMED Firmware
ADS-RR(SR)-TOY01-DS

OPTIONAL ACCESSORIES
Click here for:
Radar Integration Installation Guide
Radar Integration Owner's Guide for Kenwood and JVC Radios

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

<table>
<thead>
<tr>
<th>Content</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installation Instructions</td>
<td>3</td>
</tr>
<tr>
<td>Wiring Diagram</td>
<td>4</td>
</tr>
<tr>
<td>Radio Wire Reference Chart</td>
<td>5</td>
</tr>
<tr>
<td>Vehicle Wire Reference Chart</td>
<td>6</td>
</tr>
</tbody>
</table>

NEED HELP?

1 866 427-2999

maestro.support@adsdata.ca

maestro.idatalink.com/support
www.12voltdatalink.com/forum
INSTALLATION INSTRUCTIONS

**STEP 1**
- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
- Remove the factory radio.

**STEP 2**
- If the vehicle is equipped with an OEM backup camera, connect the TO1 T-harness to the backup camera harness (see wire chart for details).

**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 TO1 T-harness.

**STEP 4**
- Plug the OBDII connector into the OBDII of the vehicle, under driver dash.

**STEP 5**
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the auxiliary RCA cables 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.

NOTE:
In Pioneer radios: plug Audio cable in auxiliary input of the radio.

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

**TROUBLESHOOTING TIPS:**
- To reset the module back its factory settings, 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.
- For technical assistance call 1-866-427-2999 or e-mail “maestro.support@idatalink.com”. Visit us at “maestro.idatalink.com/support” and “www.12voltdata.com/forum/”
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 (+)
- BLUE/BLACK - RR SPEAKER (-)
- RED - ACCESSORY (+)
- YELLOW - 12V (+)
- YELLOW/BLACK - FOOT BRAKE
- ORANGE - ILLUMINATION (+)
- LTGREEN - E-BRAKE (-)
- BLUE/WHITE - AMP. TURN ON (+)
- BLUE/YELLOW - CAM. POWER (+)
- BLACK - GROUND (-)

**STEP 2**

- REVERSE CAMERA HARNESS

**STEP 3**

- FACTORY RADIO HARNESS

**STEP 4**

- OBDDII CONNECTOR

**STEP 5**

- MAIN HARNESS

**STEP 6**

- WIRES FROM VEHICLE

**CONNECT TO AFTERMARKET RADIO**
## RADIO WIRE REFERENCE CHART

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Polarity</th>
<th>Wire Color on Maestro T-Harness</th>
<th>Wire Color on Alpine cable</th>
<th>Wire Color on Kenwood cable</th>
<th>Wire Color on Pioneer cable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Illumination</td>
<td>(+)</td>
<td>Orange</td>
<td>N/A</td>
<td>Orange/White</td>
<td>Orange/White</td>
</tr>
<tr>
<td>Reverse Light</td>
<td>(+)</td>
<td>Purple/White</td>
<td>Orange/White</td>
<td>Purple/White</td>
<td>Purple/White</td>
</tr>
<tr>
<td>E-Brake</td>
<td>(-)</td>
<td>Lt Green</td>
<td>Yellow/Blue</td>
<td>Lt Green</td>
<td>Lt Green</td>
</tr>
<tr>
<td>Foot Brake</td>
<td>(+)</td>
<td>Yellow/Black</td>
<td>Yellow/Black</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>VSS (vehicle speed sensor)</td>
<td>[DATA]</td>
<td>Pink</td>
<td>Green/White</td>
<td>N/A</td>
<td>Pink</td>
</tr>
</tbody>
</table>
## VEHICLE WIRE REFERENCE CHART

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Connector Name</th>
<th>Connector Color</th>
<th>Connector Type</th>
<th>Position</th>
<th>Wire Color</th>
<th>Polarity</th>
<th>Wire Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Camera Power</td>
<td>–</td>
<td>–</td>
<td>24 pin</td>
<td>24</td>
<td>Black</td>
<td>[+]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Ground</td>
<td>–</td>
<td>–</td>
<td>24 pin</td>
<td>21</td>
<td>Shield</td>
<td>[-]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Video +</td>
<td>–</td>
<td>–</td>
<td>24 pin</td>
<td>22</td>
<td>Red</td>
<td>[+]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Video -</td>
<td>–</td>
<td>–</td>
<td>24 pin</td>
<td>23</td>
<td>White</td>
<td>[-]</td>
<td>Reverse camera harness</td>
</tr>
</tbody>
</table>

### REVERSE CAMERA CONNECTOR (WIRE SIDE)

![Diagram of reverse camera connector](image-url)
INSTALL GUIDE
TOYOTA COROLLA IM
2017-2018
RETAINS FACTORY AMPLIFIER, STEERING WHEEL CONTROLS, AND MORE!

PRODUCTS REQUIRED
iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro TO1 Installation Harness

OPTIONAL ACCESSORIES
Click here for:
Radar Integration Installation Guide
Radar Integration Owner’s Guide for Kenwood and JVC Radios

PROGRAMMED FIRMWARE
ADS-RR(SR)-TOY01-DS

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?

Phone: 1 866 427-2999

Email: maestro.support@adsdata.ca

Website: maestro.idatalink.com/support

Forums: www.12voltdata.com/forum

---

# TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installation Instructions</td>
<td>3</td>
</tr>
<tr>
<td>Wiring Diagram</td>
<td>4</td>
</tr>
<tr>
<td>Radio Wire Reference Chart</td>
<td>5</td>
</tr>
<tr>
<td>Vehicle Wire Reference Chart</td>
<td>6</td>
</tr>
</tbody>
</table>
INSTALLATION INSTRUCTIONS

STEP 1
- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
- Remove the factory radio.

STEP 2
- If the vehicle is equipped with an OEM backup camera, connect the TO1 T-harness to the backup camera harness [see wire chart for details].

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 TO1 T-harness.

STEP 4
- Plug the OBDII connector into the OBDII of the vehicle, under driver dash.

STEP 5
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio [if equipped].
- Connect the auxiliary RCA cables 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.

NOTE:
In Pioneer radios: plug Audio cable in auxiliary input of the radio.

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

TROUBLESHOOTING TIPS:
- To reset the module back its factory settings, 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.
- For technical assistance call 1-866-427-2999 or e-mail “maestro.support@idatalink.com”. Visit us at “maestro.idatalink.com/support” and “www.12voltdata.com/forum/"
**WIRING DIAGRAM without an Amplifier**

**STEP 1**
- See Aftermarket Radio Guide for Radio Wire Colors

**STEP 2**
- Connect if Equipped
- Reverse Camera Harness

**STEP 3**
- Factory Radio Harness
- Connect 20 or 28 Pin Cable

**STEP 4**
- OBDII Connector

**STEP 5**
- Main Harness
- Connect to Aftermarket Radio

**STEP 6**
- RCA Cables
- Audio Cable
- Wired Between Vehicle and Maestro RR Module

**WIRING DETAILS**
- Yellow - 12V (+)
- Black - Ground
- Red - Accessory (+)
- Yellow/Black - Foot Brake
- Orange - Illumination (+)
- Purple/White - Reverse Light (+)
- Light Green - E-BRAKE (-)
- Blue/White - Amp. Turn On (+)
- Green - LR Speaker (+)
- Green/Black - LR Speaker (-)
- Purple/Black - RR Speaker (-)
- Purple - RR Speaker (+)
- White - LF Speaker (+)
- White/Black - LF Speaker (-)
- Gray/Black - RF Speaker (-)
- Gray - RF Speaker (+)

**DATA CABLE**
- Yellow - Video (+)
- Brown - Video (-)
- Blue/Yellow - Cam. Power (+)

**WIRING DIAGRAM**
- Connect 20 or 28 Pin Cable

**TOYOTA COROLLA IM 2017-2018**
## RADIO WIRE REFERENCE CHART

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Polarity</th>
<th>Wire Color on Maestro T-Harness</th>
<th>Wire Color on Alpine cable</th>
<th>Wire Color on Kenwood cable</th>
<th>Wire Color on Pioneer cable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Illumination</td>
<td>(+)</td>
<td>Orange</td>
<td>N/A</td>
<td>Orange/White</td>
<td>Orange/White</td>
</tr>
<tr>
<td>Reverse Light</td>
<td>(+)</td>
<td>Purple/White</td>
<td>Orange/White</td>
<td>Purple/White</td>
<td>Purple/White</td>
</tr>
<tr>
<td>E-Brake</td>
<td>(-)</td>
<td>Lt Green</td>
<td>Yellow/Blue</td>
<td>Lt Green</td>
<td>Lt Green</td>
</tr>
<tr>
<td>Foot Brake</td>
<td>(+)</td>
<td>Yellow/Black</td>
<td>Yellow/Black</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>VSS [vehicle speed sensor]</td>
<td>[DATA]</td>
<td>Pink</td>
<td>Green/White</td>
<td>N/A</td>
<td>Pink</td>
</tr>
</tbody>
</table>
### VEHICLE WIRE REFERENCE CHART

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Connector Name</th>
<th>Connector Color</th>
<th>Connector Type</th>
<th>Position</th>
<th>Wire Color</th>
<th>Polarity</th>
<th>Wire Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Camera Power</td>
<td>-</td>
<td>-</td>
<td>24 pin</td>
<td>11</td>
<td>Red</td>
<td>+</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Ground</td>
<td>-</td>
<td>-</td>
<td>24 pin</td>
<td>23</td>
<td>Shield</td>
<td>-</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Video +</td>
<td>-</td>
<td>-</td>
<td>24 pin</td>
<td>12</td>
<td>Black</td>
<td>+</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Video -</td>
<td>-</td>
<td>-</td>
<td>24 pin</td>
<td>24</td>
<td>White</td>
<td>-</td>
<td>Reverse camera harness</td>
</tr>
</tbody>
</table>

**REVERSE CAMERA CONNECTORS (WIRE SIDE)**

```plaintext
12 11 10 9 8 7 6 5 4 3 2 1
24 23 22 21 20 19 18 17 16 15 14 13
```
INSTALL GUIDE
TOYOTA COROLLA
WITH JBL 2009-2013
RETAINS FACTORY AMPLIFIER, STEERING WHEEL CONTROLS, AND MORE!

PRODUCTS REQUIRED
iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro TO1 Installation Harness

OPTIONAL ACCESSORIES
Click here for:
Radar Integration Installation Guide
Radar Integration Owner’s Guide for Kenwood and JVC Radios

PROGRAMMED FIRMWARE
ADS-RR(SR)-TOY01-DS

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@adsdata.ca

maestro.idatalink.com/support

www.12voltdata.com/forum

TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installation Instructions</td>
<td>3</td>
</tr>
<tr>
<td>Wiring Diagram</td>
<td>4</td>
</tr>
<tr>
<td>Radio Wire Reference Chart</td>
<td>5</td>
</tr>
<tr>
<td>Vehicle Wire Reference Chart</td>
<td>6</td>
</tr>
</tbody>
</table>
INSTALLATION INSTRUCTIONS

STEP 1
• Unbox the aftermarket radio and locate its main harness.
• Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
• Remove the factory radio.

STEP 2
• If the vehicle is equipped with an OEM backup camera, connect the TO1 T-harness to the backup camera harness (see wire chart for details).

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 TO1 T-harness.

STEP 4
• Plug the OBDII connector into the OBDII of the vehicle, under driver dash.

STEP 5
• Plug the aftermarket radio harnesses into the aftermarket radio.
• Connect the backup camera RCA cable into the aftermarket radio (if equipped).
• Connect the auxiliary RCA cables 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.

NOTE:
In Pioneer radios: plug Audio cable in auxiliary input of the radio.

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

TROUBLESHOOTING TIPS:
• To reset the module back its factory settings, 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.
• For technical assistance call 1-866-427-2999 or e-mail "maestro.support@idatalink.com". Visit us at "maestro.idatalink.com/support" and "www.12voltdata.com/forum/"
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 (+)
- Yellow/Black - Foot Brake
- Purple/White - Reverse Light (+)
- LtGreen - E-Brake (-)
- Pink - Vehicle Speed
- LtGreen - E-BraKE (-)
- Blue/White - Amp. Turn On (+)
- Yellow - Video (+)
- Brown - Video (-)
- Blue/Yellow - Cam. Power (+)
- Black - Ground (-)

**STEP 2**
- Reverse Camera Harness
- Connect if equipped

**STEP 3**
- Factory Radio Harness
- Connect Amp. Adapter
- Connect 20 or 28 Pin Cable

**STEP 4**
- OBD-II Connector

**STEP 5**
- Main Harness
- Connect to Aftermarket Radio
- RCA Cables

**STEP 6**
- Connect to LF and RF Low Level Outputs
- Wires from Vehicle
- Connect 20 or 28 Pin Cable

**NOT REQUIRED WITH AMP**
- Connections
- Connect MAESTRO RR Module
- Data Cable
- Audio Cable
- AUX IN
- Backup Cam
- See Aftermarket Radio Guide for Radio Wire Colors
- See Wire Chart

YELLOW - 12V (+)
BLACK - GROUND
RED - ACCESSORY (+)
YELLOW - 12V (+)
ORANGE - ILLUMINATION (+)
PURPLE/WHITE - REVERSE LIGHT (+)
LTGREEN - E-BRAKE (-)
PINK - VEHICLE SPEED
LTGREEN - E-BRAKE (-)
BLUE/WHITE - AMP. TURN ON (+)
YELLOW - VIDEO (+)
BROWN - VIDEO (-)
BLUE/YELLOW - CAM. POWER (+)
BLACK - GROUND (-)
# RADIO WIRE REFERENCE CHART

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Polarity</th>
<th>Wire Color on Maestro T-Harness</th>
<th>Wire Color on Alpine cable</th>
<th>Wire Color on Kenwood cable</th>
<th>Wire Color on Pioneer cable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Illumination (+)</td>
<td></td>
<td>Orange</td>
<td>N/A</td>
<td>Orange/White</td>
<td>Orange/White</td>
</tr>
<tr>
<td>Reverse Light (+)</td>
<td></td>
<td>Purple/White</td>
<td>Orange/White</td>
<td>Purple/White</td>
<td>Purple/White</td>
</tr>
<tr>
<td>E-Brake (-)</td>
<td></td>
<td>Lt Green</td>
<td>Yellow/Blue</td>
<td>Lt Green</td>
<td>Lt Green</td>
</tr>
<tr>
<td>Foot Brake (+)</td>
<td></td>
<td>Yellow/Black</td>
<td>Yellow/Black</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>VSS (vehicle speed sensor)</td>
<td>[DATA]</td>
<td>Pink</td>
<td>Green/White</td>
<td>N/A</td>
<td>Pink</td>
</tr>
</tbody>
</table>
VEHICLE WIRE REFERENCE CHART

REVERSE CAMERA NOT AVAILABLE / NOT PRESENT
INSTALL GUIDE

TOYOTA COROLLA

WITHOUT FACTORY SCREEN 2014-2015

RETAINS FACTORY AMPLIFIER, STEERING WHEEL CONTROLS, AND MORE!

PRODUCTS REQUIRED

iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro TO1 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-TOY01-DS

OPTIONAL ACCESSORIES

Click here for:
Radar Integration Installation Guide
Radar Integration Owner’s Guide for Kenwood and JVC Radios

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

installation instructions 3
wiring diagram 4
radio wire reference chart 5
vehicle wire reference chart 6

NEED HELP?

1 866 427-2999
maestro.support@adsdata.ca
maestro.idatalink.com/support
www.12voltdata.com/forum
INSTALLATION INSTRUCTIONS

STEP 1
• Unbox the aftermarket radio and locate its main harness.
• Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
• Remove the factory radio.

STEP 2
• If the vehicle is equipped with an OEM backup camera, connect the TO1 T-harness to the backup camera harness (see wire chart for details).

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 TO1 T-harness.

STEP 4
• Plug the OBDII connector into the OBDII of the vehicle, under driver dash.

STEP 5
• Plug the aftermarket radio harnesses into the aftermarket radio.
• Connect the backup camera RCA cable into the aftermarket radio (if equipped).
• Connect the auxiliary RCA cables 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.

NOTE:
In Pioneer radios: plug Audio cable in auxiliary input of the radio.

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

TROUBLESHOOTING TIPS:
• To reset the module back its factory settings, 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.
• For technical assistance call 1-866-427-2999 or e-mail “maestro.support@idatalink.com”. Visit us at “maestro.idatalink.com/support” and “www.12voltdata.com/forum/”
WIRING DIAGRAM without an Amplifier

**STEP 1**
- WHITE - LF SPEAKER (+)
- WHITE/BLACK - LF SPEAKER (-)
- GRAY/BLACK - RF SPEAKER (+)
- GREEN/BLACK - RF SPEAKER (-)
- GREEN/BLACK - LR SPEAKER (+)
- PURPLE/BLACK - LR SPEAKER (-)
- BLUE/WHITE - AMP. TURN ON (+)
- RED - ACCESSORY (+)
- YELLOW - 12V (+)
- YELLOW/BLACK - FOOT BRAKE
- ORANGE - ILLUMINATION (+)
- LTGREEN - E-BRAKE (-)
- BLUE/WHITE - AMP. TURN ON (-)
- BLACK - GROUND
- PURPLE/WHITE - REVERSE LIGHT (+)
- PURPLE/BLACK - RR SPEAKER (-)
- PINK - VEHICLE SPEED
- WHITE - LF SPEAKER (-)
- WHITE/BLACK - LF SPEAKER (+)
- GRAY/BLACK - RF SPEAKER (-)
- GREEN/BLACK - RF SPEAKER (+)
- GREEN/BLACK - LR SPEAKER (-)
- PURPLE/BLACK - LR SPEAKER (+)
- BLUE/WHITE - AMP. TURN ON (-)
- RED - ACCESSORY (-)
- YELLOW - 12V (-)
- YELLOW/BLACK - FOOT BRAKE
- ORANGE - ILLUMINATION (-)
- LTGREEN - E-BRAKE (+)
- BLUE/WHITE - AMP. TURN ON (+)
- BLACK - GROUND
- PURPLE/WHITE - REVERSE LIGHT (-)
- PURPLE/BLACK - RR SPEAKER (+)
- PINK - VEHICLE SPEED
- WHITE - LF SPEAKER (+)
- WHITE/BLACK - LF SPEAKER (-)
- GRAY/BLACK - RF SPEAKER (+)
- GREEN/BLACK - RF SPEAKER (-)
- GREEN/BLACK - LR SPEAKER (+)
- PURPLE/BLACK - LR SPEAKER (-)
- BLUE/WHITE - AMP. TURN ON (+)
- RED - ACCESSORY (+)
- YELLOW - 12V (+)
- YELLOW/BLACK - FOOT BRAKE
- ORANGE - ILLUMINATION (+)
- LTGREEN - E-BRAKE (-)
- BLUE/WHITE - AMP. TURN ON (-)
- BLACK - GROUND
- PURPLE/WHITE - REVERSE LIGHT (-)
- PURPLE/BLACK - RR SPEAKER (+)
- PINK - VEHICLE SPEED
- WHITE - LF SPEAKER (-)
- WHITE/BLACK - LF SPEAKER (+)
- GRAY/BLACK - RF SPEAKER (-)
- GREEN/BLACK - RF SPEAKER (+)
- GREEN/BLACK - LR SPEAKER (+)
- PURPLE/BLACK - LR SPEAKER (-)
- BLUE/WHITE - AMP. TURN ON (-)
- RED - ACCESSORY (-)
- YELLOW - 12V (-)
- YELLOW/BLACK - FOOT BRAKE
- ORANGE - ILLUMINATION (-)
- LTGREEN - E-BRAKE (+)
- BLUE/WHITE - AMP. TURN ON (+)
- BLACK - GROUND
- PURPLE/WHITE - REVERSE LIGHT (+)
- PURPLE/BLACK - RR SPEAKER (-)
- PINK - VEHICLE SPEED
- WHITE - LF SPEAKER (+)
- WHITE/BLACK - LF SPEAKER (-)
- GRAY/BLACK - RF SPEAKER (+)
- GREEN/BLACK - RF SPEAKER (-)
- GREEN/BLACK - LR SPEAKER (+)
- PURPLE/BLACK - LR SPEAKER (-)
- BLUE/WHITE - AMP. TURN ON (+)
- RED - ACCESSORY (+)
- YELLOW - 12V (+)
- YELLOW/BLACK - FOOT BRAKE
- ORANGE - ILLUMINATION (+)
- LTGREEN - E-BRAKE (-)
- BLUE/WHITE - AMP. TURN ON (-)
- BLACK - GROUND
- PURPLE/WHITE - REVERSE LIGHT (-)
- PURPLE/BLACK - RR SPEAKER (+)
- PINK - VEHICLE SPEED
- WHITE - LF SPEAKER (-)
- WHITE/BLACK - LF SPEAKER (+)
- GRAY/BLACK - RF SPEAKER (-)
- GREEN/BLACK - RF SPEAKER (+)
- GREEN/BLACK - LR SPEAKER (+)
- PURPLE/BLACK - LR SPEAKER (-)
- BLUE/WHITE - AMP. TURN ON (+)
- RED - ACCESSORY (+)
- YELLOW - 12V (+)
- YELLOW/BLACK - FOOT BRAKE

**STEP 2**
- BLUE/YELLOW - CAM. POWER (+)
- BLACK - GROUND (-)
- YELLOW - VIDEO (+)
- BROWN - VIDEO (-)

**STEP 3**
- FACTORY RADIO HARNESS
- WIRING CHART
- SEE AFTERMARKET RADIO GUIDE
- FOR RADIO WIRE COLORS
- CONNECT IF EQUIPPED

**STEP 4**
- OBDII CONNECTOR
- CONNECT 20 OR 28 PIN CABLE

**STEP 5**
- MAIN HARNESS
- CONNECT TO AFTERMARKET RADIO
- RCA CABLES
- DATA CABLE
- AUDIO CABLE
- SEE WIRE CHART

**STEP 6**
- MAESTRO RR MODULE
- CONNECT 20 OR 28 PIN CABLE
- DATA CABLE
- AUDIO CABLE
# RADIO WIRE REFERENCE CHART

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Polarity</th>
<th>Wire Color on Maestro T-Harness</th>
<th>Wire Color on Alpine cable</th>
<th>Wire Color on Kenwood cable</th>
<th>Wire Color on Pioneer cable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Illumination (Illum)</td>
<td>(+)</td>
<td>Orange</td>
<td>N/A</td>
<td>Orange/White</td>
<td>Orange/White</td>
</tr>
<tr>
<td>Reverse Light (+)</td>
<td>(+)</td>
<td>Purple/White</td>
<td>Orange/White</td>
<td>Purple/White</td>
<td>Purple/White</td>
</tr>
<tr>
<td>E-Brake (-)</td>
<td>(-)</td>
<td>Lt Green</td>
<td>Yellow/Blue</td>
<td>Lt Green</td>
<td>Lt Green</td>
</tr>
<tr>
<td>Foot Brake (+)</td>
<td>(+)</td>
<td>Yellow/Black</td>
<td>Yellow/Black</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>VSS [vehicle speed sensor] (DATA)</td>
<td></td>
<td>Pink</td>
<td>Green/White</td>
<td>N/A</td>
<td>Pink</td>
</tr>
</tbody>
</table>
VEHICLE WIRE REFERENCE CHART

REVERSE CAMERA NOT AVAILABLE / NOT PRESENT
INSTALL GUIDE

TOYOTA COROLLA
WITHOUT JBL 2009-2013

RETAINS FACTORY AMPLIFIER, STEERING WHEEL CONTROLS, AND MORE!

PRODUCTS REQUIRED
iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro T01 Installation Harness

OPTIONAL ACCESSORIES
Click here for:
Radar Integration Installation Guide
Radar Integration Owner’s Guide for Kenwood and JVC Radios

PROGRAMMED FIRMWARE
ADS-RR(SR)-TOY01-DS

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

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installation Instructions</td>
<td>3</td>
</tr>
<tr>
<td>Wiring Diagram</td>
<td>4</td>
</tr>
<tr>
<td>Radio Wire Reference Chart</td>
<td>5</td>
</tr>
<tr>
<td>Vehicle Wire Reference Chart</td>
<td>6</td>
</tr>
</tbody>
</table>

NEED HELP?

1 866 427-2999

maestro.support@adsdata.ca

maestro.idatalink.com/support

www.12voltdata.com/forum
INSTALLATION INSTRUCTIONS

STEP 1
• Unbox the aftermarket radio and locate its main harness.
• Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
• Remove the factory radio.

STEP 2
• If the vehicle is equipped with an OEM backup camera, connect the TO1 T-harness to the backup camera harness (see wire chart for details).

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 TO1 T-harness.

STEP 4
• Plug the OBDII connector into the OBDII of the vehicle, under driver dash.

STEP 5
• Plug the aftermarket radio harnesses into the aftermarket radio.
• Connect the backup camera RCA cable into the aftermarket radio (if equipped).
• Connect the auxiliary RCA cables 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.

NOTE:
In Pioneer radios: plug Audio cable in auxiliary input of the radio.

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

TROUBLESHOOTING TIPS:
• To reset the module back its factory settings, 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.
• For technical assistance call 1-866-427-2999 or e-mail “maestro.support@idatalink.com”. Visit us at “maestro.idatalink.com/support” and “www.12voltdata.com/forum/”
WIRING DIAGRAM without an Amplifier

STEP 1
CONNECT TO AFTERMARKET RADIO

STEP 2
REVERSE CAMERA HARNESS
CONNECT IF EQUIPPED

STEP 3
FACTORY RADIO HARNESS

STEP 4
OBDII CONNECTOR

STEP 5
MAIN HARNESS

STEP 6
MAESTRO RR MODULE

TOYOTA COROLLA WITHOUT JBL 2009-2013
## RADIO WIRE REFERENCE CHART

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Polarity</th>
<th>Wire Color on Maestro T-Harness</th>
<th>Wire Color on Alpine cable</th>
<th>Wire Color on Kenwood cable</th>
<th>Wire Color on Pioneer cable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Illumination</td>
<td>(+)</td>
<td>Orange</td>
<td>N/A</td>
<td>Orange/White</td>
<td>Orange/White</td>
</tr>
<tr>
<td>Reverse Light</td>
<td>(+)</td>
<td>Purple/White</td>
<td>Orange/White</td>
<td>Purple/White</td>
<td>Purple/White</td>
</tr>
<tr>
<td>E-Brake</td>
<td>(-)</td>
<td>Lt Green</td>
<td>Yellow/Blue</td>
<td>Lt Green</td>
<td>Lt Green</td>
</tr>
<tr>
<td>Foot Brake</td>
<td>(+)</td>
<td>Yellow/Black</td>
<td>Yellow/Black</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>VSS (vehicle speed sensor)</td>
<td>[DATA]</td>
<td>Pink</td>
<td>Green/White</td>
<td>N/A</td>
<td>Pink</td>
</tr>
</tbody>
</table>
VEHICLE WIRE REFERENCE CHART

REVERSE CAMERA NOT AVAILABLE / NOT PRESENT
INSTALL GUIDE

TOYOTA FJ CRUISER

WITH JBL 2006-2014

RETAINS FACTORY AMPLIFIER, STEERING WHEEL CONTROLS, AND MORE!

