



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.

RETAINS STEERING WHEEL CONTROLS, BACKUP CAMERA, GAUGES, AND MORE!



PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro HRN-RR-HK1 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-HK01-DS

ADDITIONAL RESOURCES

[Maestro RR2 Programmable Outputs Guide](#)

OPTIONAL ACCESSORIES



Click here for:
[Radar Installation Guides](#)


WELCOME

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

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

NEED HELP?

 1 866 427-2999

 maestro.support@idatalink.com

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

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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 HK1 T-harness and match the wire functions.

STEP 2

- Remove the factory radio.
- Connect the factory radio harness to the HK1 T-harness.

STEP 3

- Plug the male BLACK 2 pin connector of your HK1 T-harness into the OBDII harness.
- Plug the OBDII connector into the OBDII of the vehicle, located under the driver side dash.

STEP 4

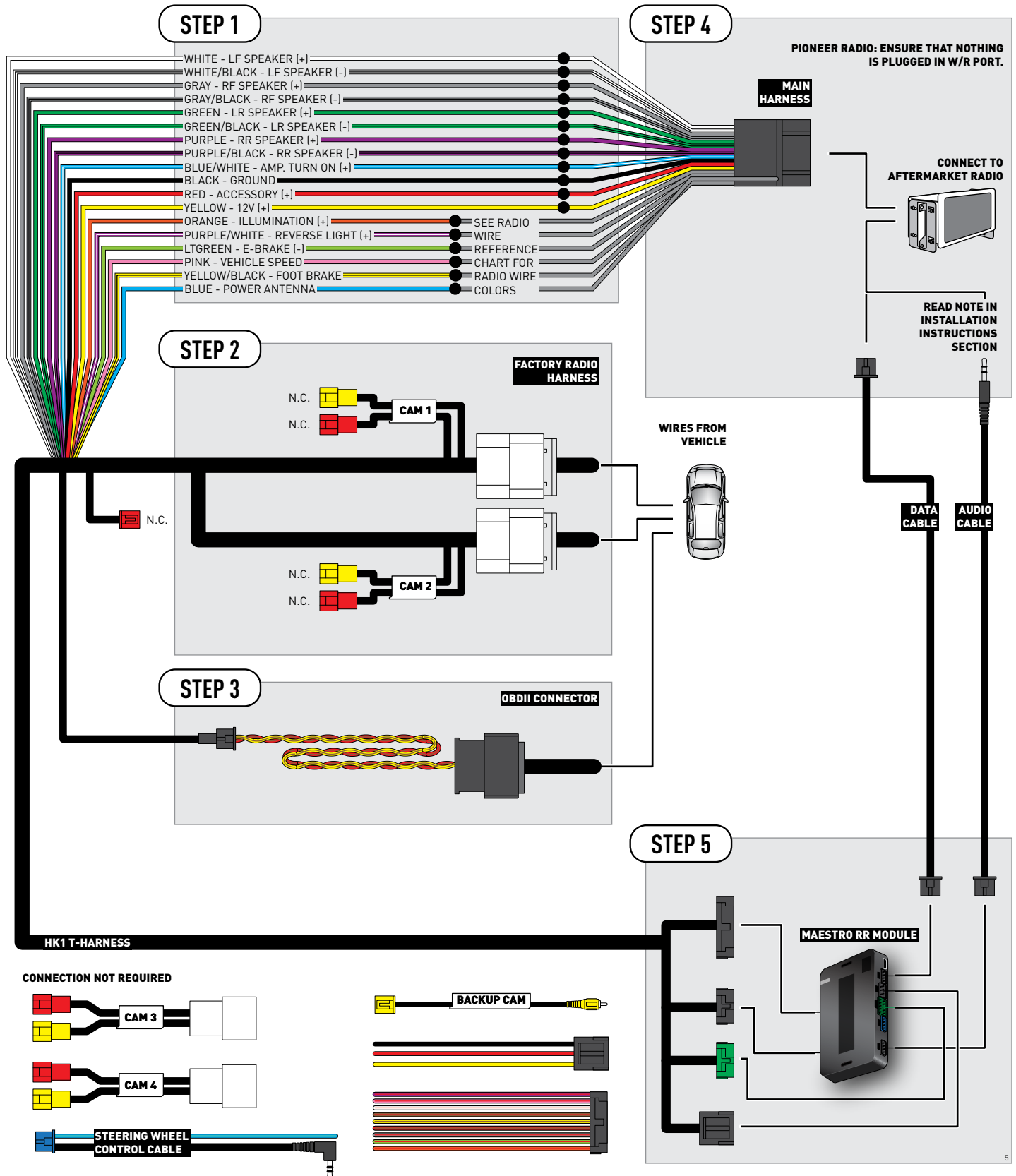
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (If there is no iDatalink audio input, connect to AUX).

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

STEP 5

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

WIRING DIAGRAM



RADIO WIRE REFERENCE CHART

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

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	<p>Ensure the RED/ BROWN wire of the HK1 harness is connected to WHITE wire of the CAN gateway connector, in the radio cavity.</p> <p>Ensure the YELLOW/ BROWN wire of the HK1 harness is connected to BLACK wire of the CAN gateway connector, in the radio cavity.</p> <p>Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>Reset the RR.</p>
The light on the Maestro is blinking RED TWICE .	<p>Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty.</p> <p>Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.</p>
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Turn the key to the OFF position, then disconnect all connectors from the module.

Press and hold the module's programming button and connect all the connectors back to the module. Wait, the module's LED will flash RED rapidly (this may take up to 10 seconds).

Release the programming button. Wait, the LED will turn solid GREEN for 2 seconds to show the reset was successful.

TECHNICAL ASSISTANCE

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Email: maestro.support@idatalink.com

Web: maestro.idatalink.com/support add www.12voldata.com/forum/

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

2013

HYUNDAI ELANTRA GT

ALL TRIMS

RETAINS STEERING WHEEL CONTROLS, BACKUP CAMERA, GAUGES, AND MORE!



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OPTIONAL ACCESSORIES

K40[™]
ELECTRONICS
ESCORT

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- Connect the factory radio harness to the HK1 T-harness.

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- Plug the male BLACK 2 pin connector of your HK1 T-harness into the OBDII harness.
- Plug the OBDII connector into the OBDII of the vehicle, located under the driver side dash.

STEP 4

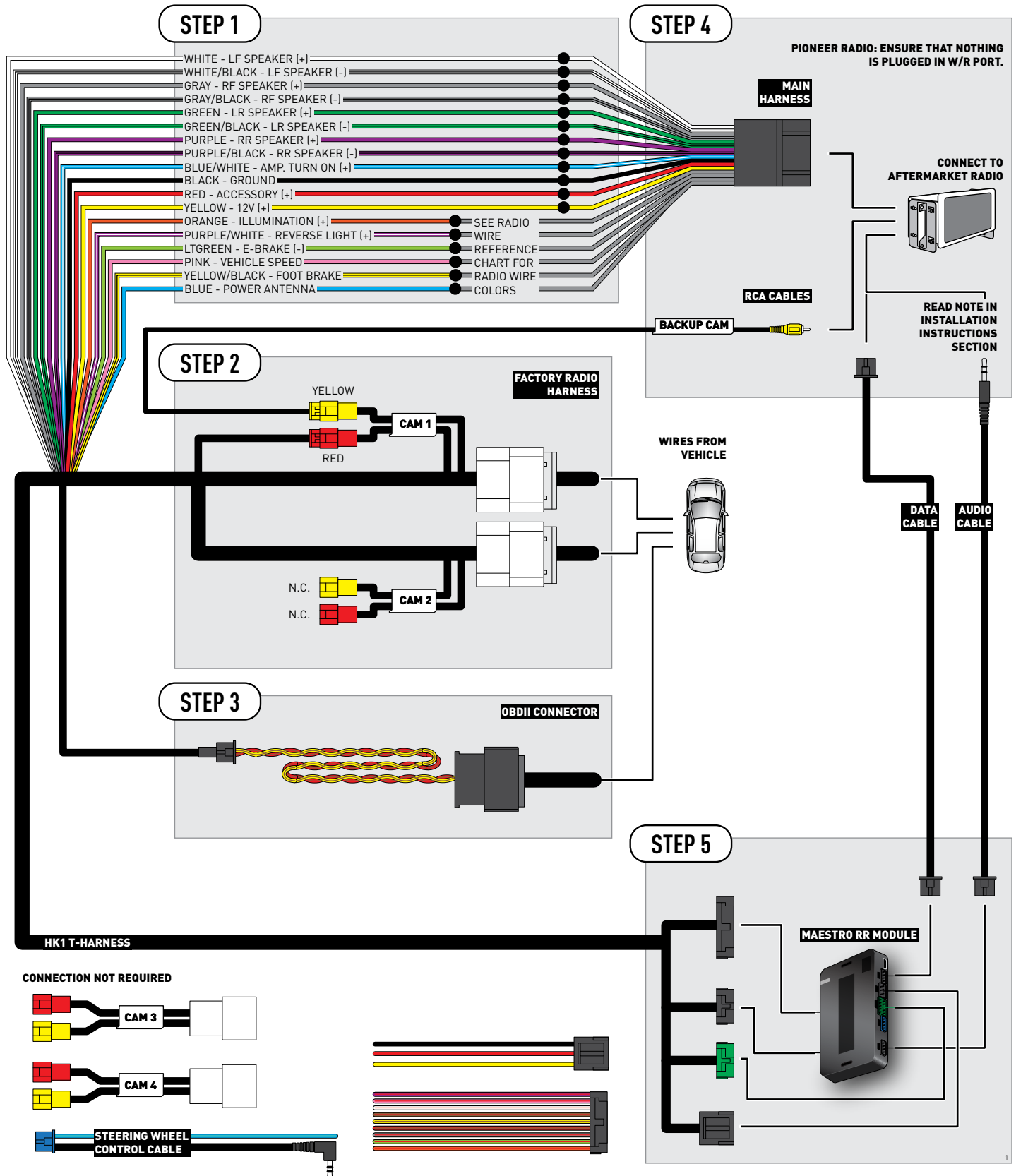
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Plug the backup camera RCA into the aftermarket radio (if applicable).
- Plug the Data cable to the data port of the aftermarket radio.
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Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.

STEP 5

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

WIRING DIAGRAM



RADIO WIRE REFERENCE CHART

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Foot Brake	(+)	Yellow/Black	Yellow/Black	N/A	Pink	N/A
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A
Power Antenna	(+)	Blue	Blue	Blue	N/A	Blue

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
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Release the programming button. Wait, the LED will turn solid GREEN for 2 seconds to show the reset was successful.

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- Connect the wires shown on the next page from aftermarket radio main harness to the HK1 T-harness and match the wire functions.

STEP 2

- Remove the factory radio.
- Assemble the HK1 T-harness (connect CAM4 connectors as shown in the diagram).
- Connect the factory radio harness to the HK1 T-harness.

STEP 3

- Plug the male BLACK 2 pin connector of your HK1 T-harness into the OBDII harness.
- Plug the OBDII connector into the OBDII of the vehicle, located under the driver side dash.

STEP 4

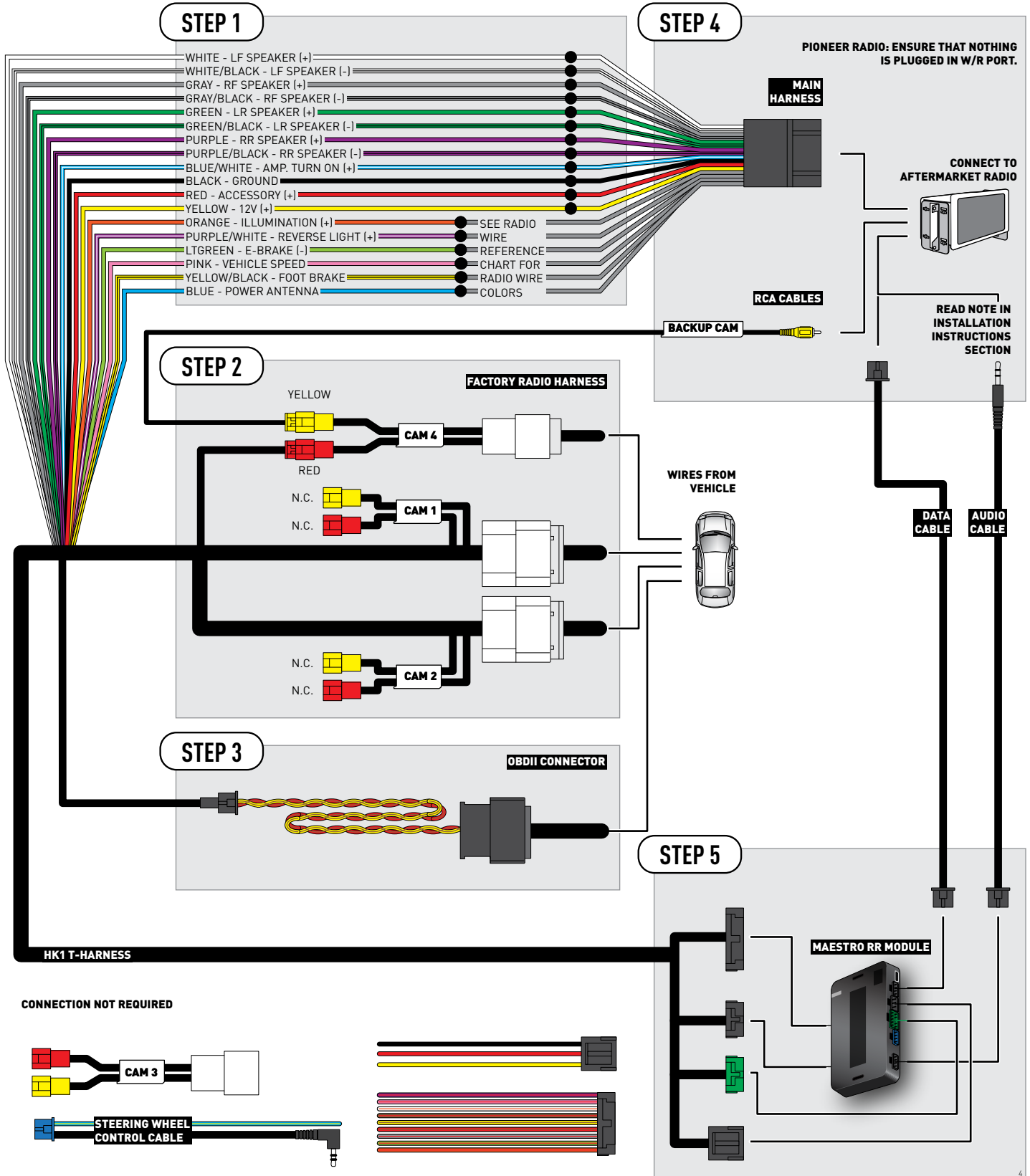
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Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.

