idatalink™ maestro **Rr**

HOW TO USE THIS INSTALL GUIDE

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

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

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

WARNING

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

PDF Adobe

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

PRODUCTS REQUIRED

iDatalink Maestro RR2 Radio Replacement Interface
iDatalink Maestro HRN-RR-HK2 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-HK01-DS

ADDITIONAL RESOURCES

Maestro RR2 Programmable Outputs Guide

OPTIONAL ACCESSORIES

Click here for:
Radar Installation Guides

uHK1/uHK2
SAT1/SAT2
NAV1/NAV2

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

WELCOME

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

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

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

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NEED HELP?

📞 **1 866 427-2999**

✉ maestro.support@idatalink.com

💬 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 rHK2 T-harness and match the wire functions.
- Connect the rHK2 T-harness and the RCA cables to the ADS-SPDIF1.

Note: Isolate (tape) unused wires, if applicable.

STEP 2

- Remove the factory radio.
- Assemble the rHK2 T-harness as shown in wiring diagram (If there is an OEM camera, connect the backup cam rca cable to the rHK2 T-harness, as shown).
- Connect the factory radio harness to the rHK2 T-harness.

STEP 3

- Plug the male BLACK 2 pin connector of the rHK2 T-harness into the OBDII harness.
- Plug the OBDII connector into the OBDII of the vehicle, located under the driver side dash.
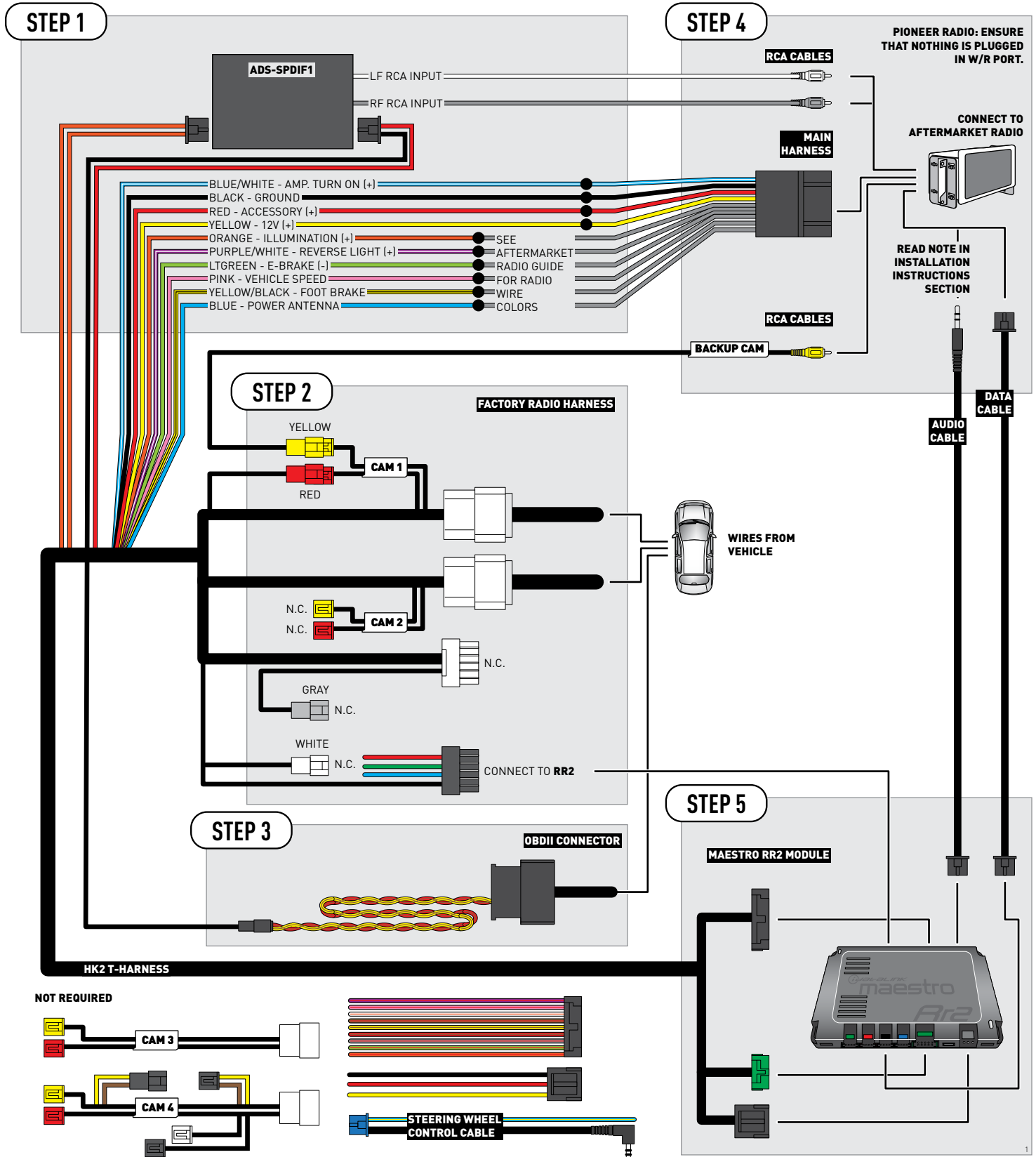
STEP 4

- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the RCA cables in the front RCA outputs of the radio.
- Plug the backup camera RCA into the aftermarket radio's backup camera input (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 RR2 module then test your installation.

WIRING DIAGRAM

STEP 1

ADS-SPDIF1

LF RCA INPUT
RF RCA INPUT

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

SEE
AFTERMARKET
RADIO GUIDE
FOR RADIO
WIRE
COLORS

STEP 4

RCA CABLES

MAIN HARNESS

BACKUP CAM

RCA CABLES

PIONEER RADIO: ENSURE THAT NOTHING IS PLUGGED IN W/R PORT.

CONNECT TO AFTERMARKET RADIO

READ NOTE IN INSTALLATION INSTRUCTIONS SECTION

DATA CABLE

AUDIO CABLE

STEP 2

FACTORY RADIO HARNESS

YELLOW

CAM 1

RED

WIRES FROM VEHICLE

N.C.
CAM 2
N.C.

N.C.

GRAY
N.C.

WHITE
N.C.

CONNECT TO **RR2**

STEP 3

OBDII CONNECTOR

STEP 5

MAESTRO RR2 MODULE

HK2 T-HARNESS

NOT REQUIRED

CAM 3

CAM 4

STEERING WHEEL CONTROL CABLE

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 OBDII connector is securely attached to the OBDII connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the **BROWN/RED** wire is on **PIN 6** and the **BROWN/YELLOW** wire is connected to **PIN 14** of the OBDII connector. 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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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.

INSTALL GUIDE

2014-2016
HYUNDAI ELANTRA
WITH NAV WITH AMP

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

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- Connect the rHK2 T-harness and the RCA cables to the ADS-SPDIF1.

Note: Isolate (tape) unused wires, if applicable.

STEP 2

- Remove the factory radio.
- Assemble the rHK2 T-harness as shown in wiring diagram (If there is an OEM camera, connect the backup cam rca cable to the rHK2 T-harness, as shown).
- Connect the factory radio harness to the rHK2 T-harness.

STEP 3

- Plug the male BLACK 2 pin connector of the rHK2 T-harness into the OBDII harness.
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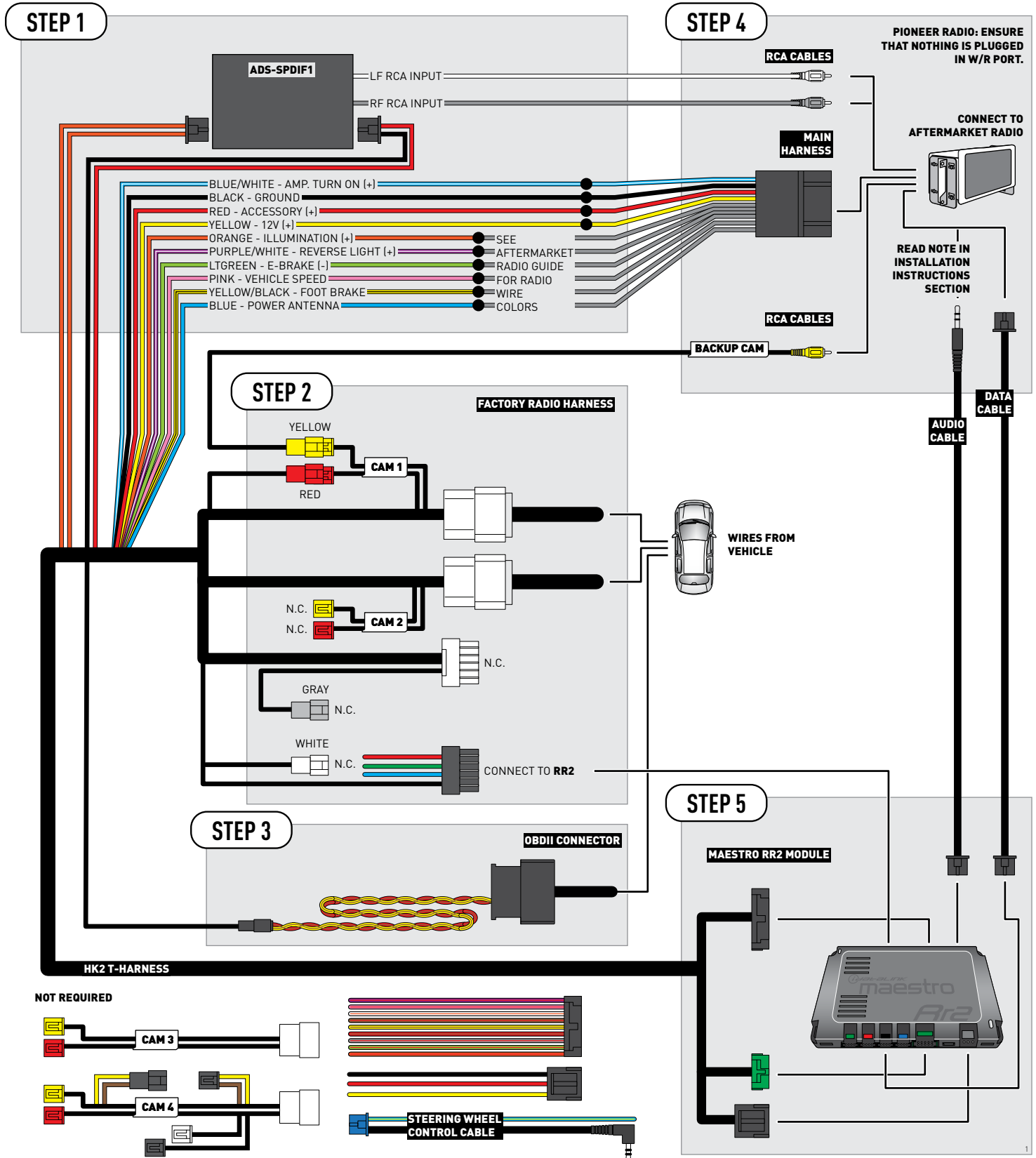
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- Plug the Data cable to the data port of the aftermarket radio.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (If there is no iDatalink audio input, connect to AUX).

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

STEP 5

- Connect all the harnesses to the Maestro RR2 module then test your installation.

WIRING DIAGRAM

STEP 1

ADS-SPDIF1

LF RCA INPUT

RF RCA INPUT

BLUE/WHITE - AMP. TURN ON (+)
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RED - ACCESSORY (+)
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PINK - VEHICLE SPEED
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STEP 4

RCA CABLES

MAIN HARNESS

PIONEER RADIO: ENSURE THAT NOTHING IS PLUGGED IN W/R PORT.

CONNECT TO AFTERMARKET RADIO

READ NOTE IN INSTALLATION INSTRUCTIONS SECTION

RCA CABLES

BACKUP CAM

AUDIO CABLE

DATA CABLE

STEP 2

FACTORY RADIO HARNESS

YELLOW
CAM 1
RED

WIRES FROM VEHICLE

N.C.
CAM 2
N.C.

N.C.

GRAY
N.C.

WHITE
N.C.

CONNECT TO RR2

STEP 3

OBDII CONNECTOR

STEP 5

MAESTRO RR2 MODULE

HK2 T-HARNESS

NOT REQUIRED

CAM 3

CAM 4

STEERING WHEEL CONTROL CABLE

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 OBDII connector is securely attached to the OBDII connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the **BROWN/RED** wire is on **PIN 6** and the **BROWN/YELLOW** wire is connected to **PIN 14** of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended. Reset the RR.
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MAESTRO RR RESET PROCEDURE:

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

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INSTALL GUIDE

2017-2018
HYUNDAI ELANTRA
WITH NAV WITH AMP

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

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ADDITIONAL RESOURCES

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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 rHK2 T-harness and match the wire functions.
- Connect the rHK2 T-harness and the RCA cables to the ADS-SPDIF1.

Note: Isolate (tape) unused wires, if applicable.

STEP 2

- Remove the factory radio.
- Assemble the rHK2 T-harness as shown in wiring diagram.

  If there is an OEM camera, connect the backup cam RCA cable to the rHK2 CAM4 harness, as shown.

  If equipped with 360 camera system: plug together the BLACK 2 pin (with brown and yellow wires) connectors (rHK2 CAM4 harness).

  If not equipped with 360 camera system: do not plug the black 2 PIN (with brown and yellow wires) connectors.

- Connect the factory radio harness to the rHK2 T-harness.
- Connect the 6 pin BLACK connector from the rHK2 T-harness to the RR2 module.

STEP 3

- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the RCA cables in the front RCA outputs of the radio.
- Plug the backup camera RCA into the aftermarket radio's backup camera input (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).
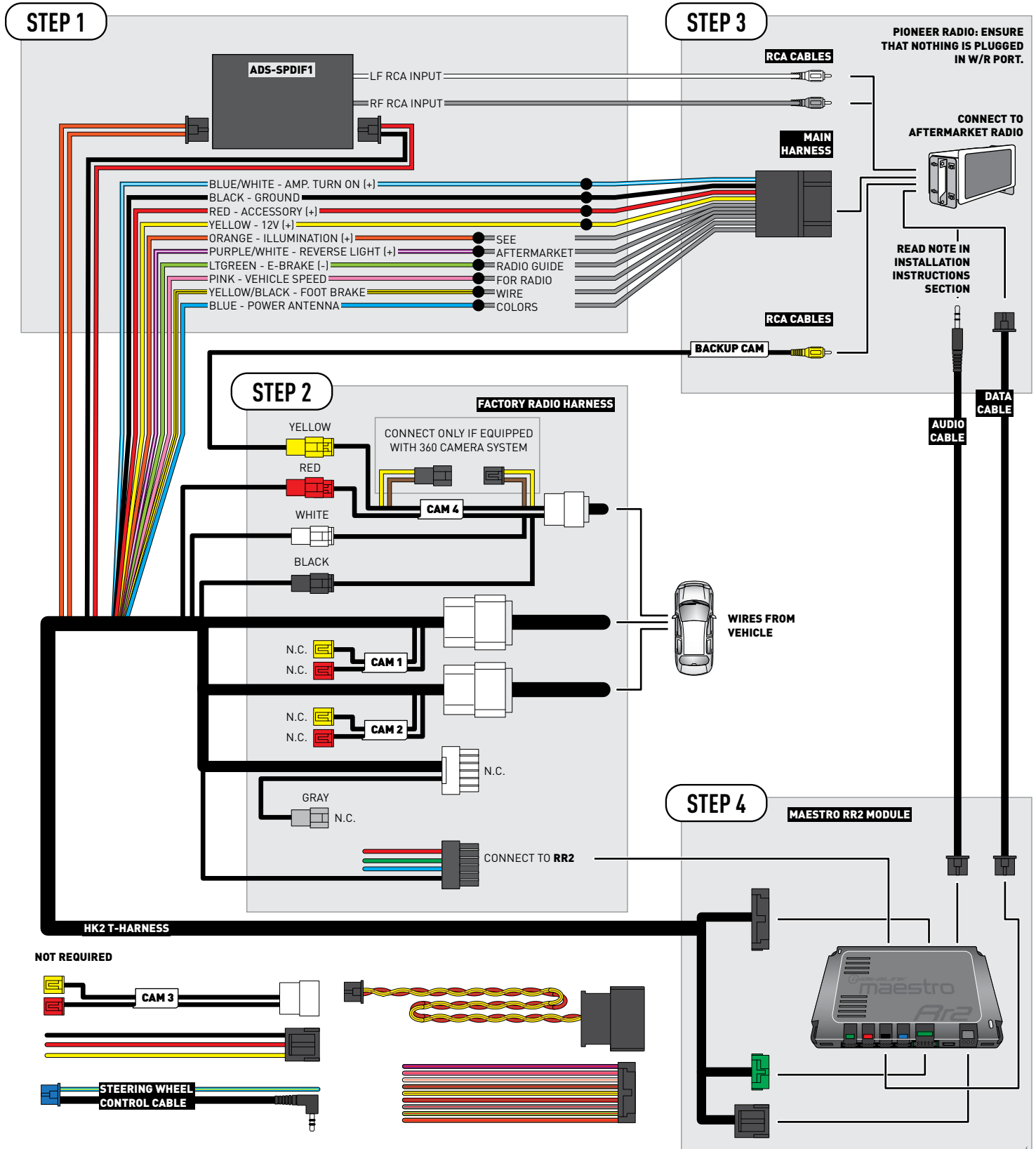
Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.