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@adsdata.ca

maestro.idatalink.com/support

www.12voltdata.com/forum

TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installation Instructions</td>
</tr>
<tr>
<td>Wiring Diagram</td>
</tr>
<tr>
<td>Radio Wire Reference Chart</td>
</tr>
<tr>
<td>Vehicle Wire Reference Chart</td>
</tr>
</tbody>
</table>

Automotive Data Solutions Inc. © 2018

ADS-RR(SR)-TOY01-DS

maestro.idatalink.com
INSTALLATION INSTRUCTIONS

**STEP 1**
- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
- Remove the factory radio.

**STEP 2**
- If the vehicle is equipped with an OEM backup camera, connect the TO1 T-harness to the backup camera harness (see wire chart for details).

**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 TO1 T-harness.

**STEP 4**
- Plug the OBDII connector into the OBDII of the vehicle, under driver dash.

**STEP 5**
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the auxiliary RCA cables 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.

**NOTE:**
In Pioneer radios: plug Audio cable in auxiliary input of the radio.

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

**TROUBLESHOOTING TIPS:**
- To reset the module back its factory settings, 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.
- For technical assistance call 1-866-427-2999 or e-mail “maestro.support@idatalink.com”. Visit us at “maestro.idatalink.com/support” and “www.12voltdata.com/forum/”
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 (+)
- BLUE/WHITE - AMP. TURN ON (-)
- RED - ACCESSORY (+)
- YELLOW - 12V (+)
- BLACK - GROUND
- ORANGE - ILLUMINATION (+)
- LTGREEN - E-BRAKE (-)
- PINK - VEHICLE SPEED
- BLUE/YELLOW - AMP. TURN ON (+)
- SEE AFTERMARKET RADIO GUIDE FOR RADIO COLORS
- YELLOW/BLACK - FOOT BRAKE

STEP 2
- BLUE/YELLOW - CAM. POWER (+)
- BLACK - GROUND (-)
- YELLOW - VIDEO (+)
- BROWN - VIDEO (-)

STEP 3
- FACTORY RADIO HARNESS
- CONNECT AMP. ADAPTER

STEP 4
- OBDII CONNECTOR
- CONNECT 20 OR 28 PIN CABLE

STEP 5
- MAIN HARNESS
- RCA CABLES
- CONNECT TO LF AND RF LOW LEVEL OUTPUTS

STEP 6
- AUX IN
- BACKUP CAM
- AUDIO CABLE
- DATA CABLE
- CONNECT TO AFTERMARKET RADIO

CONNECT WIRING DIAGRAM WITH 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 (+)
BLUE/WHITE - AMP. TURN ON (-)
RED - ACCESSORY (+)
YELLOW - 12V (+)
BLACK - GROUND
ORANGE - ILLUMINATION (+)
LTGREEN - E-BRAKE (-)
PINK - VEHICLE SPEED
BLUE/YELLOW - AMP. TURN ON (+)
SEE AFTERMARKET RADIO GUIDE FOR RADIO COLORS
YELLOW/BLACK - FOOT BRAKE

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

CONNECT AMP. ADAPTER

CONNECT 20 OR 28 PIN CABLE

CONNECT TO LF AND RF LOW LEVEL OUTPUTS

CONNECT TO AFTERMARKET RADIO

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

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

CONNECT AMP. ADAPTER

CONNECT 20 OR 28 PIN CABLE

CONNECT TO LF AND RF LOW LEVEL OUTPUTS

CONNECT TO AFTERMARKET RADIO
## RADIO WIRE REFERENCE CHART

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Polarity</th>
<th>Wire Color on Maestro T-Harness</th>
<th>Wire Color on Alpine cable</th>
<th>Wire Color on Kenwood cable</th>
<th>Wire Color on Pioneer cable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Illumination</td>
<td>(+)</td>
<td>Orange</td>
<td>N/A</td>
<td>Orange/White</td>
<td>Orange/White</td>
</tr>
<tr>
<td>Reverse Light</td>
<td>(+)</td>
<td>Purple/White</td>
<td>Orange/White</td>
<td>Purple/White</td>
<td>Purple/White</td>
</tr>
<tr>
<td>E-Brake</td>
<td>(-)</td>
<td>Lt Green</td>
<td>Yellow/Blue</td>
<td>Lt Green</td>
<td>Lt Green</td>
</tr>
<tr>
<td>Foot Brake</td>
<td>(+)</td>
<td>Yellow/Black</td>
<td>Yellow/Black</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>VSS (vehicle speed sensor)</td>
<td>[DATA]</td>
<td>Pink</td>
<td>Green/White</td>
<td>N/A</td>
<td>Pink</td>
</tr>
</tbody>
</table>
VEHICLE WIRE REFERENCE CHART

REVERSE CAMERA NOT AVAILABLE / NOT PRESENT
INSTALL GUIDE

TOYOTA FJ CRUISER
WITHOUT JBL 2006-2014

RETAINS FACTORY AMPLIFIER, STEERING WHEEL CONTROLS, AND MORE!

PRODUCTS REQUIRED
iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro T01 Installation Harness

OPTIONAL ACCESSORIES
Click here for:
- Radar Integration Installation Guide
- Radar Integration Owner’s Guide for Kenwood and JVC Radios

PROGRAMMED FIRMWARE
ADS-RR(SR)-TOY01-DS

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@adsdata.ca

maestro.idatalink.com/support

www.12voltdata.com/forum

TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>Installation Instructions</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wiring Diagram</td>
<td>4</td>
</tr>
<tr>
<td>Radio Wire Reference Chart</td>
<td>5</td>
</tr>
<tr>
<td>Vehicle Wire Reference Chart</td>
<td>6</td>
</tr>
</tbody>
</table>
INSTALLATION INSTRUCTIONS

STEP 1
- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
- Remove the factory radio.

STEP 2
- If the vehicle is equipped with an OEM backup camera, connect the TO1 T-harness to the backup camera harness (see wire chart for details).

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 TO1 T-harness.

STEP 4
- Plug the OBDII connector into the OBDII of the vehicle, under driver dash.

STEP 5
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the auxiliary RCA cables 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.

NOTE:
In Pioneer radios: plug Audio cable in auxiliary input of the radio.

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

TROUBLESHOOTING TIPS:
- To reset the module back its factory settings, 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.
- For technical assistance call 1-866-427-2999 or e-mail “maestro.support@idatalink.com”. Visit us at “maestro.idatalink.com/support” and “www.12voltdata.com/forum/”
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 (+)
- PURPLE/WHITE - REVERSE LIGHT (+)
- LT GREEN - E-BRAKE (-)
- PINK - VEHICLE SPEED
- LT GREEN - E-BRAKE (-)
- BLUE/WHITE - AMP. TURN ON (+)

**STEP 2**
- BLUE/YELLOW - CAM. POWER (+)
- BLACK - GROUND (-)
- YELLOW - VIDEO (+)
- BROWN - VIDEO (-)

**STEP 3**
- FACTORY RADIO HARNESS
- CONNECT IF EQUIPPED

**STEP 4**
- OBDII CONNECTOR
- CONNECT 20 OR 28 PIN CABLE

**STEP 5**
- MAIN HARNESS
- CONNECT TO AFTERMARKET RADIO
- RCA CABLES

**STEP 6**
- AUDIO CABLE
- DATA CABLE
- MAESTRO RR MODULE
- CONNECT 20 OR 28 PIN CABLE

Color Codes:
- YELLOW - 12V (+)
- BLACK - GROUND
- RED - ACCESSORY (+)
- WHITE - LF SPEAKER (+)
- WHITE/BLACK - LF SPEAKER (-)
- ORANGE - ILLUMINATION (+)
- PURPLE/WHITE - REVERSE LIGHT (+)
- LT GREEN - E-BRAKE (-)
- PINK - VEHICLE SPEED
- GREEN - LR SPEAKER (+)
- GREEN/BLACK - LR SPEAKER (-)
- PURPLE - RR SPEAKER (+)
- PURPLE/BLACK - RR SPEAKER (-)
- BLUE/WHITE - AMP. TURN ON (+)
- BLUE/WHITE - AMP. TURN ON (+)
- YELLOW/BLACK - FOOT BRAKE

Additional Information:
- SEE AFTERMARKET RADIO GUIDE FOR RADIO WIRE COLORS
- SEE WIRE CHART
- GREEN - LR SPEAKER (+)
- GREEN/BLACK - LR SPEAKER (-)
- PURPLE/BLACK - RR SPEAKER (-)
- PURPLE - RR SPEAKER (+)
- 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 (+)
- BLUE/WHITE - AMP. TURN ON (+)
- YELLOW/BLACK - FOOT BRAKE

Diagram: Wiring diagram showing the connections and colors for the Toyota FJ Cruiser without JBL 2006-2014.
## RADIO WIRE REFERENCE CHART

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Polarity</th>
<th>Wire Color on Maestro T-Harness</th>
<th>Wire Color on Alpine cable</th>
<th>Wire Color on Kenwood cable</th>
<th>Wire Color on Pioneer cable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Illumination</td>
<td>(+)</td>
<td>Orange</td>
<td>N/A</td>
<td>Orange/White</td>
<td>Orange/White</td>
</tr>
<tr>
<td>Reverse Light</td>
<td>(+)</td>
<td>Purple/White</td>
<td>Orange/White</td>
<td>Purple/White</td>
<td>Purple/White</td>
</tr>
<tr>
<td>E-Brake</td>
<td>(-)</td>
<td>Lt Green</td>
<td>Yellow/Blue</td>
<td>Lt Green</td>
<td>Lt Green</td>
</tr>
<tr>
<td>Foot Brake</td>
<td>(+)</td>
<td>Yellow/Black</td>
<td>Yellow/Black</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>VSS [vehicle speed sensor]</td>
<td>[DATA]</td>
<td>Pink</td>
<td>Green/White</td>
<td>N/A</td>
<td>Pink</td>
</tr>
</tbody>
</table>
VEHICLE WIRE REFERENCE CHART

REVERSE CAMERA NOT AVAILABLE / NOT PRESENT
INSTALL GUIDE

TOYOTA HIGHLANDER
WITH JBL 2008-2012

RETAINS FACTORY AMPLIFIER, STEERING WHEEL CONTROLS, AND MORE!

PRODUCTS REQUIRED
iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro T01 Installation Harness

OPTIONAL ACCESSORIES
Click here for:
Radar Integration Installation Guide
Radar Integration Owner’s Guide for Kenwood and JVC Radios

PROGRAMMED FIRMWARE
ADS-RR(SR)-TOY01-DS

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@adsdata.ca

maestro.idatalink.com/support

www.12voltdata.com/forum

TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installation Instructions</td>
<td>3</td>
</tr>
<tr>
<td>Wiring Diagram</td>
<td>4</td>
</tr>
<tr>
<td>Radio Wire Reference Chart</td>
<td>5</td>
</tr>
<tr>
<td>Vehicle Wire Reference Chart</td>
<td>6</td>
</tr>
</tbody>
</table>
INSTALLATION INSTRUCTIONS

STEP 1
• Unbox the aftermarket radio and locate its main harness.
• Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
• Remove the factory radio.

STEP 2
• If the vehicle is equipped with an OEM backup camera, connect the TO1 T-harness to the backup camera harness (see wire chart for details).

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 TO1 T-harness.

STEP 4
• Plug the OBDII connector into the OBDII of the vehicle, under driver dash.

STEP 5
• Plug the aftermarket radio harnesses into the aftermarket radio.
• Connect the backup camera RCA cable into the aftermarket radio (if equipped).
• Connect the auxiliary RCA cables 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.

NOTE:
In Pioneer radios: plug Audio cable in auxiliary input of the radio.

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

TROUBLESHOOTING TIPS:
• To reset the module back its factory settings, 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.
• For technical assistance call 1-866-427-2999 or e-mail “maestro.support@idatalink.com”. Visit us at “maestro.idatalink.com/support” and “www.12voltdata.com/forum/”
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 (+)
- BLACK/WHITE - GROUND
- ORANGE - ILLUMINATION (+)
- PURPLE/WHITE - REVERSE LIGHT (+)
- LT GREEN - E-BRAKE (-)
- PINK - VEHICLE SPEED
- LT GREEN - E-BRAKE (-)
- BLUE/WHITE - AMP. TURN ON (+)

**STEP 2**
- REVERSE CAMERA HARNESS
  - BLUE/YELLOW - CAM. POWER (+)
  - BLACK - GROUND (-)
  - YELLOW - VIDEO (+)
  - BROWN - VIDEO (-)

**STEP 3**
- FACTORY RADIO HARNESS
  - CONNECT AMP. ADAPTER

**STEP 4**
- 101 T-HARNESS

**STEP 5**
- MAIN HARNESS
- RCA CABLES
- AUX IN
- BACKUP CAM
- CONNECT TO AFTERMARKET RADIO
- DATA CABLE
- AUDIO CABLE

**STEP 6**
- MAESTRO RR MODULE
- CONNECT 20 OR 28 PIN CABLE
- CONNECT TO LF AND RF LOW LEVEL OUTPUTS

**WIRING DIAGRAM**
- Wiring diagram for connecting an aftermarket radio and an amplifier to a Toyota Highlander with JBL 2008-2012.

**CONNECT TO VEHICLE**
- WIRING DIAGRAM
- DATA CABLE
- AUDIO CABLE
- 101 T-HARNESS

**WIRING COLORS**
- YELLOW - 12V (+)
- BLACK - GROUND
- RED - ACCESSORY (+)
- YELLOW/BLACK - FOOT BRAKE
- ORANGE - ILLUMINATION (+)
- PURPLE/WHITE - REVERSE LIGHT (+)
- LT GREEN - E-BRAKE (-)
- PINK - VEHICLE SPEED
- 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 (+)
- PURPLE/WHITE - REVERSE LIGHT (+)
- LT GREEN - E-BRAKE (-)
- PINK - VEHICLE SPEED
- YELLOW/BLACK - FOOT BRAKE

**FURTHER INFORMATION**
- SEE AFTERMARKET RADIO GUIDE FOR RADIO WIRE COLORS
- SEE WIRE CHART
- HIGH RESOLUTION PDFs AVAILABLE AT maestro.idatalink.com
## RADIO WIRE REFERENCE CHART

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Polarity</th>
<th>Wire Color on Maestro T-Harness</th>
<th>Wire Color on Alpine cable</th>
<th>Wire Color on Kenwood cable</th>
<th>Wire Color on Pioneer cable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Illumination (+)</td>
<td>Orange</td>
<td>N/A</td>
<td>Orange/White</td>
<td>Orange/White</td>
<td>Orange/White</td>
</tr>
<tr>
<td>Reverse Light (+)</td>
<td>Purple/White</td>
<td>Orange/White</td>
<td>Purple/White</td>
<td>Purple/White</td>
<td>Purple/White</td>
</tr>
<tr>
<td>E-Brake (-)</td>
<td>Lt Green</td>
<td>Yellow/Blue</td>
<td>Lt Green</td>
<td>N/A</td>
<td>Lt Green</td>
</tr>
<tr>
<td>Foot Brake (+)</td>
<td>Yellow/Black</td>
<td>Yellow/Black</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>VSS [vehicle speed sensor] [DATA]</td>
<td>Pink</td>
<td>Green/White</td>
<td>N/A</td>
<td>Pink</td>
<td></td>
</tr>
</tbody>
</table>
# VEHICLE WIRE REFERENCE CHART

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Connector Name</th>
<th>Connector Color</th>
<th>Connector Type</th>
<th>Position</th>
<th>Wire Color</th>
<th>Polarity</th>
<th>Wire Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Camera Power</td>
<td>–</td>
<td>–</td>
<td>24 pin</td>
<td>24</td>
<td>Black</td>
<td>[+]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Ground</td>
<td>–</td>
<td>–</td>
<td>24 pin</td>
<td>21</td>
<td>White</td>
<td>[-]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Video +</td>
<td>–</td>
<td>–</td>
<td>24 pin</td>
<td>22</td>
<td>Red</td>
<td>[+]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Video -</td>
<td>–</td>
<td>–</td>
<td>24 pin</td>
<td>23</td>
<td>Shield</td>
<td>[-]</td>
<td>Reverse camera harness</td>
</tr>
</tbody>
</table>

OR

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Connector Name</th>
<th>Connector Color</th>
<th>Connector Type</th>
<th>Position</th>
<th>Wire Color</th>
<th>Polarity</th>
<th>Wire Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Camera Power</td>
<td>–</td>
<td>–</td>
<td>16 pin</td>
<td>07</td>
<td>Black</td>
<td>[+]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Ground</td>
<td>–</td>
<td>–</td>
<td>16 pin</td>
<td>15</td>
<td>White</td>
<td>[-]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Video +</td>
<td>–</td>
<td>–</td>
<td>16 pin</td>
<td>08</td>
<td>Red</td>
<td>[+]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Video -</td>
<td>–</td>
<td>–</td>
<td>16 pin</td>
<td>16</td>
<td>Shield</td>
<td>[-]</td>
<td>Reverse camera harness</td>
</tr>
</tbody>
</table>

---

**REVERSE CAMERA CONNECTORS (WIRE SIDE)**

![Reverse Camera Connector Diagram](image-url)
INSTALL GUIDE
TOYOTA HIGHLANDER
WITH JBL 2013
RETAINS FACTORY AMPLIFIER, STEERING WHEEL CONTROLS, AND MORE!

PRODUCTS REQUIRED
iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro TO1 Installation Harness

OPTIONAL ACCESSORIES
Click here for:
Radar Integration Installation Guide
Radar Integration Owner’s Guide for Kenwood and JVC Radios

PROGRAMMED FIRMWARE
ADS-RR(SR)-TOY01-DS

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

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installation Instructions</td>
<td>3</td>
</tr>
<tr>
<td>Wiring Diagram</td>
<td>4</td>
</tr>
<tr>
<td>Radio Wire Reference Chart</td>
<td>5</td>
</tr>
<tr>
<td>Vehicle Wire Reference Chart</td>
<td>6</td>
</tr>
</tbody>
</table>

NEED HELP?

1 866 427-2999

maestro.support@adsdata.ca

maestro.idatalink.com/support

www.12voltdata.com/forum
INSTALLATION INSTRUCTIONS

STEP 1
- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
- Remove the factory radio.

STEP 2
- If the vehicle is equipped with an OEM backup camera, connect the TO1 T-harness to the backup camera harness (see wire chart for details).

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 TO1 T-harness.

STEP 4
- Plug the OBDII connector into the OBDII of the vehicle, under driver dash.

STEP 5
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the auxiliary RCA cables 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.

NOTE:
In Pioneer radios: plug Audio cable in auxiliary input of the radio.

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

TROUBLESHOOTING TIPS:
- To reset the module back its factory settings, 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.
- For technical assistance call 1-866-427-2999 or e-mail “maestro.support@idatalink.com”. Visit us at “maestro.idatalink.com/support” and “www.12voltdata.com/forum/”
**WIRING DIAGRAM with an Amplifier**

**STEP 1**
- YELLOW - 12V (+)
- BLACK - GROUND
- RED - ACCESSORY (+)
- YELLOW/BLACK - FOOT BRAKE
- BLUE/YELLOW - ILLUMINATION (+)
- PURPLE/WHITE - REVERSE LIGHT (+)
- LTGREEN - E-BRAKE (-)
- BLUE/WHITE - AMP. TURN ON (+)
- GREEN/BLACK - RF SPEAKER (+)
- GREEN/BLACK - LR SPEAKER (+)
- GREEN/BLACK - RR SPEAKER (+)
- BLUE/WHITE - RF SPEAKER (+)
- RED - ACCESSORY (+)
- BLACK - GROUND
- BROWN - VIDEO (-)
- YELLOW - VIDEO (+)
- BLUE/YELLOW - CAM. POWER (+)
- BLACK - GROUND (-)
- 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 (-)
- GREEN/BLACK - RR SPEAKER (+)
- GREEN/BLACK - LR SPEAKER (-)
- WHITE/BLACK - LF SPEAKER (-)
- BLACK - GROUND
- RED - ACCESSORY (+)
- YELLOW - 12V (+)
- RED - ACCESSORY (+)
- BLACK - GROUND
- 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 (-)
- GREEN/BLACK - RR SPEAKER (+)
- GREEN/BLACK - LR SPEAKER (-)
- WHITE/BLACK - LF SPEAKER (-)
- BLACK - GROUND
- RED - ACCESSORY (+)
- YELLOW - 12V (+)
- RED - ACCESSORY (+)
- BLACK - GROUND
- 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 (-)
- GREEN/BLACK - RR SPEAKER (+)
- GREEN/BLACK - LR SPEAKER (-)
- WHITE/BLACK - LF SPEAKER (-)
- BLACK - GROUND
- RED - ACCESSORY (+)
- YELLOW - 12V (+)
- RED - ACCESSORY (+)
- BLACK - GROUND
- 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 (-)
- GREEN/BLACK - RR SPEAKER (+)
- GREEN/BLACK - LR SPEAKER (-)
- WHITE/BLACK - LF SPEAKER (-)
- BLACK - GROUND
- RED - ACCESSORY (+)
- YELLOW - 12V (+)
- RED - ACCESSORY (+)
- BLACK - GROUND
- 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 (-)
- GREEN/BLACK - RR SPEAKER (+)
- GREEN/BLACK - LR SPEAKER (-)
- WHITE/BLACK - LF SPEAKER (-)
- BLACK - GROUND
- RED - ACCESSORY (+)
- YELLOW - 12V (+)
- RED - ACCESSORY (+)
- BLACK - GROUND
- 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 (-)
- GREEN/BLACK - RR SPEAKER (+)
- GREEN/BLACK - LR SPEAKER (-)
- WHITE/BLACK - LF SPEAKER (-)
- BLACK - GROUND
- RED - ACCESSORY (+)
- YELLOW - 12V (+)
- RED - ACCESSORY (+)
- BLACK - GROUND
- 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 (-)
- GREEN/BLACK - RR SPEAKER (+)
- GREEN/BLACK - LR SPEAKER (-)
- WHITE/BLACK - LF SPEAKER (-)
- BLACK - GROUND
- RED - ACCESSORY (+)
- YELLOW - 12V (+)
- RED - ACCESSORY (+)
- BLACK - GROUND
- 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 (-)
- GREEN/BLACK - RR SPEAKER (+)
# RADIO WIRE REFERENCE CHART

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Polarity</th>
<th>Wire Color on Maestro T-Harness</th>
<th>Wire Color on Alpine cable</th>
<th>Wire Color on Kenwood cable</th>
<th>Wire Color on Pioneer cable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Illumination</td>
<td>(+)</td>
<td>Orange</td>
<td>N/A</td>
<td>Orange/White</td>
<td>Orange/White</td>
</tr>
<tr>
<td>Reverse Light</td>
<td>(+)</td>
<td>Purple/White</td>
<td>Orange/White</td>
<td>Purple/White</td>
<td>Purple/White</td>
</tr>
<tr>
<td>E-Brake</td>
<td>(-)</td>
<td>Lt Green</td>
<td>Yellow/Blue</td>
<td>Lt Green</td>
<td>Lt Green</td>
</tr>
<tr>
<td>Foot Brake</td>
<td>(+)</td>
<td>Yellow/Black</td>
<td>Yellow/Black</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>VSS (vehicle speed sensor)</td>
<td>[DATA]</td>
<td>Pink</td>
<td>Green/White</td>
<td>N/A</td>
<td>Pink</td>
</tr>
</tbody>
</table>
## VEHICLE WIRE REFERENCE CHART

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Connector Name</th>
<th>Connector Color</th>
<th>Connector Type</th>
<th>Position</th>
<th>Wire Color</th>
<th>Polarity</th>
<th>Wire Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Camera Power</td>
<td>-</td>
<td>-</td>
<td>24 pin</td>
<td>24</td>
<td>Black</td>
<td>[+]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Ground</td>
<td>-</td>
<td>-</td>
<td>24 pin</td>
<td>21</td>
<td>White</td>
<td>[-]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Video +</td>
<td>-</td>
<td>-</td>
<td>24 pin</td>
<td>22</td>
<td>Red</td>
<td>[+]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Video -</td>
<td>-</td>
<td>-</td>
<td>24 pin</td>
<td>23</td>
<td>Shield</td>
<td>[-]</td>
<td>Reverse camera harness</td>
</tr>
</tbody>
</table>

OR

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Connector Name</th>
<th>Connector Color</th>
<th>Connector Type</th>
<th>Position</th>
<th>Wire Color</th>
<th>Polarity</th>
<th>Wire Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Camera Power</td>
<td>-</td>
<td>-</td>
<td>16 pin</td>
<td>07</td>
<td>Black</td>
<td>[+]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Ground</td>
<td>-</td>
<td>-</td>
<td>16 pin</td>
<td>15</td>
<td>White</td>
<td>[-]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Video +</td>
<td>-</td>
<td>-</td>
<td>16 pin</td>
<td>08</td>
<td>Red</td>
<td>[+]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Video -</td>
<td>-</td>
<td>-</td>
<td>16 pin</td>
<td>16</td>
<td>Shield</td>
<td>[-]</td>
<td>Reverse camera harness</td>
</tr>
</tbody>
</table>

### REVERSE CAMERA CONNECTORS (WIRE SIDE)
INSTALL GUIDE

TOYOTA HIGHLANDER

WITHOUT JBL 2008-2012

RETAINS FACTORY AMPLIFIER, STEERING WHEEL CONTROLS, AND MORE!

PRODUCTS REQUIRED
iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro T01 Installation Harness

PROGRAMMED Firmware
ADS-RR(SR)-TOY01-DS

OPTIONAL ACCESSORIES
Click here for:
Radar Integration Installation Guide
Radar Integration Owner’s Guide for Kenwood and JVC Radios

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

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installation Instructions</td>
<td>3</td>
</tr>
<tr>
<td>Wiring Diagram</td>
<td>4</td>
</tr>
<tr>
<td>Radio Wire Reference Chart</td>
<td>5</td>
</tr>
<tr>
<td>Vehicle Wire Reference Chart</td>
<td>6</td>
</tr>
</tbody>
</table>

NEED HELP?

1 866 427-2999

maestro.support@adsdata.ca

maestro.idatalink.com/support
www.12voltdata.com/forum
INSTALLATION INSTRUCTIONS

STEP 1
- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
- Remove the factory radio.

STEP 2
- If the vehicle is equipped with an OEM backup camera, connect the TO1 T-harness to the backup camera harness (see wire chart for details).

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 TO1 T-harness.

STEP 4
- Plug the OBDII connector into the OBDII of the vehicle, under driver dash.

STEP 5
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the auxiliary RCA cables 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.
  NOTE:
  In Pioneer radios: plug Audio cable in auxiliary input of the radio.