STEP 5

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

WIRING DIAGRAM



RADIO WIRE REFERENCE CHART

Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood cable	Wire Color on Pioneer cable	Wire Color on Sony cable
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PROBLEM	SOLUTION
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MAESTRO RR RESET PROCEDURE:

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2018

HYUNDAI ELANTRA GT
WITH NAV WITHOUT AMP

RETAINS STEERING WHEEL CONTROLS, BACKUP CAMERA, GAUGES, AND MORE!



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ADDITIONAL RESOURCES

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STEP 2

- Remove the factory radio.
- Assemble the HK1 T-harness (connect CAM4 connectors as shown in the diagram).
- Connect the factory radio harness to the HK1 T-harness.

STEP 3

- Plug the male BLACK 2 pin connector of your HK1 T-harness into the OBDII harness.
- Cut and remove the OBDII connector on the OBDII harness.
- Locate the 30 pin CAN Gateway harness in the radio cavity (attached to the subframe behind the radio on the driver's side). Locate the SOLID WHITE wire and SOLID BLACK wire (pinned on top of each other).
- Connect RED/BROWN wire (HK1) to WHITE wire.
- Connect YELLOW/BROWN (HK1) to BLACK wire.

STEP 4

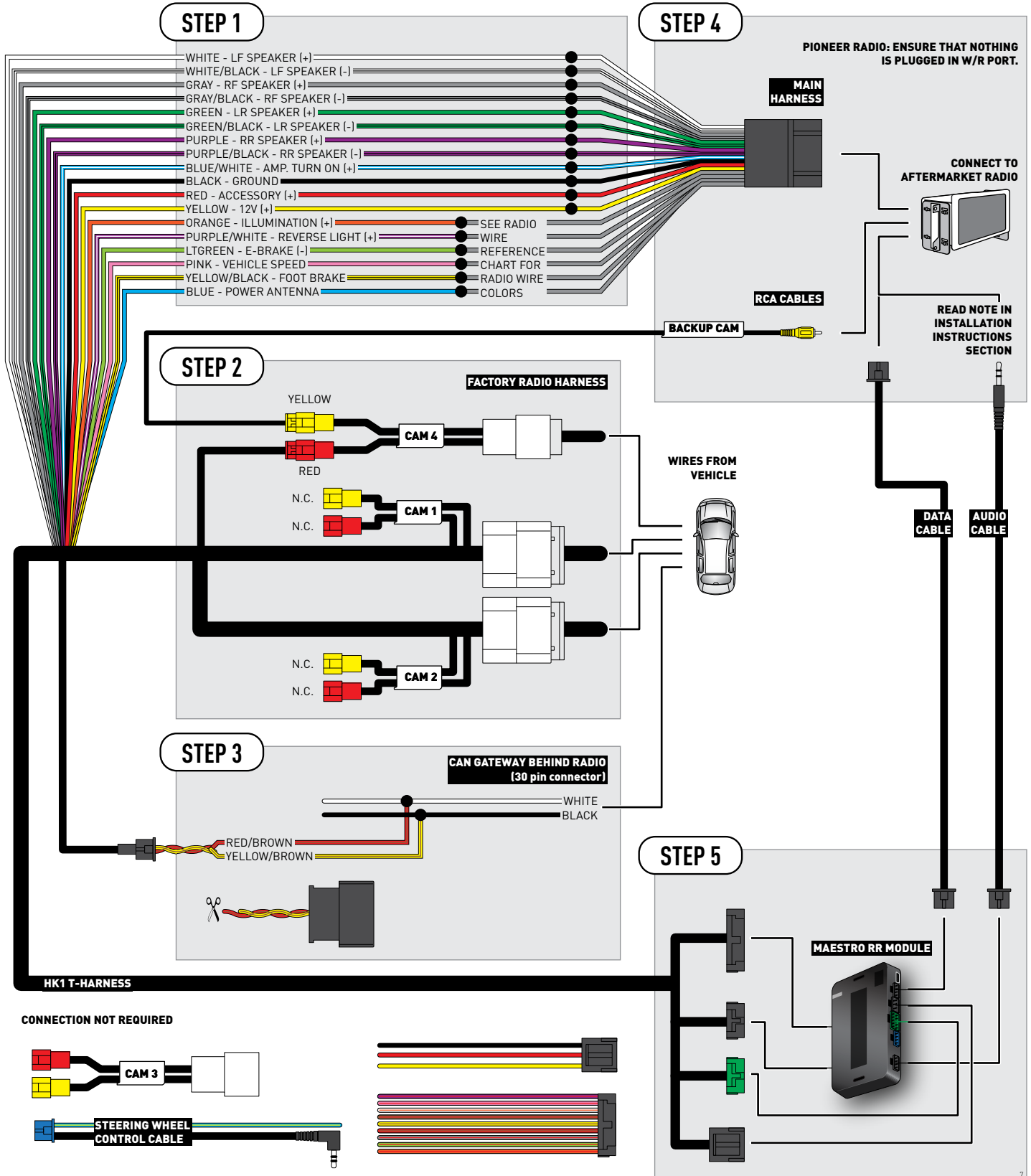
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WIRING DIAGRAM



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The light on the Maestro is blinking RED TWICE .	<p>Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty.</p> <p>Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.</p>
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2014-2015

HYUNDAI ELANTRA GT
WITHOUT AMP WITHOUT NAV

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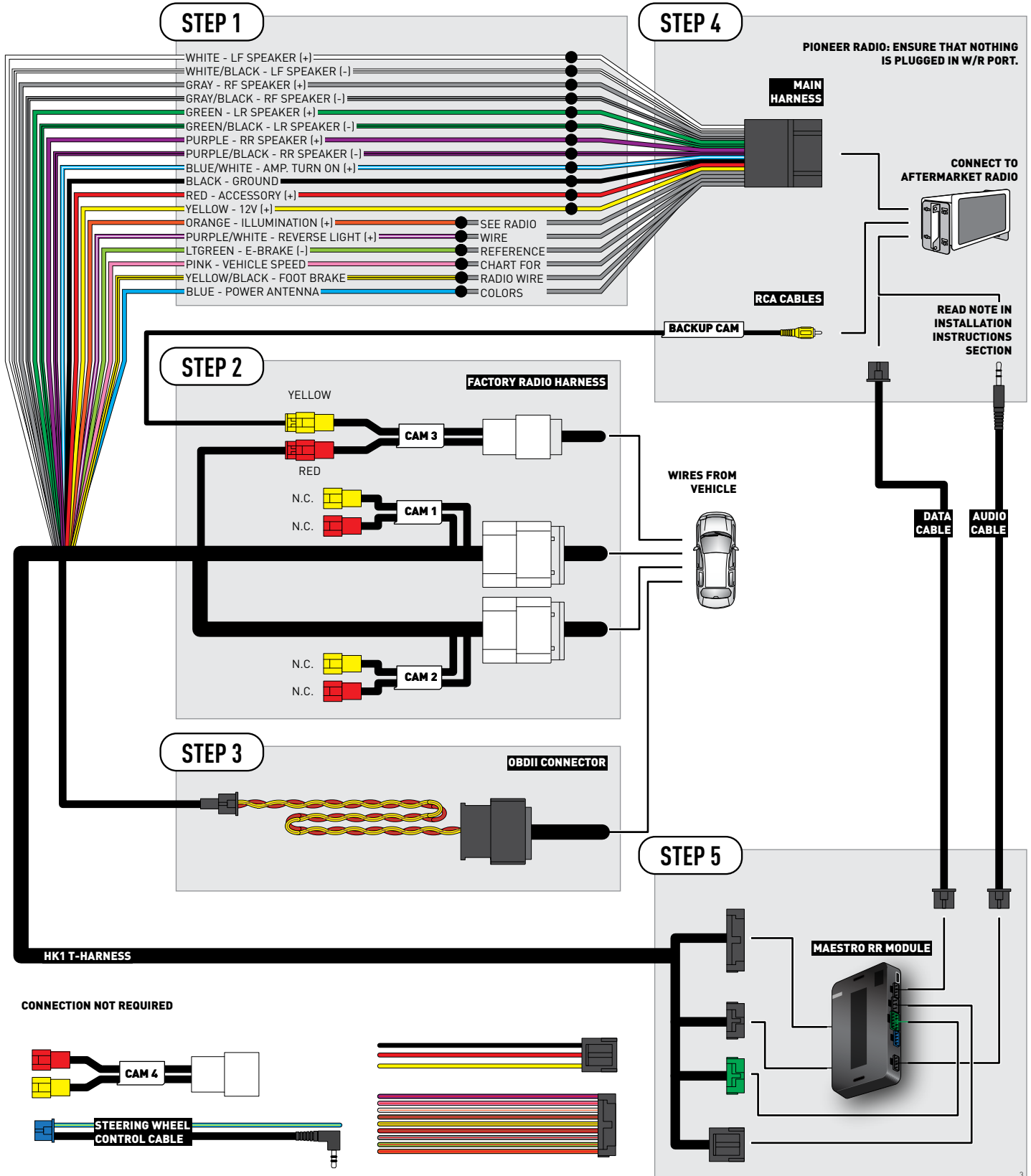
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2011-2016

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STEP 3

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

STEP 4

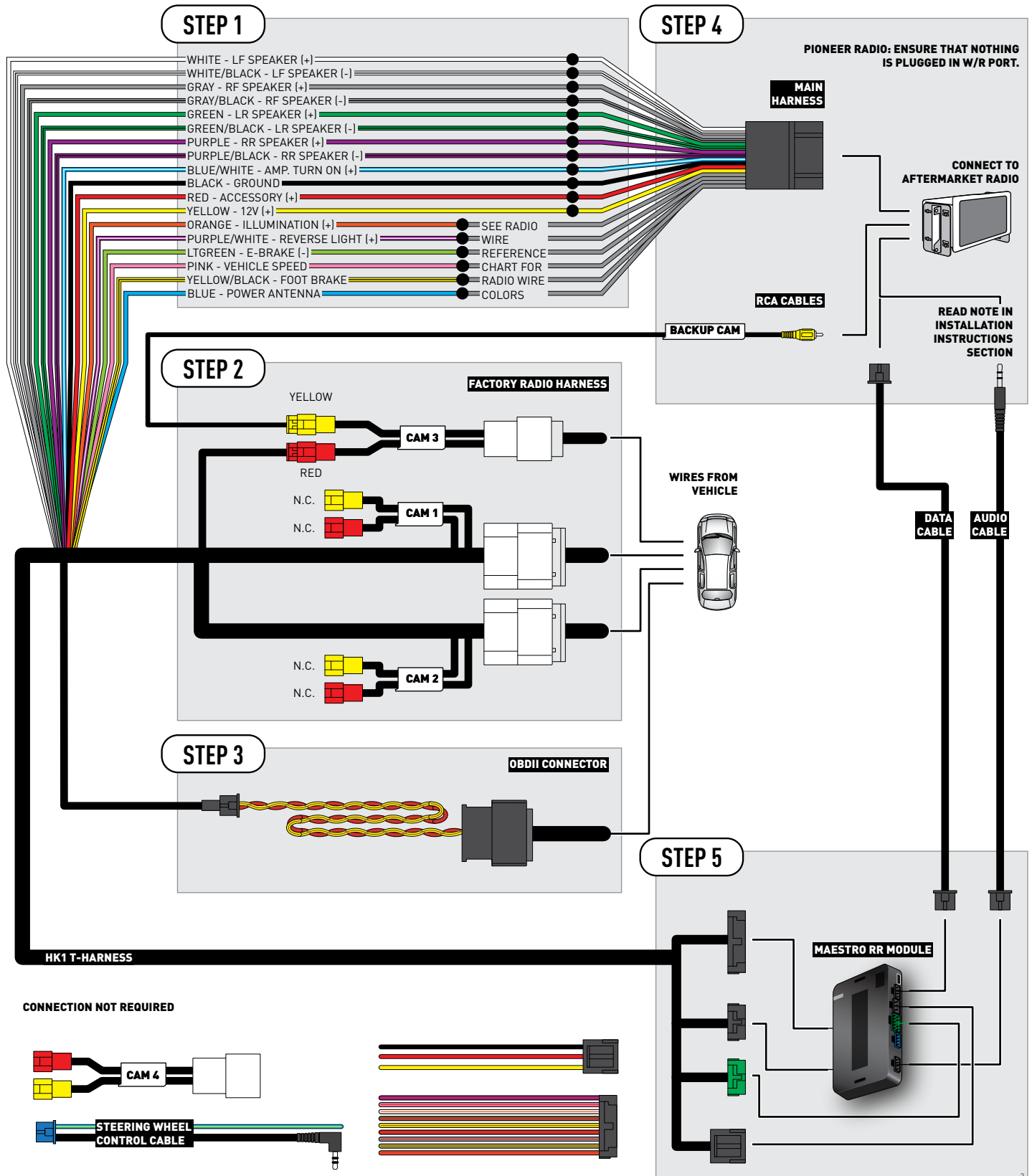
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Plug the backup camera RCA into the aftermarket radio (if applicable).
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (If there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

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

STEP 5

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

WIRING DIAGRAM



RADIO WIRE REFERENCE CHART

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

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	<p>Ensure the RED/ BROWN wire of the HK1 harness is connected to WHITE wire of the CAN gateway connector, in the radio cavity.</p> <p>Ensure the YELLOW/ BROWN wire of the HK1 harness is connected to BLACK wire of the CAN gateway connector, in the radio cavity.</p> <p>Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>Reset the RR.</p>
The light on the Maestro is blinking RED TWICE .	<p>Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty.</p> <p>Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.</p>
The light on the Maestro is flashing RED ONCE .	There is no firmware on the module; flash the RR module.