STEP 4

- Connect all the harnesses to the Maestro RR2 module then test your installation.

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WIRING DIAGRAM

STEP 1

ADS-SPDIF1

LF RCA INPUT
RF RCA INPUT

STEP 3

PIONEER RADIO: ENSURE THAT NOTHING IS PLUGGED IN W/R PORT.

RCA CABLES

MAIN HARNESS

CONNECT TO AFTERMARKET RADIO

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

SEE AFTERMARKET RADIO GUIDE FOR RADIO WIRE COLORS

READ NOTE IN INSTALLATION INSTRUCTIONS SECTION

RCA CABLES

BACKUP CAM

DATA CABLE

AUDIO CABLE

STEP 2

FACTORY RADIO HARNESS

YELLOW

CONNECT ONLY IF EQUIPPED WITH 360 CAMERA SYSTEM

RED

WHITE

CAM 4

BLACK

WIRES FROM VEHICLE

N.C.
N.C. CAM 1

N.C.
N.C. CAM 2

N.C.

GRAY
N.C.

STEP 4

MAESTRO RR2 MODULE

CONNECT TO **RR2**

HK2 T-HARNESS

NOT REQUIRED

CAM 3

STEERING WHEEL CONTROL CABLE

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.	Ensure CAM4 connector is plugged into the vehicle. Ensure the Black 2 pin connector with the **BROWN/RED** and **BROWN/YELLOW** wires is plugged into the Black 2 pin connector from the rHK2 harness with the **BROWN/RED** and **BROWN/YELLOW** wires. 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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maestro **Rr**

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STEP 2

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STEP 3

- Plug the male BLACK 2 pin connector of the rHK2 T-harness into the OBDII harness.
- Plug the OBDII connector into the OBDII of the vehicle, located under the driver side dash.
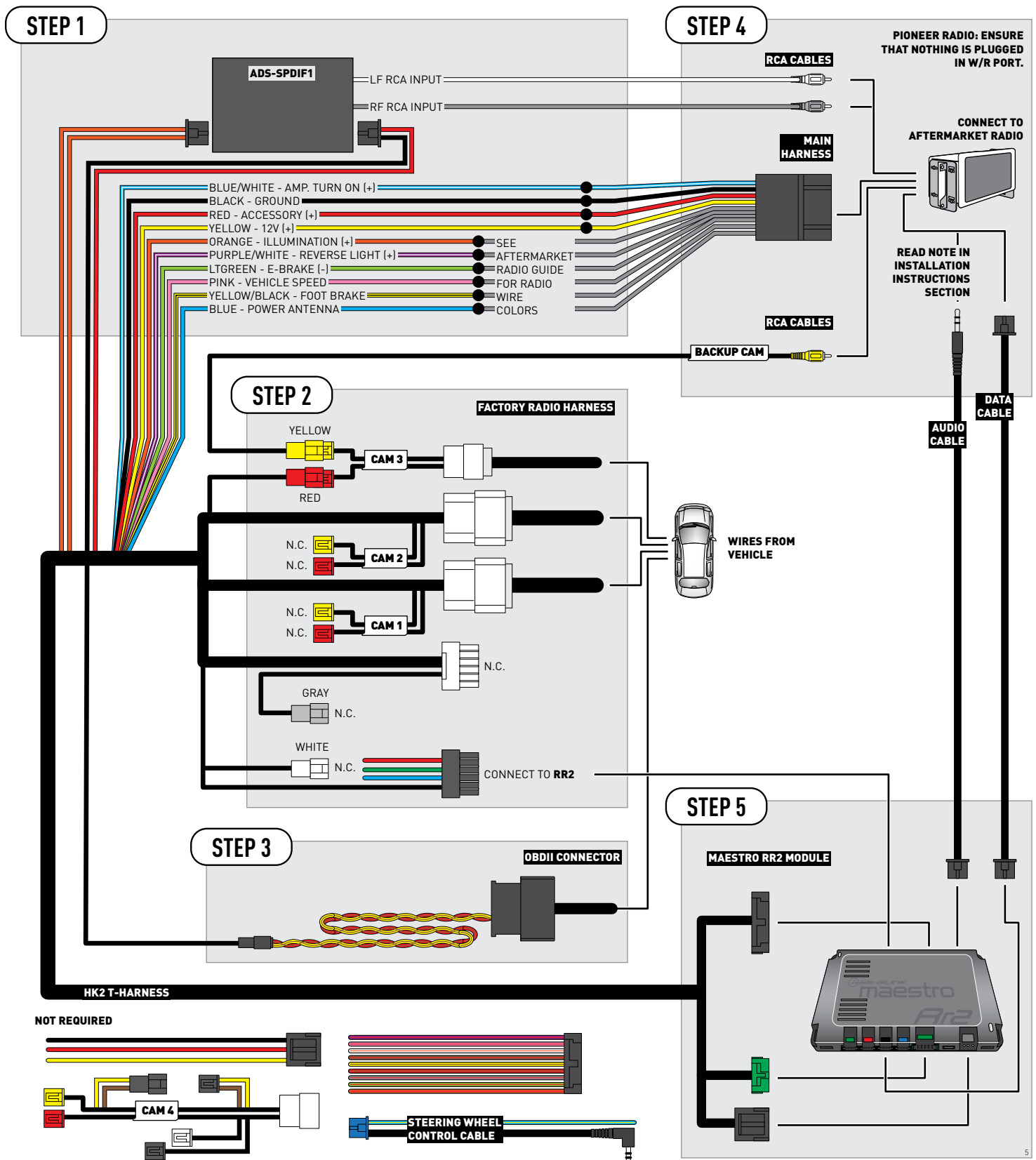
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- Plug the aftermarket radio harnesses into the aftermarket radio.
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Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.

STEP 5

- Connect all the harnesses to the Maestro RR2 module then test your installation.

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iDatalink maestro Rr

WIRING DIAGRAM

STEP 1

ADS-SPDIF1

LF RCA INPUT

RF RCA INPUT

BLUE/WHITE - AMP. TURN ON (+)
BLACK - GROUND
RED - ACCESSORY (+)
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STEP 4

RCA CABLES

MAIN HARNESS

PIONEER RADIO: ENSURE THAT NOTHING IS PLUGGED IN W/R PORT.

CONNECT TO AFTERMARKET RADIO

READ NOTE IN INSTALLATION INSTRUCTIONS SECTION

RCA CABLES

BACKUP CAM

DATA CABLE

AUDIO CABLE

STEP 2

FACTORY RADIO HARNESS

YELLOW

CAM 3

RED

N.C.
CAM 2
N.C.

WIRES FROM VEHICLE

N.C.
CAM 1
N.C.

N.C.

GRAY

N.C.

WHITE

N.C.

CONNECT TO **RR2**

STEP 5

STEP 3

OBDII CONNECTOR

MAESTRO RR2 MODULE

HK2 T-HARNESS

NOT REQUIRED

CAM 4

STEERING WHEEL CONTROL CABLE

5

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

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Gauges do not work, radio shows OBD2 Error 1 or Error 2.	Ensure OBDII connector is securely attached to the OBDII connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the **BROWN/RED** wire is on **PIN 6** and the **BROWN/YELLOW** wire is connected to **PIN 14** of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended. Reset the RR.
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RETAINS STEERING WHEEL CONTROLS, BACKUP CAMERA, GAUGES, AND MORE!

PRODUCTS REQUIRED

iDatalink Maestro RR2 Radio Replacement Interface
iDatalink Maestro HRN-RR-HK2 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-HK01-DS

ADDITIONAL RESOURCES

Maestro RR2 Programmable Outputs Guide

OPTIONAL ACCESSORIES

K40 ELECTRONICS

ESCORT®

uHK1/uHK2
SAT1/SAT2
NAV1/NAV2

Click here for:
Radar Installation Guides

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

WELCOME

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

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

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

TABLE OF CONTENTS

NEED HELP?

📞 **1 866 427-2999**

✉ maestro.support@idatalink.com

💬 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 rHK2 T-harness and match the wire functions.
- Connect the rHK2 T-harness and the RCA cables to the ADS-SPDIF1.

Note: Isolate (tape) unused wires, if applicable.

STEP 2

- Remove the factory radio.
- Assemble the rHK2 T-harness as shown in wiring diagram.
- Connect the factory radio harness to the rHK2 T-harness.

STEP 3

- Plug the male BLACK 2 pin connector of the rHK2 T-harness into the OBDII harness.
- Plug the OBDII connector into the OBDII of the vehicle, located under the driver side dash.
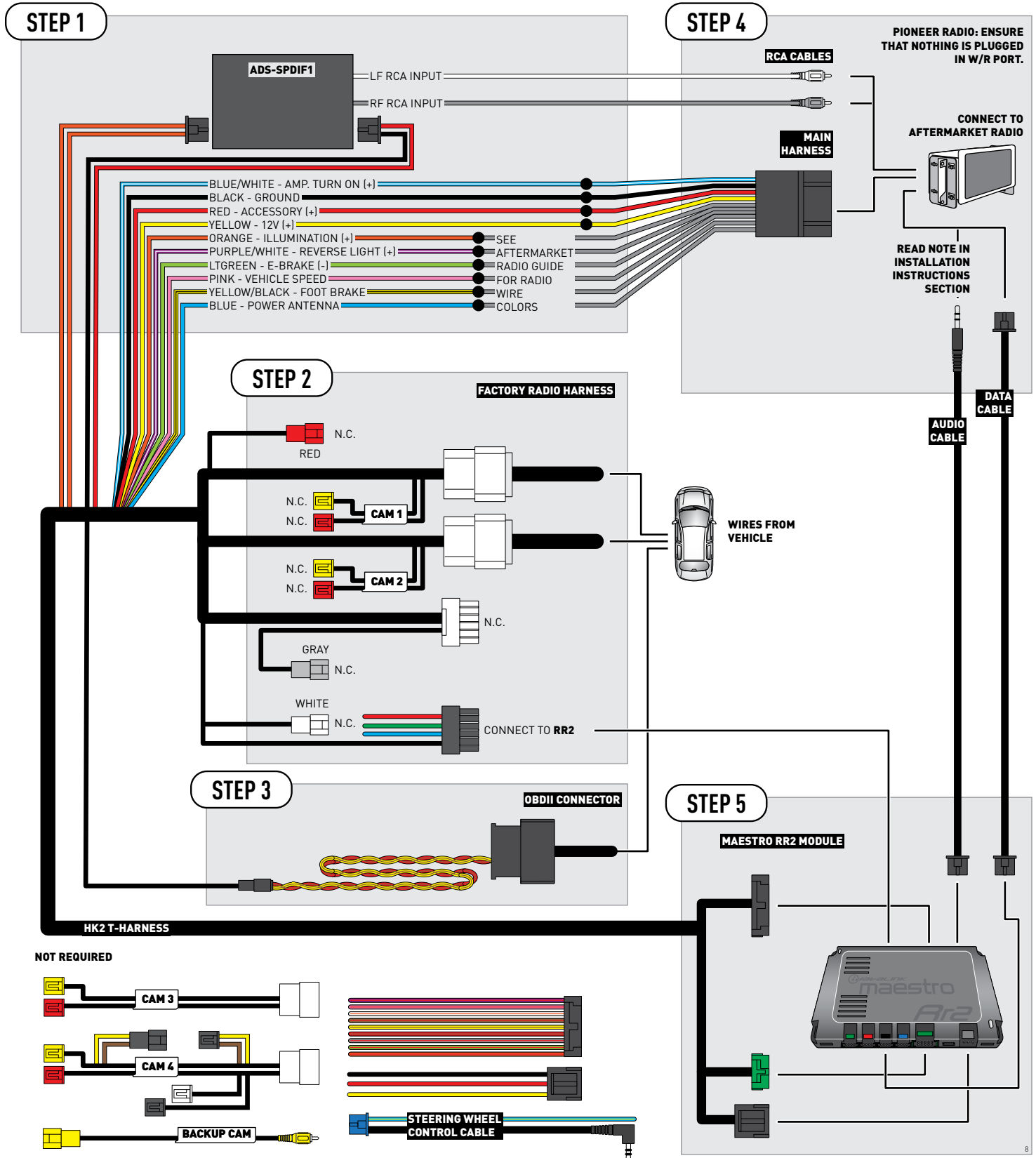
STEP 4

- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the RCA cables in the front RCA outputs of the 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 RR2 module then test your installation.

WIRING DIAGRAM

STEP 1

ADS-SPDIF1

LF RCA INPUT

RF RCA INPUT

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

SEE
AFTERMARKET
RADIO GUIDE
FOR RADIO
WIRE
COLORS

STEP 4

RCA CABLES

MAIN HARNESS

PIONEER RADIO: ENSURE THAT NOTHING IS PLUGGED IN W/R PORT.

CONNECT TO AFTERMARKET RADIO

READ NOTE IN INSTALLATION INSTRUCTIONS SECTION

DATA CABLE

AUDIO CABLE

STEP 2

FACTORY RADIO HARNESS

N.C.
RED

N.C.
N.C. **CAM 1**

N.C.
N.C. **CAM 2**

N.C.

GRAY
N.C.

WHITE
N.C.

CONNECT TO **RR2**

WIRES FROM VEHICLE

STEP 3

OBDII CONNECTOR

STEP 5

MAESTRO RR2 MODULE

HK2 T-HARNESS

NOT REQUIRED

CAM 3

CAM 4

BACKUP CAM

STEERING WHEEL CONTROL CABLE

8

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 OBDII connector is securely attached to the OBDII connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the **BROWN/RED** wire is on **PIN 6** and the **BROWN/YELLOW** wire is connected to **PIN 14** of the OBDII connector. 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.
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.

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

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- Connect the rHK2 T-harness and the RCA cables to the ADS-SPDIF1.

Note: Isolate (tape) unused wires, if applicable.

STEP 2

- Remove the factory radio.
- Assemble the rHK2 T-harness as shown in wiring diagram (If there is an OEM camera, connect the backup cam rca cable to the rHK2 T-harness, as shown).
- Connect the factory radio harness to the rHK2 T-harness.