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

TROUBLESHOOTING TIPS:
- To reset the module back its factory settings, 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.
- For technical assistance call 1-866-427-2999 or e-mail “maestro.support@idatalink.com”. Visit us at “maestro.idatalink.com/support” and “www.12voltdata.com/forum/”
WIRING DIAGRAM without an Amplifier

**STEP 1**
- **YELLOW** - 12V (+)
- **BLACK** - GROUND
- **RED** - ACCESSORY (+)
- **YELLOW/BLACK** - FOOT BRAKE
- **ORANGE** - ILLUMINATION (+)
- **PURPLE/WHITE** - REVERSE LIGHT (+)
- **LTGREEN** - E-BRAKE (-)
- **BLUE/WHITE** - AMP. TURN ON (+)
- **BLUE/YELLOW** - CAM. POWER (+)
- **BLACK** - GROUND (-)

**STEP 2**
- **REVERSE CAMERA HARNESS**
- **BLUE/YELLOW** - CAM. POWER (+)
- **BLACK** - GROUND (-)
- **YELLOW - VIDEO (+)**
- **BROWN - VIDEO (-)**

**STEP 3**
- **FACTORY RADIO HARNESS**
- **CONNECT IF EQUIPPED**

**STEP 4**
- **OBDII CONNECTOR**
- **CONNECT 20 OR 28 PIN CABLE**

**STEP 5**
- **MAINT. HARNESS**
- **CONNECT TO AFTERMARKET RADIO**
- **RCA CABLES**

**STEP 6**
- **MAESTRO RR MODULE**
- **DATA CABLE**
- **AUDIO CABLE**

**TOYOTA HIGHLANDER WITHOUT JBL 2008-2012**
# RADIO WIRE REFERENCE CHART

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Polarity</th>
<th>Wire Color on Maestro T-Harness</th>
<th>Wire Color on Alpine cable</th>
<th>Wire Color on Kenwood cable</th>
<th>Wire Color on Pioneer cable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Illumination</td>
<td>(+)</td>
<td>Orange</td>
<td>N/A</td>
<td>Orange/White</td>
<td>Orange/White</td>
</tr>
<tr>
<td>Reverse Light</td>
<td>(+)</td>
<td>Purple/White</td>
<td>Orange/White</td>
<td>Purple/White</td>
<td>Purple/White</td>
</tr>
<tr>
<td>E-Brake</td>
<td>(-)</td>
<td>Lt Green</td>
<td>Yellow/Blue</td>
<td>Lt Green</td>
<td>Lt Green</td>
</tr>
<tr>
<td>Foot Brake</td>
<td>(+)</td>
<td>Yellow/Black</td>
<td>Yellow/Black</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>VSS [vehicle speed sensor]</td>
<td>[DATA]</td>
<td>Pink</td>
<td>Green/White</td>
<td>N/A</td>
<td>Pink</td>
</tr>
</tbody>
</table>
VEHICLE WIRE REFERENCE CHART

REVERSE CAMERA NOT AVAILABLE / NOT PRESENT
INSTALL GUIDE
TOYOTA HIGHLANDER
WITHOUT JBL 2013
RETAINS FACTORY AMPLIFIER, STEERING WHEEL CONTROLS, AND MORE!

PRODUCTS REQUIRED
iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro T01 Installation Harness

PROGRAMMED FIRMWARE
ADS-RR(SR)-TOY01-DS

OPTIONAL ACCESSORIES
Click here for:
Radar Integration Installation Guide
Radar Integration Owner’s Guide for Kenwood and JVC Radios

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

<table>
<thead>
<tr>
<th>Installation Instructions</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wiring Diagram</td>
<td>4</td>
</tr>
<tr>
<td>Radio Wire Reference Chart</td>
<td>5</td>
</tr>
<tr>
<td>Vehicle Wire Reference Chart</td>
<td>6</td>
</tr>
</tbody>
</table>

NEED HELP?

1 866 427-2999

maestro.support@adsdata.ca

maestro.idatalink.com/support

www.12voltdata.com/forum
INSTALLATION INSTRUCTIONS

STEP 1
- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
- Remove the factory radio.

STEP 2
- If the vehicle is equipped with an OEM backup camera, connect the TO1 T-harness to the backup camera harness (see wire chart for details).

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 TO1 T-harness.

STEP 4
- Plug the OBDII connector into the OBDII of the vehicle, under driver dash.

STEP 5
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the auxiliary RCA cables 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.

NOTE:
In Pioneer radios: plug Audio cable in auxiliary input of the radio.

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

TROUBLESHOOTING TIPS:
- To reset the module back its factory settings, 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.
- For technical assistance call 1-866-427-2999 or e-mail maestro.support@idatalink.com. Visit us at maestro.idatalink.com/support and www.12voltdata.com/forum/
**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 (+)
- BLUE/WHITE - AMP. TURN ON (-)
- BLACK - GROUND
- RED - ACCESSORY (+)
- YELLOW - 12V (+)
- ORANGE - ILLUMINATION (+)
- PURPLE/WHITE - REVERSE LIGHT (+)
- LT GREEN - E-BRAKE (-)
- PINK - VEHICLE SPEED
- LT GREEN - E-BRAKE (-)
- YEL/BLK - FOOT BRAKE

**STEP 2**
- STEP 2: REVERSE CAMERA HARNESS
  - BLUE/YELLOW - CAM. POWER (+)
  - BLACK - GROUND (-)
  - YELLOW - VIDEO (+)
  - BROWN - VIDEO (-)

**STEP 3**
- STEP 3: FACTORY RADIO HARNESS
- WIRING DIAGRAM without an Amplifier
- GREEN - LR SPEAKER (+)
- GREEN/BLACK - LR SPEAKER (-)
- PURPLE/BLACK - RR SPEAKER (-)
- PURPLE - RR SPEAKER (+)
- WHITE - LF SPEAKER (+)
- WHITE/BLACK - LF SPEAKER (-)
- GRAY - RF SPEAKER (+)
- GRAY/BLACK - RF SPEAKER (-)
- RED - ACCESSORY (+)
- YELLOW - 12V (+)
- ORANGE - ILLUMINATION (+)
- PURPLE/WHITE - REVERSE LIGHT (+)
- LT GREEN - E-BRAKE (-)
- PINK - VEHICLE SPEED
- LT GREEN - E-BRAKE (-)
- YEL/BLK - FOOT BRAKE

**STEP 4**
- STEP 4: OBDII CONNECTOR
- WIRING DIAGRAM without an Amplifier
- GREEN - LR SPEAKER (+)
- GREEN/BLACK - LR SPEAKER (-)
- PURPLE/BLACK - RR SPEAKER (-)
- PURPLE - RR SPEAKER (+)
- WHITE - LF SPEAKER (+)
- WHITE/BLACK - LF SPEAKER (-)
- GRAY - RF SPEAKER (+)
- GRAY/BLACK - RF SPEAKER (-)
- RED - ACCESSORY (+)
- YELLOW - 12V (+)
- ORANGE - ILLUMINATION (+)
- PURPLE/WHITE - REVERSE LIGHT (+)
- LT GREEN - E-BRAKE (-)
- PINK - VEHICLE SPEED
- LT GREEN - E-BRAKE (-)
- YEL/BLK - FOOT BRAKE

**STEP 5**
- MAIN HARNESS
- WIRES FROM VEHICLE
- CONNECT 20 OR 28 PIN CABLE
- AUDIO CABLE
- DATA CABLE
- RCA CABLES
- AUX IN
- BACKUP CAM

**STEP 6**
- STEP 6: MAESTRO RR MODULE
- WIRING DIAGRAM without an Amplifier
- GREEN - LR SPEAKER (+)
- GREEN/BLACK - LR SPEAKER (-)
- PURPLE/BLACK - RR SPEAKER (-)
- PURPLE - RR SPEAKER (+)
- WHITE - LF SPEAKER (+)
- WHITE/BLACK - LF SPEAKER (-)
- GRAY - RF SPEAKER (+)
- GRAY/BLACK - RF SPEAKER (-)
- RED - ACCESSORY (+)
- YELLOW - 12V (+)
- ORANGE - ILLUMINATION (+)
- PURPLE/WHITE - REVERSE LIGHT (+)
- LT GREEN - E-BRAKE (-)
- PINK - VEHICLE SPEED
- LT GREEN - E-BRAKE (-)
- YEL/BLK - FOOT BRAKE

**NOTE:** SEE AFTERMARKET RADIO GUIDE FOR RADIO WIRE COLORS

**NEXT PAGE:**
- WIRING DIAGRAM without an Amplifier
- STEPS 1-6
- WIRES FROM VEHICLE
- AUDIO CABLE
- DATA CABLE
- RCA CABLES
- AUX IN
- BACKUP CAM

**FINISHED INSTALLATION:**
- WIRING DIAGRAM without an Amplifier
- STEPS 1-6
- WIRES FROM VEHICLE
- AUDIO CABLE
- DATA CABLE
- RCA CABLES
- AUX IN
- BACKUP CAM
## RADIO WIRE REFERENCE CHART

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Polarity</th>
<th>Wire Color on Maestro T-Harness</th>
<th>Wire Color on Alpine cable</th>
<th>Wire Color on Kenwood cable</th>
<th>Wire Color on Pioneer cable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Illumination</td>
<td>(+)</td>
<td>Orange</td>
<td>N/A</td>
<td>Orange/White</td>
<td>Orange/White</td>
</tr>
<tr>
<td>Reverse Light</td>
<td>(+)</td>
<td>Purple/White</td>
<td>Orange/White</td>
<td>Purple/White</td>
<td>Purple/White</td>
</tr>
<tr>
<td>E-Brake</td>
<td>(-)</td>
<td>Lt Green</td>
<td>Yellow/Blue</td>
<td>Lt Green</td>
<td>Lt Green</td>
</tr>
<tr>
<td>Foot Brake</td>
<td>(+)</td>
<td>Yellow/Black</td>
<td>Yellow/Black</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>VSS (vehicle speed sensor)</td>
<td>[DATA]</td>
<td>Pink</td>
<td>Green/White</td>
<td>N/A</td>
<td>Pink</td>
</tr>
</tbody>
</table>

TOYOTA HIGHLANDER WITHOUT JBL 2013
## VEHICLE WIRE REFERENCE CHART

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Connector Name</th>
<th>Connector Color</th>
<th>Connector Type</th>
<th>Position</th>
<th>Wire Color</th>
<th>Polarity</th>
<th>Wire Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Camera Power</td>
<td>-</td>
<td>-</td>
<td>24 pin</td>
<td>24</td>
<td>Black</td>
<td>+</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Ground</td>
<td>-</td>
<td>-</td>
<td>24 pin</td>
<td>21</td>
<td>White</td>
<td>-</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Video +</td>
<td>-</td>
<td>-</td>
<td>24 pin</td>
<td>22</td>
<td>Red</td>
<td>+</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Video -</td>
<td>-</td>
<td>-</td>
<td>24 pin</td>
<td>23</td>
<td>Shield</td>
<td>-</td>
<td>Reverse camera harness</td>
</tr>
</tbody>
</table>

OR

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Connector Name</th>
<th>Connector Color</th>
<th>Connector Type</th>
<th>Position</th>
<th>Wire Color</th>
<th>Polarity</th>
<th>Wire Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Camera Power</td>
<td>-</td>
<td>-</td>
<td>16 pin</td>
<td>07</td>
<td>Black</td>
<td>+</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Ground</td>
<td>-</td>
<td>-</td>
<td>16 pin</td>
<td>15</td>
<td>White</td>
<td>-</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Video +</td>
<td>-</td>
<td>-</td>
<td>16 pin</td>
<td>08</td>
<td>Red</td>
<td>+</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Video -</td>
<td>-</td>
<td>-</td>
<td>16 pin</td>
<td>16</td>
<td>Shield</td>
<td>-</td>
<td>Reverse camera harness</td>
</tr>
</tbody>
</table>

### REVERSE CAMERA CONNECTORS (WIRE SIDE)

![Diagram of reverse camera connectors (wire side)](image-url)
INSTALL GUIDE

TOYOTA MATRIX

2013-2014

RETAINS FACTORY AMPLIFIER, STEERING WHEEL CONTROLS, AND MORE!

PRODUCTS REQUIRED

- iDatalink Maestro RR Radio Replacement Interface
- iDatalink Maestro TO1 Installation Harness

OPTIONAL ACCESSORIES

Click here for:
- Radar Integration Installation Guide
- Radar Integration Owner’s Guide for Kenwood and JVC Radios

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@adsdata.ca

maestro.idatalink.com/support

www.12voltdata.com/forum

TABLE OF CONTENTS

Installation Instructions 3

Wiring Diagram 4

Radio Wire Reference Chart 5

Vehicle Wire Reference Chart 6
INSTALLATION INSTRUCTIONS

STEP 1
• Unbox the aftermarket radio and locate its main harness.
• Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
• Remove the factory radio.

STEP 2
• If the vehicle is equipped with an OEM backup camera, connect the TO1 T-harness to the backup camera harness (see wire chart for details).

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 TO1 T-harness.

STEP 4
• Plug the OBDII connector into the OBDII of the vehicle, under driver dash.

STEP 5
• Plug the aftermarket radio harnesses into the aftermarket radio.
• Connect the backup camera RCA cable into the aftermarket radio (if equipped).
• Connect the auxiliary RCA cables 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.
  NOTE:
  In Pioneer radios: plug Audio cable in auxiliary input of the radio.

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

TROUBLESHOOTING TIPS:
• To reset the module back its factory settings, 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.
• For technical assistance call 1-866-427-2999 or e-mail “maestro.support@idatalink.com”. Visit us at “maestro.idatalink.com/support” and “www.12voltdata.com/forum/”
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 (+)
- PURPLE/WHITE - REVERSE LIGHT (+)
- LT GREEN - E-BRAKE (-)
- PINK - VEHICLE SPEED
- LT GREEN - E-BRAKE (-)
- BLUE/WHITE - AMP. TURN ON (+)

**STEP 2**

- BLUE/YELLOW - CAM. POWER (+)
- BLACK - GROUND (-)

**STEP 3**

- YELLOW - VIDEO (+)
- BROWN - VIDEO (-)

**STEP 4**

- T01 T-HARNESS

**STEP 5**

- MAIN HARNESS
- RCA CABLES

**STEP 6**

- WIRE FROM VEHICLE
- CONNECT 20 OR 28 PIN CABLE
- AUDIO CABLE
- DATA CABLE
- CONNECT TO AFTERMARKET RADIO
- voir AFTERMARKET RADIO GUIDE FOR RADIO WIRE COLORS

**See Wire Chart**

- GREEN - LR SPEAKER (+)
- GREEN/BLACK - LR SPEAKER (-)
- PURPLE/BLACK - RR SPEAKER (-)
- PURPLE - RR SPEAKER (+)
- 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 (+)
- PURPLE/WHITE - REVERSE LIGHT (+)
- LT GREEN - E-BRAKE (-)
- PINK - VEHICLE SPEED
- LT GREEN - E-BRAKE (-)
- BLUE/WHITE - AMP. TURN ON (+)

**CONNECT TO AFTERMARKET RADIO**

- RCA CABLES

**MAIN HARNESS**

- AUDIO CABLE
- DATA CABLE

**WIRING DIAGRAM**

- AUDIO CABLE
- DATA CABLE

**SEE WIRE CHART**

- GREEN - LR SPEAKER (+)
- GREEN/BLACK - LR SPEAKER (-)
- PURPLE/BLACK - RR SPEAKER (-)
- PURPLE - RR SPEAKER (+)
- 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 (+)
- PURPLE/WHITE - REVERSE LIGHT (+)
- LT GREEN - E-BRAKE (-)
- PINK - VEHICLE SPEED
- LT GREEN - E-BRAKE (-)
- BLUE/WHITE - AMP. TURN ON (+)
# RADIO WIRE REFERENCE CHART

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Polarity</th>
<th>Wire Color on Maestro T-Harness</th>
<th>Wire Color on Alpine cable</th>
<th>Wire Color on Kenwood cable</th>
<th>Wire Color on Pioneer cable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Illumination</td>
<td>(+)</td>
<td>Orange</td>
<td>N/A</td>
<td>Orange/White</td>
<td>Orange/White</td>
</tr>
<tr>
<td>Reverse Light</td>
<td>(+)</td>
<td>Purple/White</td>
<td>Orange/White</td>
<td>Purple/White</td>
<td>Purple/White</td>
</tr>
<tr>
<td>E-Brake</td>
<td>(-)</td>
<td>Lt Green</td>
<td>Yellow/Blue</td>
<td>Lt Green</td>
<td>Lt Green</td>
</tr>
<tr>
<td>Foot Brake</td>
<td>(+)</td>
<td>Yellow/Black</td>
<td>Yellow/Black</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>VSS [vehicle speed sensor]</td>
<td>[DATA]</td>
<td>Pink</td>
<td>Green/White</td>
<td>N/A</td>
<td>Pink</td>
</tr>
</tbody>
</table>
VEHICLE WIRE REFERENCE CHART

REVERSE CAMERA NOT AVAILABLE / NOT PRESENT
INSTALL GUIDE
TOYOTA MATRIX
WITH JBL 2009-2012

RETAILS FACTORY AMPLIFIER, STEERING WHEEL CONTROLS, AND MORE!

PRODUCTS REQUIRED
- iDatalink Maestro RR Radio Replacement Interface
- iDatalink Maestro TO1 Installation Harness

OPTIONAL ACCESSORIES
Click here for:
- Radar Integration Installation Guide
- Radar Integration Owner’s Guide for Kenwood and JVC Radios

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@adsdata.ca

maestro.idatalink.com/support

www.12voltdata.com/forum

TABLE OF CONTENTS

Installation Instructions 3

Wiring Diagram 4

Radio Wire Reference Chart 5

Vehicle Wire Reference Chart 6
INSTALLATION INSTRUCTIONS

STEP 1
- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
- Remove the factory radio.

STEP 2
- If the vehicle is equipped with an OEM backup camera, connect the TO1 T-harness to the backup camera harness [see wire chart for details].

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 TO1 T-harness.

STEP 4
- Plug the OBDII connector into the OBDII of the vehicle, under driver dash.

STEP 5
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the auxiliary RCA cables 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.

NOTE:
In Pioneer radios: plug Audio cable in auxiliary input of the radio.

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

TROUBLESHOOTING TIPS:
- To reset the module back its factory settings, 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.
- For technical assistance call 1-866-427-2999 or e-mail “maestro.support@idatalink.com”. Visit us at “maestro.idatalink.com/support” and “www.12voltdata.com/forum/”
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 (+)
- RED - ACCESSORY (+)
- YELLOW - 12V (+)
- ORANGE - ILLUMINATION (+)
- PURPLE/WHITE - REVERSE LIGHT (+)
- LT. GREEN - E-BRAKE (-)
- PINK - VEHICLE SPEED
- LT. GREEN - E-BRAKE (-)
- BLUE/WHITE - AMP. TURN ON (+)
- BLACK - GROUND
- YELLOW/BLACK - FOOT BRAKE

STEP 2
- BLUE/YELLOW - CAM. POWER (+)
- BLACK - GROUND (-)
- YELLOW VIDEO (+)
- BROWN - VIDEO (-)

STEP 3
- FACTORY RADIO HARNESS

STEP 4
- OBDII CONNECTOR

STEP 5
- MAIN HARNESS

STEP 6
- CONNECT 20 OR 28 PIN CABLE

CONNECTIONS NOT REQUIRED WITH AMP

See Aftermarket Radio Guide for Radio Wire Colors

See Wire Chart

WIRING DIAGRAM with an Amplifier

TOYOTA MATRIX WITH JBL 2009-2012
## RADIO WIRE REFERENCE CHART

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Polarity</th>
<th>Wire Color on Maestro T-Harness</th>
<th>Wire Color on Alpine cable</th>
<th>Wire Color on Kenwood cable</th>
<th>Wire Color on Pioneer cable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Illumination (+)</td>
<td></td>
<td>Orange</td>
<td>N/A</td>
<td>Orange/White</td>
<td>Orange/White</td>
</tr>
<tr>
<td>Reverse Light (+)</td>
<td></td>
<td>Purple/White</td>
<td>Orange/White</td>
<td>Purple/White</td>
<td>Purple/White</td>
</tr>
<tr>
<td>E-Brake (-)</td>
<td></td>
<td>Lt Green</td>
<td>Yellow/Blue</td>
<td>Lt Green</td>
<td>Lt Green</td>
</tr>
<tr>
<td>Foot Brake (+)</td>
<td></td>
<td>Yellow/Black</td>
<td>Yellow/Black</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>VSS [vehicle speed sensor] [DATA]</td>
<td></td>
<td>Pink</td>
<td>Green/White</td>
<td>N/A</td>
<td>Pink</td>
</tr>
</tbody>
</table>
### VEHICLE WIRE REFERENCE CHART

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Connector Name</th>
<th>Connector Color</th>
<th>Connector Type</th>
<th>Position</th>
<th>Wire Color</th>
<th>Polarity</th>
<th>Wire Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Camera Power</td>
<td></td>
<td></td>
<td>24 pin</td>
<td>11</td>
<td>Black</td>
<td>[+]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Ground</td>
<td></td>
<td></td>
<td>24 pin</td>
<td>23</td>
<td>Shield</td>
<td>[-]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Video +</td>
<td></td>
<td></td>
<td>24 pin</td>
<td>12</td>
<td>Red</td>
<td>[+]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Video -</td>
<td></td>
<td></td>
<td>24 pin</td>
<td>24</td>
<td>White</td>
<td>[-]</td>
<td>Reverse camera harness</td>
</tr>
</tbody>
</table>

**REVERSE CAMERA CONNECTOR (WIRE SIDE)**
INSTALL GUIDE

TOYOTA MATRIX
WITHOUT JBL 2009-2012

RETIAINS FACTORY AMPLIFIER, STEERING WHEEL CONTROLS, AND MORE!

PRODUCTS REQUIRED
iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro TO1 Installation Harness

OPTIONAL ACCESSORIES
Click here for:
Radar Integration Installation Guide
Radar Integration Owner’s Guide for Kenwood and JVC Radios

PROGRAMMED FIRMWARE
ADS-RR(SR)-TOY01-DS

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@adsdata.ca
maestro.idatalink.com/support
www.12voltdata.com/forum

TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>Installation Instructions</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wiring Diagram</td>
<td>4</td>
</tr>
<tr>
<td>Radio Wire Reference Chart</td>
<td>5</td>
</tr>
<tr>
<td>Vehicle Wire Reference Chart</td>
<td>6</td>
</tr>
</tbody>
</table>
INSTALLATION INSTRUCTIONS

STEP 1

- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
- Remove the factory radio.

STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the TO1 T-harness to the backup camera harness (see wire chart for details).

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 TO1 T-harness.

STEP 4

- Plug the OBDII connector into the OBDII of the vehicle, under driver dash.

STEP 5

- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the auxiliary RCA cables 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.

NOTE:
In Pioneer radios: plug Audio cable in auxiliary input of the radio.

STEP 6

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

TROUBLESHOOTING TIPS:

- To reset the module back its factory settings, 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.
- For technical assistance call 1-866-427-2999 or e-mail "maestro.support@idatalink.com". Visit us at "maestro.idatalink.com/support" and "www.12voltdata.com/forum/"
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 (+)
- YELLOW/BLACK - FOOT BRAKE
- ORANGE/WHITE - REVERSE LIGHT (+)
- LT GREEN - E-BRAKE (-)
- PINK - VEHICLE SPEED
- LT GREEN - E-BRAKE (-)
- BLUE/WHITE - AMP. TURN ON (+)
- BLUE/YELLOW - CAM. POWER (+)
- BLACK - GROUND (-)
- YELLOW - VIDEO (+)
- BROWN - VIDEO (-)

**STEP 2**
- REVERSE CAMERA HARNESS
  - BLUE/YELLOW - CAM. POWER (+)
  - BLACK - GROUND (-)
  - YELLOW - VIDEO (+)
  - BROWN - VIDEO (-)

**STEP 3**
- FACTORY RADIO HARNESS
  - WIRE TO VEHICLE
  - CONNECT 20 OR 28 PIN CABLE

**STEP 4**
- OBDII CONNECTOR

**STEP 5**
- MAIN HARNESS
  - CONNECT TO AFTERMARKET RADIO
  - RCA CABLES
  - AUX IN
  - BACKUP CAM

**STEP 6**
- TO1 T-HARNESS
- AUDIO CABLE
- VIDEO CABLE
- DATA CABLE
- CONNECT 20 OR 28 PIN CABLE

**WIRING CHART**
- GREEN - LR SPEAKER (+)
- GREEN/BLACK - LR SPEAKER (-)
- PURPLE/BLACK - RR SPEAKER (-)
- PURPLE - RR SPEAKER (+)
- 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 (+)
- YELLOW/BLACK - FOOT BRAKE
- ORANGE/WHITE - REVERSE LIGHT (+)
- LT GREEN - E-BRAKE (-)
- PINK - VEHICLE SPEED
- LT GREEN - E-BRAKE (-)
- BLUE/WHITE - AMP. TURN ON (+)
- BLUE/YELLOW - CAM. POWER (+)
- BLACK - GROUND (-)
- YELLOW - VIDEO (+)
- BROWN - VIDEO (-)

**SEE AFTERMARKET RADIO GUIDE FOR RADIO WIRE COLORS**

**SEE WIRE CHART**

**WIRING DIAGRAM**

TOYOTA MATRIX WITHOUT JBL 2009-2012

Automotive Data Solutions Inc. © 2018

 ADS-RR(SR)-TOY01-DS

maestro.idatalink.com
### RADIO WIRE REFERENCE CHART

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Polarity</th>
<th>Wire Color on Maestro T-Harness</th>
<th>Wire Color on Alpine cable</th>
<th>Wire Color on Kenwood cable</th>
<th>Wire Color on Pioneer cable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Illumination</td>
<td>(+)</td>
<td>Orange</td>
<td>N/A</td>
<td>Orange/White</td>
<td>Orange/White</td>
</tr>
<tr>
<td>Reverse Light</td>
<td>(+)</td>
<td>Purple/White</td>
<td>Orange/White</td>
<td>Purple/White</td>
<td>Purple/White</td>
</tr>
<tr>
<td>E-Brake</td>
<td>(-)</td>
<td>Lt Green</td>
<td>Yellow/Blue</td>
<td>Lt Green</td>
<td>Lt Green</td>
</tr>
<tr>
<td>Foot Brake</td>
<td>(+)</td>
<td>Yellow/Black</td>
<td>Yellow/Black</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>VSS (vehicle speed sensor)</td>
<td>[DATA]</td>
<td>Pink</td>
<td>Green/White</td>
<td>N/A</td>
<td>Pink</td>
</tr>
</tbody>
</table>
# Vehicle Wire Reference Chart

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Connector Name</th>
<th>Connector Color</th>
<th>Connector Type</th>
<th>Position</th>
<th>Wire Color</th>
<th>Polarity</th>
<th>Wire Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Camera Power</td>
<td>-</td>
<td>-</td>
<td>24 pin</td>
<td>11</td>
<td>Black</td>
<td>(+)</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Ground</td>
<td>-</td>
<td>-</td>
<td>24 pin</td>
<td>23</td>
<td>Shield</td>
<td>(-)</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Video +</td>
<td>-</td>
<td>-</td>
<td>24 pin</td>
<td>12</td>
<td>Red</td>
<td>(+)</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Video -</td>
<td>-</td>
<td>-</td>
<td>24 pin</td>
<td>24</td>
<td>White</td>
<td>(-)</td>
<td>Reverse camera harness</td>
</tr>
</tbody>
</table>

---

**Reverse Camera Connector (Wire Side)**
INSTALL GUIDE

TOYOTA PRIUS
BASE 2012-2015

RETAILS FACTORY AMPLIFIER, STEERING WHEEL CONTROLS, AND MORE!