MAESTRO RR RESET PROCEDURE:

Turn the key to the OFF position, then disconnect all connectors from the module.

Press and hold the module's programming button and connect all the connectors back to the module. Wait, the module's LED will flash RED rapidly (this may take up to 10 seconds).

Release the programming button. Wait, the LED will turn solid GREEN for 2 seconds to show the reset was successful.

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

Web: maestro.idatalink.com/support add www.12voltdata.com/forum/

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

2017-2018

HYUNDAI ELANTRA

WITHOUT AMP WITHOUT NAV WITHOUT 8" SCREEN

RETAINS STEERING WHEEL CONTROLS, BACKUP CAMERA, GAUGES, AND MORE!



PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro HRN-RR-HK1 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-HK01-DS

ADDITIONAL RESOURCES

[Maestro RR2 Programmable Outputs Guide](#)

OPTIONAL ACCESSORIES



Click here for:
[Radar Installation Guides](#)


WELCOME

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

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

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

NEED HELP?

 1 866 427-2999

 maestro.support@idatalink.com

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

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INSTALLATION INSTRUCTIONS

STEP 1

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- Connect the wires shown on the next page from aftermarket radio main harness to the HK1 T-harness and match the wire functions.

STEP 2

- Remove the factory radio.
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- Plug the male BLACK 2 pin connector of your HK1 T-harness into the OBDII harness.
- Plug the OBDII connector into the OBDII of the vehicle, located under the driver side dash.

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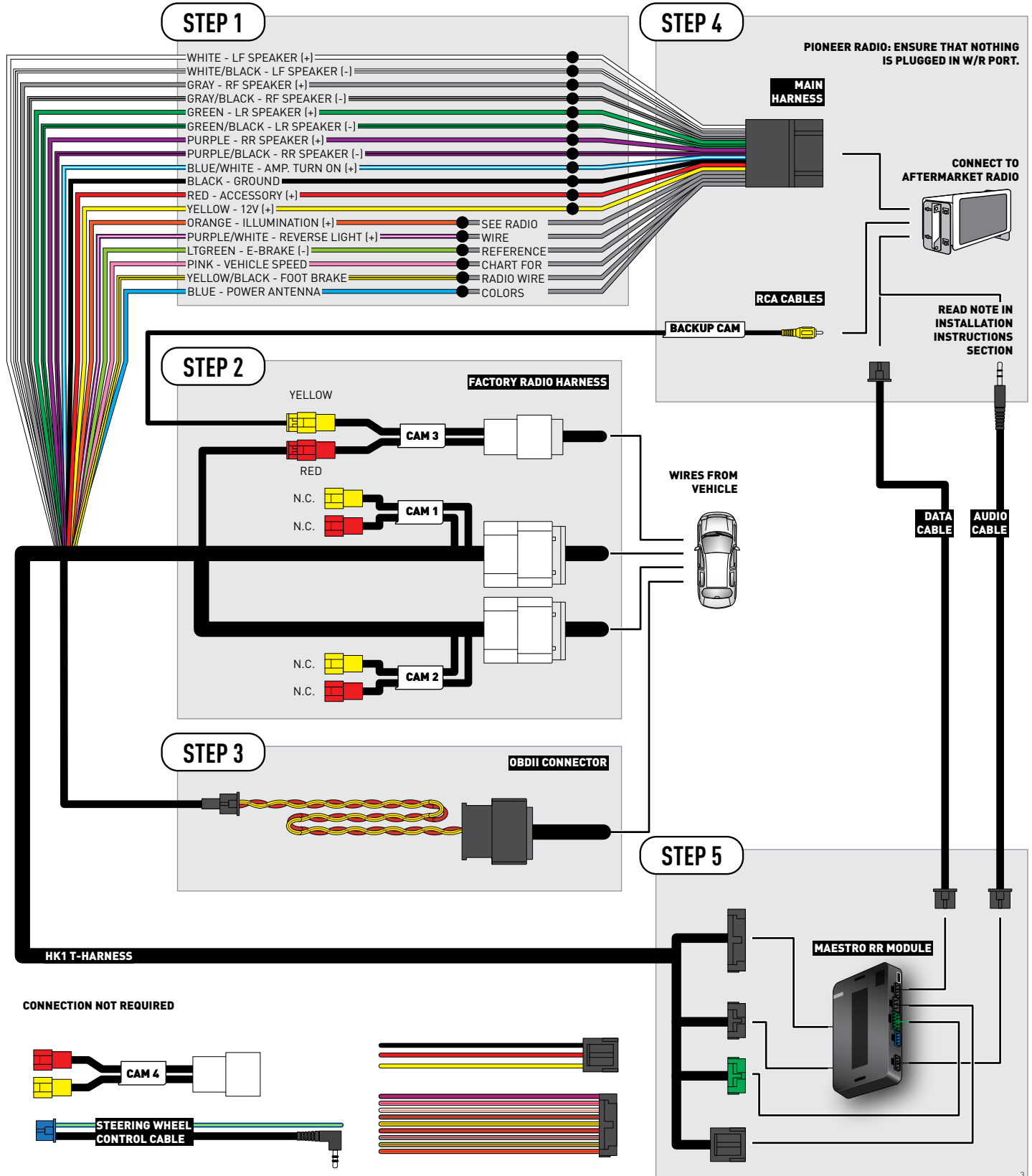
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- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (If there is no iDatalink audio input, connect to AUX).

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

STEP 5

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

WIRING DIAGRAM



RADIO WIRE REFERENCE CHART

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

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	Ensure the RED/ BROWN wire of the HK1 harness is connected to WHITE wire of the CAN gateway connector, in the radio cavity. Ensure the YELLOW/ BROWN wire of the HK1 harness is connected to BLACK wire of the CAN gateway connector, in the radio cavity. Do not use T-Taps. Soldering or military splicing methods are recommended. Reset the RR.
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Web: maestro.idatalink.com/support add www.12voldata.com/forum/

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

RETAINS STEERING WHEEL CONTROLS, BACKUP CAMERA, GAUGES, AND MORE!



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PROGRAMMED FIRMWARE

ADS-RR(SR)-HK01-DS

ADDITIONAL RESOURCES

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OPTIONAL ACCESSORIES



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WELCOME

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NEED HELP?

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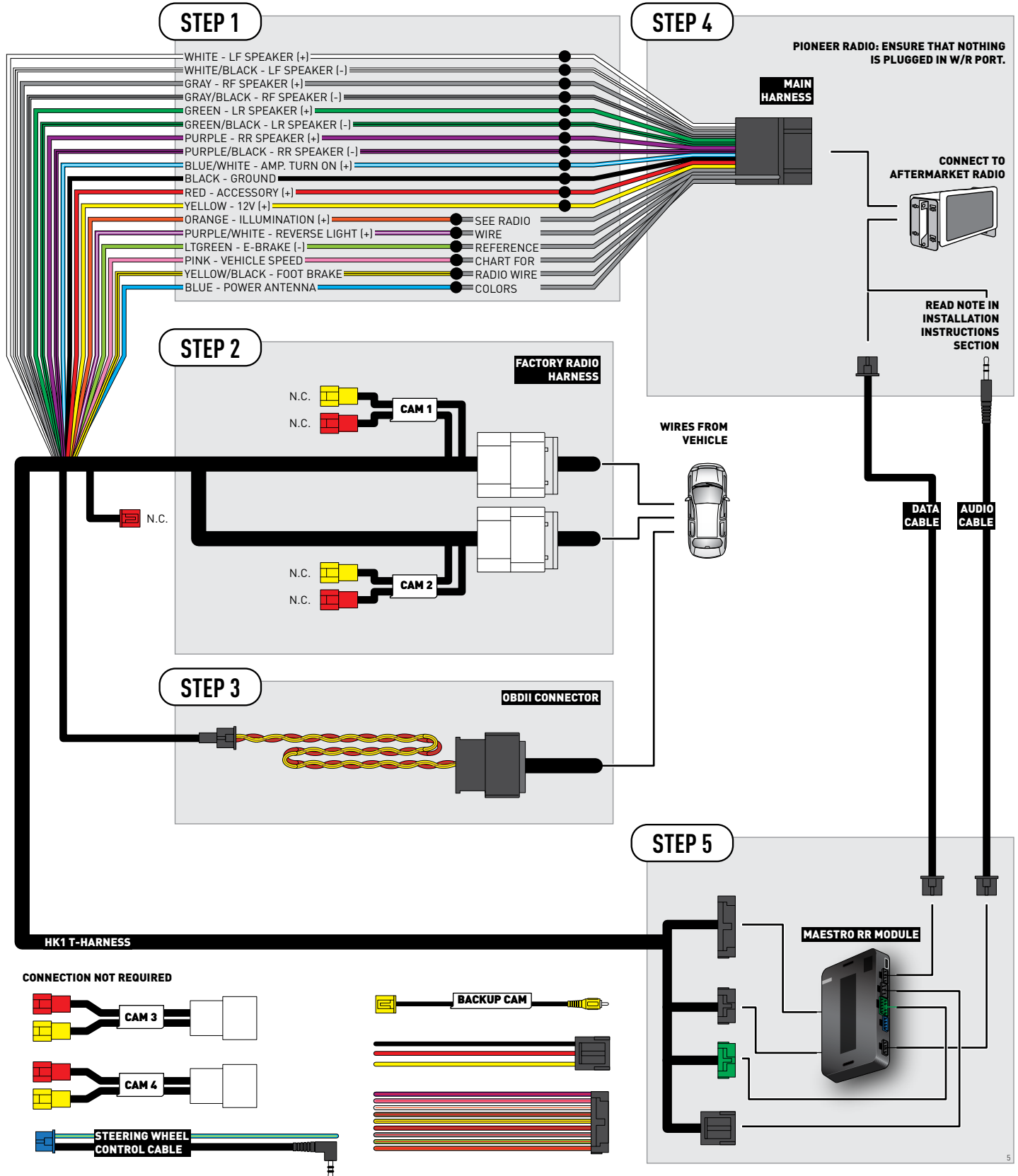
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STEP 5

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WIRING DIAGRAM



RADIO WIRE REFERENCE CHART

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E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
Foot Brake	(+)	Yellow/Black	Yellow/Black	N/A	Pink	N/A
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A
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TECHNICAL ASSISTANCE

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Email: maestro.support@idatalink.com

Web: maestro.idatalink.com/support add www.12voldata.com/forum/

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

2013-2018

HYUNDAI SANTA FE

WITHOUT AMP WITHOUT NAV WITHOUT 8" SCREEN

RETAINS STEERING WHEEL CONTROLS, BACKUP CAMERA, GAUGES, AND MORE!



PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro HRN-RR-HK1 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-HK01-DS

ADDITIONAL RESOURCES

[Maestro RR2 Programmable Outputs Guide](#)

OPTIONAL ACCESSORIES



Click here for:
[Radar Installation Guides](#)


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

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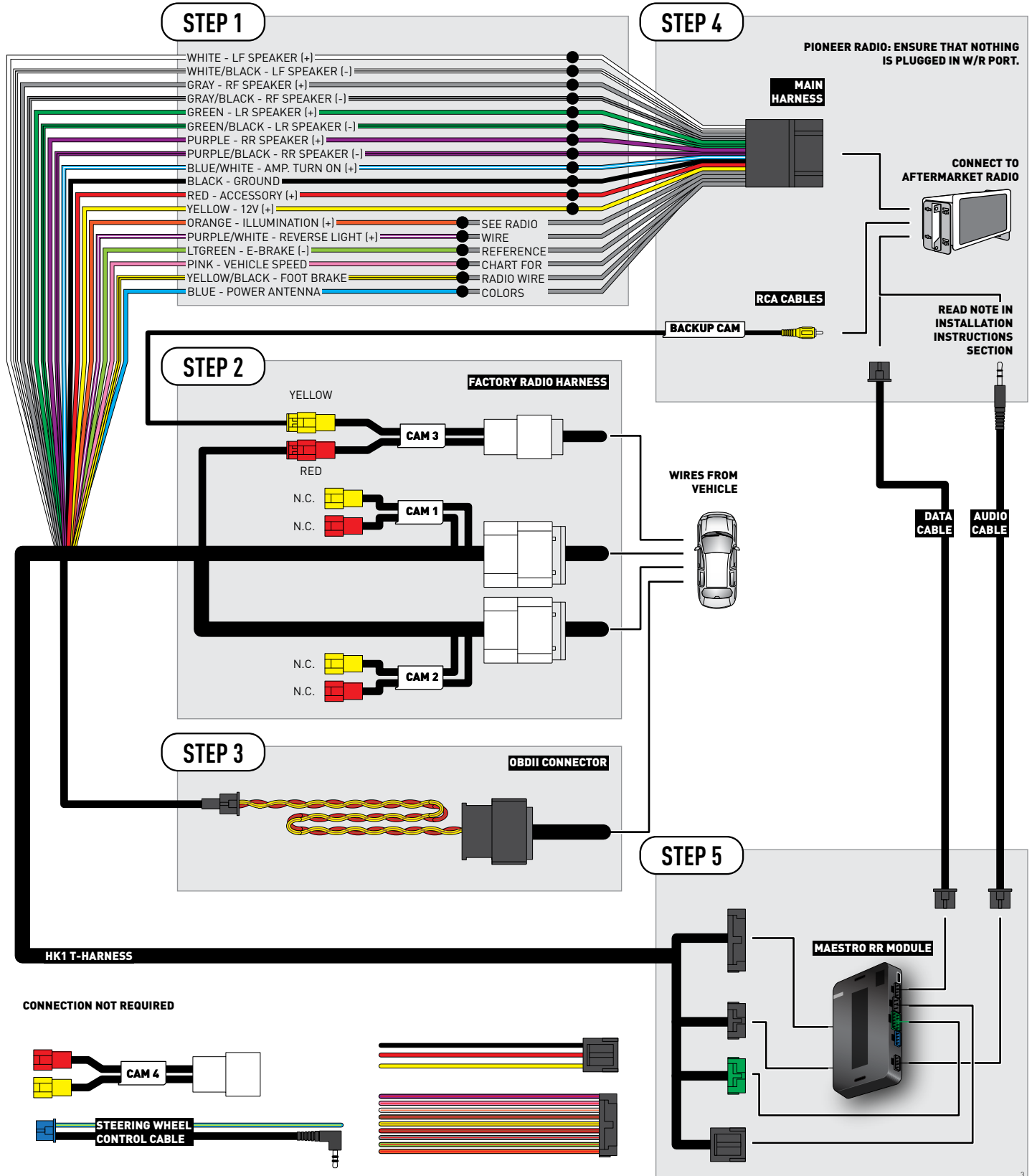
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Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.

STEP 5

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

WIRING DIAGRAM



RADIO WIRE REFERENCE CHART

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

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
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The light on the Maestro is blinking RED TWICE .	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty. Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
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MAESTRO RR RESET PROCEDURE:

Turn the key to the OFF position, then disconnect all connectors from the module.
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TECHNICAL ASSISTANCE

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

2011-2017

HYUNDAI SONATA

WITHOUT AMP WITHOUT NAV WITHOUT 8" SCREEN

RETAINS STEERING WHEEL CONTROLS, BACKUP CAMERA, GAUGES, AND MORE!



PRODUCTS REQUIRED

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iDatalink Maestro HRN-RR-HK1 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-HK01-DS

ADDITIONAL RESOURCES

[Maestro RR2 Programmable Outputs Guide](#)

OPTIONAL ACCESSORIES



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WELCOME

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NEED HELP?

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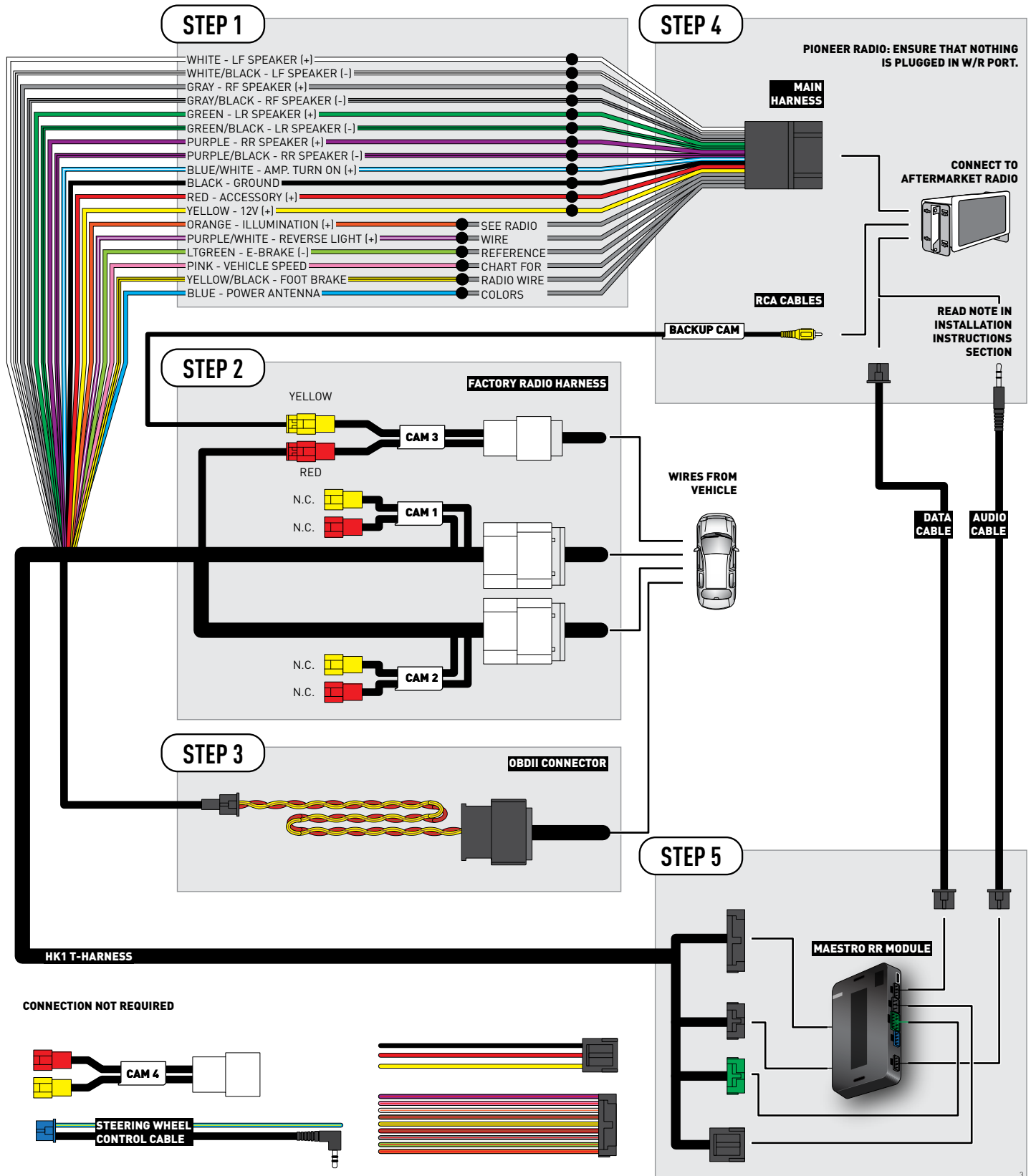
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WIRING DIAGRAM



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VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A
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2010-2018

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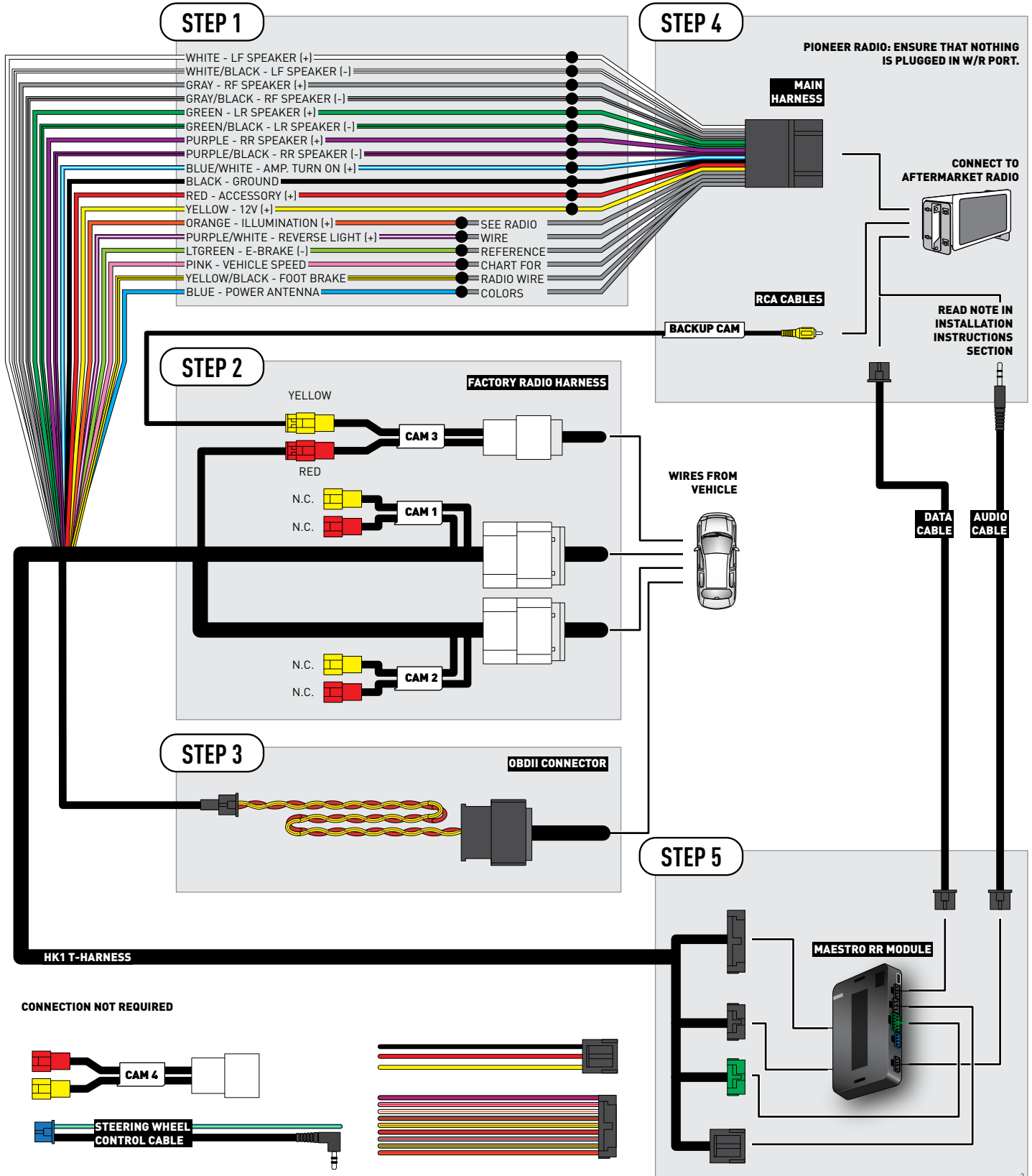
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 Press and hold the module's programming button and connect all the connectors back to the module. Wait, the module's LED will flash RED rapidly (this may take up to 10 seconds).
 Release the programming button. Wait, the LED will turn solid GREEN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

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

Web: maestro.idatalink.com/support add www.12voldata.com/forum/

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

2014-2018

KIA FORTE

WITHOUT AMP WITHOUT 8" SCREEN

RETAINS STEERING WHEEL CONTROLS, BACKUP CAMERA, GAUGES, AND MORE!



PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro HRN-RR-HK1 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-HK01-DS

ADDITIONAL RESOURCES

[Maestro RR2 Programmable Outputs Guide](#)

OPTIONAL ACCESSORIES



Click here for:
[Radar Installation Guides](#)


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?

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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 HK1 T-harness and match the wire functions.

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- Remove the factory radio.
- Assemble the HK1 T-harness (connect CAM3 connectors as shown in the diagram).
- Connect the factory radio harness to the HK1 T-harness.

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- Plug the male BLACK 2 pin connector of your HK1 T-harness into the OBDII harness.
- Plug the OBDII connector into the OBDII of the vehicle, located under the driver side dash.