STEP 3

- Plug the male BLACK 2 pin connector of the rHK2 T-harness into the OBDII harness.
- Plug the OBDII connector into the OBDII of the vehicle, located under the driver side dash.
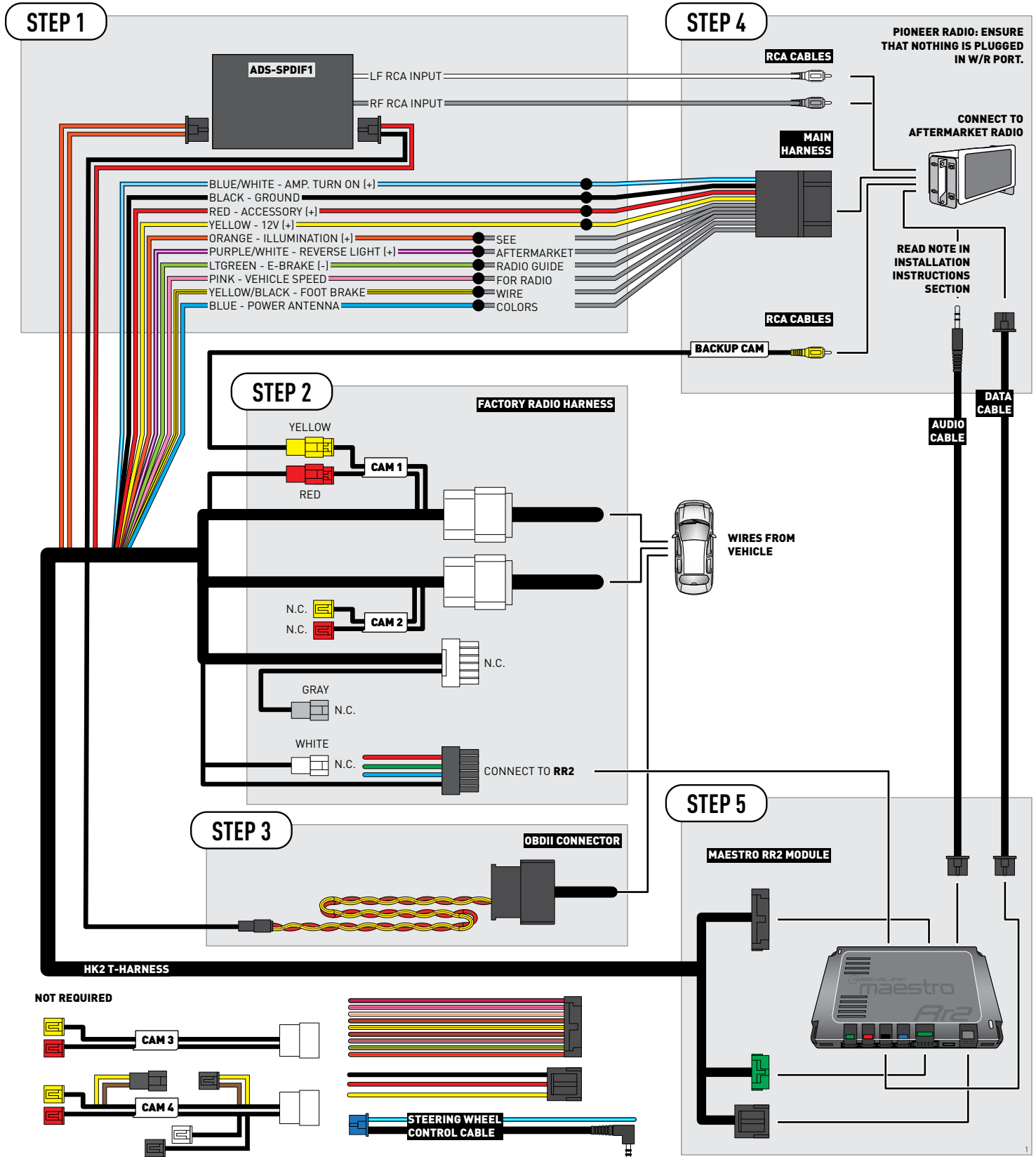
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- Plug the backup camera RCA into the aftermarket radio's backup camera input (if applicable).
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (If 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 RR2 module then test your installation.

![maestro Rr logo]

WIRING DIAGRAM

STEP 1

ADS-SPDIF1

LF RCA INPUT
RF RCA INPUT

STEP 4

RCA CABLES

PIONEER RADIO: ENSURE THAT NOTHING IS PLUGGED IN W/R PORT.

MAIN HARNESS

CONNECT TO AFTERMARKET RADIO

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

SEE AFTERMARKET RADIO GUIDE FOR RADIO WIRE COLORS

READ NOTE IN INSTALLATION INSTRUCTIONS SECTION

RCA CABLES

BACKUP CAM

STEP 2

FACTORY RADIO HARNESS

YELLOW

CAM 1

RED

WIRES FROM VEHICLE

N.C.
CAM 2
N.C.

N.C.

GRAY
N.C.

WHITE
N.C.

CONNECT TO **RR2**

AUDIO CABLE

DATA CABLE

STEP 5

MAESTRO RR2 MODULE

STEP 3

OBDII CONNECTOR

HK2 T-HARNESS

NOT REQUIRED

CAM 3

CAM 4

STEERING WHEEL CONTROL CABLE

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 OBDII connector is securely attached to the OBDII connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the **BROWN/RED** wire is on **PIN 6** and the **BROWN/YELLOW** wire is connected to **PIN 14** of the OBDII connector. 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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Release the programming button. Wait, the LED will turn solid GREEN for 2 seconds to show the reset was successful.

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INSTALL GUIDE

2016-2018
HYUNDAI SANTA FE
WITH NAV WITH AMP

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

PRODUCTS REQUIRED

iDatalink Maestro RR2 Radio Replacement Interface
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- Connect the wires shown on the next page from aftermarket radio main harness to the rHK2 T-harness and match the wire functions.
- Connect the rHK2 T-harness and the RCA cables to the ADS-SPDIF1.

Note: Isolate (tape) unused wires, if applicable.

STEP 2

- Remove the factory radio.
- Assemble the rHK2 T-harness as shown in wiring diagram.

  If there is an OEM camera, connect the backup cam RCA cable to the rHK2 CAM4 harness, as shown.

  If equipped with 360 camera system: plug together the BLACK 2 pin (with brown and yellow wires) connectors (rHK2 CAM4 harness).

  If not equipped with 360 camera system: do not plug the black 2 PIN (with brown and yellow wires) connectors.

- Connect the factory radio harness to the rHK2 T-harness.
- Connect the 6 pin BLACK connector from the rHK2 T-harness to the RR2 module.

STEP 3

- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the RCA cables in the front RCA outputs of the radio.
- Plug the backup camera RCA into the aftermarket radio's backup camera input (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).
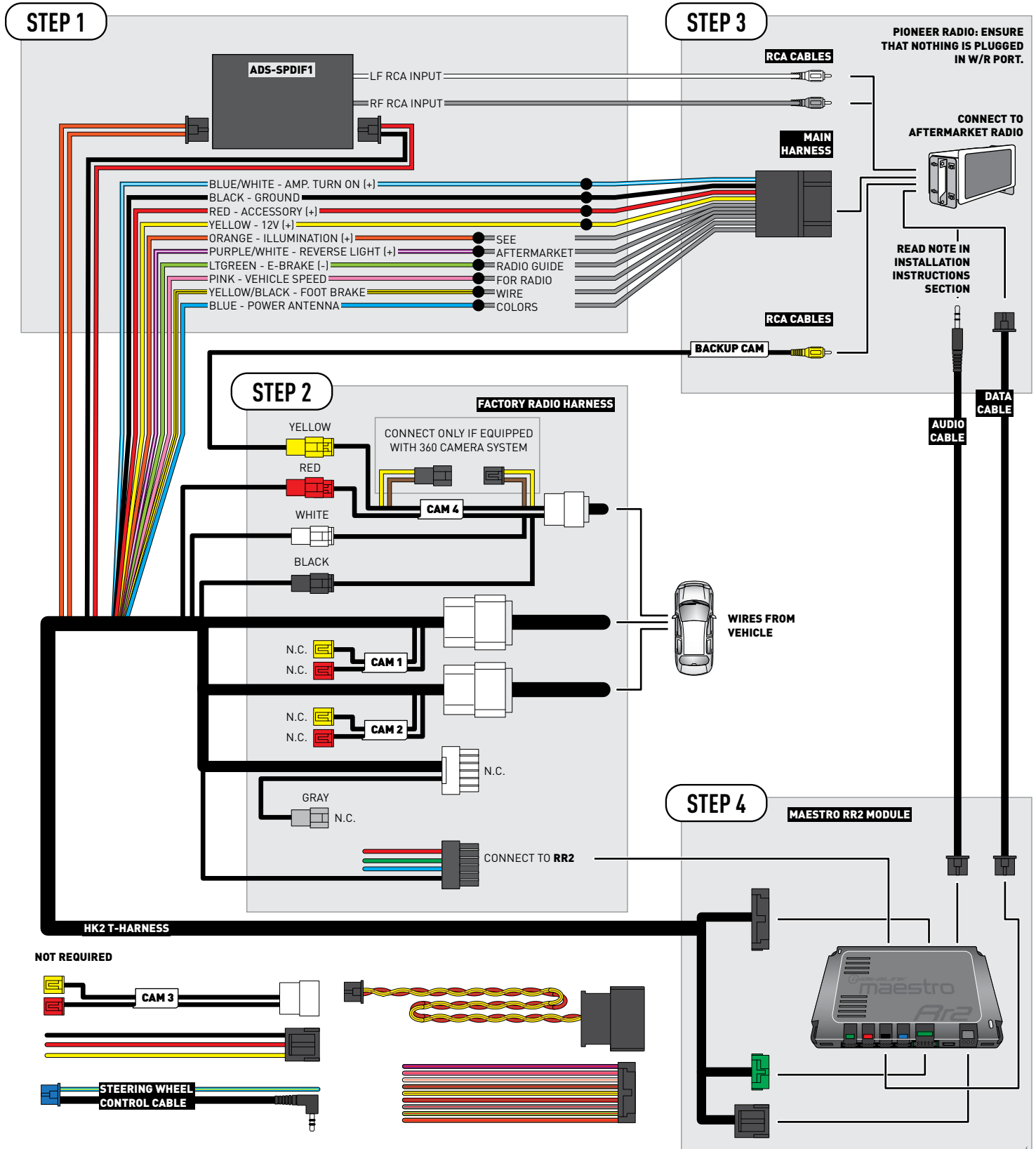
Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.

STEP 4

- Connect all the harnesses to the Maestro RR2 module then test your installation.

6

WIRING DIAGRAM

STEP 1

ADS-SPDIF1

LF RCA INPUT
RF RCA INPUT

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

SEE
AFTERMARKET
RADIO GUIDE
FOR RADIO
WIRE
COLORS

STEP 3

PIONEER RADIO: ENSURE THAT NOTHING IS PLUGGED IN W/R PORT.

RCA CABLES

MAIN HARNESS

CONNECT TO AFTERMARKET RADIO

READ NOTE IN INSTALLATION INSTRUCTIONS SECTION

RCA CABLES

BACKUP CAM

DATA CABLE

AUDIO CABLE

STEP 2

FACTORY RADIO HARNESS

YELLOW

CONNECT ONLY IF EQUIPPED WITH 360 CAMERA SYSTEM

RED

CAM 4

WHITE

BLACK

WIRES FROM VEHICLE

N.C. — CAM 1
N.C.

N.C. — CAM 2
N.C.

N.C.

GRAY
N.C.

CONNECT TO **RR2**

STEP 4

MAESTRO RR2 MODULE

HK2 T-HARNESS

NOT REQUIRED

CAM 3

STEERING WHEEL CONTROL CABLE

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.	Ensure CAM4 connector is plugged into the vehicle. Ensure the Black 2 pin connector with the **BROWN/RED** and **BROWN/YELLOW** wires is plugged into the Black 2 pin connector from the rHK2 harness with the **BROWN/RED** and **BROWN/YELLOW** wires. 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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maestro *Rr*

iDATALINK

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

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Note: Isolate (tape) unused wires, if applicable.

STEP 2

- Remove the factory radio.
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- Plug the male BLACK 2 pin connector of the rHK2 T-harness into the OBDII harness.
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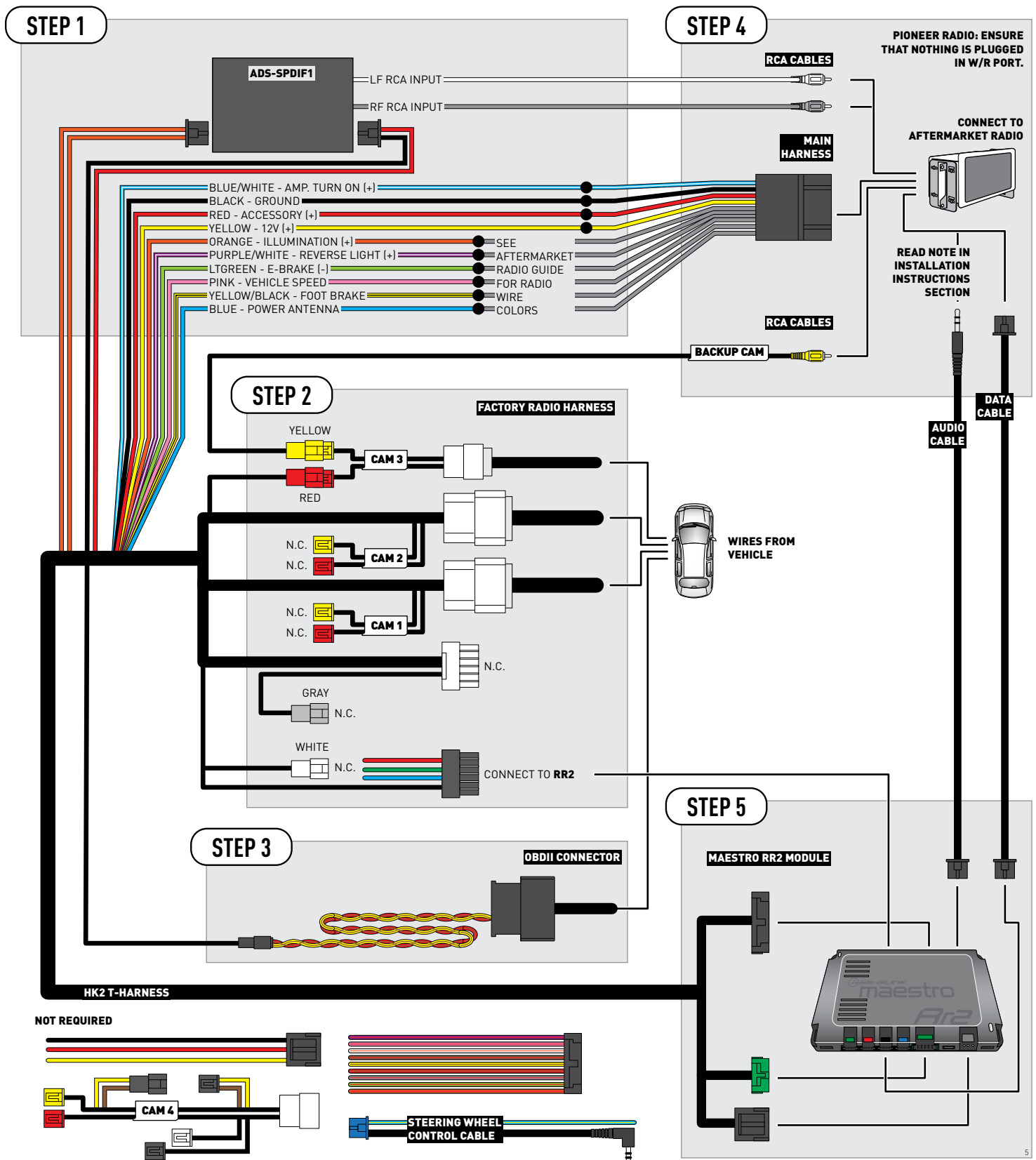
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Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.