PRODUCTS REQUIRED

iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro TO1 Installation Harness

OPTIONAL ACCESSORIES

Click here for:
Radar Integration Installation Guide
Radar Integration Owner’s Guide for Kenwood and JVC Radios

PROGRAMMED Firmware

ADS-RR(SR)-TOY01-DS

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

<table>
<thead>
<tr>
<th>Installation Instructions</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wiring Diagram</td>
<td>4</td>
</tr>
<tr>
<td>Radio Wire Reference Chart</td>
<td>5</td>
</tr>
<tr>
<td>Vehicle Wire Reference Chart</td>
<td>6</td>
</tr>
</tbody>
</table>

NEED HELP?

☎ 1 866 427-2999
✉ maestro.support@adsdata.ca
💬 maestro.idatalink.com/support
    www.12voltdata.com/forum
INSTALLATION INSTRUCTIONS

STEP 1
• Unbox the aftermarket radio and locate its main harness.
• Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
• Remove the factory radio.

STEP 2
• If the vehicle is equipped with an OEM backup camera, connect the TO1 T-harness to the backup camera harness [see wire chart for details].

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 TO1 T-harness.

STEP 4
• Plug the OBDII connector into the OBDII of the vehicle, under driver dash.

STEP 5
• Plug the aftermarket radio harnesses into the aftermarket radio.
• Connect the backup camera RCA cable into the aftermarket radio [if equipped].
• Connect the auxiliary RCA cables 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.

NOTE:
In Pioneer radios: plug Audio cable in auxiliary input of the radio.

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

TROUBLESHOOTING TIPS:
• To reset the module back its factory settings, 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.
• For technical assistance call 1-866-427-2999 or e-mail “maestro.support@idatalink.com”. Visit us at “maestro.idatalink.com/support” and “www.12voltdata.com/forum/”
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 (+)
- PURPLE/WHITE - REVERSE LIGHT (+)
- LT/BLUE - E-BRAKE (-)
- PINK - VEHICLE SPEED
- LT/BLACK - FOOT BRAKE
- YELLOW/BLACK - FOOT BRAKE
- BLUE/WHITE - AMP. TURN ON (-)
- BLACK - GROUND

**STEP 2**
- BLUE/YELLOW - CAM. POWER (+)
- BLACK - GROUND (-)
- YELLOW - VIDEO (+)
- BROWN - VIDEO (-)
- SEE WIRE CHART

**STEP 3**
- FACTORY RADIO HARNESS
- CONNECT IF EQUIPPED
- WIRE FROM VEHICLE
- CONNECT 20 OR 28 PIN CABLE

**STEP 4**
- OBDII CONNECTOR

**STEP 5**
- CONNECT TO AFTERMARKET RADIO
- RCA CABLES
- AUDIO CABLE

**STEP 6**
- MAIN HARNESS
- CONNECT TO AFTERMARKET RADIO
- RCA CABLES
- DATA CABLE
- AUDIO CABLE

**TOYOTA PRIUS BASE 2012-2015**

**STEP 1**
- STEP 1

**STEP 2**
- STEP 2

**STEP 3**
- STEP 3

**STEP 4**
- STEP 4

**STEP 5**
- STEP 5

**STEP 6**
- STEP 6

*See Aftermarket Radio Guide for Radio Wire Colors*
# RADIO WIRE REFERENCE CHART

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Polarity</th>
<th>Wire Color on Maestro T-Harness</th>
<th>Wire Color on Alpine cable</th>
<th>Wire Color on Kenwood cable</th>
<th>Wire Color on Pioneer cable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Illumination (+)</td>
<td>Orange</td>
<td>N/A</td>
<td>Orange/White</td>
<td>Orange/White</td>
<td>Orange/White</td>
</tr>
<tr>
<td>Reverse Light (+)</td>
<td>Purple/White</td>
<td>Orange/White</td>
<td>Purple/White</td>
<td>Purple/White</td>
<td>Purple/White</td>
</tr>
<tr>
<td>E-Brake (-)</td>
<td>Lt Green</td>
<td>Yellow/Blue</td>
<td>Lt Green</td>
<td>Lt Green</td>
<td>Lt Green</td>
</tr>
<tr>
<td>Foot Brake (+)</td>
<td>Yellow/Black</td>
<td>Yellow/Black</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>VSS [vehicle speed sensor]</td>
<td>[DATA]</td>
<td>Pink</td>
<td>Green/White</td>
<td>N/A</td>
<td>Pink</td>
</tr>
</tbody>
</table>
# VEHICLE WIRE REFERENCE CHART

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Connector Name</th>
<th>Connector Color</th>
<th>Connector Type</th>
<th>Position</th>
<th>Wire Color</th>
<th>Polarity</th>
<th>Wire Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Camera Power</td>
<td>-</td>
<td>-</td>
<td>16 pin</td>
<td>07</td>
<td>White</td>
<td>[+]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Ground</td>
<td>-</td>
<td>-</td>
<td>16 pin</td>
<td>15</td>
<td>Shield</td>
<td>[-]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Video +</td>
<td>-</td>
<td>-</td>
<td>16 pin</td>
<td>08</td>
<td>Red</td>
<td>[+]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Video -</td>
<td>-</td>
<td>-</td>
<td>16 pin</td>
<td>16</td>
<td>Black</td>
<td>[-]</td>
<td>Reverse camera harness</td>
</tr>
</tbody>
</table>

**REVERSE CAMERA CONNECTOR (WIRE SIDE)**
INSTALL GUIDE

TOYOTA PRIUS
WITH JBL 2010-2011

RETAINS FACTORY AMPLIFIER, STEERING WHEEL CONTROLS, AND MORE!

PRODUCTS REQUIRED
iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro TO1 Installation Harness

OPTIONAL ACCESSORIES
Click here for:
- Radar Integration Installation Guide
- Radar Integration Owner’s Guide for Kenwood and JVC Radios

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

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installation Instructions</td>
<td>3</td>
</tr>
<tr>
<td>Wiring Diagram</td>
<td>4</td>
</tr>
<tr>
<td>Radio Wire Reference Chart</td>
<td>5</td>
</tr>
<tr>
<td>Vehicle Wire Reference Chart</td>
<td>6</td>
</tr>
</tbody>
</table>

NEED HELP?

1 866 427-2999

maestro.support@adsdata.ca

maestro.idatalink.com/support

www.12voltdata.com/forum
INSTALLATION INSTRUCTIONS

STEP 1
• Unbox the aftermarket radio and locate its main harness.
• Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
• Remove the factory radio.

STEP 2
• If the vehicle is equipped with an OEM backup camera, connect the TO1 T-harness to the backup camera harness (see wire chart for details).

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 TO1 T-harness.

STEP 4
• Plug the OBDII connector into the OBDII of the vehicle, under driver dash.

STEP 5
• Plug the aftermarket radio harnesses into the aftermarket radio.
• Connect the backup camera RCA cable into the aftermarket radio (if equipped).
• Connect the auxiliary RCA cables 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.

NOTE:
In Pioneer radios: plug Audio cable in auxiliary input of the radio.

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

TROUBLESHOOTING TIPS:
• To reset the module back its factory settings, 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.
• For technical assistance call 1-866-427-2999 or e-mail “maestro.support@idatalink.com”. Visit us at “maestro.idatalink.com/support” and “www.12voltdata.com/forum/”
WIRING DIAGRAM with an Amplifier

**STEP 1**
- WHITE - LF SPEAKER (+)
- WHITE/BLACK - LF SPEAKER (-)
- GRAY/BLACK - RF SPEAKER (+)
- GREEN/BLACK - LR SPEAKER (-)
- GREEN/BLACK - LR SPEAKER (+)
- PURPLE/BLACK - RR SPEAKER (+)
- BLUE/WHITE - Amp. Turn On (+)
- BLACK - GROUND
- RED - Accessory (+)
- YELLOW - 12V (+)
- ORANGE - Illumination (+)
- PURPLE/WHITE - Reverse Light (+)
- LTGREEN - E-BRAKE (-)
- PINK - Vehicle Speed
- BLUE/WHITE - AMP. Turn On (+)

**STEP 2**
- BLUE/YELLOW - Camera Power (+)
- BLACK - Ground (-)
- YELLOW - Video (+)
- BROWN - Video (-)

**STEP 3**
- FACTORY RADIO HARNESS
- MAESTRO RR MODULE
- AUDIO CABLE
- MAIN HARNESS

**STEP 4**
- WIRING DIAGRAM with an Amplifier
- YELLOW - 12V (+)
- BLACK - GROUND
- RED - ACCESSORY (+)
- YELLOW/BLACK - FOOT BRAKE
- ORANGE - ILLUMINATION (+)
- PURPLE/WHITE - REVERSE LIGHT (+)
- LTGREEN - E-BRAKE (-)
- PINK - VEHICLE SPEED
- LTGREEN - E-BRAKE (-)
- BLUE/WHITE - AMP. TURN ON (+)

**STEP 5**
- RCA CABLES
- WIRING DIAGRAM with an Amplifier

**STEP 6**
- WIRING DIAGRAM with an Amplifier
- WIRE COLORS
- SEE WIRE CHART
- Conexion a la radio aftermarket
- CONECTA los cables 20 o 28 PIN

---

AUTOMOTIVE DATA SOLUTIONS INC. © 2018

maestro.idatalink.com
# RADIO WIRE REFERENCE CHART

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Polarity</th>
<th>Wire Color on Maestro T-Harness</th>
<th>Wire Color on Alpine cable</th>
<th>Wire Color on Kenwood cable</th>
<th>Wire Color on Pioneer cable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Illumination</td>
<td>(+)</td>
<td>Orange</td>
<td>N/A</td>
<td>Orange/White</td>
<td>Orange/White</td>
</tr>
<tr>
<td>Reverse Light</td>
<td>(+)</td>
<td>Purple/White</td>
<td>Orange/White</td>
<td>Purple/White</td>
<td>Purple/White</td>
</tr>
<tr>
<td>E-Brake</td>
<td>(-)</td>
<td>Lt Green</td>
<td>Yellow/Blue</td>
<td>Lt Green</td>
<td>Lt Green</td>
</tr>
<tr>
<td>Foot Brake</td>
<td>(+)</td>
<td>Yellow/Black</td>
<td>Yellow/Black</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>VSS [vehicle speed sensor]</td>
<td>[DATA]</td>
<td>Pink</td>
<td>Green/White</td>
<td>N/A</td>
<td>Pink</td>
</tr>
</tbody>
</table>
# VEHICLE WIRE REFERENCE CHART

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Connector Name</th>
<th>Connector Color</th>
<th>Connector Type</th>
<th>Position</th>
<th>Wire Color</th>
<th>Polarity</th>
<th>Wire Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Camera Power</td>
<td>–</td>
<td>–</td>
<td>16 pin</td>
<td>07</td>
<td>White</td>
<td>[+]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Ground</td>
<td>–</td>
<td>–</td>
<td>16 pin</td>
<td>15</td>
<td>Shield</td>
<td>[-]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Video +</td>
<td>–</td>
<td>–</td>
<td>16 pin</td>
<td>08</td>
<td>Red</td>
<td>[+]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Video -</td>
<td>–</td>
<td>–</td>
<td>16 pin</td>
<td>16</td>
<td>Black</td>
<td>[-]</td>
<td>Reverse camera harness</td>
</tr>
</tbody>
</table>

## REVERSE CAMERA CONNECTOR (WIRE SIDE)

![Diagram of Reverse Camera Connector (Wire Side)]
INSTALL GUIDE

TOYOTA PRIUS

WITHOUT JBL 2010-2011

RETAINS FACTORY AMPLIFIER, STEERING WHEEL CONTROLS, AND MORE!

PRODUCTS REQUIRED
iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro TO1 Installation Harness

OPTIMAL ACCESSORIES
Click here for:
Radar Integration Installation Guide
Radar Integration Owner’s Guide for Kenwood and JVC Radios

PROGRAMMED Firmware
ADS-RR(SR)-TOY01-DS

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

| Installation Instructions | 3 |
| Wiring Diagram           | 4 |
| Radio Wire Reference Chart | 5 |
| Vehicle Wire Reference Chart | 6 |

NEED HELP?

1-866-427-2999

maestro.support@adsdata.ca

maestro.idatalink.com/support

www.12voltdata.com/forum
INSTALLATION INSTRUCTIONS

STEP 1
• Unbox the aftermarket radio and locate its main harness.
• Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
• Remove the factory radio.

STEP 2
• If the vehicle is equipped with an OEM backup camera, connect the TO1 T-harness to the backup camera harness (see wire chart for details).

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 TO1 T-harness.

STEP 4
• Plug the OBDII connector into the OBDII of the vehicle, under driver dash.

STEP 5
• Plug the aftermarket radio harnesses into the aftermarket radio.
• Connect the backup camera RCA cable into the aftermarket radio (if equipped).
• Connect the auxiliary RCA cables 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.

NOTE:
In Pioneer radios: plug Audio cable in auxiliary input of the radio.

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

TROUBLESHOOTING TIPS:
• To reset the module back its factory settings, 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.
• For technical assistance call 1-866-427-2999 or e-mail “maestro.support@idatalink.com”. Visit us at “maestro.idatalink.com/support” and “www.12voltdata.com/forum/”
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 (+)
- BLUE/WHITE - AMP. TURN ON (-)
- RED - ACCESSORY (+)
- YELLOW - 12V (+)
- ORANGE - ILLUMINATION (+)
- PURPLE/WHITE - REVERSE LIGHT (+)
- LT/BLUE - E-BRAKE (-)
- PINK - VEHICLE SPEED
- LTGREEN - E-BRAKE (-)
- BLUE/WHITE - AMP. TURN ON (+)
- WHITE/BLACK - FOOT BRAKE

**STEP 2**
- BLUE/YELLOW - CAM. POWER (+)
- BLACK - GROUND (-)
- YELLOW - VIDEO (+)
- BROWN - VIDEO (-)

**STEP 3**
- FACTORY RADIO HARNESS
- WIRE FROM VEHICLE
- CONNECT 20 OR 28 PIN CABLE

**STEP 4**
- OBDII CONNECTOR
- MAESTRO RR MODULE

**STEP 5**
- MAIN HARNESS
- RCA CABLES
- AUX IN
- BACKUP CAM

**STEP 6**
- WIRES FROM VEHICLE
- CONNECT 20 OR 28 PIN CABLE

**WIRING DIAGRAM**
- STEPS 1 to 6 outlined with various connectors and cables as shown in the diagram.

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

**WIRING CHART**
- STEPS 1 to 6 are detailed with specific wiring instructions and color codes.

**SEE AFTERMARKET RADIO GUIDE FOR RADIO WIRE COLORS**
- SEE WIRE CHART
- CONNECT 20 OR 28 PIN CABLE

**Audio Cable**
- YELLOW - VIDEO (+)
- BROWN - VIDEO (-)
- BLUE/YELLOW - CAM. POWER (+)
- BLACK - GROUND (-)

**Picture In Picture**
- Connect toAftermarket Radio

**Diagram and Guide**
- TOYOTA PRIUS WITHOUT JBL 2010-2011
- Automotive Data Solutions Inc. © 2018

**Maestro RR Module**
# RADIO WIRE REFERENCE CHART

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Polarity</th>
<th>Wire Color on Maestro T-Harness</th>
<th>Wire Color on Alpine cable</th>
<th>Wire Color on Kenwood cable</th>
<th>Wire Color on Pioneer cable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Illumination</td>
<td>(+)</td>
<td>Orange</td>
<td>N/A</td>
<td>Orange/White</td>
<td>Orange/White</td>
</tr>
<tr>
<td>Reverse Light</td>
<td>(+)</td>
<td>Purple/White</td>
<td>Orange/White</td>
<td>Purple/White</td>
<td>Purple/White</td>
</tr>
<tr>
<td>E-Brake</td>
<td>(-)</td>
<td>Lt Green</td>
<td>Yellow/Blue</td>
<td>Lt Green</td>
<td>Lt Green</td>
</tr>
<tr>
<td>Foot Brake</td>
<td>(+)</td>
<td>Yellow/Black</td>
<td>Yellow/Black</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>VSS [vehicle speed sensor]</td>
<td>[DATA]</td>
<td>Pink</td>
<td>Green/White</td>
<td>N/A</td>
<td>Pink</td>
</tr>
</tbody>
</table>
## VEHICLE WIRE REFERENCE CHART

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Connector Name</th>
<th>Connector Color</th>
<th>Connector Type</th>
<th>Position</th>
<th>Wire Color</th>
<th>Polarity</th>
<th>Wire Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Camera Power</td>
<td>-</td>
<td>-</td>
<td>16 pin</td>
<td>07</td>
<td>White</td>
<td>(+)</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Ground</td>
<td>-</td>
<td>-</td>
<td>16 pin</td>
<td>15</td>
<td>Shield</td>
<td>(-)</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Video +</td>
<td>-</td>
<td>-</td>
<td>16 pin</td>
<td>08</td>
<td>Red</td>
<td>(+)</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Video -</td>
<td>-</td>
<td>-</td>
<td>16 pin</td>
<td>16</td>
<td>Black</td>
<td>(-)</td>
<td>Reverse camera harness</td>
</tr>
</tbody>
</table>

**REVERSE CAMERA CONNECTOR (WIRE SIDE)**

![Reverse Camera Connector](image)
INSTALL GUIDE

TOYOTA RAV 4
2012

RETAINS FACTORY AMPLIFIER, STEERING WHEEL CONTROLS, AND MORE!

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

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installation Instructions</td>
<td>3</td>
</tr>
<tr>
<td>Wiring Diagram</td>
<td>4</td>
</tr>
<tr>
<td>Radio Wire Reference Chart</td>
<td>5</td>
</tr>
<tr>
<td>Vehicle Wire Reference Chart</td>
<td>6</td>
</tr>
</tbody>
</table>

NEED HELP?

1 866 427-2999

maestro.support@adsdata.ca

maestro.idatalink.com/support

www.12voltdata.com/forum
INSTALLATION INSTRUCTIONS

**STEP 1**
- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
- Remove the factory radio.

**STEP 2**
- If the vehicle is equipped with an OEM backup camera, connect the TO1 T-harness to the backup camera harness (see wire chart for details).

**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 TO1 T-harness.

**STEP 4**
- Plug the OBDII connector into the OBDII of the vehicle, under driver dash.

**STEP 5**
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the auxiliary RCA cables 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.

**NOTE:**
In Pioneer radios: plug Audio cable in auxiliary input of the radio.

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

**TROUBLESHOOTING TIPS:**
- To reset the module back its factory settings, 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.
- For technical assistance call 1-866-427-2999 or e-mail “maestro.support@idatalink.com”. Visit us at “maestro.idatalink.com/support” and “www.12voltdata.com/forum/”
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 (+)
- PURPLE/WHITE - REVERSE LIGHT (+)
- LTGREEN - E-BRAKE (-)
- PINK - VEHICLE SPEED
- LTGREEN - E-BRAKE (-)

**STEP 2**
- BLUE/YELLOW - CAM. POWER (+)
- BLACK - GROUND (-)
- YELLOW - VIDEO (+)
- BROWN - VIDEO (-)

**STEP 3**
- FACTORY RADIO HARNESS
- CONNECT IF EQUIPPED

**STEP 4**
- OBDII CONNECTOR
- CONNECT 20 OR 28 PIN CABLE

**STEP 5**
- MAIN HARNESS
- CONNECT TO AFTERMARKET RADIO
- RCA CABLES
- DATA CABLE
- AUDIO CABLE

**STEP 6**
- MAESTRO RR MODULE
- GREEN - LR SPEAKER (+)
- GREEN-BLACK - LR SPEAKER (-)
- PURPLE/BLACK - RR SPEAKER (-)
- PURPLE - RR SPEAKER (+)
- 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 (+)
- PURPLE/WHITE - REVERSE LIGHT (+)
- LTGREEN - E-BRAKE (-)
- PINK - VEHICLE SPEED
- LTGREEN - E-BRAKE (-)

**WIRING DIAGRAM without an Amplifier**

- SEE AFTERMARKET RADIO WIRE COLORS
- SEE WIRE CHART
- TO1 T-HARNESS
- T-HARNESS

**TOYOTA RAV 4 2012**

Automotive Data Solutions Inc. © 2018

ADS-RR(SR)-TOY01-DS

maestro.idatalink.com
# RADIO WIRE REFERENCE CHART

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Polarity</th>
<th>Wire Color on Maestro T-Harness</th>
<th>Wire Color on Alpine cable</th>
<th>Wire Color on Kenwood cable</th>
<th>Wire Color on Pioneer cable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Illumination (+)</td>
<td>Orange</td>
<td>N/A</td>
<td>Orange/White</td>
<td>Orange/White</td>
<td>Orange/White</td>
</tr>
<tr>
<td>Reverse Light (+)</td>
<td>Purple/White</td>
<td>Orange/White</td>
<td>Purple/White</td>
<td>Purple/White</td>
<td>Purple/White</td>
</tr>
<tr>
<td>E-Brake (-)</td>
<td>Lt Green</td>
<td>Yellow/Blue</td>
<td>Lt Green</td>
<td>Lt Green</td>
<td>Lt Green</td>
</tr>
<tr>
<td>Foot Brake (+)</td>
<td>Yellow/Black</td>
<td>Yellow/Black</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>VSS (vehicle speed sensor) [DATA]</td>
<td>Pink</td>
<td>Green/White</td>
<td>N/A</td>
<td>Pink</td>
<td></td>
</tr>
</tbody>
</table>
VEHICLE WIRE REFERENCE CHART

REVERSE CAMERA NOT AVAILABLE / NOT PRESENT
INSTALL GUIDE
TOYOTA RAV 4
WITH JBL 2006-2011
RETAINS FACTORY AMPLIFIER, STEERING WHEEL CONTROLS, AND MORE!

PRODUCTS REQUIRED
iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro TO1 Installation Harness

OPTIONAL ACCESSORIES
Click here for:
Radar Integration Installation Guide
Radar Integration Owner’s Guide for Kenwood and JVC Radios

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

<table>
<thead>
<tr>
<th>Installation Instructions</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wiring Diagram</td>
<td>4</td>
</tr>
<tr>
<td>Radio Wire Reference Chart</td>
<td>5</td>
</tr>
<tr>
<td>Vehicle Wire Reference Chart</td>
<td>6</td>
</tr>
</tbody>
</table>

NEED HELP?

1 866 427-2999

maestro.support@adsdata.ca

maestro.idatalink.com/support
www.12voltdat.com/forum
INSTALLATION INSTRUCTIONS

STEP 1
- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
- Remove the factory radio.

STEP 2
- If the vehicle is equipped with an OEM backup camera, connect the TO1 T-harness to the backup camera harness (see wire chart for details).

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 TO1 T-harness.

STEP 4
- Plug the OBDII connector into the OBDII of the vehicle, under driver dash.

STEP 5
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the auxiliary RCA cables 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.

NOTE:
In Pioneer radios: plug Audio cable in auxiliary input of the radio.

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

TROUBLESHOOTING TIPS:
- To reset the module back its factory settings, 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.
- For technical assistance call 1-866-427-2999 or e-mail “maestro.support@idatalink.com”. Visit us at “maestro.idatalink.com/support” and “www.12voltdata.com/forum/”
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 (+)
- BLUE/WHITE - AMP. TURN ON (-)
- RED - ACCESSORY (+)
- YELLOW - 12V (+)
- BLACK - GROUND
- BLUE - ILLUMINATION (+)
- ORANGE - ILLUMINATION (-)
- PURPLE/WHITE - REVERSE LIGHT (+)
- LT GREEN - E-BRAKE (-)
- GREEN/BLACK - FOOT BRAKE
- YELLOW/BLACK - ILLUMINATION

**STEP 2**
- REVERSE CAMERA HARNESS
- BLUE/YELLOW - CAM. POWER (+)
- BLACK - GROUND (-)
- YELLOW - VIDEO (+)
- BROWN - VIDEO (-)

**STEP 3**
- FACTORY RADIO HARNESS
- BLUE - ILLUMINATION (+)
- BROWN - ILLUMINATION (-)

**STEP 4**
- OBDII CONNECTOR

**STEP 5**
- MAIN HARNESS
- CONNECT 20 OR 28 PIN CABLE
- CONN. TO LF AND RF LOW LEVEL OUTPUTS
- SEE WIRE CHART

**STEP 6**
- MAESTRO RR MODULE
# RADIO WIRE REFERENCE CHART

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Polarity</th>
<th>Wire Color on Maestro T-Harness</th>
<th>Wire Color on Alpine cable</th>
<th>Wire Color on Kenwood cable</th>
<th>Wire Color on Pioneer cable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Illumination (+)</td>
<td></td>
<td>Orange</td>
<td>N/A</td>
<td>Orange/White</td>
<td>Orange/White</td>
</tr>
<tr>
<td>Reverse Light (+)</td>
<td></td>
<td>Purple/White</td>
<td>Orange/White</td>
<td>Purple/White</td>
<td>Purple/White</td>
</tr>
<tr>
<td>E-Brake (-)</td>
<td></td>
<td>Lt Green</td>
<td>Yellow/Blue</td>
<td>Lt Green</td>
<td>Lt Green</td>
</tr>
<tr>
<td>Foot Brake (+)</td>
<td></td>
<td>Yellow/Black</td>
<td>Yellow/Black</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>VSS [vehicle speed sensor] [DATA]</td>
<td></td>
<td>Pink</td>
<td>Green/White</td>
<td>N/A</td>
<td>Pink</td>
</tr>
</tbody>
</table>
VEHICLE WIRE REFERENCE CHART

REVERSE CAMERA NOT AVAILABLE / NOT PRESENT
INSTALL GUIDE
TOYOTA RAV 4
WITHOUT JBL 2006-2011
RETAINS FACTORY AMPLIFIER, STEERING WHEEL CONTROLS, AND MORE!

PRODUCTS REQUIRED
iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro TO1 Installation Harness

OPTIONAL ACCESSORIES
Click here for:
Radar Integration Installation Guide
Radar Integration Owner’s Guide for Kenwood and JVC Radios

PROGRAMMED FIRMWARE
ADS-RR(SR)-TOY01-DS

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@adsdata.ca
maestro.idatalink.com/support
www.12volldata.com/forum

TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>Installation Instructions</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wiring Diagram</td>
<td>4</td>
</tr>
<tr>
<td>Radio Wire Reference Chart</td>
<td>5</td>
</tr>
<tr>
<td>Vehicle Wire Reference Chart</td>
<td>6</td>
</tr>
</tbody>
</table>

TOYOTA RAV 4 WITHOUT JBL 2006-2011
INSTALLATION INSTRUCTIONS

STEP 1
• Unbox the aftermarket radio and locate its main harness.
• Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
• Remove the factory radio.