STEP 4

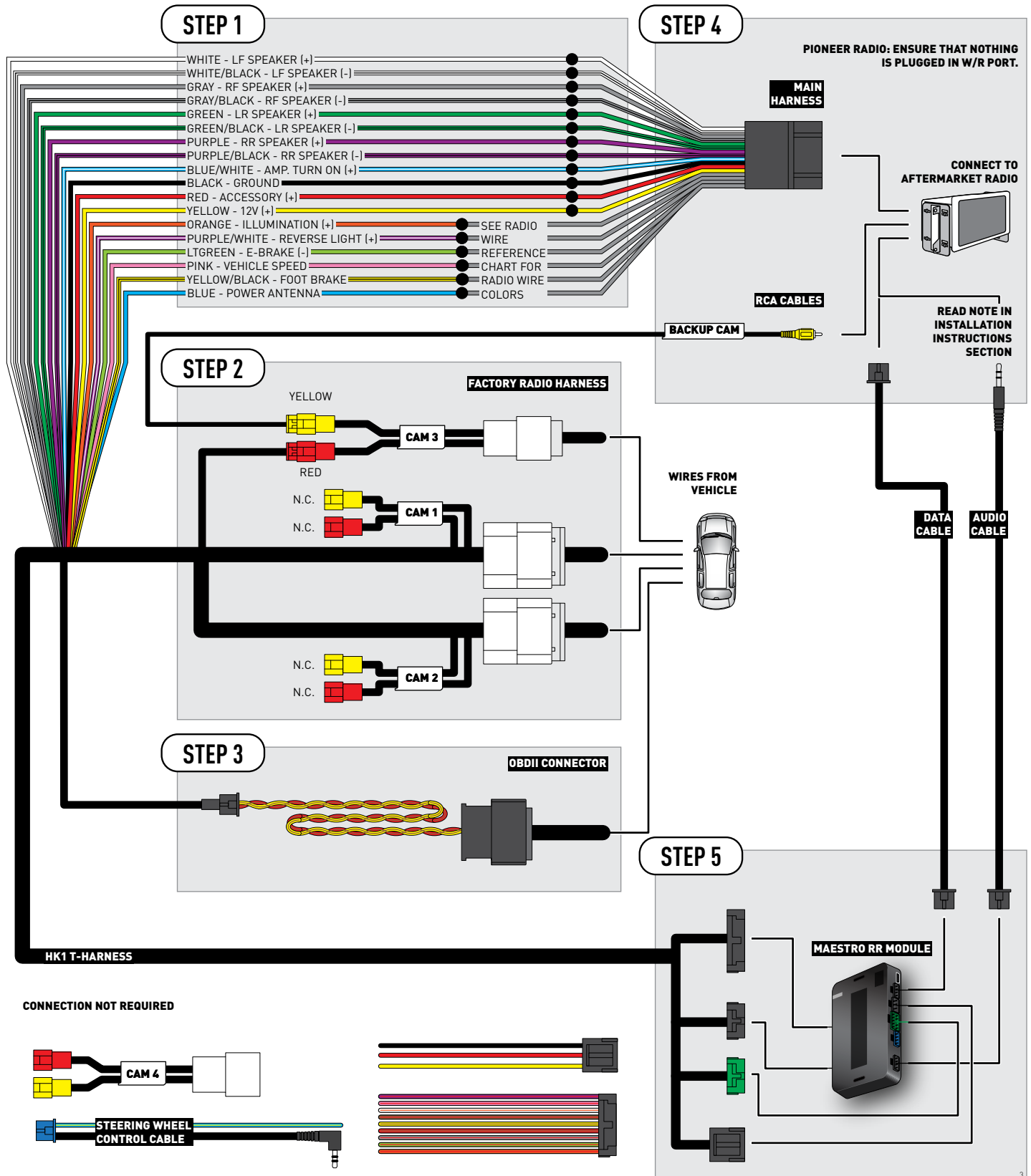
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Plug the backup camera RCA into the aftermarket radio (if applicable).
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (If there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

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

STEP 5

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

WIRING DIAGRAM



RADIO WIRE REFERENCE CHART

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

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	<p>Ensure the RED/ BROWN wire of the HK1 harness is connected to WHITE wire of the CAN gateway connector, in the radio cavity.</p> <p>Ensure the YELLOW/ BROWN wire of the HK1 harness is connected to BLACK wire of the CAN gateway connector, in the radio cavity.</p> <p>Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>Reset the RR.</p>
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RETAINS STEERING WHEEL CONTROLS, BACKUP CAMERA, GAUGES, AND MORE!



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PROGRAMMED FIRMWARE

ADS-RR(SR)-HK01-DS

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OPTIONAL ACCESSORIES



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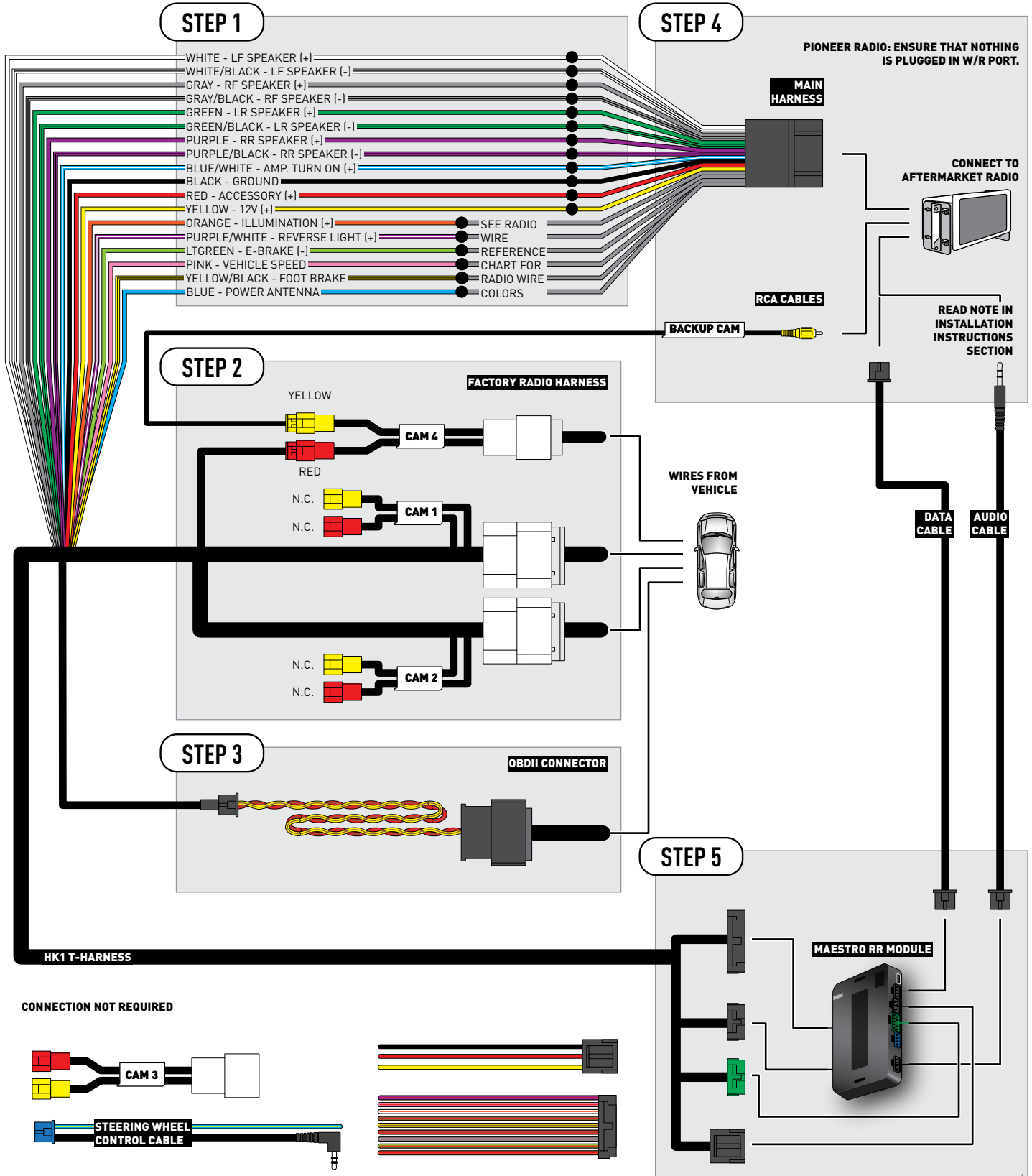
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Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.

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WIRING DIAGRAM



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Foot Brake	(+)	Yellow/Black	Yellow/Black	N/A	Pink	N/A
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A
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2011-2017
KIA OPTIMA
WITHOUT AMP WITHOUT NAV WITHOUT 8" SCREEN

RETAINS STEERING WHEEL CONTROLS, BACKUP CAMERA, GAUGES, AND MORE!



PRODUCTS REQUIRED

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iDatalink Maestro HRN-RR-HK1 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-HK01-DS

ADDITIONAL RESOURCES

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OPTIONAL ACCESSORIES



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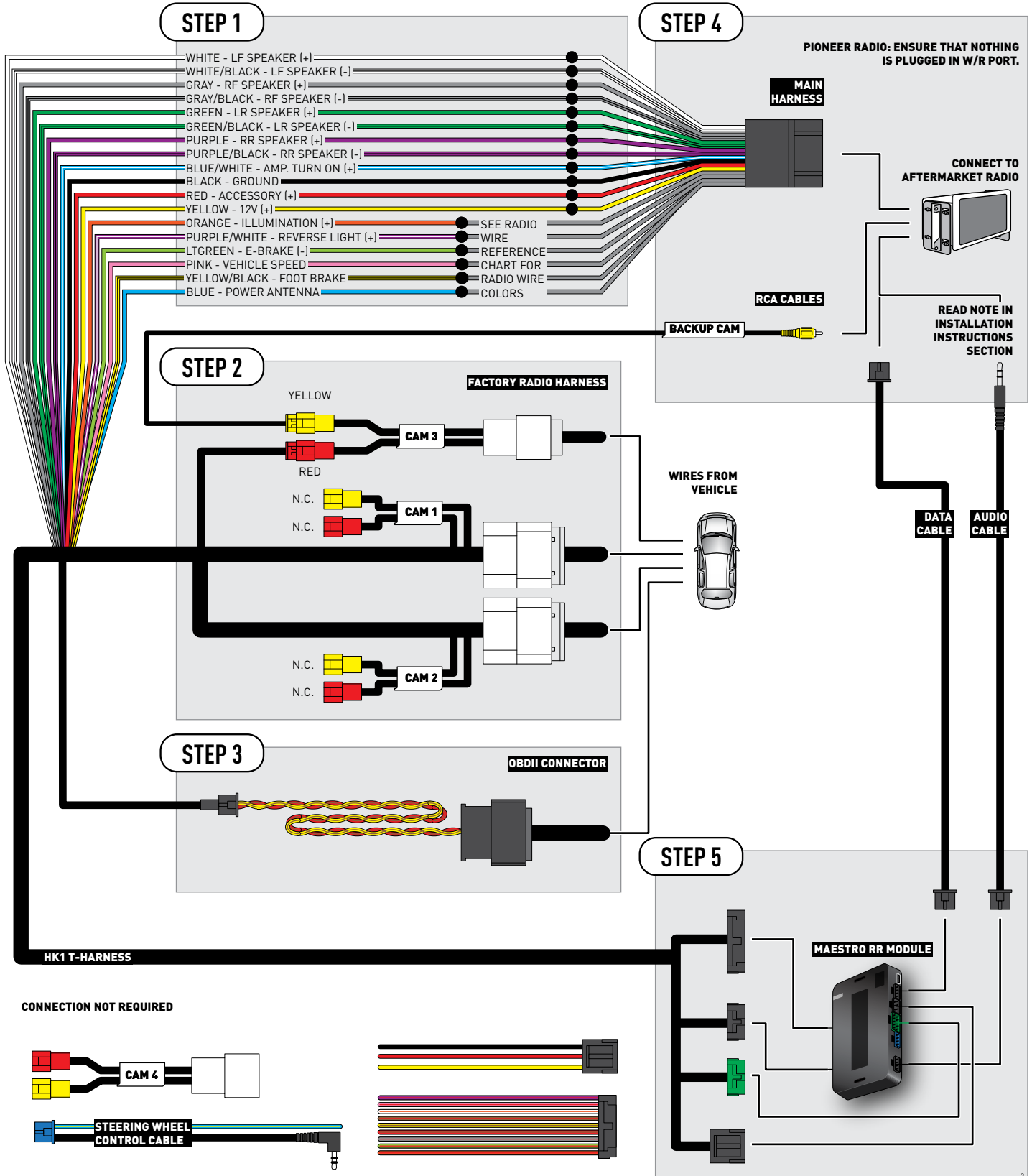
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Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.

STEP 5

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

WIRING DIAGRAM



RADIO WIRE REFERENCE CHART

Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood cable	Wire Color on Pioneer cable	Wire Color on Sony cable
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Foot Brake	(+)	Yellow/Black	Yellow/Black	N/A	Pink	N/A
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A
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PROBLEM	SOLUTION
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TECHNICAL ASSISTANCE

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Email: maestro.support@idatalink.com

Web: maestro.idatalink.com/support add www.12voldata.com/forum/

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

2012-2017

KIA RIO

WITH NAV WITHOUT AMP WITHOUT 8" SCREEN

RETAINS STEERING WHEEL CONTROLS, BACKUP CAMERA, GAUGES, AND MORE!



PRODUCTS REQUIRED

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iDatalink Maestro HRN-RR-HK1 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-HK01-DS

ADDITIONAL RESOURCES

[Maestro RR2 Programmable Outputs Guide](#)

OPTIONAL ACCESSORIES



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WELCOME

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

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NEED HELP?