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- Connect all the harnesses to the Maestro RR2 module then test your installation.

WIRING DIAGRAM

STEP 1

ADS-SPDIF1

LF RCA INPUT
RF RCA INPUT

BLUE/WHITE - AMP. TURN ON (+)
BLACK - GROUND
RED - ACCESSORY (+)
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WIRE
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STEP 4

RCA CABLES

PIONEER RADIO: ENSURE THAT NOTHING IS PLUGGED IN W/R PORT.

MAIN HARNESS

CONNECT TO AFTERMARKET RADIO

READ NOTE IN INSTALLATION INSTRUCTIONS SECTION

RCA CABLES

BACKUP CAM

STEP 2

FACTORY RADIO HARNESS

YELLOW
CAM 3
RED

N.C.
CAM 2
N.C.

WIRES FROM VEHICLE

N.C.
CAM 1
N.C.

N.C.

GRAY
N.C.

WHITE
N.C.
CONNECT TO **RR2**

DATA CABLE

AUDIO CABLE

STEP 5

STEP 3

OBDII CONNECTOR

MAESTRO RR2 MODULE

HK2 T-HARNESS

NOT REQUIRED

CAM 4

STEERING WHEEL CONTROL CABLE

5

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

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PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	Ensure OBDII connector is securely attached to the OBDII connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the **BROWN/RED** wire is on **PIN 6** and the **BROWN/YELLOW** wire is connected to **PIN 14** of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended. Reset the RR.
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INSTALL GUIDE

2011-2013
HYUNDAI SONATA
ALL WITH AMP

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

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Radar Installation Guides

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

WELCOME

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

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

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

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NEED HELP?

📞 **1 866 427-2999**

✉ **maestro.support@idatalink.com**

💬 **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 rHK2 T-harness and match the wire functions.
- Connect the rHK2 T-harness and the RCA cables to the ADS-SPDIF1.

Note: Isolate (tape) unused wires, if applicable.

STEP 2

- Remove the factory radio.
- Assemble the rHK2 T-harness as shown in wiring diagram (If there is an OEM camera, connect the backup cam rca cable to the rHK2 T-harness, as shown).
- Connect the factory radio harness to the rHK2 T-harness.

STEP 3

- Plug the male BLACK 2 pin connector of the rHK2 T-harness into the OBDII harness.
- Plug the OBDII connector into the OBDII of the vehicle, located under the driver side dash.
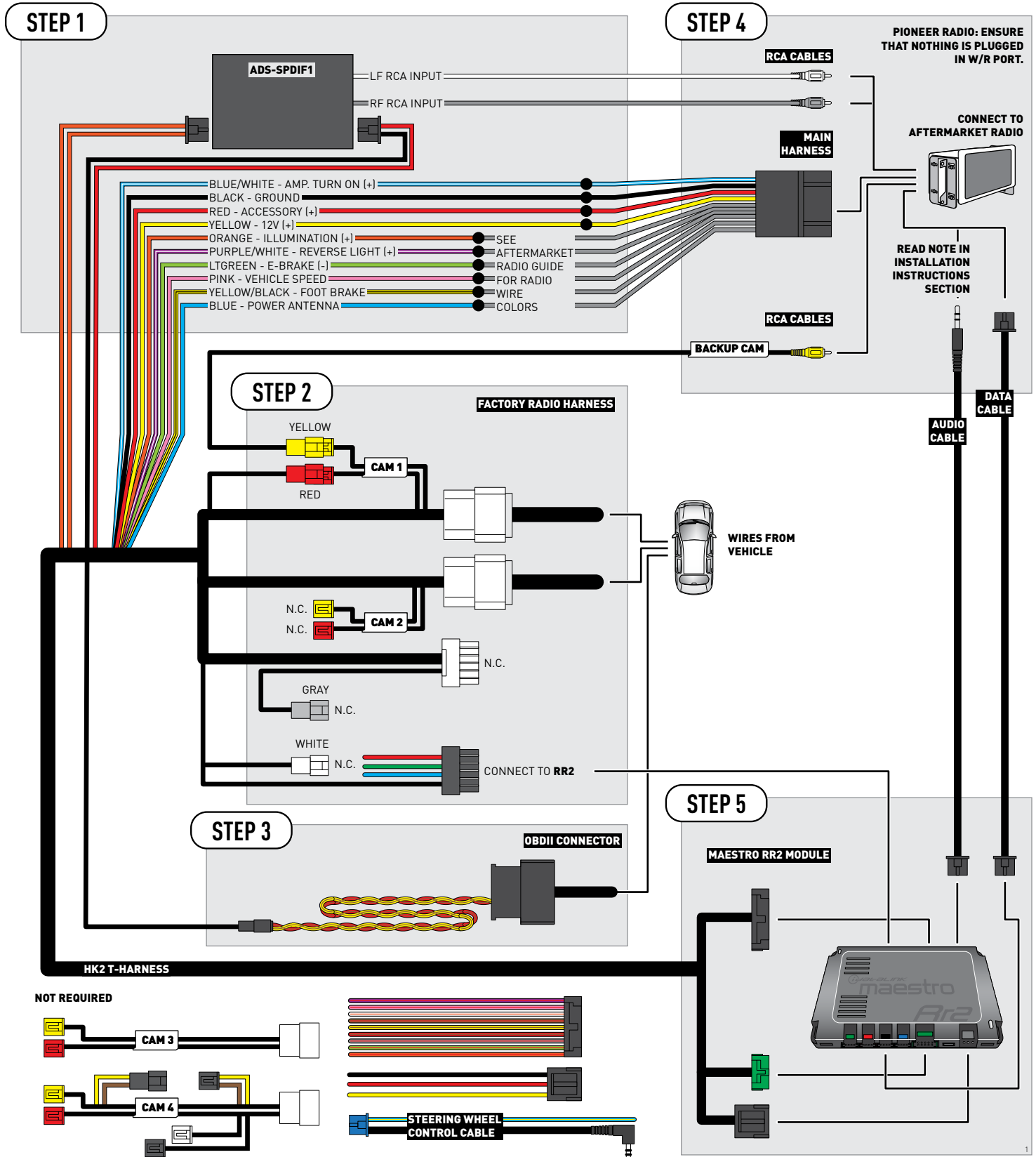
STEP 4

- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the RCA cables in the front RCA outputs of the radio.
- Plug the backup camera RCA into the aftermarket radio's backup camera input (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 RR2 module then test your installation.

WIRING DIAGRAM

STEP 1

ADS-SPDIF1

LF RCA INPUT
RF RCA INPUT

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

SEE
AFTERMARKET
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COLORS

STEP 4

RCA CABLES

MAIN HARNESS

BACKUP CAM

RCA CABLES

PIONEER RADIO: ENSURE THAT NOTHING IS PLUGGED IN W/R PORT.

CONNECT TO AFTERMARKET RADIO

READ NOTE IN INSTALLATION INSTRUCTIONS SECTION

DATA CABLE

AUDIO CABLE

STEP 2

FACTORY RADIO HARNESS

YELLOW

CAM 1

RED

WIRES FROM VEHICLE

N.C.
CAM 2
N.C.

N.C.

GRAY
N.C.

WHITE
N.C.

CONNECT TO **RR2**

STEP 5

MAESTRO RR2 MODULE

STEP 3

OBDII CONNECTOR

HK2 T-HARNESS

NOT REQUIRED

CAM 3

CAM 4

STEERING WHEEL CONTROL CABLE

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 OBDII connector is securely attached to the OBDII connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the **BROWN/RED** wire is on **PIN 6** and the **BROWN/YELLOW** wire is connected to **PIN 14** of the OBDII connector. 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.
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.

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

PRODUCTS REQUIRED

iDatalink Maestro RR2 Radio Replacement Interface
iDatalink Maestro HRN-RR-HK2 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-HK01-DS

ADDITIONAL RESOURCES

Maestro RR2 Programmable Outputs Guide

OPTIONAL ACCESSORIES

K40 ELECTRONICS

ESCORT®

uHK1/uHK2
SAT1/SAT2
NAV1/NAV2

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INSTALLATION INSTRUCTIONS

BEFORE INSTALLING

uHK1/uHK2 is REQUIRED to retain illumination on the buttons on the audio/climate control panel.

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 rHK2 T-harness and match the wire functions.
- Connect the rHK2 T-harness and the RCA cables to the ADS-SPDIF1.

Note: Isolate (tape) unused wires, if applicable.

STEP 2

- Remove the factory radio.
- Assemble the rHK2 T-harness as shown in wiring diagram (If there is an OEM camera, connect the backup cam rca cable to the rHK2 T-harness, as shown).
- Connect the factory radio harness to the rHK2 T-harness.
- Connect the Audio/Climate Control plug (rHK2 harness) to the OEM Audio/Climate Control dash panel (that was unplugged when removing OEM radio).
- Connect the GRAY 2 pin connector of the Audio/Climate Control plug (rHK2 harness) to the Gray 2 pin connector of the uHK1/uHK2 USB adapter.

STEP 3

- Plug the male BLACK 2 pin connector of the rHK2 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.
- Connect the RCA cables in the front RCA outputs of the radio.
- Plug the backup camera RCA into the aftermarket radio's backup camera input (if applicable).
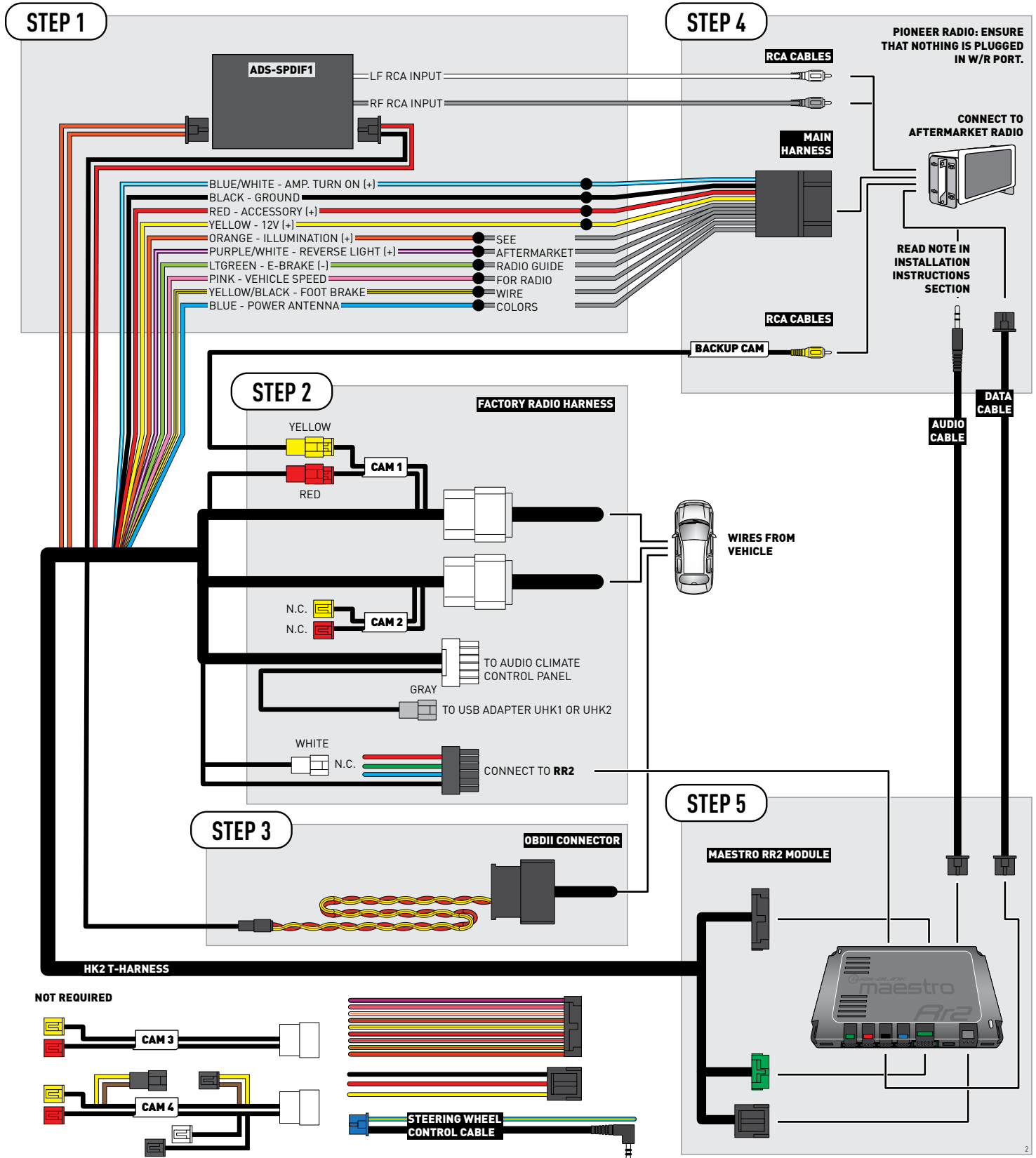- Plug the Data cable to the data port of the aftermarket radio.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (If there is no iDatalink audio input, connect to AUX).

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

STEP 5

- Connect all the harnesses to the Maestro RR2 module then test your installation.

WIRING DIAGRAM

STEP 1

ADS-SPDIF1

LF RCA INPUT
RF RCA INPUT

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

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STEP 4

RCA CABLES

MAIN HARNESS

PIONEER RADIO: ENSURE THAT NOTHING IS PLUGGED IN W/R PORT.

CONNECT TO AFTERMARKET RADIO

READ NOTE IN INSTALLATION INSTRUCTIONS SECTION

RCA CABLES

BACKUP CAM

DATA CABLE

AUDIO CABLE

STEP 2

FACTORY RADIO HARNESS

YELLOW
CAM 1
RED

WIRES FROM VEHICLE

N.C.
CAM 2
N.C.

TO AUDIO CLIMATE CONTROL PANEL

GRAY
TO USB ADAPTER UHK1 OR UHK2

WHITE
N.C.

CONNECT TO **RR2**

STEP 5

MAESTRO RR2 MODULE

STEP 3

OBDII CONNECTOR

HK2 T-HARNESS

NOT REQUIRED

CAM 3

CAM 4

STEERING WHEEL CONTROL CABLE

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 OBDII connector is securely attached to the OBDII connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the **BROWN/RED** wire is on **PIN 6** and the **BROWN/YELLOW** wire is connected to **PIN 14** of the OBDII connector. 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.
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.

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iDatalink Maestro HRN-RR-HK2 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-HK01-DS

ADDITIONAL RESOURCES

Maestro RR2 Programmable Outputs Guide

OPTIONAL ACCESSORIES

![K40 ELECTRONICS]
![ESCORT]

uHK1/uHK2
SAT1/SAT2
NAV1/NAV2

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STEP 1

- Unbox the aftermarket radio and locate its main harness.
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- Connect the rHK2 T-harness and the RCA cables to the ADS-SPDIF1.

Note: Isolate (tape) unused wires, if applicable.

STEP 2

- Remove the factory radio.
- Assemble the rHK2 T-harness as shown in wiring diagram (If there is an OEM camera, connect the backup cam rca cable to the rHK2 T-harness, as shown).
- Connect the factory radio harness to the rHK2 T-harness.