STEP 2
• If the vehicle is equipped with an OEM backup camera, connect the TO1 T-harness to the backup camera harness (see wire chart for details).

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 TO1 T-harness.

STEP 4
• Plug the OBDII connector into the OBDII of the vehicle, under driver dash.

STEP 5
• Plug the aftermarket radio harnesses into the aftermarket radio.
• Connect the backup camera RCA cable into the aftermarket radio (if equipped).
• Connect the auxiliary RCA cables 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.

NOTE:
In Pioneer radios: plug Audio cable in auxiliary input of the radio.

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

TROUBLESHOOTING TIPS:
• To reset the module back its factory settings, 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.
• For technical assistance call 1-866-427-2999 or e-mail “maestro.support@idatalink.com”. Visit us at “maestro.idatalink.com/support” and “www.12voltdata.com/forum/”
## RADIO WIRE REFERENCE CHART

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Polarity</th>
<th>Wire Color on Maestro T-Harness</th>
<th>Wire Color on Alpine cable</th>
<th>Wire Color on Kenwood cable</th>
<th>Wire Color on Pioneer cable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Illumination (+)</td>
<td>Orange</td>
<td>N/A</td>
<td>Orange/White</td>
<td>Orange/White</td>
<td>Orange/White</td>
</tr>
<tr>
<td>Reverse Light (+)</td>
<td>Purple/White</td>
<td>Orange/White</td>
<td>Purple/White</td>
<td>Purple/White</td>
<td>Purple/White</td>
</tr>
<tr>
<td>E-Brake (-)</td>
<td>Lt Green</td>
<td>Yellow/Blue</td>
<td>Lt Green</td>
<td>Lt Green</td>
<td>Lt Green</td>
</tr>
<tr>
<td>Foot Brake (+)</td>
<td>Yellow/Black</td>
<td>Yellow/Black</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>VSS (vehicle speed sensor) [DATA]</td>
<td>Pink</td>
<td>Green/White</td>
<td>N/A</td>
<td>Pink</td>
<td>N/A</td>
</tr>
</tbody>
</table>
VEHICLE WIRE REFERENCE CHART

REVERSE CAMERA NOT AVAILABLE / NOT PRESENT
INSTALL GUIDE

TOYOTA SEQUOIA

WITH JBL 2008-2013

RETAINS FACTORY AMPLIFIER, STEERING WHEEL CONTROLS, AND MORE!

PRODUCTS REQUIRED

iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro TO1 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-TOY01-DS

OPTIONAL ACCESSORIES

Click here for:
Radar Integration Installation Guide
Radar Integration Owner’s Guide for Kenwood and JVC Radios

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

<table>
<thead>
<tr>
<th>Installation Instructions</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wiring Diagram</td>
<td>4</td>
</tr>
<tr>
<td>Radio Wire Reference Chart</td>
<td>5</td>
</tr>
<tr>
<td>Vehicle Wire Reference Chart</td>
<td>6</td>
</tr>
</tbody>
</table>

NEED HELP?

1 866 427-2999

maestro.support@adsdata.ca

maestro.idatalink.com/support
www.12voltdata.com/forum
INSTALLATION INSTRUCTIONS

STEP 1
- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
- Remove the factory radio.

STEP 2
- If the vehicle is equipped with an OEM backup camera, connect the TO1 T-harness to the backup camera harness [see wire chart for details].

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 TO1 T-harness.

STEP 4
- Plug the OBDII connector into the OBDII of the vehicle, under driver dash.

STEP 5
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio [if equipped].
- Connect the auxiliary RCA cables 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.

NOTE:
In Pioneer radios: plug Audio cable in auxiliary input of the radio.

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

TROUBLESHOOTING TIPS:
- To reset the module back its factory settings, 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.
- For technical assistance call 1-866-427-2999 or e-mail "maestro.support@idatalink.com". Visit us at "maestro.idatalink.com/support" and "www.12voltdata.com/forum/"
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 (+)
- RED - ACCESSORY (+)
- YELLOW - 12V (+)
- BLACK - GROUND
- ORANGE - ILLUMINATION (+)
- LTGREEN - E-BRAKE (-)
- PINK - VEHICLE SPEED
- BLUE/WHITE - AMP. TURN ON (-)
- YELLOW/BLACK - FOOT BRAKE

**STEP 2**

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

**STEP 3**

- FACTORY RADIO HARNESS

**STEP 4**

- OBDII CONNECTOR

**STEP 5**

- MAIN HARNESS

**STEP 6**

- CONNECT 20 OR 28 PIN CABLE

**WIRING DIAGRAM**

- CONNECIONS NOT REQUIRED WITH AMP

**DATA CABLE**

**STEP 1**

- SEE AFTERMARKET RADIO GUIDE FOR RADIO WIRE COLORS

**STEP 2**

- SEE WIRE CHART

**STEP 3**

- CONNECT AMP. ADAPTER

**STEP 4**

- CONNECT 20 OR 28 PIN CABLE

**STEP 5**

- CONNECT TO LF AND RF LOW LEVEL OUTPUTS

**STEP 6**

- CONNECT TO AFTERMARKET RADIO

**WIRING DIAGRAM**

- WITH AN AMPLIFIER

**DATA CABLE**

- AUDIO CABLE

**WIRING DIAGRAM**

- WITH AN AMPLIFIER

**DATA CABLE**

- AUDIO CABLE

**WIRING DIAGRAM**

- WITH AN AMPLIFIER

**DATA CABLE**

- AUDIO CABLE
## RADIO WIRE REFERENCE CHART

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Polarity</th>
<th>Wire Color on Maestro T-Harness</th>
<th>Wire Color on Alpine cable</th>
<th>Wire Color on Kenwood cable</th>
<th>Wire Color on Pioneer cable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Illumination</td>
<td>(+)</td>
<td>Orange</td>
<td>N/A</td>
<td>Orange/White</td>
<td>Orange/White</td>
</tr>
<tr>
<td>Reverse Light</td>
<td>(+)</td>
<td>Purple/White</td>
<td>Orange/White</td>
<td>Purple/White</td>
<td>Purple/White</td>
</tr>
<tr>
<td>E-Brake</td>
<td>(-)</td>
<td>Lt Green</td>
<td>Yellow/Blue</td>
<td>Lt Green</td>
<td>Lt Green</td>
</tr>
<tr>
<td>Foot Brake</td>
<td>(+)</td>
<td>Yellow/Black</td>
<td>Yellow/Black</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>VSS [vehicle speed sensor]</td>
<td>[DATA]</td>
<td>Pink</td>
<td>Green/White</td>
<td>N/A</td>
<td>Pink</td>
</tr>
</tbody>
</table>
**VEHICLE WIRE REFERENCE CHART**

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Connector Name</th>
<th>Connector Color</th>
<th>Connector Type</th>
<th>Position</th>
<th>Wire Color</th>
<th>Polarity</th>
<th>Wire Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Camera Power</td>
<td></td>
<td></td>
<td>24 pin</td>
<td>24</td>
<td>Black</td>
<td>[+</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Ground</td>
<td></td>
<td></td>
<td>24 pin</td>
<td>21</td>
<td>White</td>
<td>[-]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Video +</td>
<td></td>
<td></td>
<td>24 pin</td>
<td>22</td>
<td>Red</td>
<td>[+</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Video -</td>
<td></td>
<td></td>
<td>24 pin</td>
<td>23</td>
<td>Shield</td>
<td>[-]</td>
<td>Reverse camera harness</td>
</tr>
</tbody>
</table>

OR

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Connector Name</th>
<th>Connector Color</th>
<th>Connector Type</th>
<th>Position</th>
<th>Wire Color</th>
<th>Polarity</th>
<th>Wire Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Camera Power</td>
<td></td>
<td></td>
<td>16 pin</td>
<td>07</td>
<td>Black</td>
<td>[+</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Ground</td>
<td></td>
<td></td>
<td>16 pin</td>
<td>15</td>
<td>White</td>
<td>[-]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Video +</td>
<td></td>
<td></td>
<td>16 pin</td>
<td>08</td>
<td>Red</td>
<td>[+</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Video -</td>
<td></td>
<td></td>
<td>16 pin</td>
<td>16</td>
<td>Shield</td>
<td>[-]</td>
<td>Reverse camera harness</td>
</tr>
</tbody>
</table>

**REVERSE CAMERA CONNECTORS (WIRE SIDE)**
INSTALL GUIDE

TOYOTA SEQUOIA

WITHOUT JBL 2008-2013

RETAINS FACTORY AMPLIFIER, STEERING WHEEL CONTROLS, AND MORE!

PRODUCTS REQUIRED

iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro TO1 Installation Harness

OPTIONAL ACCESSORIES

Click here for:
Radar Integration Installation Guide
Radar Integration Owner's Guide for Kenwood and JVC Radios

ENGINEERING SOLUTIONS

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@adsdata.ca
maestro.idatalink.com/support
www.12voltdata.com/forum

TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installation Instructions</td>
<td>3</td>
</tr>
<tr>
<td>Wiring Diagram</td>
<td>4</td>
</tr>
<tr>
<td>Radio Wire Reference Chart</td>
<td>5</td>
</tr>
<tr>
<td>Vehicle Wire Reference Chart</td>
<td>6</td>
</tr>
</tbody>
</table>
INSTALLATION INSTRUCTIONS

STEP 1
- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
- Remove the factory radio.

STEP 2
- If the vehicle is equipped with an OEM backup camera, connect the TO1 T-harness to the backup camera harness [see wire chart for details].

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 TO1 T-harness.

STEP 4
- Plug the OBDII connector into the OBDII of the vehicle, under driver dash.

STEP 5
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio [if equipped].
- Connect the auxiliary RCA cables 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.

NOTE:
In Pioneer radios: plug Audio cable in auxiliary input of the radio.

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

TROUBLESHOOTING TIPS:
- To reset the module back its factory settings, 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.
- For technical assistance call 1-866-427-2999 or e-mail “maestro.support@idatalink.com”. Visit us at “maestro.idatalink.com/support” and “www.12voltdata.com/forum/”
WIRING DIAGRAM without an Amplifier

**STEP 1**
- **TOYOTA SEQUOIA without JBL 2008-2013**

**STEP 2**
- Reverse Camera Harness: Connect if equipped
- **MAIN HARNESS**
- **RCA CABLES**
- **USB IN**
- **DATA CABLE**

**STEP 3**
- Factory Radio Harness
- **WIRING DIAGRAM without an Amplifier**
- **REVERSE CAMERA HARNESS**
- **CONNECT IF EQUIPPED**

**STEP 4**
- **QBDII CONNECTOR**
- **TO1 T-HARNESS**

**STEP 5**
- **CONNECT TO AFTERMARKET RADIO**
- **AUX IN**
- **BACKUP CAM**

**STEP 6**
- **CONNECT 20 OR 28 PIN CABLE**
- **MAESTRO RR MODULE**

---

**WIRING DETAILS**
- **YELLOW** - 12V (+)
- **BLACK** - GROUND
- **RED** - ACCESSORY (+)
- **YELLOW/BLACK** - FOOT BRAKE
- **ORANGE** - ILLUMINATION (+)
- **PURPLE/WHITE** - REVERSE LIGHT (+)
- **LTGREEN** - E-BRAKE (-)
- **BLUE/WHITE** - AMP. TURN ON (+)
- **GREEN - LR SPEAKER (+)**
- **GREEN/BLACK - LR SPEAKER (-)**
- **PURPLE/BLACK - RR SPEAKER (-)**
- **PURPLE - RR SPEAKER (+)**
- **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 (+)**
# RADIO WIRE REFERENCE CHART

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Polarity</th>
<th>Wire Color on Maestro T-Harness</th>
<th>Wire Color on Alpine cable</th>
<th>Wire Color on Kenwood cable</th>
<th>Wire Color on Pioneer cable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Illumination</td>
<td>(+)</td>
<td>Orange</td>
<td>N/A</td>
<td>Orange/White</td>
<td>Orange/White</td>
</tr>
<tr>
<td>Reverse Light</td>
<td>(+)</td>
<td>Purple/White</td>
<td>Orange/White</td>
<td>Purple/White</td>
<td>Purple/White</td>
</tr>
<tr>
<td>E-Brake</td>
<td>(-)</td>
<td>Lt Green</td>
<td>Yellow/Blue</td>
<td>Lt Green</td>
<td>Lt Green</td>
</tr>
<tr>
<td>Foot Brake</td>
<td>(+)</td>
<td>Yellow/Black</td>
<td>Yellow/Black</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>VSS (vehicle speed sensor)</td>
<td>[DATA]</td>
<td>Pink</td>
<td>Green/White</td>
<td>N/A</td>
<td>Pink</td>
</tr>
</tbody>
</table>
## VEHICLE WIRE REFERENCE CHART

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Connector Name</th>
<th>Connector Color</th>
<th>Connector Type</th>
<th>Position</th>
<th>Wire Color</th>
<th>Polarity</th>
<th>Wire Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Camera Power</td>
<td>-</td>
<td>-</td>
<td>20 pin</td>
<td>13</td>
<td>Black</td>
<td>[+]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Ground</td>
<td>-</td>
<td>-</td>
<td>20 pin</td>
<td>14</td>
<td>White</td>
<td>[-]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Video +</td>
<td>-</td>
<td>-</td>
<td>20 pin</td>
<td>11</td>
<td>Red</td>
<td>[+]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Video -</td>
<td>-</td>
<td>-</td>
<td>20 pin</td>
<td>12</td>
<td>Shield</td>
<td>[-]</td>
<td>Reverse camera harness</td>
</tr>
</tbody>
</table>

### REVERSE CAMERA CONNECTOR (WIRE SIDE)
INSTALL GUIDE
TOYOTA SEQUOIA
WITHOUT JBL 2014-2018
RETAINS FACTORY AMPLIFIER, STEERING WHEEL CONTROLS, AND MORE!

PRODUCTS REQUIRED
iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro TO1 Installation Harness

PROGRAMMED FIRMWARE
ADS-RR(SR)-TOY01-DS

OPTIONAL ACCESSORIES
Click here for:
Radar Integration Installation Guide
Radar Integration Owner’s Guide for Kenwood and JVC Radios

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

<table>
<thead>
<tr>
<th>Installation Instructions</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wiring Diagram</td>
<td>4</td>
</tr>
<tr>
<td>Radio Wire Reference Chart</td>
<td>5</td>
</tr>
<tr>
<td>Vehicle Wire Reference Chart</td>
<td>6</td>
</tr>
</tbody>
</table>

NEED HELP?

1 866 427-2999

maestro.support@adsdata.ca

maestro.idatalink.com/support

www.12voltdata.com/forum
INSTALLATION INSTRUCTIONS

STEP 1
- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
- Remove the factory radio.

STEP 2
- If the vehicle is equipped with an OEM backup camera, connect the TO1 T-harness to the backup camera harness (see wire chart for details).

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 TO1 T-harness.

STEP 4
- Plug the OBDII connector into the OBDII of the vehicle, under driver dash.

STEP 5
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the auxiliary RCA cables 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.

NOTE:
In Pioneer radios: plug Audio cable in auxiliary input of the radio.

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

TROUBLESHOOTING TIPS:
- To reset the module back its factory settings, 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.
- For technical assistance call 1-866-427-2999 or e-mail “maestro.support@idatalink.com”. Visit us at “maestro.idatalink.com/support” and “www.12voltdata.com/forum/”
WIRING DIAGRAM without an Amplifier

**STEP 1**
- Connect 20 or 28 pin cable

**STEP 2**
- Reverse camera harness
- Connect if equipped

**STEP 3**
- Factory radio harness
- Connect if equipped

**STEP 4**
- OBDII connector

**STEP 5**
- Main harness
- Connect to aftermarket radio
- RCA cables

**STEP 6**
- Data cable
- Audio cable
- Connect to aftermarket radio
- See wire chart

**Wires from vehicle**

**Colors**
- 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 (+)
- BLUE/YELLOW - CAM. POWER (+)
- BLACK - GROUND (-)
- YELLOW - VIDEO (+)
- BROWN - VIDEO (-)
- GREEN - LR SPEAKER (+)
- GREEN/BLACK - LR SPEAKER (-)
- PURPLE/BLACK - RR SPEAKER (-)
- PURPLE - RR SPEAKER (+)
- 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 (+)
- BLUE/YELLOW - CAM. POWER (+)
- BLACK - GROUND (-)
- YELLOW - VIDEO (+)
- BROWN - VIDEO (-)
- GREEN - LR SPEAKER (+)
- GREEN/BLACK - LR SPEAKER (-)
- PURPLE/BLACK - RR SPEAKER (-)
- PURPLE - RR SPEAKER (+)
- 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 (+)
- BLUE/YELLOW - CAM. POWER (+)
- BLACK - GROUND (-)
- YELLOW - VIDEO (+)
- BROWN - VIDEO (-)
- GREEN - LR SPEAKER (+)
- GREEN/BLACK - LR SPEAKER (-)
- PURPLE/BLACK - RR SPEAKER (-)
- PURPLE - RR SPEAKER (+)
- 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 (+)
- BLUE/YELLOW - CAM. POWER (+)
- BLACK - GROUND (-)
- YELLOW - VIDEO (+)
- BROWN - VIDEO (-)
- GREEN - LR SPEAKER (+)
- GREEN/BLACK - LR SPEAKER (-)
- PURPLE/BLACK - RR SPEAKER (-)
- PURPLE - RR SPEAKER (+)
- 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 (+)
- BLUE/YELLOW - CAM. POWER (+)
- BLACK - GROUND (-)
- YELLOW - VIDEO (+)
- BROWN - VIDEO (-)
- GREEN - LR SPEAKER (+)
- GREEN/BLACK - LR SPEAKER (-)
- PURPLE/BLACK - RR SPEAKER (-)
- PURPLE - RR SPEAKER (+)
- 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 (+)
- BLUE/YELLOW - CAM. POWER (+)
- BLACK - GROUND (-)
- YELLOW - VIDEO (+)
- BROWN - VIDEO (-)
- GREEN - LR SPEAKER (+)
- GREEN/BLACK - LR SPEAKER (-)
- PURPLE/BLACK - RR SPEAKER (-)
- PURPLE - RR SPEAKER (+)
- 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 (+)
- BLUE/YELLOW - CAM. POWER (+)
- BLACK - GROUND (-)
- YELLOW - VIDEO (+)
## RADIO WIRE REFERENCE CHART

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Polarity</th>
<th>Wire Color on Maestro T-Harness</th>
<th>Wire Color on Alpine cable</th>
<th>Wire Color on Kenwood cable</th>
<th>Wire Color on Pioneer cable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Illumination</td>
<td>(+)</td>
<td>Orange</td>
<td>N/A</td>
<td>Orange/White</td>
<td>Orange/White</td>
</tr>
<tr>
<td>Reverse Light</td>
<td>(+)</td>
<td>Purple/White</td>
<td>Orange/White</td>
<td>Purple/White</td>
<td>Purple/White</td>
</tr>
<tr>
<td>E-Brake</td>
<td>(-)</td>
<td>Lt Green</td>
<td>Yellow/Blue</td>
<td>Lt Green</td>
<td>Lt Green</td>
</tr>
<tr>
<td>Foot Brake</td>
<td>(+)</td>
<td>Yellow/Black</td>
<td>Yellow/Black</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>VSS (vehicle speed sensor)</td>
<td>[DATA]</td>
<td>Pink</td>
<td>Green/White</td>
<td>N/A</td>
<td>Pink</td>
</tr>
</tbody>
</table>
### VEHICLE WIRE REFERENCE CHART

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Connector Name</th>
<th>Connector Color</th>
<th>Connector Type</th>
<th>Position</th>
<th>Wire Color</th>
<th>Polarity</th>
<th>Wire Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Camera Power</td>
<td>-</td>
<td>-</td>
<td>24 pin</td>
<td>11</td>
<td>Black</td>
<td>[+]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Video +</td>
<td>-</td>
<td>-</td>
<td>24 pin</td>
<td>12</td>
<td>Red</td>
<td>[+]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Video -</td>
<td>-</td>
<td>-</td>
<td>24 pin</td>
<td>24</td>
<td>Shield</td>
<td>[-]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Ground</td>
<td>-</td>
<td>-</td>
<td>24 pin</td>
<td>23</td>
<td>White</td>
<td>[-]</td>
<td>Reverse camera harness</td>
</tr>
</tbody>
</table>

**REVERSE CAMERA CONNECTORS (WIRE SIDE)**
INSTALL GUIDE
TOYOTA SIENNA
WITH JBL 2007-2010
RETAINS FACTORY AMPLIFIER, STEERING WHEEL CONTROLS, AND MORE!

PRODUCTS REQUIRED
iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro TO1 Installation Harness

OPTIONAL ACCESSORIES
Click here for:
Radar Integration Installation Guide
Radar Integration Owner’s Guide for Kenwood and JVC Radios

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

<table>
<thead>
<tr>
<th>Installation Instructions</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wiring Diagram</td>
<td>4</td>
</tr>
<tr>
<td>Radio Wire Reference Chart</td>
<td>5</td>
</tr>
<tr>
<td>Vehicle Wire Reference Chart</td>
<td>6</td>
</tr>
</tbody>
</table>

NEED HELP?

📞 1 866 427-2999

✉️ maestro.support@adsdata.ca

💬 maestro.idatalink.com/support
www.12voltdata.com/forum
INSTALLATION INSTRUCTIONS

STEP 1
- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
- Remove the factory radio.

STEP 2
- If the vehicle is equipped with an OEM backup camera, connect the TO1 T-harness to the backup camera harness (see wire chart for details).

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 TO1 T-harness.

STEP 4
- Plug the OBDII connector into the OBDII of the vehicle, under driver dash.

STEP 5
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the auxiliary RCA cables 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.

NOTE:
In Pioneer radios: plug Audio cable in auxiliary input of the radio.

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

TROUBLESHOOTING TIPS:
- To reset the module back its factory settings, 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.
- For technical assistance call 1-866-427-2999 or e-mail “maestro.support@idatalink.com”. Visit us at "maestro.idatalink.com/support” and "www.12voltdata.com/forum/"
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 (+)
- Purple/White - Reverse Light (+)
- LtGreen - E-brake (-)
- Pink - Vehicle Speed
- LtGreen - E-brake (-)
- Blue/White - Amp. Turn On (+)

**STEP 2**
- Blue/Yellow - Cam. Power (+)
- Black - Ground (-)
- Yellow - Video (+)
- Brown - Video (-)

**STEP 3**
- FACTORY RADIO HARNESS
  - Connect Amp. Adapter

**STEP 4**
- OBDII CONNECTOR
  - Connect 20 or 28 pin cable

**STEP 5**
- MAIN HARNESS
  - Connect to Aftermarket Radio
  - RCA CABLES

**STEP 6**
- WIRING DIAGRAM with an Amplifier
  - Connect wires from vehicle to aftermarket radio
  - See aftermarket radio guide for radio wire colors
  - See wire chart
  - Connections not required with amp

**WIRING DIAGRAM with 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 (+)
- PURPLE/WHITE - REVERSE LIGHT (+)
- LT GREEN - E-BRAKE (-)
- PINK - VEHICLE SPEED
- LT GREEN - E-BRAKE (-)
- BLUE/WHITE - AMP. TURN ON (+)

**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 (+)
- PURPLE/WHITE - REVERSE LIGHT (+)
- LT GREEN - E-BRAKE (-)
- PINK - VEHICLE SPEED
- LT GREEN - E-BRAKE (-)
- BLUE/WHITE - AMP. TURN ON (+)
## RADIO WIRE REFERENCE CHART

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Polarity</th>
<th>Wire Color on Maestro T-Harness</th>
<th>Wire Color on Alpine cable</th>
<th>Wire Color on Kenwood cable</th>
<th>Wire Color on Pioneer cable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Illumination</td>
<td>(+)</td>
<td>Orange</td>
<td>N/A</td>
<td>Orange/White</td>
<td>Orange/White</td>
</tr>
<tr>
<td>Reverse Light</td>
<td>(+)</td>
<td>Purple/White</td>
<td>Orange/White</td>
<td>Purple/White</td>
<td>Purple/White</td>
</tr>
<tr>
<td>E-Brake</td>
<td>(-)</td>
<td>Lt Green</td>
<td>Yellow/Blue</td>
<td>Lt Green</td>
<td>Lt Green</td>
</tr>
<tr>
<td>Foot Brake</td>
<td>(+)</td>
<td>Yellow/Black</td>
<td>Yellow/Black</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>VSS (vehicle speed sensor)</td>
<td>(DATA)</td>
<td>Pink</td>
<td>Green/White</td>
<td>N/A</td>
<td>Pink</td>
</tr>
</tbody>
</table>
### VEHICLE WIRE REFERENCE CHART

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Connector Name</th>
<th>Connector Color</th>
<th>Connector Type</th>
<th>Position</th>
<th>Wire Color</th>
<th>Polarity</th>
<th>Wire Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Camera Power</td>
<td>–</td>
<td>–</td>
<td>24 pin</td>
<td>24</td>
<td>Red</td>
<td>[+]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Ground</td>
<td>–</td>
<td>–</td>
<td>24 pin</td>
<td>21</td>
<td>White</td>
<td>[-]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Video +</td>
<td>–</td>
<td>–</td>
<td>24 pin</td>
<td>22</td>
<td>Black</td>
<td>[+]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Video -</td>
<td>–</td>
<td>–</td>
<td>24 pin</td>
<td>23</td>
<td>Shield</td>
<td>[-]</td>
<td>Reverse camera harness</td>
</tr>
</tbody>
</table>

### REVERSE CAMERA CONNECTOR (WIRE SIDE)

![Diagram of reverse camera connector (wire side)]
INSTALL GUIDE
TOYOTA SIENNA
WITH JBL 2011-2014
RETAINS FACTORY AMPLIFIER, STEERING WHEEL CONTROLS, AND MORE!

PRODUCTS REQUIRED
iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro TO1 Installation Harness

OPTIONAL ACCESSORIES
Click here for:
Radar Integration Installation Guide
Radar Integration Owner’s Guide for Kenwood and JVC Radios

PROGRAMMED FIRMWARE
ADS-RR(SR)-TOY01-DS

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

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installation Instructions</td>
<td>3</td>
</tr>
<tr>
<td>Wiring Diagram</td>
<td>4</td>
</tr>
<tr>
<td>Radio Wire Reference Chart</td>
<td>5</td>
</tr>
<tr>
<td>Vehicle Wire Reference Chart</td>
<td>6</td>
</tr>
</tbody>
</table>

NEED HELP?

1 866 427-2999

maestro.support@adsdata.ca

maestro.idatalink.com/support
www.12voltdata.com/forum
INSTALLATION INSTRUCTIONS

STEP 1
- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
- Remove the factory radio.

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 TO1 T-harness.

Note: The reverse camera cannot be retained in this vehicle.