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- Remove the factory radio.
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STEP 3

- Plug the male BLACK 2 pin connector of your HK1 T-harness into the OBDII harness.
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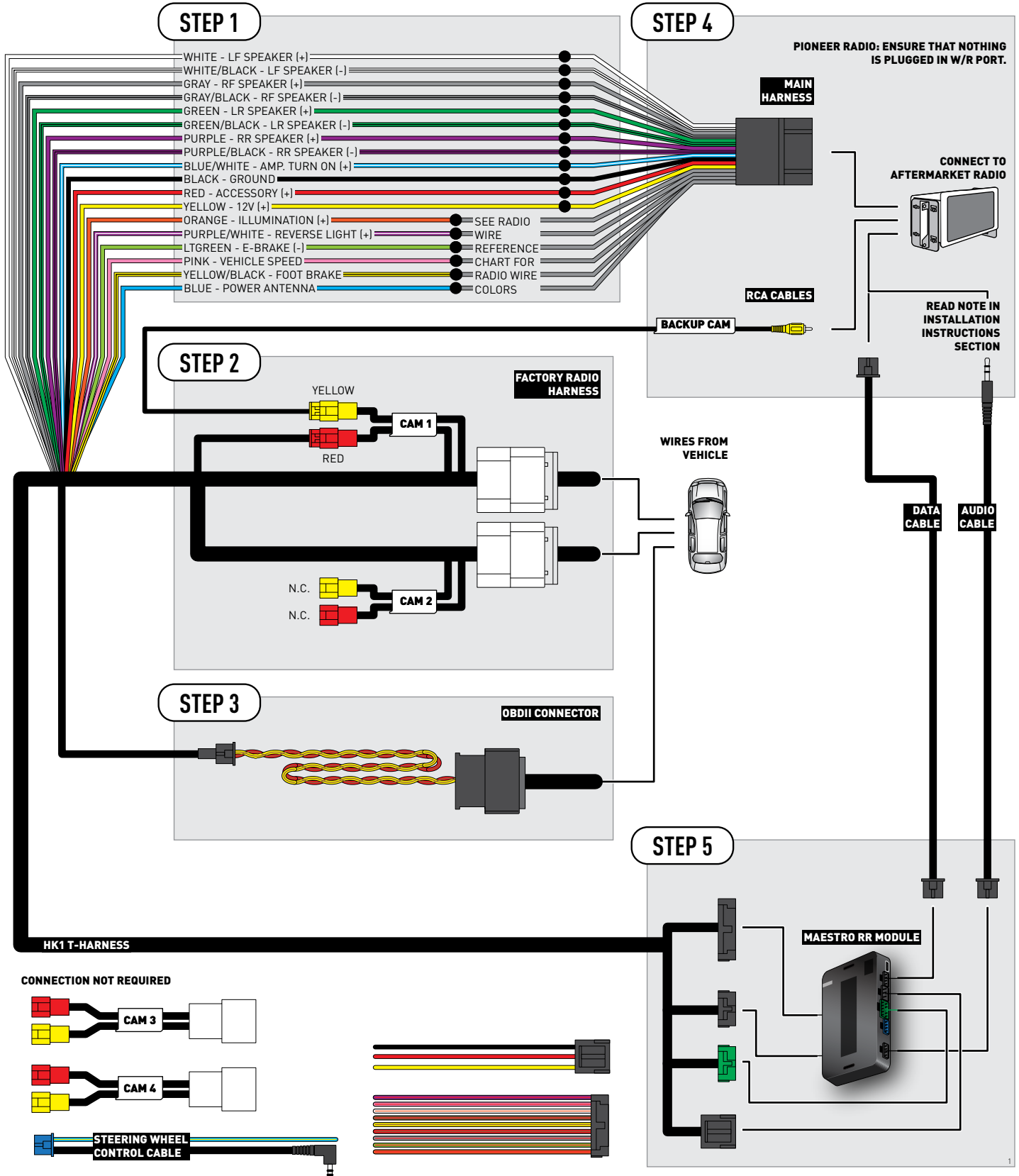
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Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.

STEP 5

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

WIRING DIAGRAM



RADIO WIRE REFERENCE CHART

Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood cable	Wire Color on Pioneer cable	Wire Color on Sony cable
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PROBLEM	SOLUTION
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2012-2017

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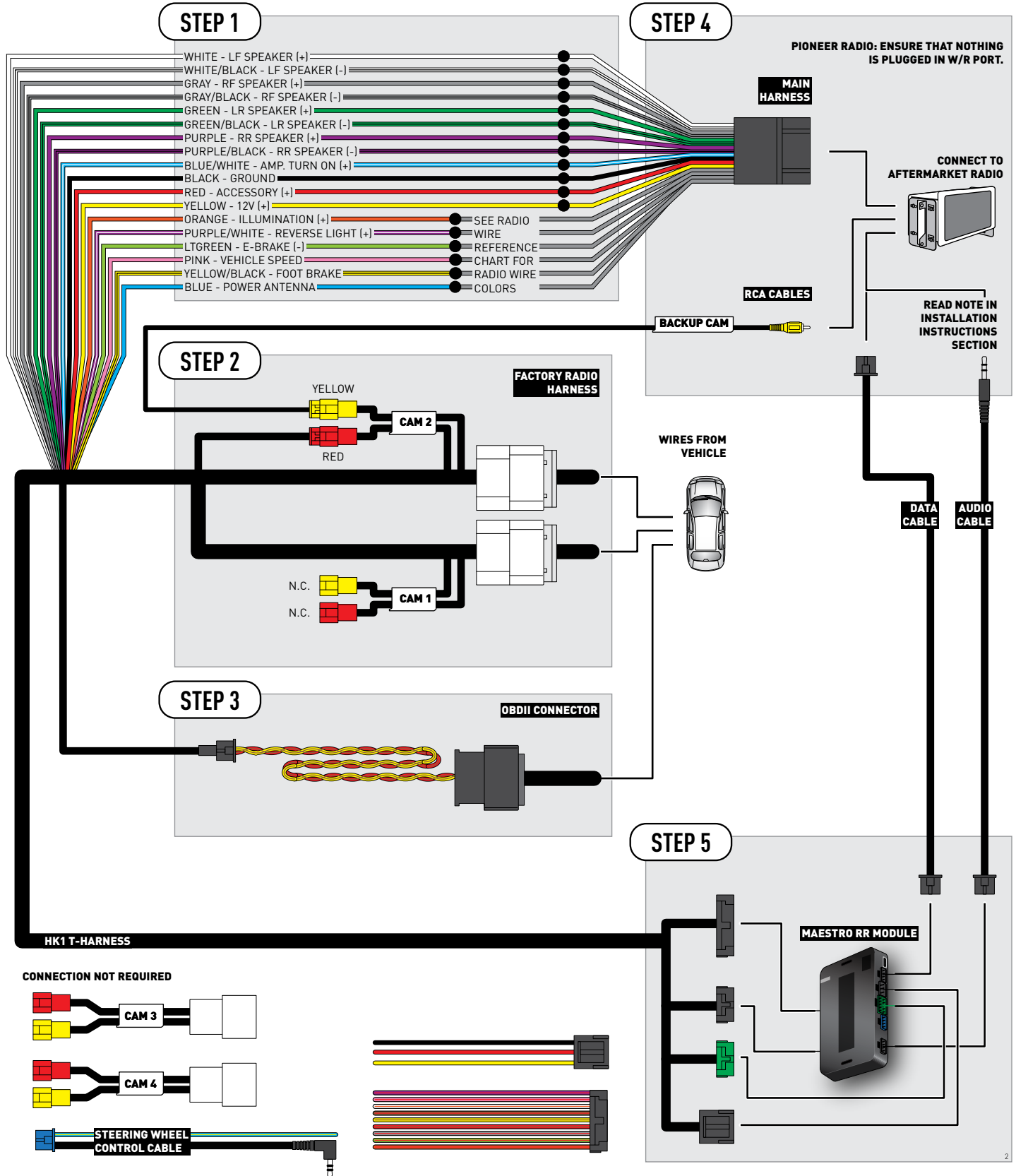
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- Plug the OBDII connector into the OBDII of the vehicle, located under the driver side dash.

STEP 4

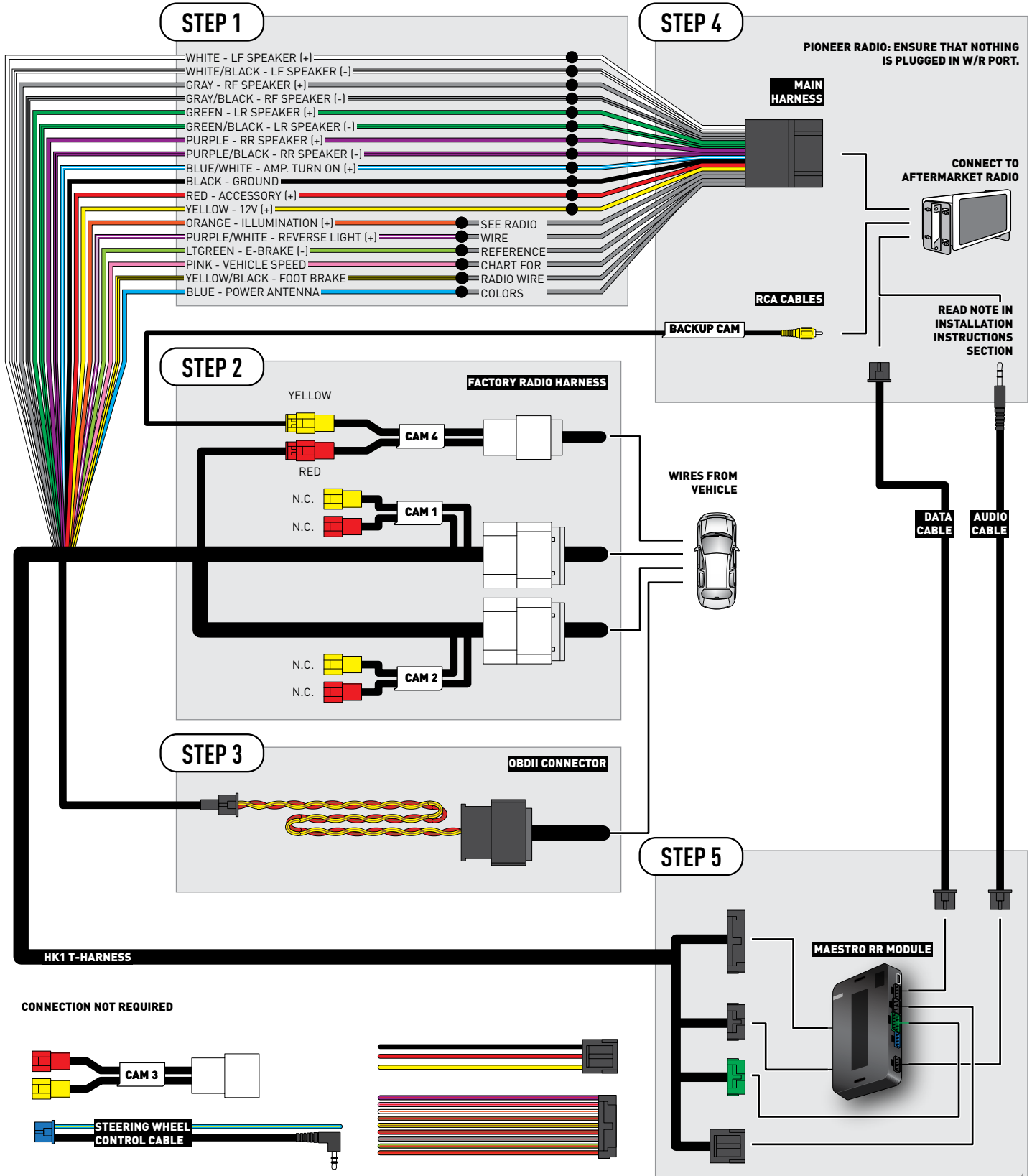
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Plug the backup camera RCA into the aftermarket radio (if applicable).
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (If there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

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

STEP 5

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

WIRING DIAGRAM



RADIO WIRE REFERENCE CHART

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

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	<p>Ensure the RED/ BROWN wire of the HK1 harness is connected to WHITE wire of the CAN gateway connector, in the radio cavity.</p> <p>Ensure the YELLOW/ BROWN wire of the HK1 harness is connected to BLACK wire of the CAN gateway connector, in the radio cavity.</p> <p>Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>Reset the RR.</p>
The light on the Maestro is blinking RED TWICE .	<p>Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty.</p> <p>Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.</p>
The light on the Maestro is flashing RED ONCE .	There is no firmware on the module; flash the RR module.

MAESTRO RR RESET PROCEDURE:

Turn the key to the OFF position, then disconnect all connectors from the module.

Press and hold the module's programming button and connect all the connectors back to the module. Wait, the module's LED will flash RED rapidly (this may take up to 10 seconds).

Release the programming button. Wait, the LED will turn solid GREEN for 2 seconds to show the reset was successful.

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

Web: maestro.idatalink.com/support add www.12voldata.com/forum/

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

2015-2016

KIA SEDONA

WITHOUT AMP WITHOUT NAV

RETAINS STEERING WHEEL CONTROLS, BACKUP CAMERA, GAUGES, AND MORE!



PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro HRN-RR-HK1 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-HK01-DS

ADDITIONAL RESOURCES

[Maestro RR2 Programmable Outputs Guide](#)

OPTIONAL ACCESSORIES



Click here for:
[Radar Installation Guides](#)


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

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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 HK1 T-harness and match the wire functions.

STEP 2

- Remove the factory radio.
- Assemble the HK1 T-harness (connect CAM2 connectors as shown in the diagram).
- Connect the factory radio harness to the HK1 T-harness.

STEP 3

- Plug the male BLACK 2 pin connector of your HK1 T-harness into the OBDII harness.
- Plug the OBDII connector into the OBDII of the vehicle, located under the driver side dash.