STEP 3

- Plug the male BLACK 2 pin connector of the rHK2 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.
- Connect the RCA cables in the front RCA outputs of the radio.
- Plug the backup camera RCA into the aftermarket radio's backup camera input (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).
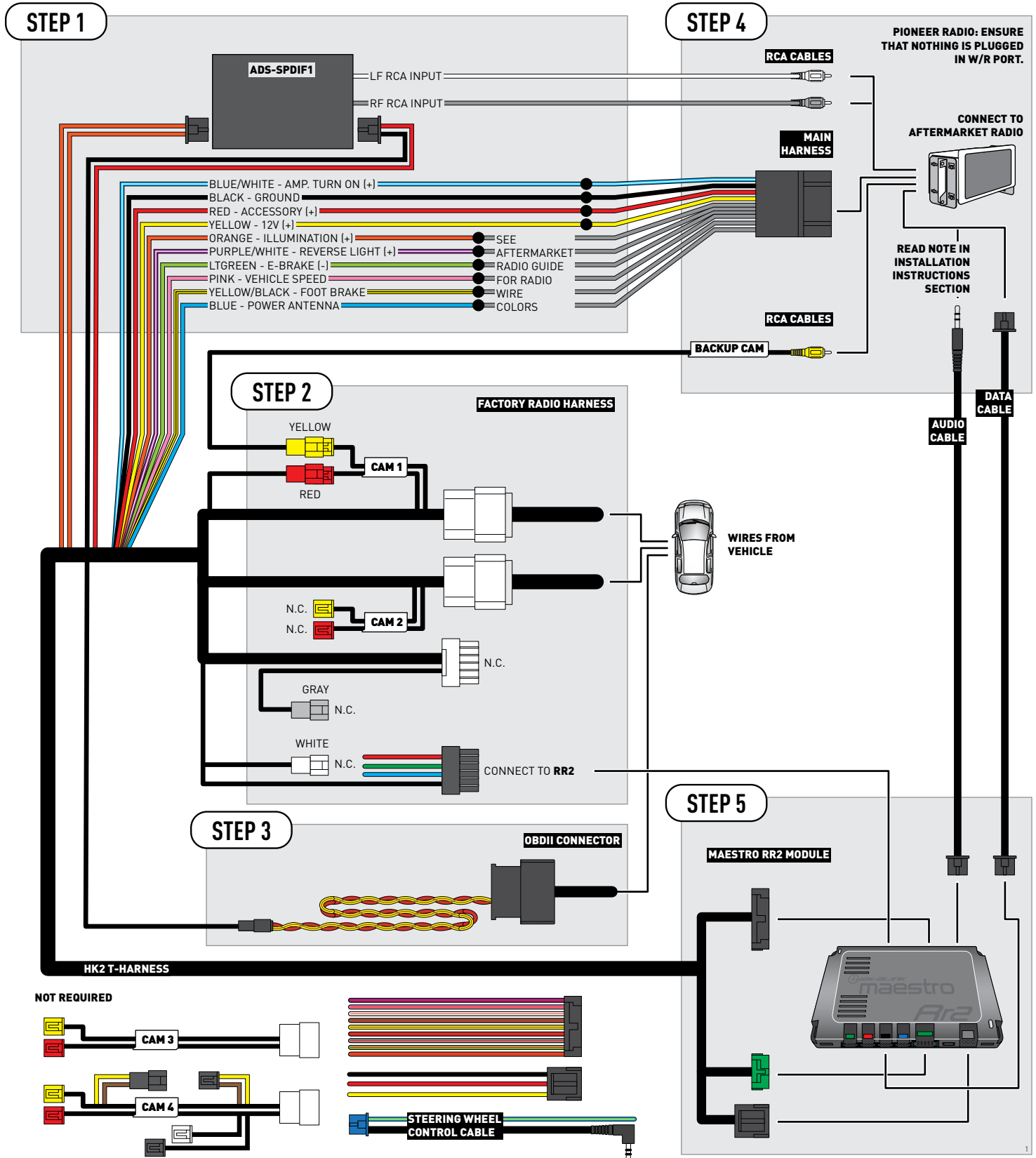
Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.

STEP 5

- Connect all the harnesses to the Maestro RR2 module then test your installation.

WIRING DIAGRAM

STEP 1

ADS-SPDIF1

LF RCA INPUT
RF RCA INPUT

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

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STEP 4

RCA CABLES

MAIN HARNESS

PIONEER RADIO: ENSURE THAT NOTHING IS PLUGGED IN W/R PORT.

CONNECT TO AFTERMARKET RADIO

READ NOTE IN INSTALLATION INSTRUCTIONS SECTION

RCA CABLES

BACKUP CAM

STEP 2

FACTORY RADIO HARNESS

YELLOW
RED
CAM 1

N.C.
N.C.
CAM 2

WIRES FROM VEHICLE

N.C.

GRAY N.C.

WHITE N.C.

CONNECT TO **RR2**

AUDIO CABLE

DATA CABLE

STEP 3

OBDII CONNECTOR

STEP 5

MAESTRO RR2 MODULE

HK2 T-HARNESS

NOT REQUIRED

CAM 3

CAM 4

STEERING WHEEL CONTROL CABLE

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 OBDII connector is securely attached to the OBDII connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the **BROWN/RED** wire is on **PIN 6** and the **BROWN/YELLOW** wire is connected to **PIN 14** of the OBDII connector. 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.
The light on the Maestro is flashing **RED ONCE**.	There is no firmware on the module; flash the RR module.

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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).
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INSTALL GUIDE

2015-2017
HYUNDAI SONATA
WITH NAV WITH AMP

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

PRODUCTS REQUIRED

iDatalink Maestro RR2 Radio Replacement Interface
iDatalink Maestro HRN-RR-HK2 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-HK01-DS

ADDITIONAL RESOURCES

Maestro RR2 Programmable Outputs Guide

OPTIONAL ACCESSORIES

uHK1/uHK2
SAT1/SAT2
NAV1/NAV2

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INSTALLATION INSTRUCTIONS

BEFORE INSTALLING

uHK1/uHK2 is REQUIRED to retain illumination on the buttons on the audio/climate control panel.

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 rHK2 T-harness and match the wire functions.
- Connect the rHK2 T-harness and the RCA cables to the ADS-SPDIF1.

Note: Isolate (tape) unused wires, if applicable.

STEP 2

- Remove the factory radio.
- Assemble the rHK2 T-harness as shown in wiring diagram.

  If there is an OEM camera, connect the backup cam RCA cable to the rHK2 CAM4 harness, as shown.

  If equipped with 360 camera system: plug together the BLACK 2 pin (with brown and yellow wires) connectors (rHK2 CAM4 harness).

  If not equipped with 360 camera system: do not plug the black 2 PIN (with brown and yellow wires) connectors.
- Connect the factory radio harness to the rHK2 T-harness.
- Connect the Audio/Climate Control plug (rHK2 harness) to the OEM Audio/Climate Control dash panel that was (unplugged when removing OEM radio).
- Connect the GRAY 2 pin connector of the Audio/Climate Control plug (rHK2 harness) to the Gray 2 pin connector of the uHK1/uHK2 USB adapter.
- Connect the 6 pin BLACK connector from the rHK2 T-harness to the RR2 module.

STEP 3

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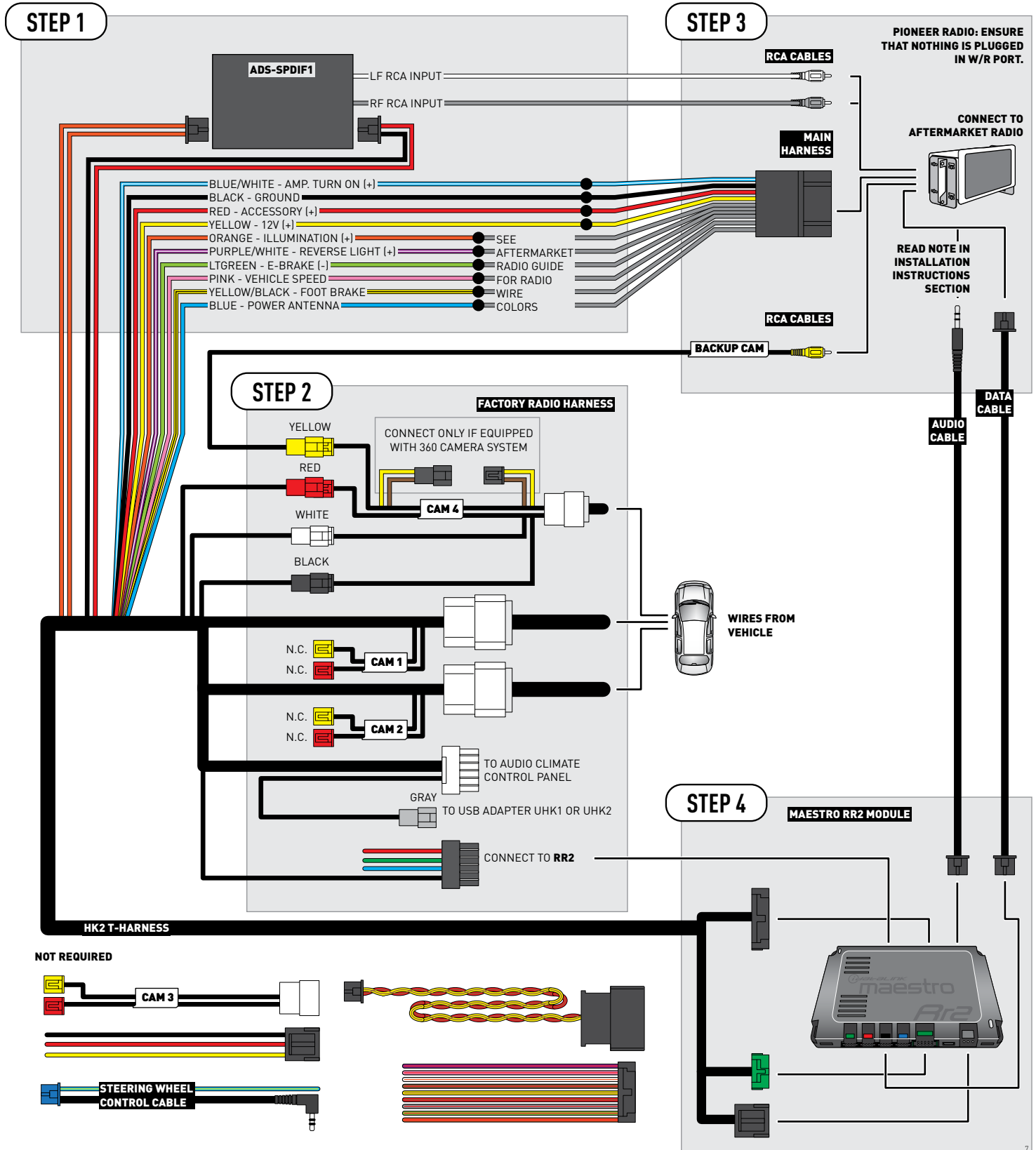
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (If there is no iDatalink audio input, connect to AUX).

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

STEP 4

- Connect all the harnesses to the Maestro RR2 module then test your installation.

WIRING DIAGRAM

STEP 1

ADS-SPDIF1

LF RCA INPUT
RF RCA INPUT

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

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AFTERMARKET
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WIRE
COLORS

STEP 3

RCA CABLES

MAIN HARNESS

PIONEER RADIO: ENSURE THAT NOTHING IS PLUGGED IN W/R PORT.

CONNECT TO AFTERMARKET RADIO

READ NOTE IN INSTALLATION INSTRUCTIONS SECTION

RCA CABLES

BACKUP CAM

DATA CABLE

AUDIO CABLE

STEP 2

FACTORY RADIO HARNESS

YELLOW

CONNECT ONLY IF EQUIPPED WITH 360 CAMERA SYSTEM

RED

CAM 4

WHITE

BLACK

WIRES FROM VEHICLE

N.C.
N.C. CAM 1

N.C.
N.C. CAM 2

TO AUDIO CLIMATE CONTROL PANEL

GRAY
TO USB ADAPTER UHK1 OR UHK2

CONNECT TO **RR2**

STEP 4

MAESTRO RR2 MODULE

HK2 T-HARNESS

NOT REQUIRED

CAM 3

STEERING WHEEL CONTROL CABLE

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.	Ensure CAM4 connector is plugged into the vehicle. Ensure the Black 2 pin connector with the **BROWN/RED** and **BROWN/YELLOW** wires is plugged into the Black 2 pin connector from the rHK2 harness with the **BROWN/RED** and **BROWN/YELLOW** wires. 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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maestro **Ar**

INSTALL GUIDE

2014-2017
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WITHOUT NAV WITH AMP

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ADS-RR(SR)-HK01-DS

ADDITIONAL RESOURCES

Maestro RR2 Programmable Outputs Guide

OPTIONAL ACCESSORIES

K40 ELECTRONICS
ESCORT®
uHK1/uHK2
SAT1/SAT2
NAV1/NAV2

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.

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NEED HELP?

📞 1 866 427-2999

✉ maestro.support@idatalink.com

💬 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 rHK2 T-harness and match the wire functions.
- Connect the rHK2 T-harness and the RCA cables to the ADS-SPDIF1.

Note: Isolate (tape) unused wires, if applicable.

STEP 2

- Remove the factory radio.
- Assemble the rHK2 T-harness as shown in wiring diagram (If there is an OEM camera, connect the backup cam rca cable to the rHK2 T-harness, as shown).
- Connect the factory radio harness to the rHK2 T-harness.

STEP 3

- Plug the male BLACK 2 pin connector of the rHK2 T-harness into the OBDII harness.
- Plug the OBDII connector into the OBDII of the vehicle, located under the driver side dash.
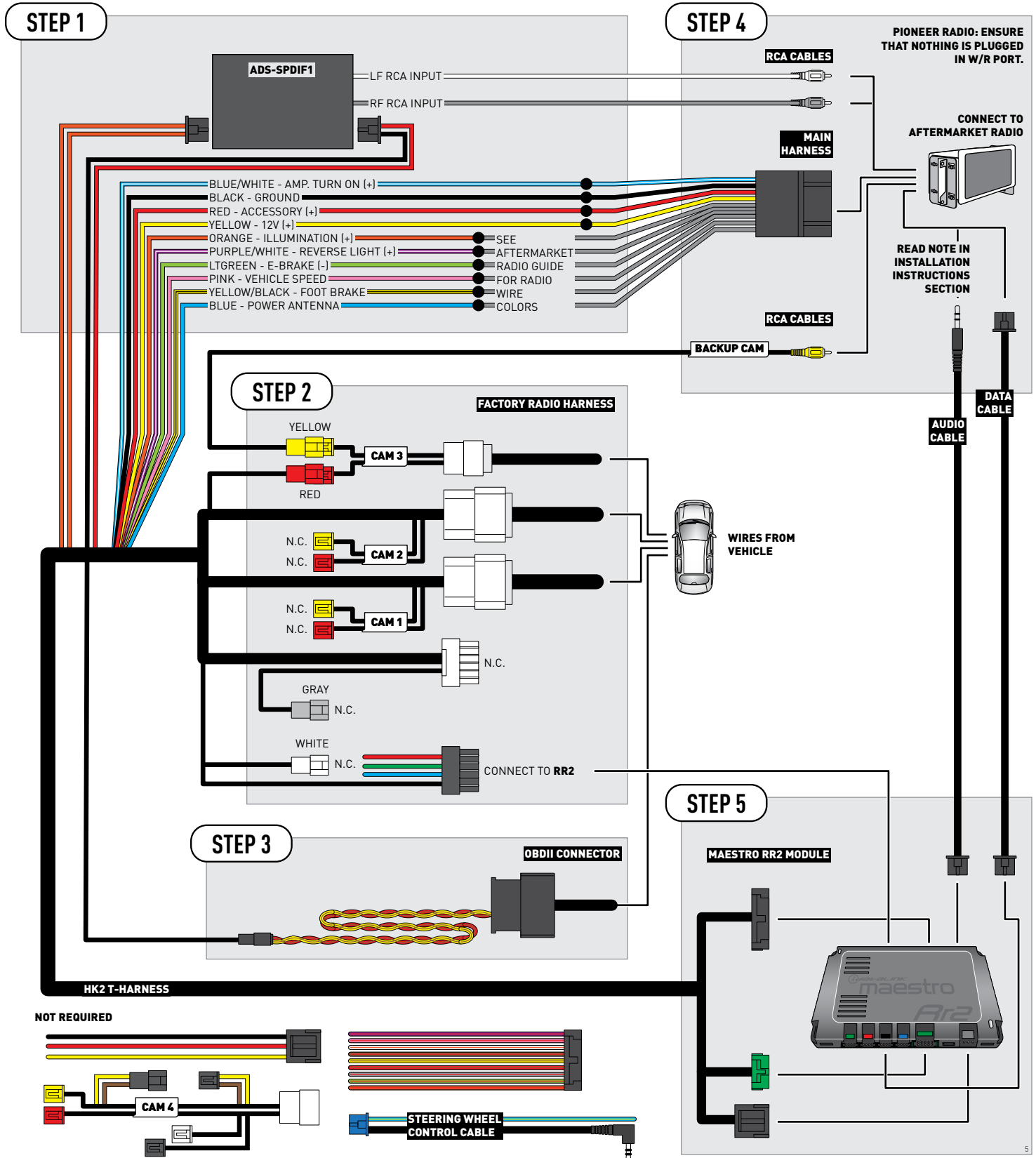
STEP 4

- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the RCA cables in the front RCA outputs of the radio.
- Plug the backup camera RCA into the aftermarket radio's backup camera input (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 RR2 module then test your installation.