STEP 3
- Plug the OBDII connector into the OBDII of the vehicle, under driver dash.

STEP 4
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the auxiliary RCA cables 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.

NOTE:
In Pioneer radios: plug Audio cable in auxiliary input of the radio.

STEP 5
- Connect all the harnesses to the Maestro RR module then test your installation.

TROUBLESHOOTING TIPS:
- To reset the module back its factory settings, 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.
- For technical assistance call 1-866-427-2999 or e-mail “maestro.support@idatalink.com”. Visit us at “maestro.idatalink.com/support” and “www.12voltdata.com/forum/”
WIRING DIAGRAM with an Amplifier

**STEP 1**
- Connect 20 or 28 pin cable
- Connect 20 or 28 pin cable
- Connect to LF and RF low level outputs

**STEP 2**
- Connect FACTORY RADIO HARNESS
- Connect AMP. ADAPTER
- Connect to LF and RF low level outputs

**STEP 3**
- Connect OBDII CONNECTOR
- Connect TO1 T-HARNESS

**STEP 4**
- Connect MAIN HARNESS
- Connect TO1 T-HARNESS

**STEP 5**
- Connect MAESTRO RR MODULE
- Connect TO1 T-HARNESS

Connections not required with amp.
# RADIO WIRE REFERENCE CHART

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Polarity</th>
<th>Wire Color on Maestro T-Harness</th>
<th>Wire Color on Alpine cable</th>
<th>Wire Color on Kenwood cable</th>
<th>Wire Color on Pioneer cable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Illumination</td>
<td>(+)</td>
<td>Orange</td>
<td>N/A</td>
<td>Orange/White</td>
<td>Orange/White</td>
</tr>
<tr>
<td>Reverse Light</td>
<td>(+)</td>
<td>Purple/White</td>
<td>Orange/White</td>
<td>Purple/White</td>
<td>Purple/White</td>
</tr>
<tr>
<td>E-Brake</td>
<td>(-)</td>
<td>Lt Green</td>
<td>Yellow/Blue</td>
<td>Lt Green</td>
<td>Lt Green</td>
</tr>
<tr>
<td>Foot Brake</td>
<td>(+)</td>
<td>Yellow/Black</td>
<td>Yellow/Black</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>VSS [vehicle speed sensor]</td>
<td>[DATA]</td>
<td>Pink</td>
<td>Green/White</td>
<td>N/A</td>
<td>Pink</td>
</tr>
</tbody>
</table>
VEHICLE WIRE REFERENCE CHART

REVERSE CAMERA NOT AVAILABLE / NOT PRESENT
INSTALL GUIDE

TOYOTA SIENNA

WITHOUT JBL 2007-2010

RETAINS FACTORY AMPLIFIER, STEERING WHEEL CONTROLS, AND MORE!

PRODUCTS REQUIRED
iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro TO1 Installation Harness

OPTIONAL ACCESSORIES
Click here for:
Radar Integration Installation Guide
Radar Integration Owner’s Guide for Kenwood and JVC Radios

PROGRAMMED FIRMWARE
ADS-RR(SR)-TOY01-DS

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

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installation Instructions</td>
<td>3</td>
</tr>
<tr>
<td>Wiring Diagram</td>
<td>4</td>
</tr>
<tr>
<td>Radio Wire Reference Chart</td>
<td>5</td>
</tr>
<tr>
<td>Vehicle Wire Reference Chart</td>
<td>6</td>
</tr>
</tbody>
</table>

NEED HELP?

1 866 427-2999

maestro.support@adsdata.ca

maestro.idatalink.com/support
www.12voltdata.com/forum
INSTALLATION INSTRUCTIONS

STEP 1

• Unbox the aftermarket radio and locate its main harness.
• Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
• Remove the factory radio.

STEP 2

• If the vehicle is equipped with an OEM backup camera, connect the TO1 T-harness to the backup camera harness [see wire chart for details].

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 TO1 T-harness.

STEP 4

• Plug the OBDII connector into the OBDII of the vehicle, under driver dash.

STEP 5

• Plug the aftermarket radio harnesses into the aftermarket radio.
• Connect the backup camera RCA cable into the aftermarket radio [if equipped].
• Connect the auxiliary RCA cables 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.

NOTE:
In Pioneer radios: plug Audio cable in auxiliary input of the radio.

STEP 6

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

TROUBLESHOOTING TIPS:

• To reset the module back its factory settings, 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.
• For technical assistance call 1-866-427-2999 or e-mail “maestro.support@idatalink.com”. Visit us at “maestro.idatalink.com/support” and “www.12voltdata.com/forum/”
**WIRING DIAGRAM without an Amplifier**

**STEP 1**

- **STEP 2**
  - **REVERSE CAMERA HARNESS**
  - **CONNECT IF EQUIPPED**
    - BLUE/YELLOW - CAM. POWER (+)
    - BLACK - GROUND (-)
    - YELLOW - VIDEO (+)
    - BROWN - VIDEO (-)
- **STEP 3**
  - **FACTORY RADIO HARNESS**
- **STEP 4**
  - **OBDII CONNECTOR**
- **STEP 5**
  - **MAIN HARNESS**
- **STEP 6**
  - **CONNECTION TO AFTERMARKET RADIO**
  - **RCA CABLES**
  - **DATA CABLE**
  - **AUDIO CABLE**

**WIRING COLOURS**

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

**Connecting Cables**

- **TO1 T-HARNESS**
- **CONNECT 20 OR 28 PIN CABLE**
- **DATA CABLE**
- **AUDIO CABLE**
- **MAESTRO RR MODULE**

Wiring Diagram for Toyota Sienna without JBL 2007-2010 by Automotive Data Solutions Inc. © 2018.
# RADIO WIRE REFERENCE CHART

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Polarity</th>
<th>Wire Color on Maestro T-Harness</th>
<th>Wire Color on Alpine cable</th>
<th>Wire Color on Kenwood cable</th>
<th>Wire Color on Pioneer cable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Illumination (+)</td>
<td>Orange</td>
<td>N/A</td>
<td>Orange/White</td>
<td>Orange/White</td>
<td>Orange/White</td>
</tr>
<tr>
<td>Reverse Light (+)</td>
<td>Purple/White</td>
<td>Orange/White</td>
<td>Purple/White</td>
<td>Purple/White</td>
<td>Purple/White</td>
</tr>
<tr>
<td>E-Brake (-)</td>
<td>Lt Green</td>
<td>Yellow/Blue</td>
<td>Lt Green</td>
<td>Lt Green</td>
<td>Lt Green</td>
</tr>
<tr>
<td>Foot Brake (+)</td>
<td>Yellow/Black</td>
<td>Yellow/Black</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>VSS [vehicle speed sensor] [DATA]</td>
<td>Pink</td>
<td>Green/White</td>
<td>N/A</td>
<td>N/A</td>
<td>Pink</td>
</tr>
</tbody>
</table>
VEHICLE WIRE REFERENCE CHART

REVERSE CAMERA NOT AVAILABLE / NOT PRESENT
INSTALL GUIDE
TOYOTA SIENNA
WITHOUT JBL 2011-2014
RETAINS FACTORY AMPLIFIER, STEERING WHEEL CONTROLS, AND MORE!

PRODUCTS REQUIRED
iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro TO1 Installation Harness

OPTIONAL ACCESSORIES
Click here for:
Radar Integration Installation Guide
Radar Integration Owner’s Guide for Kenwood and JVC Radios

PROGRAMMED FIRMWARE
ADS-RR(SR)-TOY01-DS

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

<table>
<thead>
<tr>
<th>Table of Contents</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installation Instructions</td>
<td>3</td>
</tr>
<tr>
<td>Wiring Diagram</td>
<td>4</td>
</tr>
<tr>
<td>Radio Wire Reference Chart</td>
<td>5</td>
</tr>
<tr>
<td>Vehicle Wire Reference Chart</td>
<td>6</td>
</tr>
</tbody>
</table>

NEED HELP?

1 866 427-2999

maestro.support@adsdata.ca

maestro.idatalink.com/support

www.12voltdata.com/forum
INSTALLATION INSTRUCTIONS

STEP 1
• Unbox the aftermarket radio and locate its main harness.
• Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
• Remove the factory radio.

STEP 2
• If the vehicle is equipped with an OEM backup camera, connect the TO1 T-harness to the backup camera harness (see wire chart for details).

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 TO1 T-harness.

STEP 4
• Plug the OBDII connector into the OBDII of the vehicle, under driver dash.

STEP 5
• Plug the aftermarket radio harnesses into the aftermarket radio.
• Connect the backup camera RCA cable into the aftermarket radio (if equipped).
• Connect the auxiliary RCA cables 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.

NOTE:
In Pioneer radios: plug Audio cable in auxiliary input of the radio.

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

TROUBLESHOOTING TIPS:
• To reset the module back its factory settings, 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.
• For technical assistance call 1-866-427-2999 or e-mail “maestro.support@idatalink.com”. Visit us at “maestro.idatalink.com/support” and “www.12voltdata.com/forum/”
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 (+)
- **BLUE/BLACK** - AMP. GROUND (-)
- **RED** - ACCESSORY (+)
- **YELLOW** - 12V (+)
- **YELLOW/BLACK** - FOOT BRAKE
- **ORANGE** - ILLUMINATION (+)
- **PURPLE/WHITE** - REVERSE LIGHT (+)
- **LT GREEN** - E-BRAKE (-)
- **PINK** - VEHICLE SPEED
- **LTC GREEN** - E-BRAKE (-)
- **BLUE/WHITE** - AMP. TURN ON (+)
- **BLUE/BLACK** - AMP. GROUND (-)

**STEP 2**
- **REVERSE CAMERA HARNESS**
- **BLUE/YELLOW** - CAM. POWER (+)
- **BLACK** - GROUND (-)

**STEP 3**
- **FACTORY RADIO HARNESS**
- **CONNECT IF EQUIPPED**
- **YELLOW** - VIDEO (+)
- **BROWN** - VIDEO (-)

**STEP 4**
- **QUBDII CONNECTOR**
- **CONNECT 20 OR 28 PIN CABLE**

**STEP 5**
- **CONNECT TO AFTERMARKET RADIO**
- **RCA CABLES**
- **CONNECT TO AFTERMARKET RADIO**
- **AUX IN**
- **TO1 T-HARNESS**

**STEP 6**
- **MAESTRO RR MODULE**
- **DATA CABLE**
- **AUDIO CABLE**

**NOTES**
- **YELLOW - 12V (+)**
- **BLACK - GROUND**
- **RED - ACCESSORY (+)**
- **YELLOW - 12V (+)**
- **ORANGE - ILLUMINATION (+)**
- **PURPLE/WHITE - REVERSE LIGHT (+)**
- **LT GREEN - E-BRAKE (-)**
- **PINK - VEHICLE SPEED**
- **GREEN - LR SPEAKER (+)**
- **GREEN/BLACK - LR SPEAKER (-)**
- **PURPLE - RR SPEAKER (+)**
- **PURPLE/BLACK - RR SPEAKER (-)**
- **WHITE - LF SPEAKER (+)**
- **WHITE/BLACK - LF SPEAKER (-)**
- **GRAY - RF SPEAKER (+)**
- **GRAY/BLACK - RF SPEAKER (-)**
- **RED - ACCESSORY (+)**
- **YELLOW - 12V (+)**
- **ORANGE - ILLUMINATION (+)**
- **PURPLE/WHITE - REVERSE LIGHT (+)**
- **LT GREEN - E-BRAKE (-)**
- **PINK - VEHICLE SPEED**
- **GREEN - LR SPEAKER (+)**
- **GREEN/BLACK - LR SPEAKER (-)**
- **PURPLE - RR SPEAKER (+)**
- **PURPLE/BLACK - RR SPEAKER (-)**
- **WHITE - LF SPEAKER (+)**
- **WHITE/BLACK - LF SPEAKER (-)**
- **GRAY - RF SPEAKER (+)**
- **GRAY/BLACK - RF SPEAKER (-)**
- **RED - ACCESSORY (+)**
- **YELLOW - 12V (+)**
- **ORANGE - ILLUMINATION (+)**
- **PURPLE/WHITE - REVERSE LIGHT (+)**
- **LT GREEN - E-BRAKE (-)**
- **PINK - VEHICLE SPEED**
- **GREEN - LR SPEAKER (+)**
- **GREEN/BLACK - LR SPEAKER (-)**
- **PURPLE - RR SPEAKER (+)**
- **PURPLE/BLACK - RR SPEAKER (-)**
- **WHITE - LF SPEAKER (+)**
- **WHITE/BLACK - LF SPEAKER (-)**
- **GRAY - RF SPEAKER (+)**
- **GRAY/BLACK - RF SPEAKER (-)**
- **RED - ACCESSORY (+)**
- **YELLOW - 12V (+)**
- **ORANGE - ILLUMINATION (+)**
- **PURPLE/WHITE - REVERSE LIGHT (+)**
- **LT GREEN - E-BRAKE (-)**
- **PINK - VEHICLE SPEED**
# RADIO WIRE REFERENCE CHART

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Polarity</th>
<th>Wire Color on Maestro T-Harness</th>
<th>Wire Color on Alpine cable</th>
<th>Wire Color on Kenwood cable</th>
<th>Wire Color on Pioneer cable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Illumination</td>
<td>(+)</td>
<td>Orange</td>
<td>N/A</td>
<td>Orange/White</td>
<td>Orange/White</td>
</tr>
<tr>
<td>Reverse Light</td>
<td>(+)</td>
<td>Purple/White</td>
<td>Orange/White</td>
<td>Purple/White</td>
<td>Purple/White</td>
</tr>
<tr>
<td>E-Brake</td>
<td>(-)</td>
<td>Lt Green</td>
<td>Yellow/Blue</td>
<td>Lt Green</td>
<td>Lt Green</td>
</tr>
<tr>
<td>Foot Brake</td>
<td>(+)</td>
<td>Yellow/Black</td>
<td>Yellow/Black</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>VSS (vehicle speed sensor)</td>
<td>[DATA]</td>
<td>Pink</td>
<td>Green/White</td>
<td>N/A</td>
<td>Pink</td>
</tr>
</tbody>
</table>
# VEHICLE WIRE REFERENCE CHART

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Connector Name</th>
<th>Connector Color</th>
<th>Connector Type</th>
<th>Position</th>
<th>Wire Color</th>
<th>Polarity</th>
<th>Wire Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Camera Power</td>
<td>-</td>
<td>-</td>
<td>20 pin</td>
<td>13</td>
<td>Red</td>
<td>[+]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Ground</td>
<td>-</td>
<td>-</td>
<td>20 pin</td>
<td>14</td>
<td>Shield</td>
<td>[-]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Video +</td>
<td>-</td>
<td>-</td>
<td>20 pin</td>
<td>11</td>
<td>Black</td>
<td>[+]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Video -</td>
<td>-</td>
<td>-</td>
<td>20 pin</td>
<td>12</td>
<td>White</td>
<td>[-]</td>
<td>Reverse camera harness</td>
</tr>
</tbody>
</table>

**REVERSE CAMERA CONNECTOR (WIRE SIDE)**

![Reverse Camera Connector Diagram](image)
INSTALL GUIDE

TOYOTA TACOMA

WITH JBL 2005-2011

RETAINS FACTORY AMPLIFIER, STEERING WHEEL CONTROLS, AND MORE!

PRODUCTS REQUIRED

iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro T01 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-TOY01-DS

OPTIONAL ACCESSORIES

Click here for:
Radar Integration Installation Guide
Radar Integration Owner’s Guide for Kenwood and JVC Radios

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

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installation Instructions</td>
<td>3</td>
</tr>
<tr>
<td>Wiring Diagram</td>
<td>4</td>
</tr>
<tr>
<td>Radio Wire Reference Chart</td>
<td>5</td>
</tr>
<tr>
<td>Vehicle Wire Reference Chart</td>
<td>6</td>
</tr>
</tbody>
</table>

NEED HELP?

1 866 427-2999
maestro.support@adsdata.ca
maestro.idatalink.com/support
www.12voltdata.com/forum
INSTALLATION INSTRUCTIONS

STEP 1
- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
- Remove the factory radio.

STEP 2
- If the vehicle is equipped with an OEM backup camera, connect the TO1 T-harness to the backup camera harness (see wire chart for details).

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 TO1 T-harness.

STEP 4
- Plug the OBDII connector into the OBDII of the vehicle, under driver dash.

STEP 5
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the auxiliary RCA cables 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.

NOTE:
In Pioneer radios: plug Audio cable in auxiliary input of the radio.

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

TROUBLESHOOTING TIPS:
- To reset the module back its factory settings, 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.
- For technical assistance call 1-866-427-2999 or e-mail “maestro.support@idatalink.com”. Visit us at “maestro.idatalink.com/support” and “www.12voltdata.com/forum/”
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 (+)
- PURPLE/WHITE - REVERSE LIGHT (+)
- LT GREEN - E-BRAKE (-)
- PINK - VEHICLE SPEED
- LT GREEN - E-BRAKE (-)
- BLUE/WHITE - AMP. TURN ON (+)
- BLACK - GROUND

**STEP 2**
- BLUE/YELLOW - CAM. POWER (+)
- BLACK - GROUND (-)
- YELLOW - VIDEO (+)
- BROWN - VIDEO (-)

**STEP 3**
- FACTORY RADIO HARNESS
- CONNECT AMP. ADAPTER
- WIRES FROM VEHICLE
- CONNECT 20 OR 28 PIN CABLE

**STEP 4**
- OBII CONNECTOR

**STEP 5**
- MAIN HARNESS
- CONNECT TO AFTERMARKET RADIO
- RCA CABLES

**STEP 6**
- AUDIO CABLE
- DATA CABLE
- CONNECT TO LF AND RF LOW LEVEL OUTPUTS
# RADIO WIRE REFERENCE CHART

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Polarity</th>
<th>Wire Color on Maestro T-Harness</th>
<th>Wire Color on Alpine cable</th>
<th>Wire Color on Kenwood cable</th>
<th>Wire Color on Pioneer cable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Illumination</td>
<td>(+)</td>
<td>Orange</td>
<td>N/A</td>
<td>Orange/White</td>
<td>Orange/White</td>
</tr>
<tr>
<td>Reverse Light</td>
<td>(+)</td>
<td>Purple/White</td>
<td>Orange/White</td>
<td>Purple/White</td>
<td>Purple/White</td>
</tr>
<tr>
<td>E-Brake</td>
<td>(-)</td>
<td>Lt Green</td>
<td>Yellow/Blue</td>
<td>Lt Green</td>
<td>Lt Green</td>
</tr>
<tr>
<td>Foot Brake</td>
<td>(+)</td>
<td>Yellow/Black</td>
<td>Yellow/Black</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>VSS (vehicle speed sensor)</td>
<td>[DATA]</td>
<td>Pink</td>
<td>Green/White</td>
<td>N/A</td>
<td>Pink</td>
</tr>
</tbody>
</table>
VEHICLE WIRE REFERENCE CHART

REVERSE CAMERA NOT AVAILABLE / NOT PRESENT
INSTALL GUIDE

TOYOTA TACOMA WITH JBL 2012-2013

RETTAINS FACTORY AMPLIFIER, STEERING WHEEL CONTROLS, AND MORE!

PRODUCTS REQUIRED

iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro TO1 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-TOY01-DS

OPTIONAL ACCESSORIES

Click here for:
Radar Integration Installation Guide
Radar Integration Owner’s Guide for Kenwood and JVC Radios

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

<table>
<thead>
<tr>
<th>TABLE OF CONTENTS</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Installation Instructions</td>
<td>3</td>
</tr>
<tr>
<td>Wiring Diagram</td>
<td>4</td>
</tr>
<tr>
<td>Radio Wire Reference Chart</td>
<td>5</td>
</tr>
<tr>
<td>Vehicle Wire Reference Chart</td>
<td>6</td>
</tr>
</tbody>
</table>

NEED HELP?

1 866 427-2999

maestro.support@adsdata.ca

maestro.idatalink.com/support
www.12voltdata.com/forum
INSTALLATION INSTRUCTIONS

**STEP 1**
- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
- Remove the factory radio.

**STEP 2**
- If the vehicle is equipped with an OEM backup camera, connect the TO1 T-harness to the backup camera harness (see wire chart for details).

**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 TO1 T-harness.

**STEP 4**
- Plug the OBDII connector into the OBDII of the vehicle, under driver dash.

**STEP 5**
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the auxiliary RCA cables 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.

**NOTE:**
In Pioneer radios: plug Audio cable in auxiliary input of the radio.

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

**TROUBLESHOOTING TIPS:**
- To reset the module back its factory settings, 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.
- For technical assistance call 1-866-427-2999 or e-mail "maestro.support@idatalink.com". Visit us at "maestro.idatalink.com/support" and "www.12voltdata.com/forum/"
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 (+)
- PURPLE/WHITE - REVERSE LIGHT (+)
- LTGREEN - E-BRAKE (-)
- BLUE/WHITE - AMP. TURN ON (+)
- YELLOW/BLACK - FOOT BRAKE

**STEP 2**
- BLUE/YELLOW - CAM. POWER (+)
- BLACK - GROUND (-)
- YELLOW - VIDEO (+)
- BROWN - VIDEO (-)

**STEP 3**
- FACTORY RADIO HARNESS
- CONNECT AMP. ADAPTER
- WIRES FROM VEHICLE
- CONNECT TO LF AND RF LOW LEVEL OUTPUTS
- GREEN - LR SPEAKER (+)
- GREEN/BLACK - LR SPEAKER (-)
- PURPLE/BLACK - RR SPEAKER (-)
- PURPLE - RR SPEAKER (+)
- WHITE - LF SPEAKER (+)
- WHITE/BLACK - LF SPEAKER (-)
- GRAY - RF SPEAKER (+)
- GRAY/BLACK - RF SPEAKER (-)
- YELLOW - 12V (+)
- ORANGE - ILLUMINATION (+)
- YELLOW/BLACK - FOOT BRAKE
- LTGREEN - E-BRAKE (-)
- BLUE/WHITE - AMP. TURN ON (+)
- RED - ACCESSORY (+)
- BLACK - GROUND

**STEP 4**
- OBDII CONNECTOR
- CONNECT 20 OR 28 PIN CABLE

**STEP 5**
- MAIN HARNESS
- CONNECT TO AFTERMARKET RADIO
- RCA CABLES
- CONNECT TO AFTERMARKET RADIO
- DATA CABLE
- AUDIO CABLE

**STEP 6**
- MAESTRO RR MODULE
- CONNECT 20 OR 28 PIN CABLE
- WIRES FROM VEHICLE
- MAESTRO RR MODULE
# RADIO WIRE REFERENCE CHART

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Polarity</th>
<th>Wire Color on Maestro T-Harness</th>
<th>Wire Color on Alpine cable</th>
<th>Wire Color on Kenwood cable</th>
<th>Wire Color on Pioneer cable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Illumination</td>
<td>+</td>
<td>Orange</td>
<td>N/A</td>
<td>Orange/White</td>
<td>Orange/White</td>
</tr>
<tr>
<td>Reverse Light</td>
<td>+</td>
<td>Purple/White</td>
<td>Orange/White</td>
<td>Purple/White</td>
<td>Purple/White</td>
</tr>
<tr>
<td>E-Brake</td>
<td>-</td>
<td>Lt Green</td>
<td>Yellow/Blue</td>
<td>Lt Green</td>
<td>Lt Green</td>
</tr>
<tr>
<td>Foot Brake</td>
<td>+</td>
<td>Yellow/Black</td>
<td>Yellow/Black</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>VSS [vehicle speed sensor]</td>
<td>[DATA]</td>
<td>Pink</td>
<td>Green/White</td>
<td>N/A</td>
<td>Pink</td>
</tr>
</tbody>
</table>
# VEHICLE WIRE REFERENCE CHART

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Connector Name</th>
<th>Connector Color</th>
<th>Connector Type</th>
<th>Position</th>
<th>Wire Color</th>
<th>Polarity</th>
<th>Wire Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Camera Power</td>
<td>-</td>
<td>-</td>
<td>24 pin</td>
<td>11</td>
<td>Black</td>
<td>[+]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Ground</td>
<td>-</td>
<td>-</td>
<td>24 pin</td>
<td>23</td>
<td>Shield</td>
<td>[-]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Video +</td>
<td>-</td>
<td>-</td>
<td>24 pin</td>
<td>12</td>
<td>Red</td>
<td>[+]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Video -</td>
<td>-</td>
<td>-</td>
<td>24 pin</td>
<td>24</td>
<td>White</td>
<td>[-]</td>
<td>Reverse camera harness</td>
</tr>
</tbody>
</table>

OR

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Connector Name</th>
<th>Connector Color</th>
<th>Connector Type</th>
<th>Position</th>
<th>Wire Color</th>
<th>Polarity</th>
<th>Wire Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Camera Power</td>
<td>-</td>
<td>-</td>
<td>16 pin</td>
<td>07</td>
<td>Black</td>
<td>[+]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Ground</td>
<td>-</td>
<td>-</td>
<td>16 pin</td>
<td>15</td>
<td>Shield</td>
<td>[-]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Video +</td>
<td>-</td>
<td>-</td>
<td>16 pin</td>
<td>08</td>
<td>Red</td>
<td>[+]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Video -</td>
<td>-</td>
<td>-</td>
<td>16 pin</td>
<td>16</td>
<td>White</td>
<td>[-]</td>
<td>Reverse camera harness</td>
</tr>
</tbody>
</table>

## REVERSE CAMERA CONNECTORS (WIRE SIDE)

![Reverse Camera Connectors Diagram]
INSTALL GUIDE

TOYOTA TACOMA
WITH JBL 2014-2015

RETAINS FACTORY AMPLIFIER, STEERING WHEEL CONTROLS, AND MORE!

PRODUCTS REQUIRED
iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro TO1 Installation Harness

OPTIONAL ACCESSORIES
Click here for:
- Radar Integration Installation Guide
- Radar Integration Owner’s Guide for Kenwood and JVC Radios

PROGRAMMED FIRMWARE
ADS-RR(SR)-TOY01-DS

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@adsdata.ca

maestro.idatalink.com/support
www.12voltdata.com/forum

Table of Contents

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installation Instructions</td>
<td>3</td>
</tr>
<tr>
<td>Wiring Diagram</td>
<td>4</td>
</tr>
<tr>
<td>Radio Wire Reference Chart</td>
<td>5</td>
</tr>
<tr>
<td>Vehicle Wire Reference Chart</td>
<td>6</td>
</tr>
</tbody>
</table>
INSTALLATION INSTRUCTIONS

STEP 1
• Unbox the aftermarket radio and locate its main harness.
• Cut RCA wires from amp. adapter and connect them to matching wires of TO1 t-harness.
• Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
• Remove the factory radio.

STEP 2
• If the vehicle is equipped with an OEM backup camera, connect the TO1 T-harness to the backup camera harness [see wire chart for details].

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 TO1 T-harness.

STEP 4
• Plug the OBDII connector into the OBDII of the vehicle, under driver dash.