STEP 4

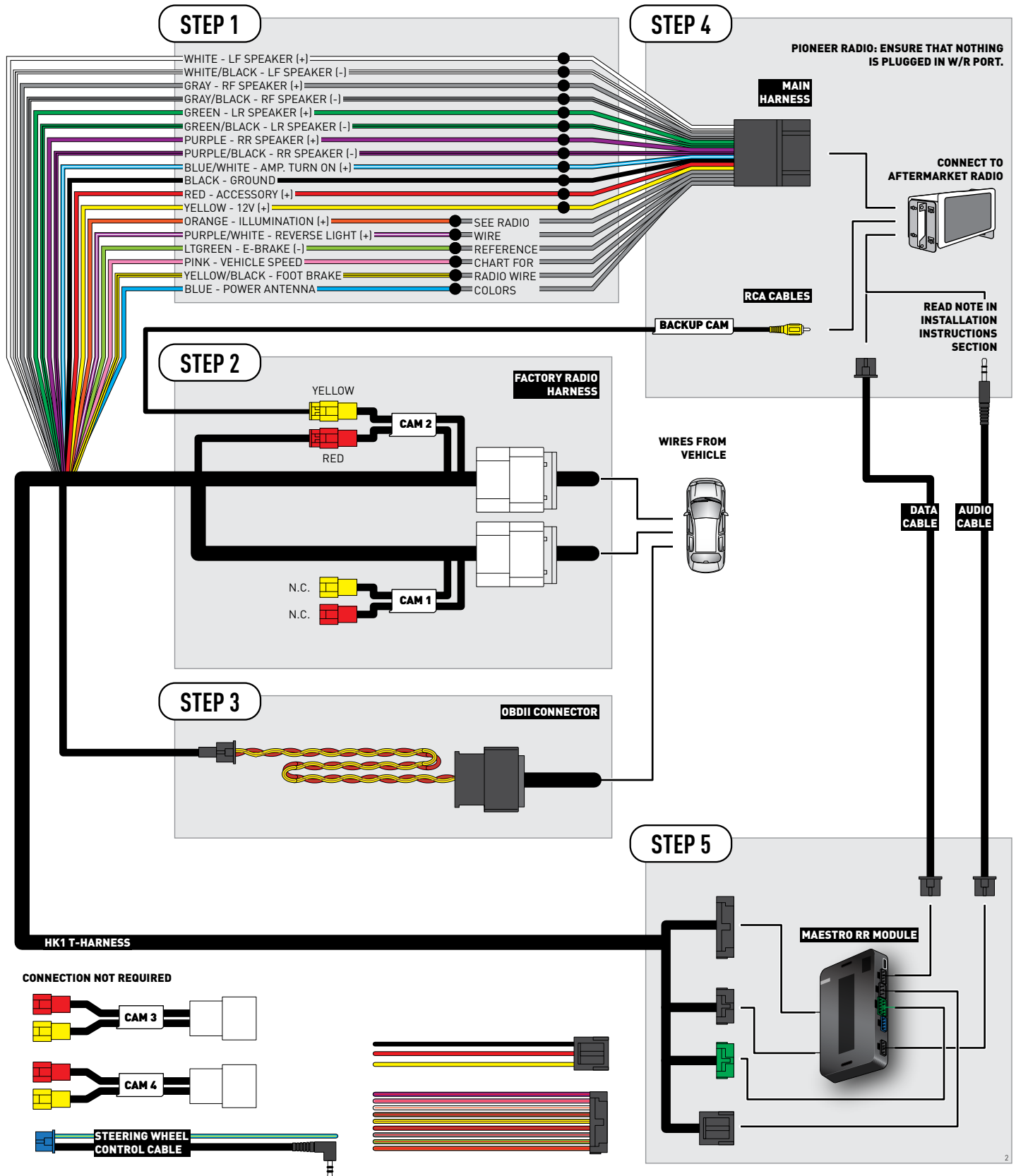
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Plug the backup camera RCA into the aftermarket radio (if applicable).
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (If there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

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

STEP 5

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

WIRING DIAGRAM



RADIO WIRE REFERENCE CHART

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

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	Ensure the RED/ BROWN wire of the HK1 harness is connected to WHITE wire of the CAN gateway connector, in the radio cavity. Ensure the YELLOW/ BROWN wire of the HK1 harness is connected to BLACK wire of the CAN gateway connector, in the radio cavity. Do not use T-Taps. Soldering or military splicing methods are recommended. Reset the RR.
The light on the Maestro is blinking RED TWICE .	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty. Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
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Turn the key to the OFF position, then disconnect all connectors from the module.
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TECHNICAL ASSISTANCE

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Web: maestro.idatalink.com/support add www.12voltdata.com/forum/

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

2014-2015

KIA SORENTO

WITHOUT AMP WITHOUT NAV WITHOUT 8" SCREEN

RETAINS STEERING WHEEL CONTROLS, BACKUP CAMERA, GAUGES, AND MORE!



PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro HRN-RR-HK1 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-HK01-DS

ADDITIONAL RESOURCES

[Maestro RR2 Programmable Outputs Guide](#)

OPTIONAL ACCESSORIES



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WELCOME

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NEED HELP?

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STEP 2

- Remove the factory radio.
- Assemble the HK1 T-harness (connect CAM2 connectors as shown in the diagram).
- Connect the factory radio harness to the HK1 T-harness.

STEP 3

- Plug the male BLACK 2 pin connector of your HK1 T-harness into the OBDII harness.
- Plug the OBDII connector into the OBDII of the vehicle, located under the driver side dash.

STEP 4

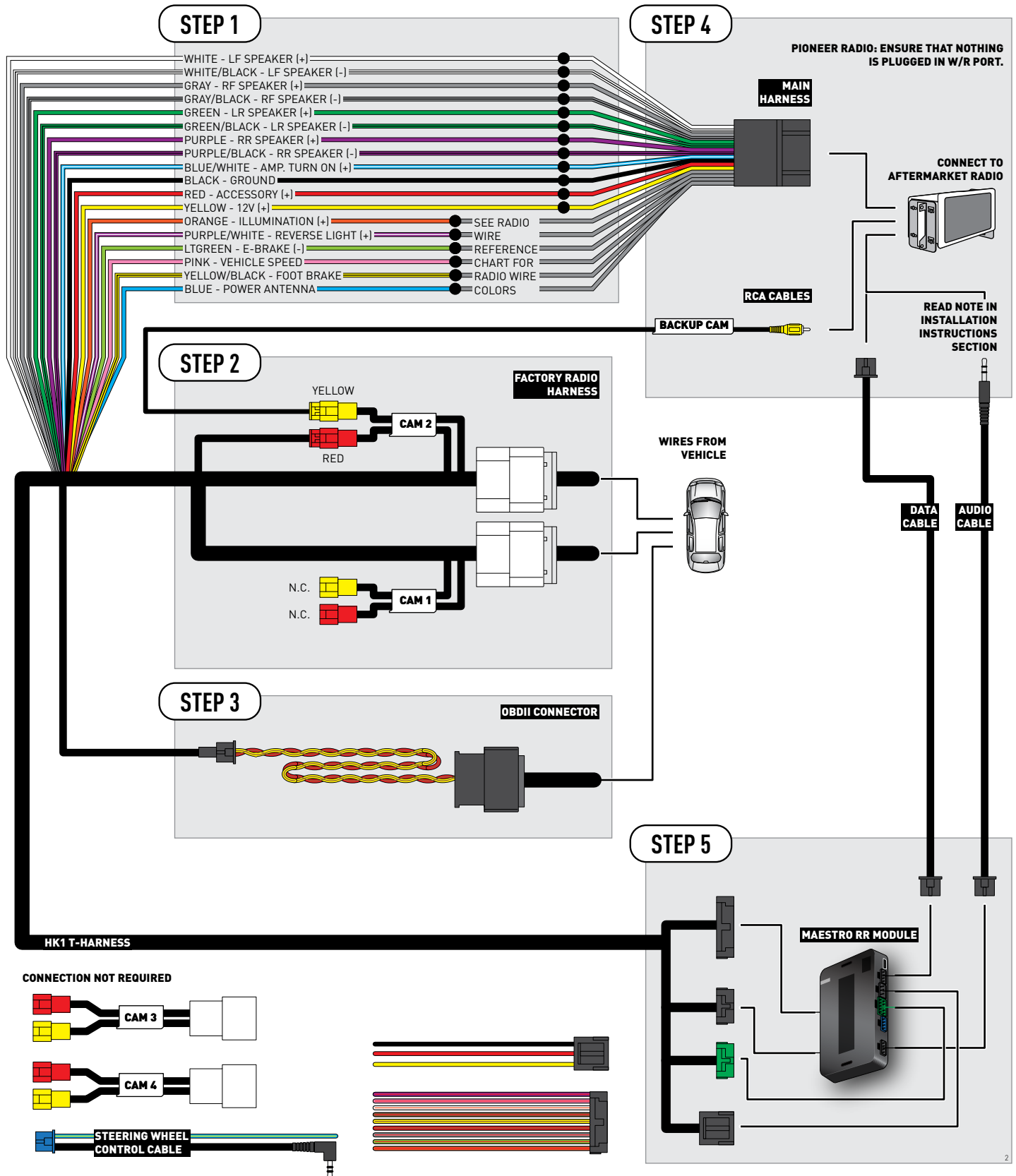
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- Plug the backup camera RCA into the aftermarket radio (if applicable).
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (If there is no iDatalink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

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

STEP 5

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

WIRING DIAGRAM



RADIO WIRE REFERENCE CHART

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

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	<p>Ensure the RED/ BROWN wire of the HK1 harness is connected to WHITE wire of the CAN gateway connector, in the radio cavity.</p> <p>Ensure the YELLOW/ BROWN wire of the HK1 harness is connected to BLACK wire of the CAN gateway connector, in the radio cavity.</p> <p>Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>Reset the RR.</p>
The light on the Maestro is blinking RED TWICE .	<p>Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty.</p> <p>Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.</p>
The light on the Maestro is flashing RED ONCE .	There is no firmware on the module; flash the RR module.

MAESTRO RR RESET PROCEDURE:

Turn the key to the OFF position, then disconnect all connectors from the module.

Press and hold the module's programming button and connect all the connectors back to the module. Wait, the module's LED will flash RED rapidly (this may take up to 10 seconds).

Release the programming button. Wait, the LED will turn solid GREEN for 2 seconds to show the reset was successful.

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

Web: maestro.idatalink.com/support add www.12voldata.com/forum/

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

2016-2018

KIA SORENTO

WITHOUT AMP WITHOUT NAV WITHOUT 8" SCREEN

RETAINS STEERING WHEEL CONTROLS, BACKUP CAMERA, GAUGES, AND MORE!



PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro HRN-RR-HK1 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-HK01-DS

ADDITIONAL RESOURCES

[Maestro RR2 Programmable Outputs Guide](#)

OPTIONAL ACCESSORIES



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WELCOME

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

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

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NEED HELP?

 1 866 427-2999

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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 HK1 T-harness and match the wire functions.

STEP 2

- Remove the factory radio.
- Assemble the HK1 T-harness (connect CAM2 connectors as shown in the diagram).
- Connect the factory radio harness to the HK1 T-harness.

STEP 3

- Plug the male BLACK 2 pin connector of your HK1 T-harness into the OBDII harness.
- Cut and remove the OBDII connector on the OBDII harness.
- Locate the 30 pin CAN Gateway harness in the radio cavity (attached to the subframe behind the radio on the driver's side). Locate the SOLID WHITE wire and SOLID BLACK wire (pinned on top of each other).
- Connect RED/BROWN wire (HK1) to WHITE wire.
- Connect YELLOW/BROWN (HK1) to BLACK wire.