5

WIRING DIAGRAM

STEP 1

ADS-SPDIF1

LF RCA INPUT
RF RCA INPUT

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

SEE
AFTERMARKET
RADIO GUIDE
FOR RADIO
WIRE
COLORS

STEP 4

RCA CABLES

PIONEER RADIO: ENSURE THAT NOTHING IS PLUGGED IN W/R PORT.

CONNECT TO AFTERMARKET RADIO

MAIN HARNESS

READ NOTE IN INSTALLATION INSTRUCTIONS SECTION

RCA CABLES

BACKUP CAM

DATA CABLE

AUDIO CABLE

STEP 2

FACTORY RADIO HARNESS

YELLOW
CAM 3
RED

N.C. CAM 2
N.C.

WIRES FROM VEHICLE

N.C. CAM 1
N.C.

N.C.

GRAY
N.C.

WHITE
N.C.
CONNECT TO **RR2**

STEP 5

STEP 3

OBDII CONNECTOR

MAESTRO RR2 MODULE

HK2 T-HARNESS

NOT REQUIRED

CAM 4

STEERING WHEEL CONTROL CABLE

5

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 OBDII connector is securely attached to the OBDII connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the **BROWN/RED** wire is on **PIN 6** and the **BROWN/YELLOW** wire is connected to **PIN 14** of the OBDII connector. 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.
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.

INSTALL GUIDE

2014-2015
HYUNDAI TUCSON
WITH NAV WITH AMP

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

PRODUCTS REQUIRED

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iDatalink Maestro HRN-RR-HK2 Installation Harness

PROGRAMMED FIRMWARE

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- Connect the rHK2 T-harness and the RCA cables to the ADS-SPDIF1.

Note: Isolate (tape) unused wires, if applicable.

STEP 2

- Remove the factory radio.
- Assemble the rHK2 T-harness as shown in wiring diagram (If there is an OEM camera, connect the backup cam rca cable to the rHK2 T-harness, as shown).
- Connect the factory radio harness to the rHK2 T-harness.

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- Plug the male BLACK 2 pin connector of the rHK2 T-harness into the OBDII harness.
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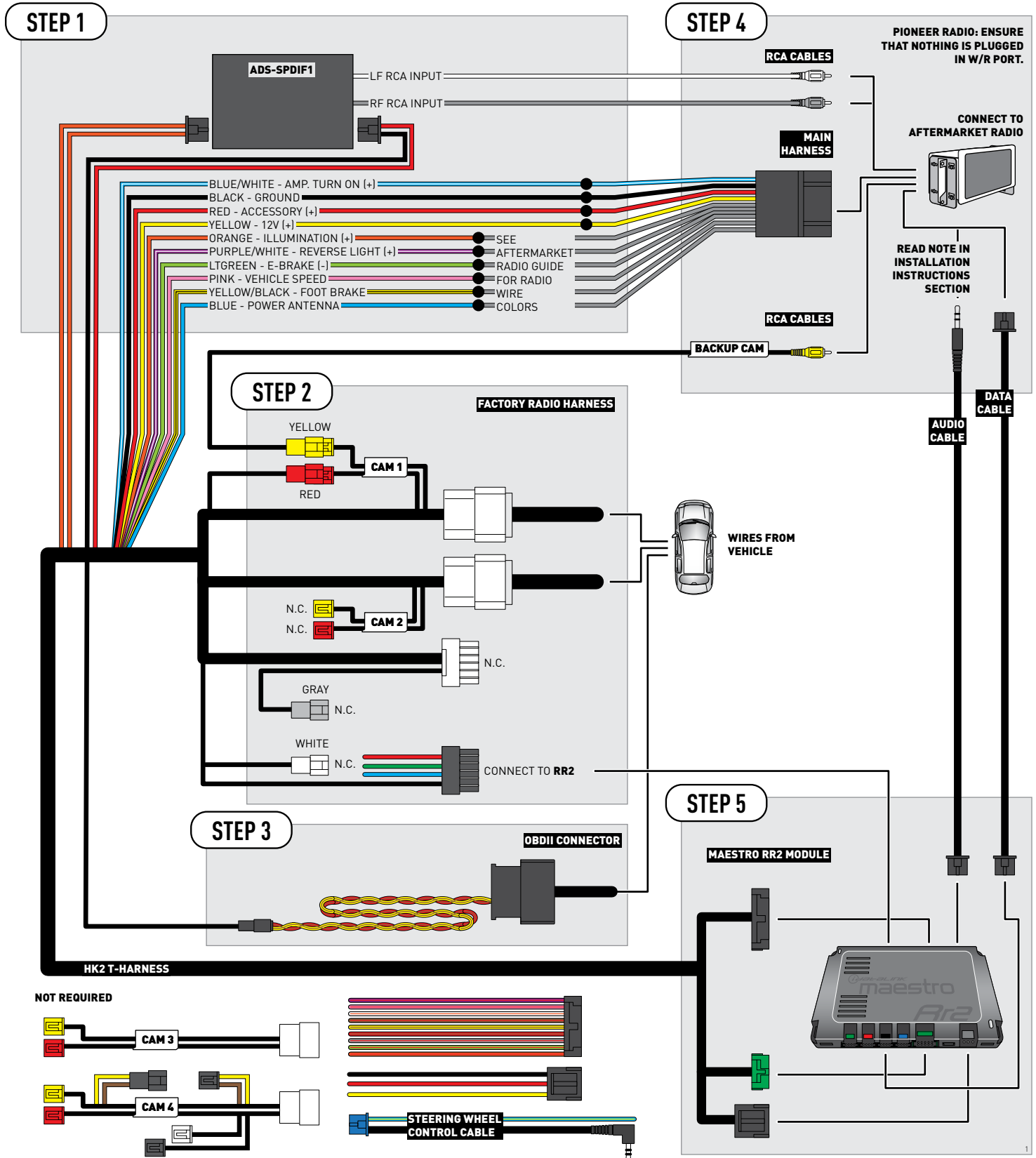
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- Plug the backup camera RCA into the aftermarket radio's backup camera input (if applicable).
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (If 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 RR2 module then test your installation.

WIRING DIAGRAM

STEP 1

ADS-SPDIF1

LF RCA INPUT
RF RCA INPUT

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

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COLORS

STEP 4

RCA CABLES

MAIN HARNESS

PIONEER RADIO: ENSURE THAT NOTHING IS PLUGGED IN W/R PORT.

CONNECT TO AFTERMARKET RADIO

READ NOTE IN INSTALLATION INSTRUCTIONS SECTION

RCA CABLES

BACKUP CAM

DATA CABLE

AUDIO CABLE

STEP 2

FACTORY RADIO HARNESS

YELLOW
RED
CAM 1

RED

WIRES FROM VEHICLE

N.C.
N.C.
CAM 2

N.C.

GRAY
N.C.

WHITE
N.C.
CONNECT TO **RR2**

STEP 3

OBDII CONNECTOR

STEP 5

MAESTRO RR2 MODULE

HK2 T-HARNESS

NOT REQUIRED

CAM 3

CAM 4

STEERING WHEEL CONTROL CABLE

1

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 OBDII connector is securely attached to the OBDII connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the **BROWN/RED** wire is on **PIN 6** and the **BROWN/YELLOW** wire is connected to **PIN 14** of the OBDII connector. 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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MAESTRO RR RESET PROCEDURE:

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

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iDatalink maestro Rr

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

PRODUCTS REQUIRED

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iDatalink Maestro HRN-RR-HK2 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-HK01-DS

ADDITIONAL RESOURCES

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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 rHK2 T-harness and match the wire functions.
- Connect the rHK2 T-harness and the RCA cables to the ADS-SPDIF1.

Note: Isolate (tape) unused wires, if applicable.

STEP 2

- Remove the factory radio.
- Assemble the rHK2 T-harness as shown in wiring diagram.

  If there is an OEM camera, connect the backup cam RCA cable to the rHK2 CAM4 harness, as shown.

  If equipped with 360 camera system: plug together the BLACK 2 pin (with brown and yellow wires) connectors (rHK2 CAM4 harness).

  If not equipped with 360 camera system: do not plug the black 2 PIN (with brown and yellow wires) connectors.
- Connect the factory radio harness to the rHK2 T-harness.
- Connect the 6 pin BLACK connector from the rHK2 T-harness to the RR2 module.

STEP 3

- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the RCA cables in the front RCA outputs of the radio.
- Plug the backup camera RCA into the aftermarket radio's backup camera input (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).
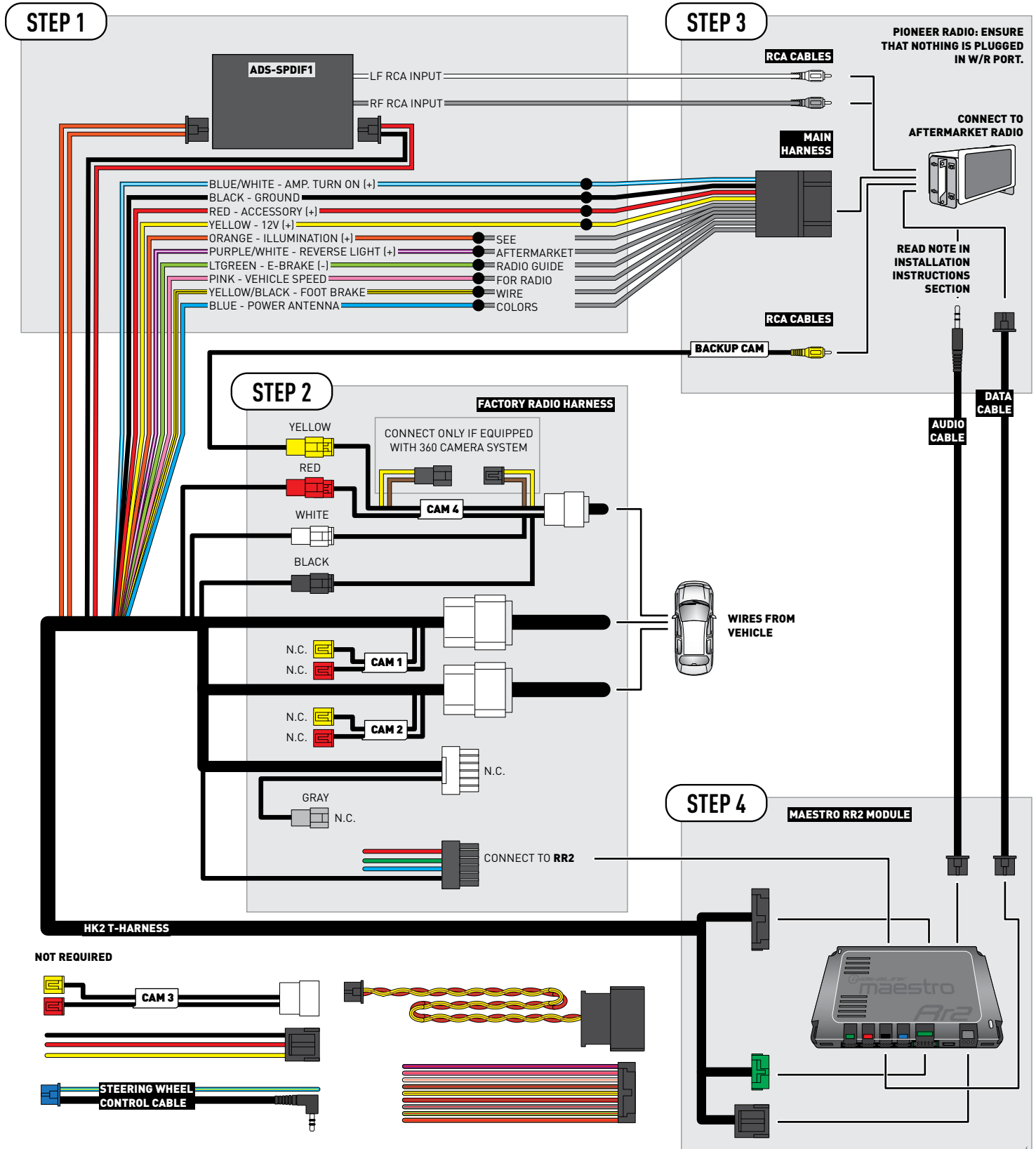
Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.

STEP 4

- Connect all the harnesses to the Maestro RR2 module then test your installation.

WIRING DIAGRAM

STEP 1

ADS-SPDIF1

LF RCA INPUT
RF RCA INPUT

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

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WIRE
COLORS

STEP 3

PIONEER RADIO: ENSURE THAT NOTHING IS PLUGGED IN W/R PORT.

RCA CABLES

MAIN HARNESS

CONNECT TO AFTERMARKET RADIO

READ NOTE IN INSTALLATION INSTRUCTIONS SECTION

RCA CABLES

BACKUP CAM

STEP 2

FACTORY RADIO HARNESS

YELLOW

CONNECT ONLY IF EQUIPPED WITH 360 CAMERA SYSTEM

RED

CAM 4

WHITE

BLACK

WIRES FROM VEHICLE

N.C.
N.C. | CAM 1

N.C.
N.C. | CAM 2

N.C.

GRAY
N.C.

CONNECT TO **RR2**

STEP 4

MAESTRO RR2 MODULE

AUDIO CABLE

DATA CABLE

HK2 T-HARNESS

NOT REQUIRED

CAM 3

STEERING WHEEL CONTROL CABLE

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.	Ensure CAM4 connector is plugged into the vehicle. Ensure the Black 2 pin connector with the **BROWN/RED** and **BROWN/YELLOW** wires is plugged into the Black 2 pin connector from the rHK2 harness with the **BROWN/RED** and **BROWN/YELLOW** wires. 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.
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

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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.

INSTALL GUIDE

2010-2013
HYUNDAI TUCSON
WITHOUT NAV WITH AMP

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

PRODUCTS REQUIRED

iDatalink Maestro RR2 Radio Replacement Interface
iDatalink Maestro HRN-RR-HK2 Installation Harness

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ADS-RR(SR)-HK01-DS

ADDITIONAL RESOURCES

Maestro RR2 Programmable Outputs Guide

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Note: Isolate (tape) unused wires, if applicable.

STEP 2

- Remove the factory radio.
- Assemble the rHK2 T-harness as shown in wiring diagram.
- Connect the factory radio harness to the rHK2 T-harness.