STEP 5
• Plug the aftermarket radio harnesses into the aftermarket radio.
• Connect the backup camera RCA cable into the aftermarket radio [if equipped].
• Connect the auxiliary RCA cables 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.

NOTE:
In Pioneer radios: plug Audio cable in auxiliary input of the radio.

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

TROUBLESHOOTING TIPS:
• To reset the module back its factory settings, 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.
• For technical assistance call 1-866-427-2999 or e-mail “maestro.support@idatalink.com”. Visit us at “maestro.idatalink.com/support” and “www.12voltdata.com/forum/”
**WIRING DIAGRAM with an Amplifier**

**STEP 1**
CUT RCA WIRES FROM AMP. ADAPTER. CONNECT THEM TO MATCHING WIRES OF TO1 T-HARNESS.

**STEP 2**
REVERSE CAMERA HARNESS
CONNECT IF EQUIPPED
BLUE/YELLOW - AMP. TURN ON (+)
BLACK - GROUND (-)
YELLOW - VIDEO (+)
BROWN - VIDEO (-)

**STEP 3**
FACTORY RADIO HARNESS
CONNECT 20 OR 28 PIN CABLE

**STEP 4**
OBDII CONNECTOR

**STEP 5**
CONNECT TO LF AND RF LOW LEVEL OUTPUTS

**STEP 6**
MAESTRO RR MODULE
CONNECT TO AFTERMARKET RADIO

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

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

SEEN AFTERMARKET RADIO GUIDE
FOR RADIO WIRE COLORS

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 (+)

WIRING DIAGRAM WITH AN AMPLIFIER
## RADIO WIRE REFERENCE CHART

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Polarity</th>
<th>Wire Color on Maestro T-Harness</th>
<th>Wire Color on Alpine cable</th>
<th>Wire Color on Kenwood cable</th>
<th>Wire Color on Pioneer cable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Illumination</td>
<td>(+)</td>
<td>Orange</td>
<td>N/A</td>
<td>Orange/White</td>
<td>Orange/White</td>
</tr>
<tr>
<td>Reverse Light</td>
<td>(+)</td>
<td>Purple/White</td>
<td>Orange/White</td>
<td>Purple/White</td>
<td>Purple/White</td>
</tr>
<tr>
<td>E-Brake</td>
<td>(-)</td>
<td>Lt Green</td>
<td>Yellow/Blue</td>
<td>Lt Green</td>
<td>Lt Green</td>
</tr>
<tr>
<td>Foot Brake</td>
<td>(+)</td>
<td>Yellow/Black</td>
<td>Yellow/Black</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>VSS [vehicle speed sensor]</td>
<td>[DATA]</td>
<td>Pink</td>
<td>Green/White</td>
<td>N/A</td>
<td>Pink</td>
</tr>
</tbody>
</table>
# VEHICLE WIRE REFERENCE CHART

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Connector Name</th>
<th>Connector Color</th>
<th>Connector Color</th>
<th>Position</th>
<th>Wire Color</th>
<th>Polarity</th>
<th>Wire Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Camera Power</td>
<td>-</td>
<td>-</td>
<td>24 pin</td>
<td>11</td>
<td>Black</td>
<td>[+]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Ground</td>
<td>-</td>
<td>-</td>
<td>24 pin</td>
<td>23</td>
<td>Shield</td>
<td>[-]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Video +</td>
<td>-</td>
<td>-</td>
<td>24 pin</td>
<td>12</td>
<td>Red</td>
<td>[+]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Video -</td>
<td>-</td>
<td>-</td>
<td>24 pin</td>
<td>24</td>
<td>White</td>
<td>[-]</td>
<td>Reverse camera harness</td>
</tr>
</tbody>
</table>

OR

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Connector Name</th>
<th>Connector Color</th>
<th>Connector Color</th>
<th>Position</th>
<th>Wire Color</th>
<th>Polarity</th>
<th>Wire Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Camera Power</td>
<td>-</td>
<td>-</td>
<td>16 pin</td>
<td>07</td>
<td>Black</td>
<td>[+]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Ground</td>
<td>-</td>
<td>-</td>
<td>16 pin</td>
<td>15</td>
<td>Shield</td>
<td>[-]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Video +</td>
<td>-</td>
<td>-</td>
<td>16 pin</td>
<td>08</td>
<td>Red</td>
<td>[+]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Video -</td>
<td>-</td>
<td>-</td>
<td>16 pin</td>
<td>16</td>
<td>White</td>
<td>[-]</td>
<td>Reverse camera harness</td>
</tr>
</tbody>
</table>

## REVERSE CAMERA CONNECTORS (WIRE SIDE)

![Diagram of reverse camera connectors (wire side)](image-url)
INSTALL GUIDE
TOYOTA TACOMA
WITHOUT JBL 2005-2011
RETAINS FACTORY AMPLIFIER, STEERING WHEEL CONTROLS, AND MORE!

PRODUCTS REQUIRED
iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro TO1 Installation Harness

PROGRAMMED FIRMWARE
ADS-RR(SR)-TOY01-DS

OPTIONAL ACCESSORIES
Click here for:
Radar Integration Installation Guide
Radar Integration Owner’s Guide for Kenwood and JVC Radios

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.
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@adsdata.ca

maestro.idatalink.com/support

www.12voltdata.com/forum
INSTALLATION INSTRUCTIONS

STEP 1
• Unbox the aftermarket radio and locate its main harness.
• Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
• Remove the factory radio.

STEP 2
• If the vehicle is equipped with an OEM backup camera, connect the TO1 T-harness to the backup camera harness (see wire chart for details).

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 TO1 T-harness.

STEP 4
• Plug the OBDII connector into the OBDII of the vehicle, under driver dash.

STEP 5
• Plug the aftermarket radio harnesses into the aftermarket radio.
• Connect the backup camera RCA cable into the aftermarket radio (if equipped).
• Connect the auxiliary RCA cables 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.

NOTE:
In Pioneer radios: plug Audio cable in auxiliary input of the radio.

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

TROUBLESHOOTING TIPS:
• To reset the module back its factory settings, 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.
• For technical assistance call 1-866-427-2999 or e-mail “maestro.support@idatalink.com”. Visit us at “maestro.idatalink.com/support” and “www.12voltdata.com/forum/”
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 (+)
- PURPLE/WHITE - REVERSE LIGHT (+)
- LTGREEN - E-BRAKE (-)
- BLUE/YELLOW - CAM. POWER (+)
- BLACK - GROUND (-)
- YELLOW/BLACK - FOOT BRAKE

**STEP 2**

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

**STEP 3**

- FACTORY RADIO HARNESS

**STEP 4**

- OBDII CONNECTOR

**STEP 5**

- MAIN HARNESS
- RCA CABLES
- AUX IN
- BACKUP CAM

**STEP 6**

- WIRE FROM VEHICLE
- CONNECT 20 OR 28 PIN CABLE
- AUDIO CABLE
- DATA CABLE
- Maestro RR Module
- Connect to Aftermarket Radio
- Connect If Equipped

**NOTE:** See Aftermarket Radio Guide for Radio Wire Colors

- GREEN - LR SPEAKER (+)
- GREEN/BLACK - LR SPEAKER (-)
- PURPLE/BLACK - RR SPEAKER (-)
- PURPLE - RR SPEAKER (+)
- WHITE - LF SPEAKER (+)
- WHITE/BLACK - LF SPEAKER (-)
- RED - ACCESSORY (+)
- YELLOW - 12V (+)
- ORANGE - ILLUMINATION (+)
- PURPLE/WHITE - REVERSE LIGHT (+)
- LTGREEN - E-BRAKE (-)
- BLUE/YELLOW - AMP. TURN ON (+)
- YELLOW/BLACK - FOOT BRAKE

**WIRING DIAGRAM:**

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

**Connect 20 or 28 Pin Cable**
# RADIO WIRE REFERENCE CHART

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Polarity</th>
<th>Wire Color on Maestro T-Harness</th>
<th>Wire Color on Alpine cable</th>
<th>Wire Color on Kenwood cable</th>
<th>Wire Color on Pioneer cable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Illumination</td>
<td>(+)</td>
<td>Orange</td>
<td>N/A</td>
<td>Orange/White</td>
<td>Orange/White</td>
</tr>
<tr>
<td>Reverse Light</td>
<td>(+)</td>
<td>Purple/White</td>
<td>Orange/White</td>
<td>Purple/White</td>
<td>Purple/White</td>
</tr>
<tr>
<td>E-Brake</td>
<td>(-)</td>
<td>Lt Green</td>
<td>Yellow/Blue</td>
<td>Lt Green</td>
<td>Lt Green</td>
</tr>
<tr>
<td>Foot Brake</td>
<td>(+)</td>
<td>Yellow/Black</td>
<td>Yellow/Black</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>VSS [vehicle speed sensor]</td>
<td>[DATA]</td>
<td>Pink</td>
<td>Green/White</td>
<td>N/A</td>
<td>Pink</td>
</tr>
</tbody>
</table>
VEHICLE WIRE REFERENCE CHART

REVERSE CAMERA NOT AVAILABLE / NOT PRESENT
INSTALL GUIDE

TOYOTA TACOMA
WITHOUT JBL 2012-2015

RETAINS FACTORY AMPLIFIER, STEERING WHEEL CONTROLS, AND MORE!

PRODUCTS REQUIRED
iDatelink Maestro RR Radio Replacement Interface
iDatelink Maestro T01 Installation Harness

PROGRAMMED FIRMWARE
ADS-RR(SR)-TOY01-DS

OPTIONAL ACCESSORIES
Click here for:
Radar Integration Installation Guide
Radar Integration Owner’s Guide for Kenwood and JVC Radios

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@adsdata.ca
maestro.idatalink.com/support
www.12voltdata.com/forum

TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>Installation Instructions</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wiring Diagram</td>
<td>4</td>
</tr>
<tr>
<td>Radio Wire Reference Chart</td>
<td>5</td>
</tr>
<tr>
<td>Vehicle Wire Reference Chart</td>
<td>6</td>
</tr>
</tbody>
</table>
INSTALLATION INSTRUCTIONS

**STEP 1**
- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
- Remove the factory radio.

**STEP 2**
- If the vehicle is equipped with an OEM backup camera, connect the TO1 T-harness to the backup camera harness (see wire chart for details).

**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 TO1 T-harness.

**STEP 4**
- Plug the OBDII connector into the OBDII of the vehicle, under driver dash.

**STEP 5**
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the auxiliary RCA cables 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.

**NOTE:**
In Pioneer radios: plug Audio cable in auxiliary input of the radio.

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

**TROUBLESHOOTING TIPS:**
- To reset the module back its factory settings, 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.
- For technical assistance call 1-866-427-2999 or e-mail “maestro.support@idatalink.com”. Visit us at “maestro.idatalink.com/support” and “www.12voltdata.com/forum/”
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 (+)
- PURPLE/WHITE - REVERSE LIGHT (+)
- LT GREEN - E-BRAKE (-)
- PINK - VEHICLE SPEED
- LT GREEN - E-BRAKE (-)
- BLUE/WHITE - AMP. TURN ON (+)

STEP 2
- BLUE/YELLOW - CAM. POWER (+)
- BLACK - GROUND (-)
- YELLOW - VIDEO (+)
- BROWN - VIDEO (-)

STEP 3
- FACTORY RADIO HARNESS
- CONNECT IF EQUIPPED

STEP 4
- REVERSE CAMERA HARNESS
- CONNECT IF EQUIPPED

STEP 5
- MAIN HARNESS
- CONNECT TO AFTERMARKET RADIO
- RCA CABLES

STEP 6
- WIRES FROM VEHICLE
- CONNECT 20 OR 28 PIN CABLE
- MEDIA INTERFACE CABLE
- AUDIO CABLE
- DATA CABLE

WIRING DIAGRAM for TOYOTA TACOMA without JBL 2012-2015

AUTOMOTIVE DATA SOLUTIONS © 2018

TOYOTA TACOMA WITHOUT JBL 2012-2015
## RADIO WIRE REFERENCE CHART

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Polarity</th>
<th>Wire Color on Maestro T-Harness</th>
<th>Wire Color on Alpine cable</th>
<th>Wire Color on Kenwood cable</th>
<th>Wire Color on Pioneer cable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Illumination</td>
<td>(+)</td>
<td>Orange</td>
<td>N/A</td>
<td>Orange/White</td>
<td>Orange/White</td>
</tr>
<tr>
<td>Reverse Light</td>
<td>(+)</td>
<td>Purple/White</td>
<td>Orange/White</td>
<td>Purple/White</td>
<td>Purple/White</td>
</tr>
<tr>
<td>E-Brake</td>
<td>(-)</td>
<td>Lt Green</td>
<td>Yellow/Blue</td>
<td>Lt Green</td>
<td>Lt Green</td>
</tr>
<tr>
<td>Foot Brake</td>
<td>(+)</td>
<td>Yellow/Black</td>
<td>Yellow/Black</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>VSS [vehicle speed sensor]</td>
<td>[DATA]</td>
<td>Pink</td>
<td>Green/White</td>
<td>N/A</td>
<td>Pink</td>
</tr>
</tbody>
</table>
## VEHICLE WIRE REFERENCE CHART

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Connector Name</th>
<th>Connector Color</th>
<th>Connector Type</th>
<th>Position</th>
<th>Wire Color</th>
<th>Polarity</th>
<th>Wire Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Camera Power</td>
<td>-</td>
<td>-</td>
<td>24 pin</td>
<td>11</td>
<td>Black</td>
<td>[+]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Ground</td>
<td>-</td>
<td>-</td>
<td>24 pin</td>
<td>23</td>
<td>Shield</td>
<td>[-]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Video +</td>
<td>-</td>
<td>-</td>
<td>24 pin</td>
<td>12</td>
<td>Red</td>
<td>[+]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Video -</td>
<td>-</td>
<td>-</td>
<td>24 pin</td>
<td>24</td>
<td>White</td>
<td>[-]</td>
<td>Reverse camera harness</td>
</tr>
</tbody>
</table>

**OR**

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Connector Name</th>
<th>Connector Color</th>
<th>Connector Type</th>
<th>Position</th>
<th>Wire Color</th>
<th>Polarity</th>
<th>Wire Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Camera Power</td>
<td>-</td>
<td>-</td>
<td>16 pin</td>
<td>07</td>
<td>Black</td>
<td>[+]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Ground</td>
<td>-</td>
<td>-</td>
<td>16 pin</td>
<td>15</td>
<td>Shield</td>
<td>[-]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Video +</td>
<td>-</td>
<td>-</td>
<td>16 pin</td>
<td>08</td>
<td>Red</td>
<td>[+]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Video -</td>
<td>-</td>
<td>-</td>
<td>16 pin</td>
<td>16</td>
<td>White</td>
<td>[-]</td>
<td>Reverse camera harness</td>
</tr>
</tbody>
</table>

**REVERSE CAMERA CONNECTORS (WIRE SIDE)**

![Diagram of reverse camera connectors](image)
INSTALL GUIDE
TOYOTA TUNDRA
WITH JBL 2007-2013
RETAINS FACTORY AMPLIFIER, STEERING WHEEL CONTROLS, AND MORE!

PRODUCTS REQUIRED
iDataLink Maestro RR Radio Replacement Interface
iDataLink Maestro TO1 Installation Harness

PROGRAMMED FIRMWARE
ADS-RR(SR)-TOY01-DS

OPTIONAL ACCESSORIES
Click here for:
Radar Integration Installation Guide
Radar Integration Owner’s Guide for Kenwood and JVC Radios

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@adsdata.ca

maestro.idatalink.com/support
www.12voltdata.com/forum

TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installation Instructions</td>
<td>3</td>
</tr>
<tr>
<td>Wiring Diagram</td>
<td>4</td>
</tr>
<tr>
<td>Radio Wire Reference Chart</td>
<td>5</td>
</tr>
<tr>
<td>Vehicle Wire Reference Chart</td>
<td>6</td>
</tr>
</tbody>
</table>
INSTALLATION INSTRUCTIONS

STEP 1
• Unbox the aftermarket radio and locate its main harness.
• Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
• Remove the factory radio.

STEP 2
• If the vehicle is equipped with an OEM backup camera, connect the TO1 T-harness to the backup camera harness (see wire chart for details).

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 TO1 T-harness.

STEP 4
• Plug the OBDII connector into the OBDII of the vehicle, under driver dash.

STEP 5
• Plug the aftermarket radio harnesses into the aftermarket radio.
• Connect the backup camera RCA cable into the aftermarket radio (if equipped).
• Connect the auxiliary RCA cables 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.

NOTE:
In Pioneer radios: plug Audio cable in auxiliary input of the radio.

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

TROUBLESHOOTING TIPS:
• To reset the module back its factory settings, 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.
• For technical assistance call 1-866-427-2999 or e-mail “maestro.support@idatalink.com”. Visit us at “maestro.idatalink.com/support” and “www.12voltdata.com/forum/”
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 (+)
- PURPLE/WHITE - REVERSE LIGHT (+)
- LTGREEN - E-BRAKE (-)
- BLUE/WHITE - CAM. POWER (+)
- BLACK - GROUND (-)
- YELLOW/BLACK - FOOT BRAKE

STEP 2
- BLUE/YELLOW - CAM. POWER (+)
- BLACK - GROUND (-)
- YELLOW - VIDEO (+)
- BROWN - VIDEO (-)

STEP 3
- FACTORY RADIO HARNESS
- CONNECT AMP. ADAPTER

STEP 4
- OBDII CONNECTOR

STEP 5
- MAIN HARNESS
- RCA CABLES
- BACKUP CAM
- AUX IN

STEP 6
- DATA CABLE
- AUDIO CABLE

WIRING DIAGRAM with an Amplifier

AUX IN

BACKUP CAM

CONNECT TO LF AND RF LOW LEVEL OUTPUTS

WIRING DIAGRAM with an Amplifier

CONNECT TO AFTERMARKET RADIO

RCA CABLES

See Aftermarket Radio Guide for Radio Wire Colors

See Wire Chart

Connect 20 or 28 Pin Cable

Connect AMP. Adapter

Connect to LF and RF Low Level Outputs

Green - LR SPEAKER (+)
Green/Black - LR SPEAKER (-)
Purple/Black - RR SPEAKER (-)
Purple - RR SPEAKER (+)
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 (+)
Purple/White - Reverse Light (+)
Ltgreen - E-Brake (-)
Blue/White - Cam. Power (+)
Black - Ground (-)
Yellow/Black - Foot Brake
## RADIO WIRE REFERENCE CHART

<table>
<thead>
<tr>
<th>Description</th>
<th>Polarity</th>
<th>Wire Color on Maestro T-Harness</th>
<th>Wire Color on Alpine cable</th>
<th>Wire Color on Kenwood cable</th>
<th>Wire Color on Pioneer cable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Illumination</td>
<td>[+]</td>
<td>Orange</td>
<td>N/A</td>
<td>Orange/White</td>
<td>Orange/White</td>
</tr>
<tr>
<td>Reverse Light</td>
<td>[+]</td>
<td>Purple/White</td>
<td>Orange/White</td>
<td>Purple/White</td>
<td>Purple/White</td>
</tr>
<tr>
<td>E-Brake</td>
<td>[-]</td>
<td>Lt Green</td>
<td>Yellow/Blue</td>
<td>Lt Green</td>
<td>Lt Green</td>
</tr>
<tr>
<td>Foot Brake</td>
<td>[+]</td>
<td>Yellow/Black</td>
<td>Yellow/Black</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>VSS [vehicle speed sensor]</td>
<td>[DATA]</td>
<td>Pink</td>
<td>Green/White</td>
<td>N/A</td>
<td>Pink</td>
</tr>
</tbody>
</table>
# VEHICLE WIRE REFERENCE CHART

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Connector Name</th>
<th>Connector Color</th>
<th>Connector Type</th>
<th>Position</th>
<th>Wire Color</th>
<th>Polarity</th>
<th>Wire Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Camera Power</td>
<td>-</td>
<td>-</td>
<td>24 pin</td>
<td>24</td>
<td>Black</td>
<td>[+]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Ground</td>
<td>-</td>
<td>-</td>
<td>24 pin</td>
<td>21</td>
<td>Shield</td>
<td>[-]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Video +</td>
<td>-</td>
<td>-</td>
<td>24 pin</td>
<td>22</td>
<td>Red</td>
<td>[+]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Video -</td>
<td>-</td>
<td>-</td>
<td>24 pin</td>
<td>23</td>
<td>Shield</td>
<td>[-]</td>
<td>Reverse camera harness</td>
</tr>
</tbody>
</table>

**REVERSE CAMERA CONNECTOR (WIRE SIDE)**

![Diagram of Reverse Camera Connector (Wire Side)]
INSTALL GUIDE
TOYOTA TUNDRA
WITHOUT JBL 2007-2013
RETAINS FACTORY AMPLIFIER, STEERING WHEEL CONTROLS, AND MORE!

PRODUCTS REQUIRED
iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro TO1 Installation Harness

OPTIONAL ACCESSORIES
Click here for:
Radar Integration Installation Guide
Radar Integration Owner’s Guide for Kenwood and JVC Radios

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@adsdata.ca

maestro.idatalink.com/support
www.12voltdata.com/forum

TABLE OF CONTENTS

| Installation Instructions | 3 |
| Wiring Diagram | 4 |
| Radio Wire Reference Chart | 5 |
| Vehicle Wire Reference Chart | 6 |
INSTALLATION INSTRUCTIONS

STEP 1
- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
- Remove the factory radio.

STEP 2
- If the vehicle is equipped with an OEM backup camera, connect the TO1 T-harness to the backup camera harness [see wire chart for details].

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 TO1 T-harness.

STEP 4
- Plug the OBDII connector into the OBDII of the vehicle, under driver dash.

STEP 5
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio [if equipped].
- Connect the auxiliary RCA cables 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.

NOTE:
- In Pioneer radios: plug Audio cable in auxiliary input of the radio.

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

TROUBLESHOOTING TIPS:
- To reset the module back its factory settings, 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.
- For technical assistance call 1-866-427-2999 or e-mail “maestro.support@idatalink.com”. Visit us at “maestro.idatalink.com/support” and “www.12voltdata.com/forum/”
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 (+)
- YELLOW/BLACK - FOOT BRAKE
- ORANGE/WHITE - REVERSE LIGHT (+)
- LT GREEN - E-BRAKE (-)
- PINK - VEHICLE SPEED
- LT GREEN - E-BRAKE (-)
- BLUE/WHITE - AMP. TURN ON (+)

**STEP 2**
- BLUE/YELLOW - CAM. POWER (+)
- BLUE/WHITE - AMP. TURN ON (+)
- BLACK - GROUND (-)
- YELLOW - VIDEO (+)
- BROWN - VIDEO (-)

**STEP 3**
- FACTORY RADIO HARNESS

**STEP 4**
- OBDDII CONNECTOR

**STEP 5**
- AUX IN
- BACKUP CAM

**STEP 6**
- TO1 T-HARNESS

**Connect 20 or 28 pin cable**

**Connect to aftermarket radio**

**See Aftermarket Radio Guide for radio wire colors**

**See wire chart**

**Audio cable**

**Yellow - Video (+)**

**Brown - Video (-)**

**Audio cable**

**Blue/White - Amp. Turn On (+)**

**RCA Cables**

**To1 T-Harness**

**Reverse Camera Harness**

**Connect if equipped**

**Factory Radio Harness**

**Connect to Maestro RR Module**

**Main Harness**

**Connect to Aftermarket Radio**

**RCA Cables**
## RADIO WIRE REFERENCE CHART

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Polarity</th>
<th>Wire Color on Maestro T-Harness</th>
<th>Wire Color on Alpine cable</th>
<th>Wire Color on Kenwood cable</th>
<th>Wire Color on Pioneer cable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Illumination</td>
<td>(+)</td>
<td>Orange</td>
<td>N/A</td>
<td>Orange/White</td>
<td>Orange/White</td>
</tr>
<tr>
<td>Reverse Light</td>
<td>(+)</td>
<td>Purple/White</td>
<td>Orange/White</td>
<td>Purple/White</td>
<td>Purple/White</td>
</tr>
<tr>
<td>E-Brake</td>
<td>(-)</td>
<td>Lt Green</td>
<td>Yellow/Blue</td>
<td>Lt Green</td>
<td>Lt Green</td>
</tr>
<tr>
<td>Foot Brake</td>
<td>(+)</td>
<td>Yellow/Black</td>
<td>Yellow/Black</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>VSS (vehicle speed sensor)</td>
<td>[DATA]</td>
<td>Pink</td>
<td>Green/White</td>
<td>N/A</td>
<td>Pink</td>
</tr>
</tbody>
</table>
# VEHICLE WIRE REFERENCE CHART

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Connector Name</th>
<th>Connector Color</th>
<th>Connector Type</th>
<th>Position</th>
<th>Wire Color</th>
<th>Polarity</th>
<th>Wire Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Camera Power</td>
<td></td>
<td>-</td>
<td>20 pin</td>
<td>13</td>
<td>Black</td>
<td>[+]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Ground</td>
<td></td>
<td>-</td>
<td>20 pin</td>
<td>14</td>
<td>White</td>
<td>[-]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Video +</td>
<td></td>
<td>-</td>
<td>20 pin</td>
<td>11</td>
<td>Red</td>
<td>[+]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Video -</td>
<td></td>
<td>-</td>
<td>20 pin</td>
<td>12</td>
<td>Shield</td>
<td>[-]</td>
<td>Reverse camera harness</td>
</tr>
</tbody>
</table>

**REVERSE CAMERA CONNECTOR (WIRE SIDE)**
INSTALL GUIDE

TOYOTA VENZA
WITH JBL 2009-2012

RETAILS FACTORY AMPLIFIER, STEERING WHEEL CONTROLS, AND MORE!

PRODUCTS REQUIRED
iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro TO1 Installation Harness

PROGRAMMED FIRMWARE
ADS-RR(SR)-TOY01-DS

OPTIONAL ACCESSORIES
Click here for:
- Radar Integration Installation Guide
- Radar Integration Owner’s Guide for Kenwood and JVC Radios

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@adsdata.ca

maestro.idatalink.com/support
www.12voltdata.com/forum

TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installation Instructions</td>
<td>3</td>
</tr>
<tr>
<td>Wiring Diagram</td>
<td>4</td>
</tr>
<tr>
<td>Radio Wire Reference Chart</td>
<td>5</td>
</tr>
<tr>
<td>Vehicle Wire Reference Chart</td>
<td>6</td>
</tr>
</tbody>
</table>
INSTALLATION INSTRUCTIONS

STEP 1
- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
- Remove the factory radio.

STEP 2
- If the vehicle is equipped with an OEM backup camera, connect the TO1 T-harness to the backup camera harness [see wire chart for details].

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 TO1 T-harness.

STEP 4
- Plug the OBDII connector into the OBDII of the vehicle, under driver dash.

STEP 5
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the auxiliary RCA cables 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.

NOTE:
In Pioneer radios: plug Audio cable in auxiliary input of the radio.