STEP 4

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

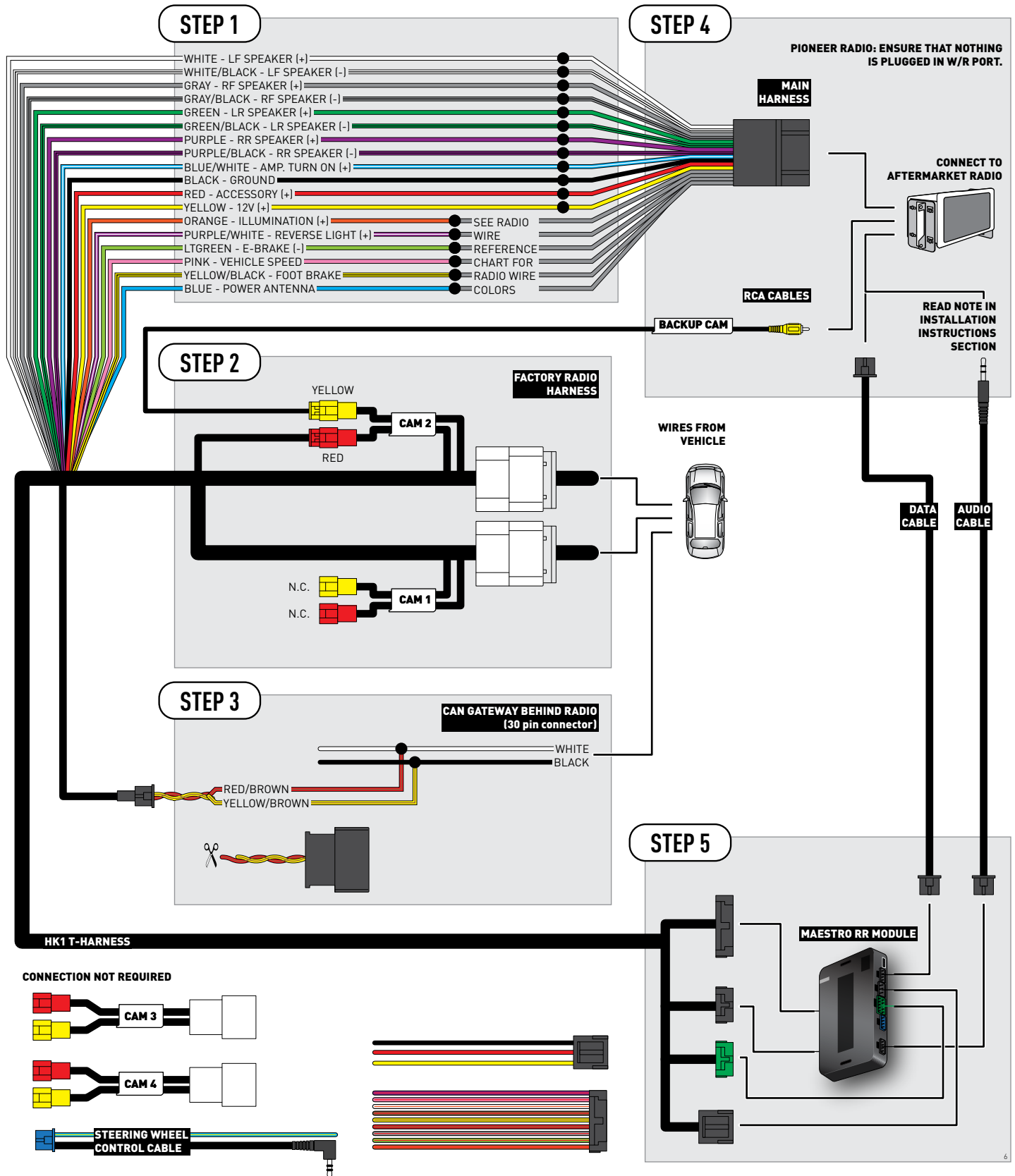
Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.

STEP 5

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

6

WIRING DIAGRAM



RADIO WIRE REFERENCE CHART

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

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	<p>Ensure the RED/ BROWN wire of the HK1 harness is connected to WHITE wire of the CAN gateway connector, in the radio cavity.</p> <p>Ensure the YELLOW/ BROWN wire of the HK1 harness is connected to BLACK wire of the CAN gateway connector, in the radio cavity.</p> <p>Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>Reset the RR.</p>
The light on the Maestro is blinking RED TWICE .	<p>Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty.</p> <p>Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.</p>
The light on the Maestro is flashing RED ONCE .	There is no firmware on the module; flash the RR module.

MAESTRO RR RESET PROCEDURE:

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

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

Web: maestro.idatalink.com/support add www.12voldata.com/forum/

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

2012-2016

KIA SOUL

WITHOUT AMP WITHOUT NAV WITHOUT 8" SCREEN

RETAINS STEERING WHEEL CONTROLS, BACKUP CAMERA, GAUGES, AND MORE!



PRODUCTS REQUIRED

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iDatalink Maestro HRN-RR-HK1 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-HK01-DS

ADDITIONAL RESOURCES

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OPTIONAL ACCESSORIES



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NEED HELP?

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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 HK1 T-harness and match the wire functions.

STEP 2

- Remove the factory radio.
- Assemble the HK1 T-harness (connect CAM2 connectors as shown in the diagram).
- Connect the factory radio harness to the HK1 T-harness.

STEP 3

- Plug the male BLACK 2 pin connector of your HK1 T-harness into the OBDII harness.
- Plug the OBDII connector into the OBDII of the vehicle, located under the driver side dash.

STEP 4

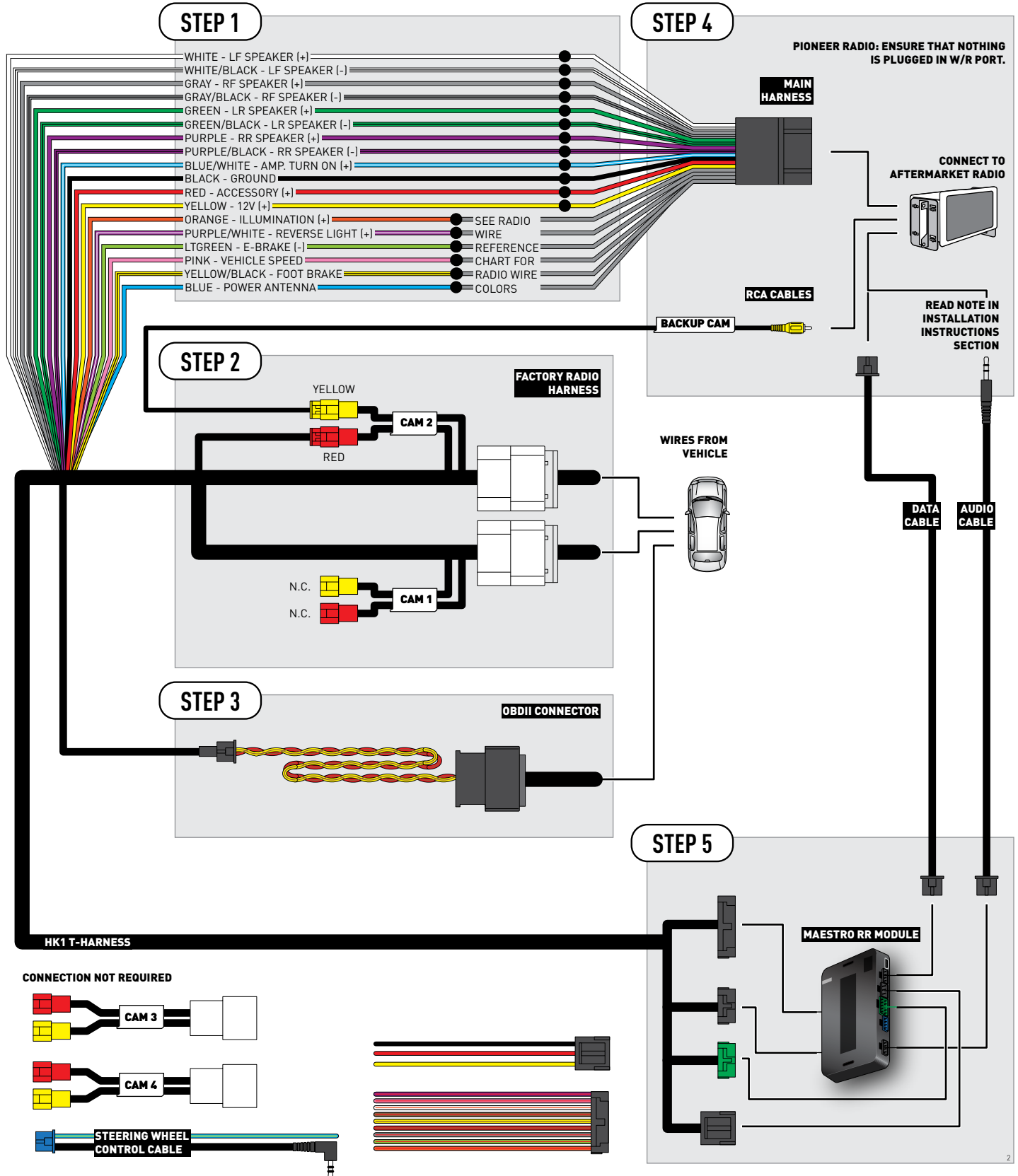
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Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.

STEP 5

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

WIRING DIAGRAM



RADIO WIRE REFERENCE CHART

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

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	<p>Ensure the RED/ BROWN wire of the HK1 harness is connected to WHITE wire of the CAN gateway connector, in the radio cavity.</p> <p>Ensure the YELLOW/ BROWN wire of the HK1 harness is connected to BLACK wire of the CAN gateway connector, in the radio cavity.</p> <p>Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>Reset the RR.</p>
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2011-2018
KIA SPORTAGE
WITHOUT AMP WITHOUT NAV WITHOUT 8" SCREEN

RETAINS STEERING WHEEL CONTROLS, BACKUP CAMERA, GAUGES, AND MORE!



PRODUCTS REQUIRED

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ADDITIONAL RESOURCES

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NEED HELP?

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STEP 2

- Remove the factory radio.
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- Connect the factory radio harness to the HK1 T-harness.

STEP 3

- Plug the male BLACK 2 pin connector of your HK1 T-harness into the OBDII harness.
- Plug the OBDII connector into the OBDII of the vehicle, located under the driver side dash.

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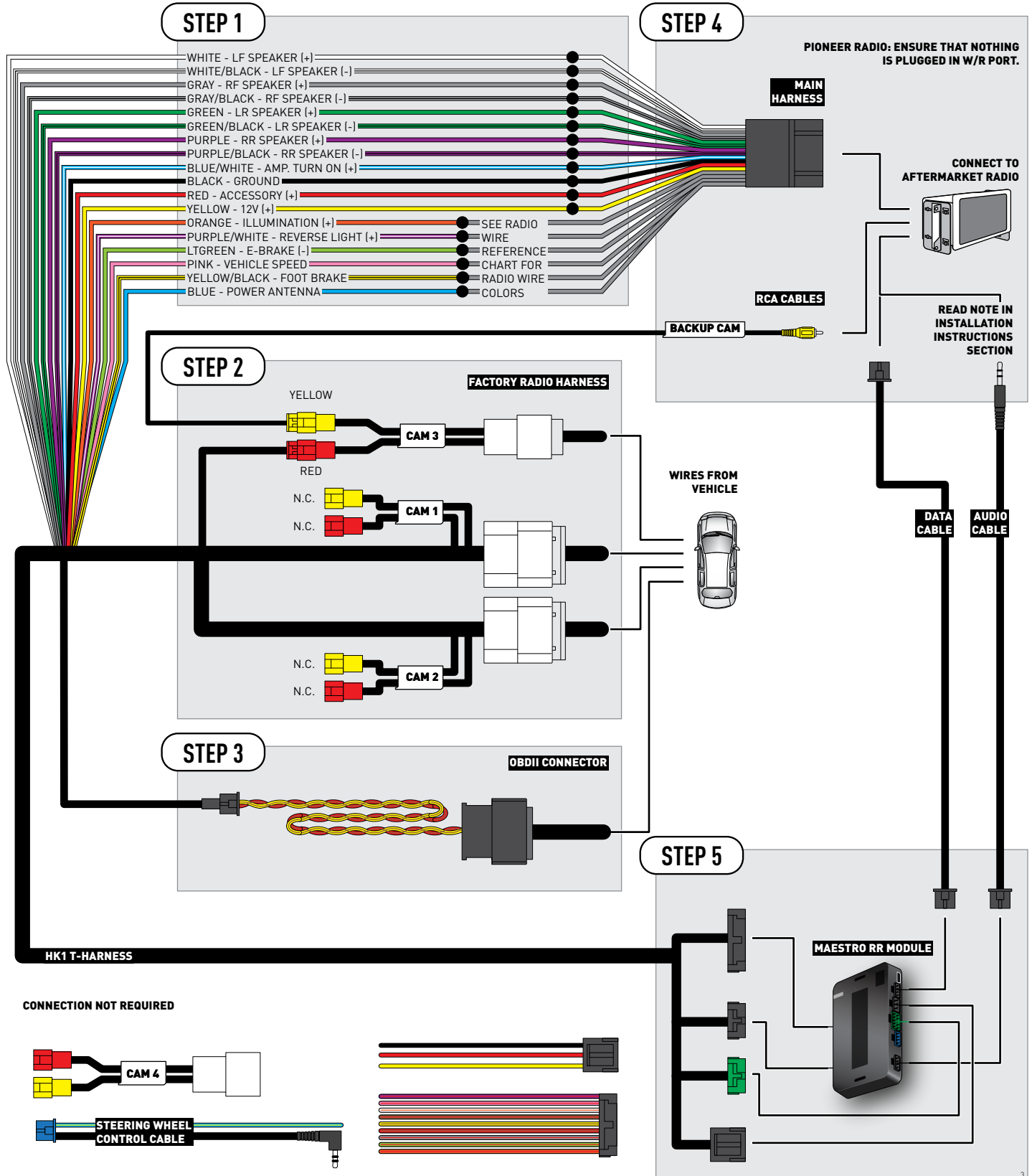
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WIRING DIAGRAM



RADIO WIRE REFERENCE CHART

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Foot Brake	(+)	Yellow/Black	Yellow/Black	N/A	Pink	N/A
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A
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PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	<p>Ensure the RED/ BROWN wire of the HK1 harness is connected to WHITE wire of the CAN gateway connector, in the radio cavity.</p> <p>Ensure the YELLOW/ BROWN wire of the HK1 harness is connected to BLACK wire of the CAN gateway connector, in the radio cavity.</p> <p>Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>Reset the RR.</p>
The light on the Maestro is blinking RED TWICE .	<p>Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty.</p> <p>Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.</p>
The light on the Maestro is flashing RED ONCE .	There is no firmware on the module; flash the RR module.

MAESTRO RR RESET PROCEDURE:

Turn the key to the OFF position, then disconnect all connectors from the module.

Press and hold the module's programming button and connect all the connectors back to the module. Wait, the module's LED will flash RED rapidly (this may take up to 10 seconds).

Release the programming button. Wait, the LED will turn solid GREEN for 2 seconds to show the reset was successful.

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

Web: maestro.idatalink.com/support add www.12voldata.com/forum/

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