STEP 3

- Plug the male BLACK 2 pin connector of the rHK2 T-harness into the OBDII harness.
- Plug the OBDII connector into the OBDII of the vehicle, located under the driver side dash.
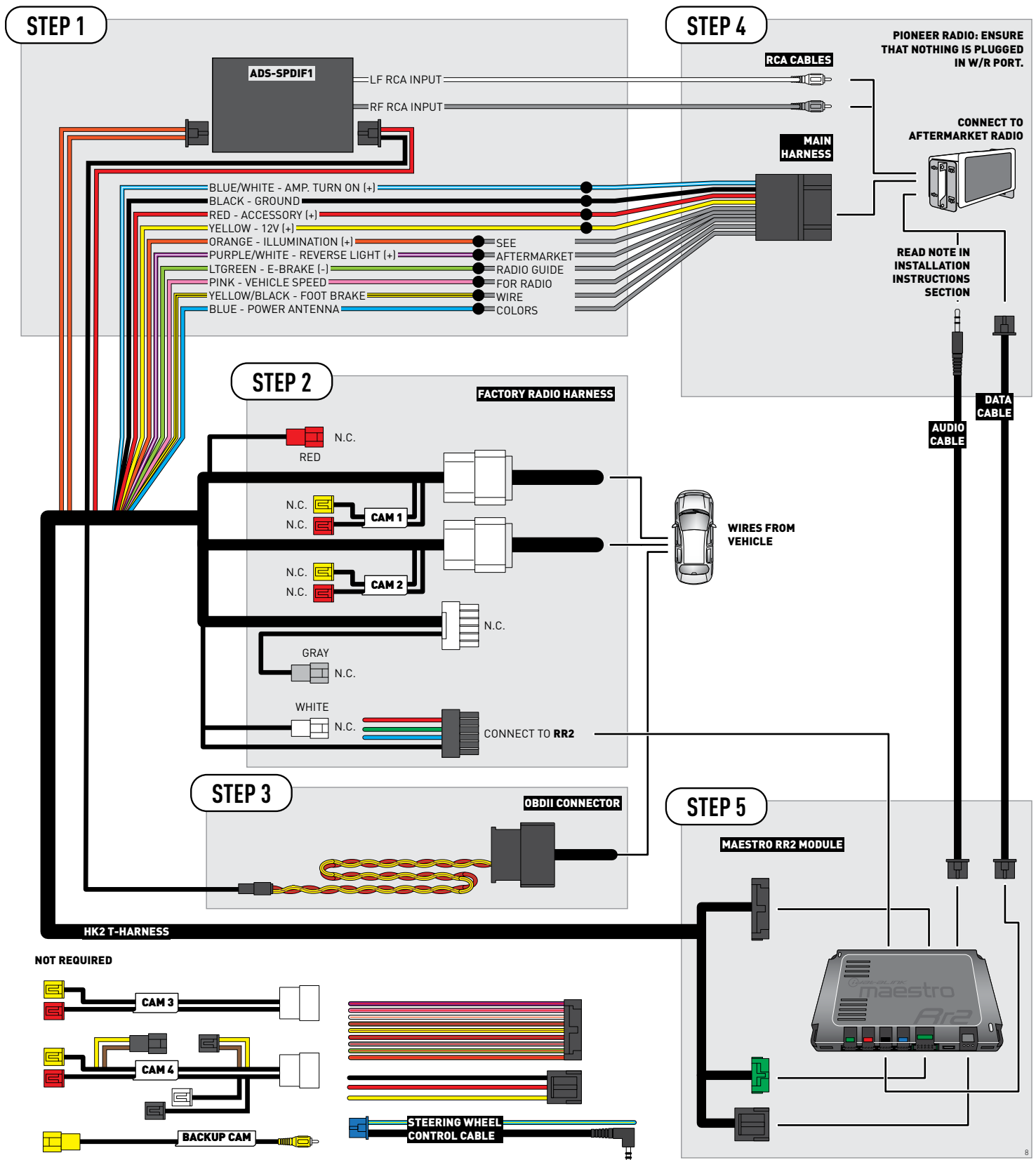
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- Plug the Data cable to the data port of the aftermarket radio.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (If there is no iDatalink audio input, connect to AUX).

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

STEP 5

- Connect all the harnesses to the Maestro RR2 module then test your installation.

8

WIRING DIAGRAM

STEP 1

STEP 4

ADS-SPDIF1

LF RCA INPUT

RF RCA INPUT

RCA CABLES

PIONEER RADIO: ENSURE THAT NOTHING IS PLUGGED IN W/R PORT.

MAIN HARNESS

CONNECT TO AFTERMARKET RADIO

BLUE/WHITE - AMP. TURN ON (+)
BLACK - GROUND
RED - ACCESSORY (+)
YELLOW - 12V (+)
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WIRE
COLORS

READ NOTE IN INSTALLATION INSTRUCTIONS SECTION

DATA CABLE

AUDIO CABLE

STEP 2

FACTORY RADIO HARNESS

N.C.
RED

N.C.
N.C. **CAM 1**

N.C.
N.C. **CAM 2**

WIRES FROM VEHICLE

N.C.

GRAY
N.C.

WHITE
N.C. CONNECT TO **RR2**

STEP 3

OBDII CONNECTOR

STEP 5

MAESTRO RR2 MODULE

HK2 T-HARNESS

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CAM 3

CAM 4

BACKUP CAM

STEERING WHEEL CONTROL CABLE

8

RADIO WIRE REFERENCE CHART

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

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INSTALLATION INSTRUCTIONS

BEFORE INSTALLING

uHK1/uHK2 is REQUIRED to retain illumination on the buttons on the audio/climate control panel.

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 rHK2 T-harness and match the wire functions.
- Connect the rHK2 T-harness and the RCA cables to the ADS-SPDIF1.

Note: Isolate (tape) unused wires, if applicable.

STEP 2

- Remove the factory radio.
- Assemble the rHK2 T-harness as shown in wiring diagram (If there is an OEM camera, connect the backup cam rca cable to the rHK2 T-harness, as shown).
- Connect the factory radio harness to the rHK2 T-harness.
- Connect the Audio/Climate Control plug (rHK2 harness) to the OEM Audio/Climate Control dash panel (that was unplugged when removing OEM radio).
- Connect the GRAY 2 pin connector of the Audio/Climate Control plug (rHK2 harness) to the Gray 2 pin connector of the uHK1/uHK2 USB adapter.

STEP 3

- Plug the male BLACK 2 pin connector of the rHK2 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.
- Connect the RCA cables in the front RCA outputs of the radio.
- Plug the backup camera RCA into the aftermarket radio's backup camera input (if applicable).
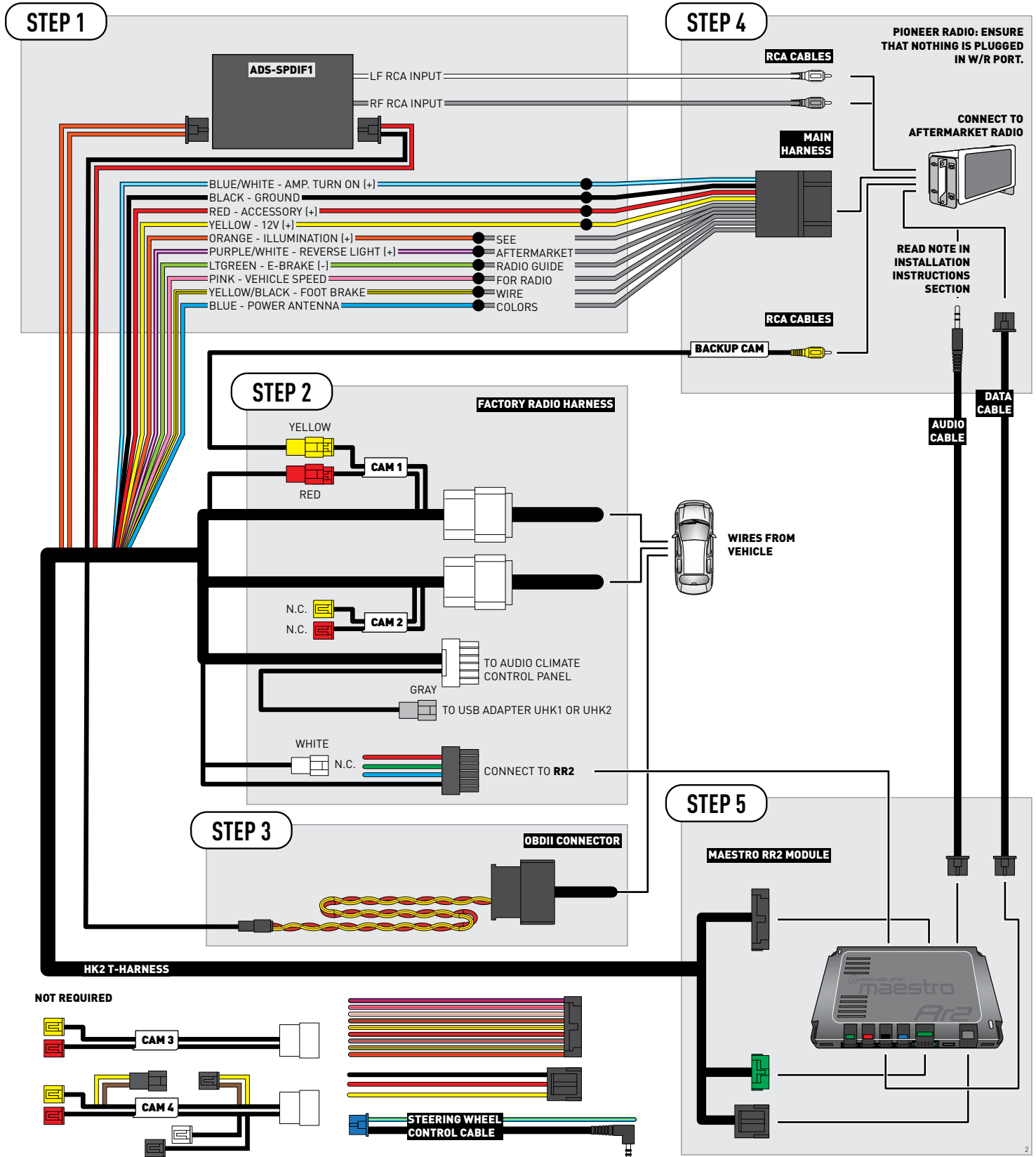- Plug the Data cable to the data port of the aftermarket radio.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (If there is no iDatalink audio input, connect to AUX).

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

STEP 5

- Connect all the harnesses to the Maestro RR2 module then test your installation.

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WIRING DIAGRAM

STEP 1

ADS-SPDIF1

LF RCA INPUT

RF RCA INPUT

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

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AFTERMARKET
RADIO GUIDE
FOR RADIO
WIRE
COLORS

STEP 4

RCA CABLES

PIONEER RADIO: ENSURE THAT NOTHING IS PLUGGED IN W/R PORT.

MAIN HARNESS

CONNECT TO AFTERMARKET RADIO

READ NOTE IN INSTALLATION INSTRUCTIONS SECTION

RCA CABLES

BACKUP CAM

DATA CABLE

AUDIO CABLE

STEP 2

FACTORY RADIO HARNESS

YELLOW

CAM 1

RED

N.C.

CAM 2

N.C.

WIRES FROM VEHICLE

TO AUDIO CLIMATE CONTROL PANEL

GRAY

TO USB ADAPTER UHK1 OR UHK2

WHITE

N.C.

CONNECT TO **RR2**

STEP 5

MAESTRO RR2 MODULE

STEP 3

OBDII CONNECTOR

HK2 T-HARNESS

NOT REQUIRED

CAM 3

CAM 4

STEERING WHEEL CONTROL CABLE

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 OBDII connector is securely attached to the OBDII connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the **BROWN/RED** wire is on **PIN 6** and the **BROWN/YELLOW** wire is connected to **PIN 14** of the OBDII connector. 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.
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

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

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

PRODUCTS REQUIRED

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iDatalink Maestro HRN-RR-HK2 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-HK01-DS

ADDITIONAL RESOURCES

Maestro RR2 Programmable Outputs Guide

OPTIONAL ACCESSORIES

K40 ELECTRONICS
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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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INSTALLATION INSTRUCTIONS

BEFORE INSTALLING

uHK1/uHK2 is REQUIRED to retain illumination on the buttons on the audio/climate control panel.

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 rHK2 T-harness and match the wire functions.
- Connect the rHK2 T-harness and the RCA cables to the ADS-SPDIF1.

Note: Isolate (tape) unused wires, if applicable.

STEP 2

- Remove the factory radio.
- Assemble the rHK2 T-harness as shown in wiring diagram.

  If there is an OEM camera, connect the backup cam RCA cable to the rHK2 CAM4 harness, as shown.

  If equipped with 360 camera system: plug together the BLACK 2 pin (with brown and yellow wires) connectors (rHK2 CAM4 harness).

  If not equipped with 360 camera system: do not plug the black 2 PIN (with brown and yellow wires) connectors.

- Connect the factory radio harness to the rHK2 T-harness.
- Connect the Audio/Climate Control plug (rHK2 harness) to the OEM Audio/Climate Control dash panel that was (unplugged when removing OEM radio).
- Connect the GRAY 2 pin connector of the Audio/Climate Control plug (rHK2 harness) to the Gray 2 pin connector of the uHK1/uHK2 USB adapter.
- Connect the 6 pin BLACK connector from the rHK2 T-harness to the RR2 module.

STEP 3

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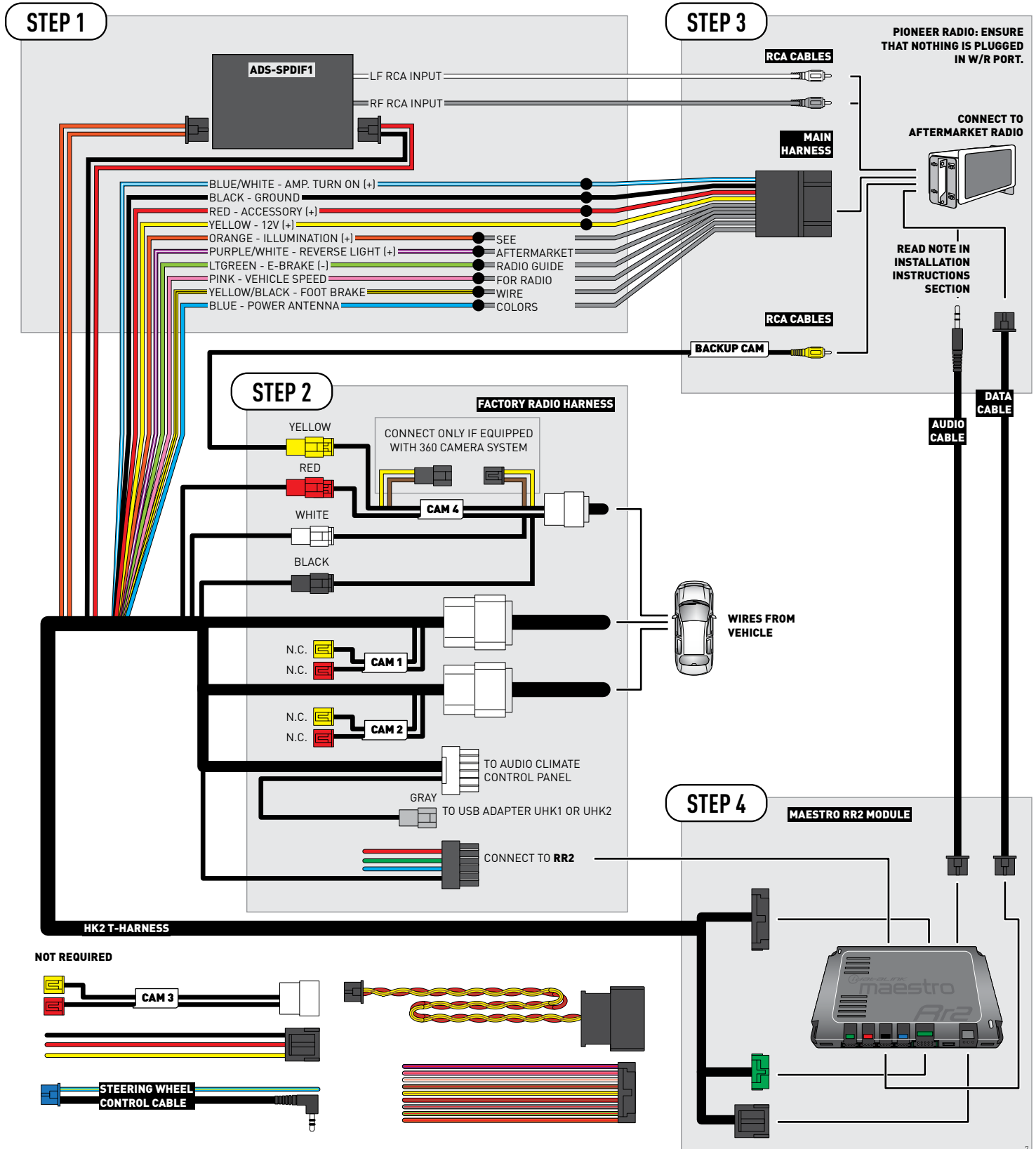
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (If there is no iDatalink audio input, connect to AUX).