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

TROUBLESHOOTING TIPS:
- To reset the module back its factory settings, 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.
- For technical assistance call 1-866-427-2999 or e-mail “maestro.support@idatalink.com”. Visit us at “maestro.idatalink.com/support” and “www.12voltdata.com/forum/”
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 (+)
- RED - ACCESSORY (+)
- YELLOW - 12V (+)
- ORANGE - ILLUMINATION (+)
- PURPLE/WHITE - REVERSE LIGHT (+)
- LTGREEN - E-BRAKE (-)
- PINK - VEHICLE SPEED
- BLUE/YELLOW - CAM. POWER (+)
- BLACK - GROUND (-)
- YELLOW/BLACK - FOOT BRAKE

**STEP 2**

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

**STEP 3**

- FACTORY RADIO HARNESS
- CONNECT AMP. ADAPTER

**STEP 4**

- OBDII CONNECTOR
- CONNECT 20 OR 28 PIN CABLE

**STEP 5**

- MAIN HARNESS
- AUX IN
- BACKUP CAM
- RCA CABLES

**STEP 6**

- WIRING DIAGRAM with an Amplifier
- CONNECTIONS NOT REQUIRED WITH AMP
- CONNECT TO LF AND RF LOW LEVEL OUTPUTS
- CONNECT TO AFTERMARKET RADIO
- OBDDII CONNECTOR
- CONNECT 20 OR 28 PIN CABLE

- WIRES FROM VEHICLE
- WIRES TO VEHICLE

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

- SEE AFTERMARKET RADIO GUIDE FOR RADIO WIRE COLORS
- SEE WIRE CHART
## RADIO WIRE REFERENCE CHART

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Polarity</th>
<th>Wire Color on Maestro T-Harness</th>
<th>Wire Color on Alpine cable</th>
<th>Wire Color on Kenwood cable</th>
<th>Wire Color on Pioneer cable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Illumination (+)</td>
<td>Orange</td>
<td>N/A</td>
<td>Orange/White</td>
<td>Orange/White</td>
<td></td>
</tr>
<tr>
<td>Reverse Light (+)</td>
<td>Purple/White</td>
<td>Orange/White</td>
<td>Purple/White</td>
<td>Purple/White</td>
<td></td>
</tr>
<tr>
<td>E-Brake (-)</td>
<td>Lt Green</td>
<td>Yellow/Blue</td>
<td>Lt Green</td>
<td>Lt Green</td>
<td></td>
</tr>
<tr>
<td>Foot Brake (+)</td>
<td>Yellow/Black</td>
<td>Yellow/Black</td>
<td>N/A</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>VSS [vehicle speed sensor]</td>
<td>Pink</td>
<td>Green/White</td>
<td>N/A</td>
<td>Pink</td>
<td></td>
</tr>
</tbody>
</table>
# VEHICLE WIRE REFERENCE CHART

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Connector Name</th>
<th>Connector Color</th>
<th>Connector Type</th>
<th>Position</th>
<th>Wire Color</th>
<th>Polarity</th>
<th>Wire Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Camera Power</td>
<td>-</td>
<td>-</td>
<td>24 pin</td>
<td>11</td>
<td>Black</td>
<td>[+]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Ground</td>
<td>-</td>
<td>-</td>
<td>24 pin</td>
<td>23</td>
<td>Shield</td>
<td>[-]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Video +</td>
<td>-</td>
<td>-</td>
<td>24 pin</td>
<td>12</td>
<td>Red</td>
<td>[+]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Video -</td>
<td>-</td>
<td>-</td>
<td>24 pin</td>
<td>24</td>
<td>White</td>
<td>[-]</td>
<td>Reverse camera harness</td>
</tr>
</tbody>
</table>

OR

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Connector Name</th>
<th>Connector Color</th>
<th>Connector Type</th>
<th>Position</th>
<th>Wire Color</th>
<th>Polarity</th>
<th>Wire Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Camera Power</td>
<td>-</td>
<td>-</td>
<td>16 pin</td>
<td>07</td>
<td>Black</td>
<td>[+]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Ground</td>
<td>-</td>
<td>-</td>
<td>16 pin</td>
<td>15</td>
<td>Shield</td>
<td>[-]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Video +</td>
<td>-</td>
<td>-</td>
<td>16 pin</td>
<td>08</td>
<td>Red</td>
<td>[+]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Video -</td>
<td>-</td>
<td>-</td>
<td>16 pin</td>
<td>16</td>
<td>White</td>
<td>[-]</td>
<td>Reverse camera harness</td>
</tr>
</tbody>
</table>

# REVERSE CAMERA CONNECTORS (WIRE SIDE)

![Diagram of reverse camera connectors](image-url)
INSTALL GUIDE

TOYOTA VENZA

WITH JBL 2013-2014

RETAILS FACTORY AMPLIFIER, STEERING WHEEL CONTROLS, AND MORE!

PRODUCTS REQUIRED
iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro TO1 Installation Harness

PROGRAMMED FIRMWARE
ADS-RR(SR)-TOY01-DS

OPTIONAL ACCESSORIES
Click here for:
Radar Integration Installation Guide
Radar Integration Owner's Guide for Kenwood and JVC Radios

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

<table>
<thead>
<tr>
<th>Installation Instructions</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wiring Diagram</td>
<td>4</td>
</tr>
<tr>
<td>Radio Wire Reference Chart</td>
<td>5</td>
</tr>
<tr>
<td>Vehicle Wire Reference Chart</td>
<td>6</td>
</tr>
</tbody>
</table>

NEED HELP?

1 866 427-2999

maestro.support@adsdata.ca

maestro.idatalink.com/support
www.12voltdata.com/forum
INSTALLATION INSTRUCTIONS

STEP 1
• Unbox the aftermarket radio and locate its main harness.
• Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
• Remove the factory radio.

STEP 2
• If the vehicle is equipped with an OEM backup camera, connect the TO1 T-harness to the backup camera harness (see wire chart for details).

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 TO1 T-harness.

STEP 4
• Plug the OBDII connector into the OBDII of the vehicle, under driver dash.

STEP 5
• Plug the aftermarket radio harnesses into the aftermarket radio.
• Connect the backup camera RCA cable into the aftermarket radio (if equipped).
• Connect the auxiliary RCA cables 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.

NOTE:
In Pioneer radios: plug Audio cable in auxiliary input of the radio.

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

TROUBLESHOOTING TIPS:
• To reset the module back its factory settings, 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.
• For technical assistance call 1-866-427-2999 or e-mail “maestro.support@idatalink.com”. Visit us at “maestro.idatalink.com/support” and “www.12voltdata.com/forum/”
## RADIO WIRE REFERENCE CHART

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Polarity</th>
<th>Wire Color on Maestro T-Harness</th>
<th>Wire Color on Alpine cable</th>
<th>Wire Color on Kenwood cable</th>
<th>Wire Color on Pioneer cable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Illumination</td>
<td>(+)</td>
<td>Orange</td>
<td>N/A</td>
<td>Orange/White</td>
<td>Orange/White</td>
</tr>
<tr>
<td>Reverse Light</td>
<td>(+)</td>
<td>Purple/White</td>
<td>Orange/White</td>
<td>Purple/White</td>
<td>Purple/White</td>
</tr>
<tr>
<td>E-Brake</td>
<td>(-)</td>
<td>Lt Green</td>
<td>Yellow/Blue</td>
<td>Lt Green</td>
<td>Lt Green</td>
</tr>
<tr>
<td>Foot Brake</td>
<td>(+)</td>
<td>Yellow/Black</td>
<td>Yellow/Black</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>VSS [vehicle speed sensor]</td>
<td>[DATA]</td>
<td>Pink</td>
<td>Green/White</td>
<td>N/A</td>
<td>Pink</td>
</tr>
</tbody>
</table>
# VEHICLE WIRE REFERENCE CHART

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Connector Name</th>
<th>Connector Color</th>
<th>Connector Type</th>
<th>Position</th>
<th>Wire Color</th>
<th>Polarity</th>
<th>Wire Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Camera Power</td>
<td>-</td>
<td>-</td>
<td>24 pin</td>
<td>11</td>
<td>Black</td>
<td>[+]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Ground</td>
<td>-</td>
<td>-</td>
<td>24 pin</td>
<td>23</td>
<td>Shield</td>
<td>[-]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Video +</td>
<td>-</td>
<td>-</td>
<td>24 pin</td>
<td>12</td>
<td>Red</td>
<td>[+]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Video -</td>
<td>-</td>
<td>-</td>
<td>24 pin</td>
<td>24</td>
<td>White</td>
<td>[-]</td>
<td>Reverse camera harness</td>
</tr>
</tbody>
</table>

OR

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Connector Name</th>
<th>Connector Color</th>
<th>Connector Type</th>
<th>Position</th>
<th>Wire Color</th>
<th>Polarity</th>
<th>Wire Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Camera Power</td>
<td>-</td>
<td>-</td>
<td>16 pin</td>
<td>07</td>
<td>Black</td>
<td>[+]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Ground</td>
<td>-</td>
<td>-</td>
<td>16 pin</td>
<td>15</td>
<td>Shield</td>
<td>[-]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Video +</td>
<td>-</td>
<td>-</td>
<td>16 pin</td>
<td>08</td>
<td>Red</td>
<td>[+]</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Video -</td>
<td>-</td>
<td>-</td>
<td>16 pin</td>
<td>16</td>
<td>White</td>
<td>[-]</td>
<td>Reverse camera harness</td>
</tr>
</tbody>
</table>

## REVERSE CAMERA CONNECTORS (WIRE SIDE)

![Diagram of reverse camera connectors](image.png)
INSTALL GUIDE

TOYOTA VENZA

WITHOUT JBL 2009-2012

RETAINS FACTORY AMPLIFIER, STEERING WHEEL CONTROLS, AND MORE!

PRODUCTS REQUIRED

iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro TO1 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-TOY01-DS

OPTIONAL ACCESSORIES

Click here for:
- Radar Integration Installation Guide
- Radar Integration Owner’s Guide for Kenwood and JVC Radios

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

<table>
<thead>
<tr>
<th>TABLE OF CONTENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installation Instructions</td>
</tr>
<tr>
<td>Wiring Diagram</td>
</tr>
<tr>
<td>Radio Wire Reference Chart</td>
</tr>
<tr>
<td>Vehicle Wire Reference Chart</td>
</tr>
</tbody>
</table>

NEED HELP?

1 866 427-2999

maestro.support@adsdata.ca

maestro.idatalink.com/support
www.12voltdata.com/forum
INSTALLATION INSTRUCTIONS

STEP 1
• Unbox the aftermarket radio and locate its main harness.
• Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
• Remove the factory radio.

STEP 2
• If the vehicle is equipped with an OEM backup camera, connect the TO1 T-harness to the backup camera harness (see wire chart for details).

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 TO1 T-harness.

STEP 4
• Plug the OBDII connector into the OBDII of the vehicle, under driver dash.

STEP 5
• Plug the aftermarket radio harnesses into the aftermarket radio.
• Connect the backup camera RCA cable into the aftermarket radio (if equipped).
• Connect the auxiliary RCA cables 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.

NOTE:
In Pioneer radios: plug Audio cable in auxiliary input of the radio.

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

TROUBLESHOOTING TIPS:
• To reset the module back its factory settings, 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.
• For technical assistance call 1-866-427-2999 or e-mail “maestro.support@idatalink.com”. Visit us at “maestro.idatalink.com/support” and “www.12voltdata.com/forum/”
# RADIO WIRE REFERENCE CHART

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Polarity</th>
<th>Wire Color on Maestro T-Harness</th>
<th>Wire Color on Alpine cable</th>
<th>Wire Color on Kenwood cable</th>
<th>Wire Color on Pioneer cable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Illumination</td>
<td>(+)</td>
<td>Orange</td>
<td>N/A</td>
<td>Orange/White</td>
<td>Orange/White</td>
</tr>
<tr>
<td>Reverse Light</td>
<td>(+)</td>
<td>Purple/White</td>
<td>Orange/White</td>
<td>Purple/White</td>
<td>Purple/White</td>
</tr>
<tr>
<td>E-Brake</td>
<td>(-)</td>
<td>Lt Green</td>
<td>Yellow/Blue</td>
<td>Lt Green</td>
<td>Lt Green</td>
</tr>
<tr>
<td>Foot Brake</td>
<td>(+)</td>
<td>Yellow/Black</td>
<td>Yellow/Black</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>VSS (vehicle speed sensor)</td>
<td>[DATA]</td>
<td>Pink</td>
<td>Green/White</td>
<td>N/A</td>
<td>Pink</td>
</tr>
</tbody>
</table>
VEHICLE WIRE REFERENCE CHART

REVERSE CAMERA NOT AVAILABLE / NOT PRESENT
INSTALL GUIDE
TOYOTA VENZA
WITHOUT JBL 2013-2014
RETAINS FACTORY AMPLIFIER, STEERING WHEEL CONTROLS, AND MORE!

PRODUCTS REQUIRED
iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro T01 Installation Harness

PROGRAMMED Firmware
ADS-RR(SR)-TOY01-DS

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

<table>
<thead>
<tr>
<th>Table of Contents</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installation Instructions</td>
<td>3</td>
</tr>
<tr>
<td>Wiring Diagram</td>
<td>4</td>
</tr>
<tr>
<td>Radio Wire Reference Chart</td>
<td>5</td>
</tr>
<tr>
<td>Vehicle Wire Reference Chart</td>
<td>6</td>
</tr>
</tbody>
</table>

NEED HELP?

1 866 427-2999

maestro.support@adsdata.ca

maestro.idatalink.com/support

www.12voltdata.com/forum
INSTALLATION INSTRUCTIONS

STEP 1
• Unbox the aftermarket radio and locate its main harness.
• Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
• Remove the factory radio.

STEP 2
• If the vehicle is equipped with an OEM backup camera, connect the TO1 T-harness to the backup camera harness (see wire chart for details).

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 TO1 T-harness.

STEP 4
• Plug the OBDII connector into the OBDII of the vehicle, under driver dash.

STEP 5
• Plug the aftermarket radio harnesses into the aftermarket radio.
• Connect the backup camera RCA cable into the aftermarket radio (if equipped).
• Connect the auxiliary RCA cables 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.

NOTE:
In Pioneer radios: plug Audio cable in auxiliary input of the radio.

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

TROUBLESHOOTING TIPS:
• To reset the module back its factory settings, 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.
• For technical assistance call 1-866-427-2999 or e-mail “maestro.support@idatalink.com”. Visit us at “maestro.idatalink.com/support” and “www.12voltdata.com/forum/”
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 (+)
- GREEN/WHITE - REVERSE LIGHT (+)
- LT GREEN - E-BRAKE (-)
- PINK - VEHICLE SPEED
- LT GREEN - E-BRAKE (-)
- BLUE/WHITE - AMP. TURN ON (+)

**STEP 2**
- BLUE/YELLOW - CAM. POWER (+)
- BLACK - GROUND (-)

**STEP 3**
- FACTORY RADIO HARNESS
- WIRES FROM VEHICLE

**STEP 4**
- T01 T-HARNESS
- OBDII CONNECTOR

**STEP 5**
- MAIN HARNESS
- CONNECT TO AFTERMARKET RADIO
- RCA CABLES

**STEP 6**
- DATA CABLE
- AUDIO CABLE
- MAESTRO RR MODULE

**WIRING DIAGRAM**

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

- **GREEN** - LR SPEAKER (+)
- **GREEN/BLACK** - LR SPEAKER (-)
- **PURPLE** - RR SPEAKER (+)
- **PURPLE/BLACK** - RR SPEAKER (-)
- **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 (+)
- **GREEN/WHITE** - REVERSE LIGHT (+)
- **LT GREEN** - E-BRAKE (-)
- **PINK** - VEHICLE SPEED
- **LT GREEN** - E-BRAKE (-)
- **BLUE/YELLOW** - AMP. TURN ON (+)

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

- **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 (+)
- **GREEN/WHITE** - REVERSE LIGHT (+)
- **PINK** - VEHICLE SPEED
- **LT GREEN** - E-BRAKE (-)
- **BLUE/YELLOW** - AMP. TURN ON (+)

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

- CONNECT 20 OR 28 PIN CABLE

**SEE AFTERMARKET RADIO GUIDE FOR RADIO WIRE COLORS**

**SEE WIRE CHART**
# RADIO WIRE REFERENCE CHART

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Polarity</th>
<th>Wire Color on Maestro T-Harness</th>
<th>Wire Color on Alpine cable</th>
<th>Wire Color on Kenwood cable</th>
<th>Wire Color on Pioneer cable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Illumination</td>
<td>[+ ]</td>
<td>Orange</td>
<td>N/A</td>
<td>Orange/White</td>
<td>Orange/White</td>
</tr>
<tr>
<td>Reverse Light</td>
<td>[+ ]</td>
<td>Purple/White</td>
<td>Orange/White</td>
<td>Purple/White</td>
<td>Purple/White</td>
</tr>
<tr>
<td>E-Brake</td>
<td>[- ]</td>
<td>Lt Green</td>
<td>Yellow/Blue</td>
<td>Lt Green</td>
<td>Lt Green</td>
</tr>
<tr>
<td>Foot Brake</td>
<td>[+ ]</td>
<td>Yellow/Black</td>
<td>Yellow/Black</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>VSS [vehicle speed sensor]</td>
<td>[DATA]</td>
<td>Pink</td>
<td>Green/White</td>
<td>N/A</td>
<td>Pink</td>
</tr>
</tbody>
</table>
### VEHICLE WIRE REFERENCE CHART

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Connector Name</th>
<th>Connector Color</th>
<th>Connector Type</th>
<th>Position</th>
<th>Wire Color</th>
<th>Polarity</th>
<th>Wire Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Camera Power</td>
<td>-</td>
<td>-</td>
<td>24 pin</td>
<td>11</td>
<td>Black</td>
<td>(+)</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Ground</td>
<td>-</td>
<td>-</td>
<td>24 pin</td>
<td>23</td>
<td>Shield</td>
<td>(-)</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Video +</td>
<td>-</td>
<td>-</td>
<td>24 pin</td>
<td>12</td>
<td>Red</td>
<td>(+)</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Video -</td>
<td>-</td>
<td>-</td>
<td>24 pin</td>
<td>24</td>
<td>White</td>
<td>(-)</td>
<td>Reverse camera harness</td>
</tr>
</tbody>
</table>

OR

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Connector Name</th>
<th>Connector Color</th>
<th>Connector Type</th>
<th>Position</th>
<th>Wire Color</th>
<th>Polarity</th>
<th>Wire Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Camera Power</td>
<td>-</td>
<td>-</td>
<td>16 pin</td>
<td>07</td>
<td>Black</td>
<td>(+)</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Ground</td>
<td>-</td>
<td>-</td>
<td>16 pin</td>
<td>15</td>
<td>Shield</td>
<td>(-)</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Video +</td>
<td>-</td>
<td>-</td>
<td>16 pin</td>
<td>08</td>
<td>Red</td>
<td>(+)</td>
<td>Reverse camera harness</td>
</tr>
<tr>
<td>Video -</td>
<td>-</td>
<td>-</td>
<td>16 pin</td>
<td>16</td>
<td>White</td>
<td>(-)</td>
<td>Reverse camera harness</td>
</tr>
</tbody>
</table>

### REVERSE CAMERA CONNECTORS [WIRE SIDE]

![Diagram of reverse camera connectors]
INSTALL GUIDE
TOYOTA YARIS
2007-2011

RETAILS FACTORY AMPLIFIER, STEERING WHEEL CONTROLS, AND MORE!

PRODUCTS REQUIRED
- iDatalink Maestro RR Radio Replacement Interface
- iDatalink Maestro TO1 Installation Harness

OPTIONAL ACCESSORIES
Click here for:
- Radar Integration Installation Guide
- Radar Integration Owner’s Guide for Kenwood and JVC Radios

PROGRAMMED FIRMWARE
ADS-RR(SR)-TOY01-DS

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

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installation Instructions</td>
<td>3</td>
</tr>
<tr>
<td>Wiring Diagram</td>
<td>4</td>
</tr>
<tr>
<td>Radio Wire Reference Chart</td>
<td>5</td>
</tr>
<tr>
<td>Vehicle Wire Reference Chart</td>
<td>6</td>
</tr>
</tbody>
</table>

NEED HELP?

1 866 427-2999

maestro.support@adsdata.ca

maestro.idatalink.com/support
www.12voltdata.com/forum
INSTALLATION INSTRUCTIONS

STEP 1
- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
- Remove the factory radio.

STEP 2
- If the vehicle is equipped with an OEM backup camera, connect the TO1 T-harness to the backup camera harness (see wire chart for details).

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 TO1 T-harness.

STEP 4
- Plug the OBDII connector into the OBDII of the vehicle, under driver dash.

STEP 5
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the auxiliary RCA cables 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.

NOTE:
In Pioneer radios: plug Audio cable in auxiliary input of the radio.

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

TROUBLESHOOTING TIPS:
- To reset the module back its factory settings, 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.
- For technical assistance call 1-866-427-2999 or e-mail “maestro.support@idatalink.com”. Visit us at “maestro.idatalink.com/support” and “www.12voltdata.com/forum/”
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 (+)
- PURPLE/WHITE - REVERSE LIGHT (+)
- LTGREEN - E-BRAKE (-)
- PINK - VEHICLE SPEED
- LTGREEN - E-BRAKE (-)
- BLUE/WHITE - AMP. TURN ON (+)

STEP 2
- BLUE/YELLOW - CAM. POWER (+)
- BLACK - GROUND (-)
- YELLOW - VIDEO (+)
- BROWN - VIDEO (-)

STEP 3
- FACTORY RADIO HARNESS
- CONNECT IF EQUIPPED

STEP 4
- OBDII CONNECTOR
- CONNECT 20 OR 28 PIN CABLE

STEP 5
- MAIN HARNESS
- RCA CABLES
- DATA CABLE
- AUDIO CABLE

STEP 6
- WIRES FROM VEHICLE
- CONNECT TO AFTERMARKET RADIO
- AFTERMARKET RADIO GUIDE
## RADIO WIRE REFERENCE CHART

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Polarity</th>
<th>Wire Color on Maestro T-Harness</th>
<th>Wire Color on Alpine cable</th>
<th>Wire Color on Kenwood cable</th>
<th>Wire Color on Pioneer cable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Illumination (+)</td>
<td>Orange</td>
<td>N/A</td>
<td>Orange/White</td>
<td>Orange/White</td>
<td>Orange/White</td>
</tr>
<tr>
<td>Reverse Light (+)</td>
<td>Purple/White</td>
<td>Orange/White</td>
<td>Purple/White</td>
<td>Purple/White</td>
<td>Purple/White</td>
</tr>
<tr>
<td>E-Brake (-)</td>
<td>Lt Green</td>
<td>Yellow/Blue</td>
<td>Lt Green</td>
<td>Lt Green</td>
<td>Lt Green</td>
</tr>
<tr>
<td>Foot Brake (+)</td>
<td>Yellow/Black</td>
<td>Yellow/Black</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>VSS [vehicle speed sensor] [DATA]</td>
<td>Pink</td>
<td>Green/White</td>
<td>N/A</td>
<td>N/A</td>
<td>Pink</td>
</tr>
</tbody>
</table>
VEHICLE WIRE REFERENCE CHART

REVERSE CAMERA NOT AVAILABLE / NOT PRESENT
INSTALL GUIDE
TOYOTA YARIS
2012-2018
RETAINS FACTORY AMPLIFIER, STEERING WHEEL CONTROLS, AND MORE!

PRODUCTS REQUIRED
iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro TO1 Installation Harness

PROGRAMMED FIRMWARE
ADS-RR(SR)-TOY01-DS

OPTIONAL ACCESSORIES
Click here for:
Radar Integration Installation Guide
Radar Integration Owner’s Guide for Kenwood and JVC Radios

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@adsdata.ca

maestro.idatalink.com/support
www.12voltdata.com/forum

TABLE OF CONTENTS

Installation Instructions 3

Wiring Diagram 4

Radio Wire Reference Chart 5

Vehicle Wire Reference Chart 6
INSTALLATION INSTRUCTIONS

STEP 1
• Unbox the aftermarket radio and locate its main harness.
• Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
• Remove the factory radio.

STEP 2
• If the vehicle is equipped with an OEM backup camera, connect the TO1 T-harness to the backup camera harness (see wire chart for details).

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 TO1 T-harness.

STEP 4
• Plug the OBDII connector into the OBDII of the vehicle, under driver dash.

STEP 5
• Plug the aftermarket radio harnesses into the aftermarket radio.
• Connect the backup camera RCA cable into the aftermarket radio (if equipped).
• Connect the auxiliary RCA cables 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.

NOTE:
In Pioneer radios: plug Audio cable in auxiliary input of the radio.

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

TROUBLESHOOTING TIPS:
• To reset the module back its factory settings, 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.
• For technical assistance call 1-866-427-2999 or e-mail “maestro.support@idatalink.com”. Visit us at “maestro.idatalink.com/support” and “www.12voltdata.com/forum/”
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 (+)
- BLUE/WHITE - REVERSE LIGHT (+)
- LT/BLUE - E-BRAKE (–)
- LT/GREEN - VEHICLE SPEED
- LT/GREY - E-BRAKE (+)
- BLUE/BLACK - FOOT BRAKE

**STEP 2**
- BLUE/YELLOW - CAM. POWER (+)
- BLACK - GROUND (–)

**STEP 3**
- FACTORY RADIO HARNESS
  - YELLOW - VIDEO (+)
  - BROWN - VIDEO (–)

**STEP 4**
- OBDII CONNECTOR
  - CONNECT 20 OR 28 PIN CABLE

**STEP 5**
- MAIN HARNESS
  - CONNECT TO AFTERMARKET RADIO

**STEP 6**
- DATA CABLE
- AUDIO CABLE
- RCA CABLES

**TOYOTA YARIS 2012-2018**
## RADIO WIRE REFERENCE CHART

<table>
<thead>
<tr>
<th>Wire Description</th>
<th>Polarity</th>
<th>Wire Color on Maestro T-Harness</th>
<th>Wire Color on Alpine cable</th>
<th>Wire Color on Kenwood cable</th>
<th>Wire Color on Pioneer cable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Illumination</td>
<td>(+)</td>
<td>Orange</td>
<td>N/A</td>
<td>Orange/White</td>
<td>Orange/White</td>
</tr>
<tr>
<td>Reverse Light</td>
<td>(+)</td>
<td>Purple/White</td>
<td>Orange/White</td>
<td>Purple/White</td>
<td>Purple/White</td>
</tr>
<tr>
<td>E-Brake</td>
<td>(-)</td>
<td>Lt Green</td>
<td>Yellow/Blue</td>
<td>Lt Green</td>
<td>Lt Green</td>
</tr>
<tr>
<td>Foot Brake</td>
<td>(+)</td>
<td>Yellow/Black</td>
<td>Yellow/Black</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>VSS [vehicle speed sensor]</td>
<td>[DATA]</td>
<td>Pink</td>
<td>Green/White</td>
<td>N/A</td>
<td>Pink</td>
</tr>
</tbody>
</table>
VEHICLE WIRE REFERENCE CHART

REVERSE CAMERA NOT AVAILABLE / NOT PRESENT