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

STEP 4

- Connect all the harnesses to the Maestro RR2 module then test your installation.

WIRING DIAGRAM

STEP 1

ADS-SPDIF1

LF RCA INPUT
RF RCA INPUT

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

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AFTERMARKET
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WIRE
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STEP 3

PIONEER RADIO: ENSURE THAT NOTHING IS PLUGGED IN W/R PORT.

RCA CABLES

MAIN HARNESS

CONNECT TO AFTERMARKET RADIO

READ NOTE IN INSTALLATION INSTRUCTIONS SECTION

RCA CABLES

BACKUP CAM

DATA CABLE

AUDIO CABLE

STEP 2

FACTORY RADIO HARNESS

YELLOW

CONNECT ONLY IF EQUIPPED WITH 360 CAMERA SYSTEM

RED

CAM 4

WHITE

BLACK

N.C. | CAM 1
N.C.

N.C. | CAM 2
N.C.

WIRES FROM VEHICLE

TO AUDIO CLIMATE CONTROL PANEL

GRAY
TO USB ADAPTER UHK1 OR UHK2

CONNECT TO **RR2**

STEP 4

MAESTRO RR2 MODULE

HK2 T-HARNESS

NOT REQUIRED

CAM 3

STEERING WHEEL CONTROL CABLE

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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.	Ensure CAM4 connector is plugged into the vehicle. Ensure the Black 2 pin connector with the **BROWN/RED** and **BROWN/YELLOW** wires is plugged into the Black 2 pin connector from the rHK2 harness with the **BROWN/RED** and **BROWN/YELLOW** wires. 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.
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.

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ADDITIONAL RESOURCES

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OPTIONAL ACCESSORIES

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uHK1/uHK2
SAT1/SAT2
NAV1/NAV2

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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 rHK2 T-harness and match the wire functions.
- Connect the rHK2 T-harness and the RCA cables to the ADS-SPDIF1.

Note: Isolate (tape) unused wires, if applicable.

STEP 2

- Remove the factory radio.
- Assemble the rHK2 T-harness as shown in wiring diagram (If there is an OEM camera, connect the backup cam rca cable to the rHK2 T-harness, as shown).
- Connect the factory radio harness to the rHK2 T-harness.

STEP 3

- Plug the male BLACK 2 pin connector of the rHK2 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.
- Connect the RCA cables in the front RCA outputs of the radio.
- Plug the backup camera RCA into the aftermarket radio's backup camera input (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).
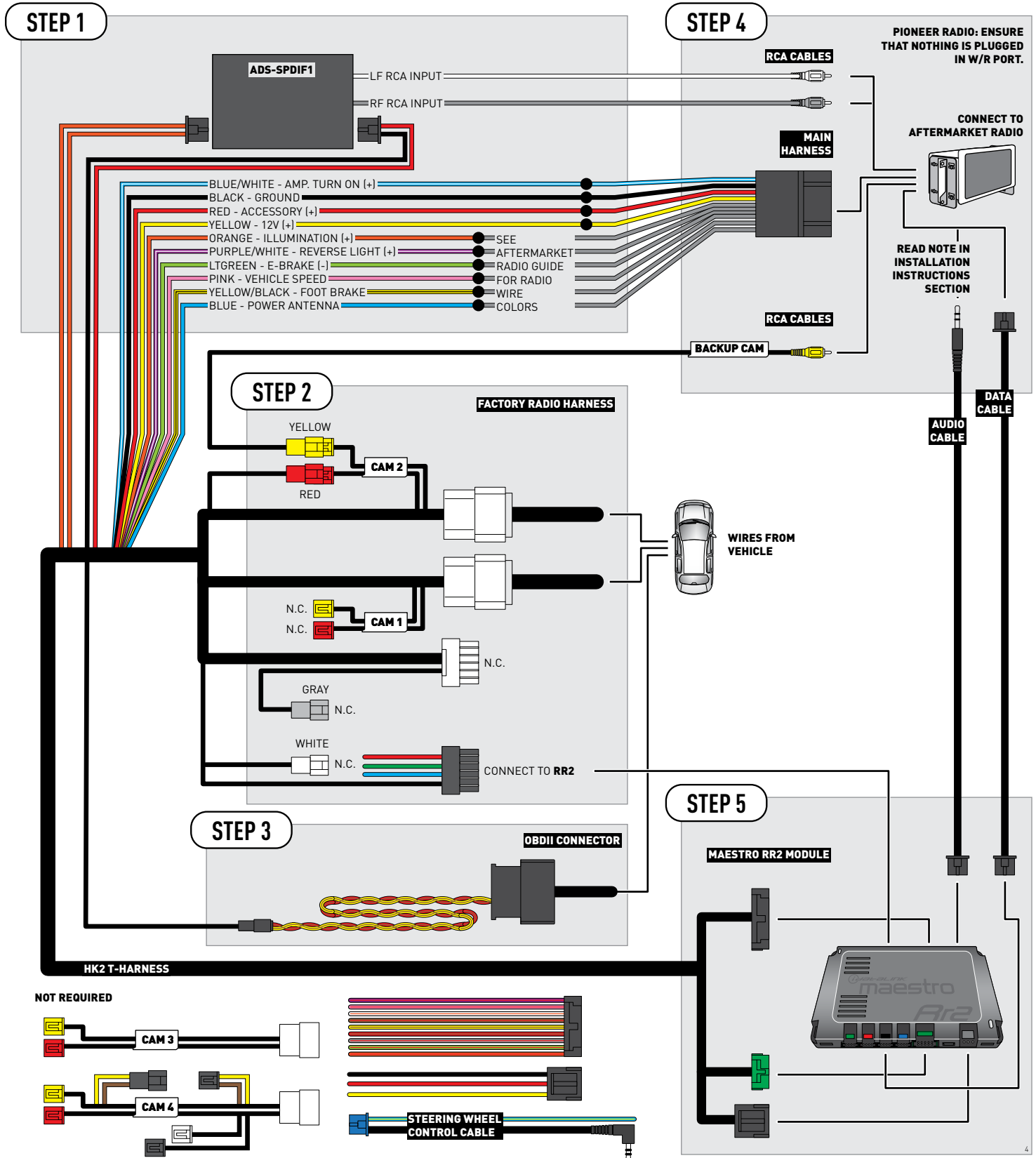
Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.

STEP 5

- Connect all the harnesses to the Maestro RR2 module then test your installation.

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WIRING DIAGRAM

STEP 1

ADS-SPDIF1

LF RCA INPUT

RF RCA INPUT

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

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FOR RADIO
WIRE
COLORS

STEP 4

RCA CABLES

MAIN HARNESS

PIONEER RADIO: ENSURE THAT NOTHING IS PLUGGED IN W/R PORT.

CONNECT TO AFTERMARKET RADIO

READ NOTE IN INSTALLATION INSTRUCTIONS SECTION

RCA CABLES

BACKUP CAM

DATA CABLE

AUDIO CABLE

STEP 2

FACTORY RADIO HARNESS

YELLOW

CAM 2

RED

N.C.

N.C.

CAM 1

N.C.

GRAY

N.C.

WHITE

N.C.

CONNECT TO **RR2**

WIRES FROM VEHICLE

STEP 3

OBDII CONNECTOR

HK2 T-HARNESS

STEP 5

MAESTRO RR2 MODULE

NOT REQUIRED

CAM 3

CAM 4

STEERING WHEEL CONTROL CABLE

4

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 OBDII connector is securely attached to the OBDII connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the **BROWN/RED** wire is on **PIN 6** and the **BROWN/YELLOW** wire is connected to **PIN 14** of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended. Reset the RR.
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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.

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BEFORE INSTALLING

uHK1/uHK2 is REQUIRED to retain illumination on the buttons on the audio/climate control panel.

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 rHK2 T-harness and match the wire functions.
- Connect the rHK2 T-harness and the RCA cables to the ADS-SPDIF1.

Note: Isolate (tape) unused wires, if applicable.

STEP 2

- Remove the factory radio.
- Assemble the rHK2 T-harness as shown in wiring diagram.

  If there is an OEM camera, connect the backup cam RCA cable to the rHK2 CAM4 harness, as shown.

  If equipped with 360 camera system: plug together the BLACK 2 pin (with brown and yellow wires) connectors (rHK2 CAM4 harness).

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- Connect the GRAY 2 pin connector of the Audio/Climate Control plug (rHK2 harness) to the Gray 2 pin connector of the uHK1/uHK2 USB adapter.
- Connect the 6 pin BLACK connector from the rHK2 T-harness to the RR2 module.

STEP 3

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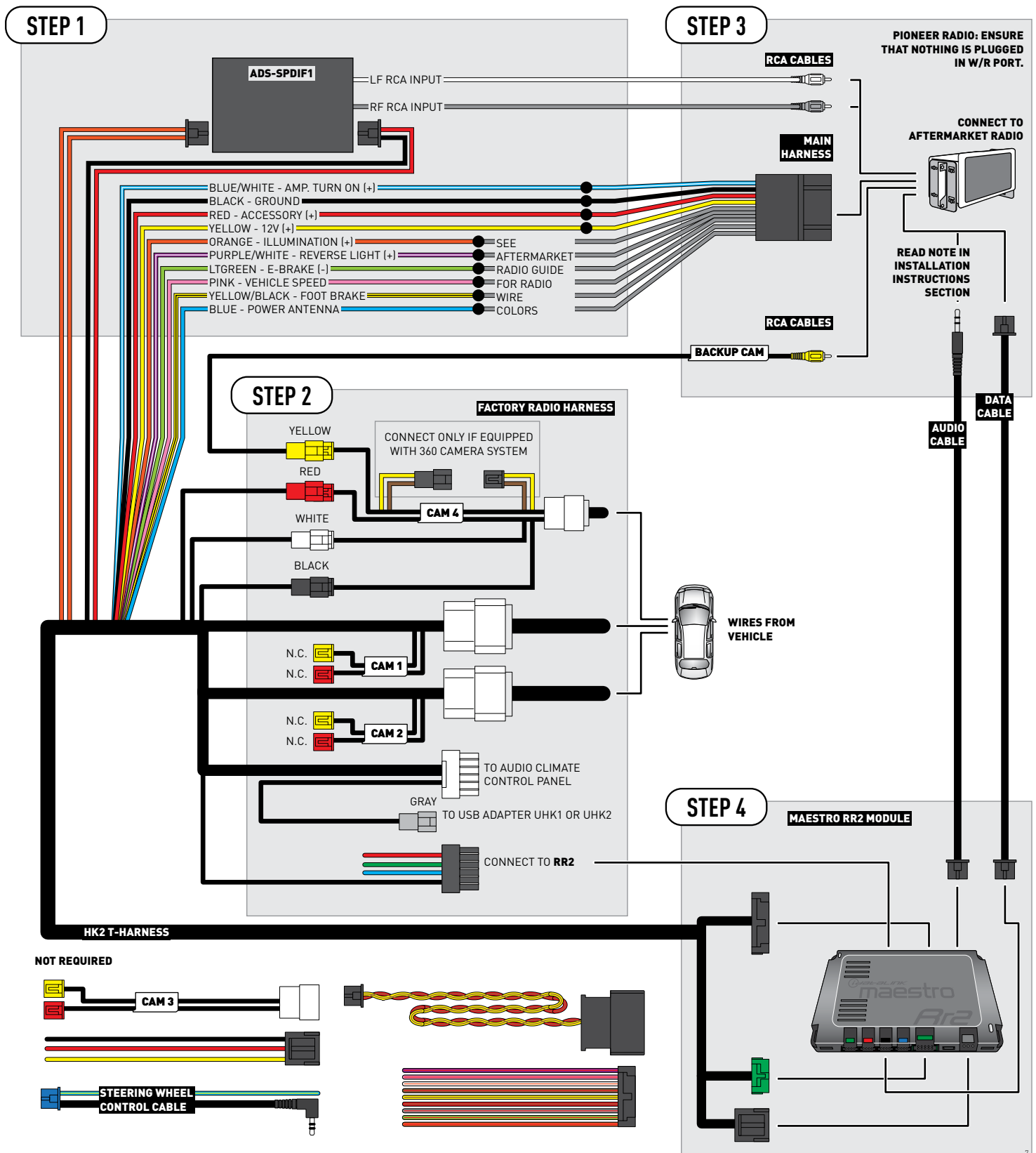
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (If there is no iDatalink audio input, connect to AUX).

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

STEP 4

- Connect all the harnesses to the Maestro RR2 module then test your installation.

WIRING DIAGRAM

STEP 1

STEP 3

PIONEER RADIO: ENSURE THAT NOTHING IS PLUGGED IN W/R PORT.

RCA CABLES

ADS-SPDIF1

LF RCA INPUT

RF RCA INPUT

MAIN HARNESS

CONNECT TO AFTERMARKET RADIO

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

SEE AFTERMARKET RADIO GUIDE FOR RADIO WIRE COLORS

READ NOTE IN INSTALLATION INSTRUCTIONS SECTION

RCA CABLES

BACKUP CAM

STEP 2

FACTORY RADIO HARNESS

YELLOW

CONNECT ONLY IF EQUIPPED WITH 360 CAMERA SYSTEM

RED

CAM 4

WHITE

BLACK

WIRES FROM VEHICLE

N.C.
N.C. CAM 1

N.C.
N.C. CAM 2

TO AUDIO CLIMATE CONTROL PANEL

GRAY
TO USB ADAPTER UHK1 OR UHK2

STEP 4

MAESTRO RR2 MODULE

CONNECT TO **RR2**

HK2 T-HARNESS

DATA CABLE

AUDIO CABLE

NOT REQUIRED

CAM 3

STEERING WHEEL CONTROL CABLE

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

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Gauges do not work.	Ensure CAM4 connector is plugged into the vehicle. Ensure the Black 2 pin connector with the **BROWN/RED** and **BROWN/YELLOW** wires is plugged into the Black 2 pin connector from the rHK2 harness with the **BROWN/RED** and **BROWN/YELLOW** wires. Reset the RR.
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maestro Rr

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ESCORT

uHK1/uHK2
SAT1/SAT2
NAV1/NAV2

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Radar Installation Guides

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

WELCOME

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

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

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

NEED HELP?

📞 1 866 427-2999

✉ maestro.support@idatalink.com

💬 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 rHK2 T-harness and match the wire functions.
- Connect the rHK2 T-harness and the RCA cables to the ADS-SPDIF1.

Note: Isolate (tape) unused wires, if applicable.

STEP 2

- Remove the factory radio.
- Assemble the rHK2 T-harness as shown in wiring diagram (If there is an OEM camera, connect the backup cam rca cable to the rHK2 T-harness, as shown).
- Connect the factory radio harness to the rHK2 T-harness.

STEP 3

- Plug the male BLACK 2 pin connector of the rHK2 T-harness into the OBDII harness.
- Plug the OBDII connector into the OBDII of the vehicle, located under the driver side dash.
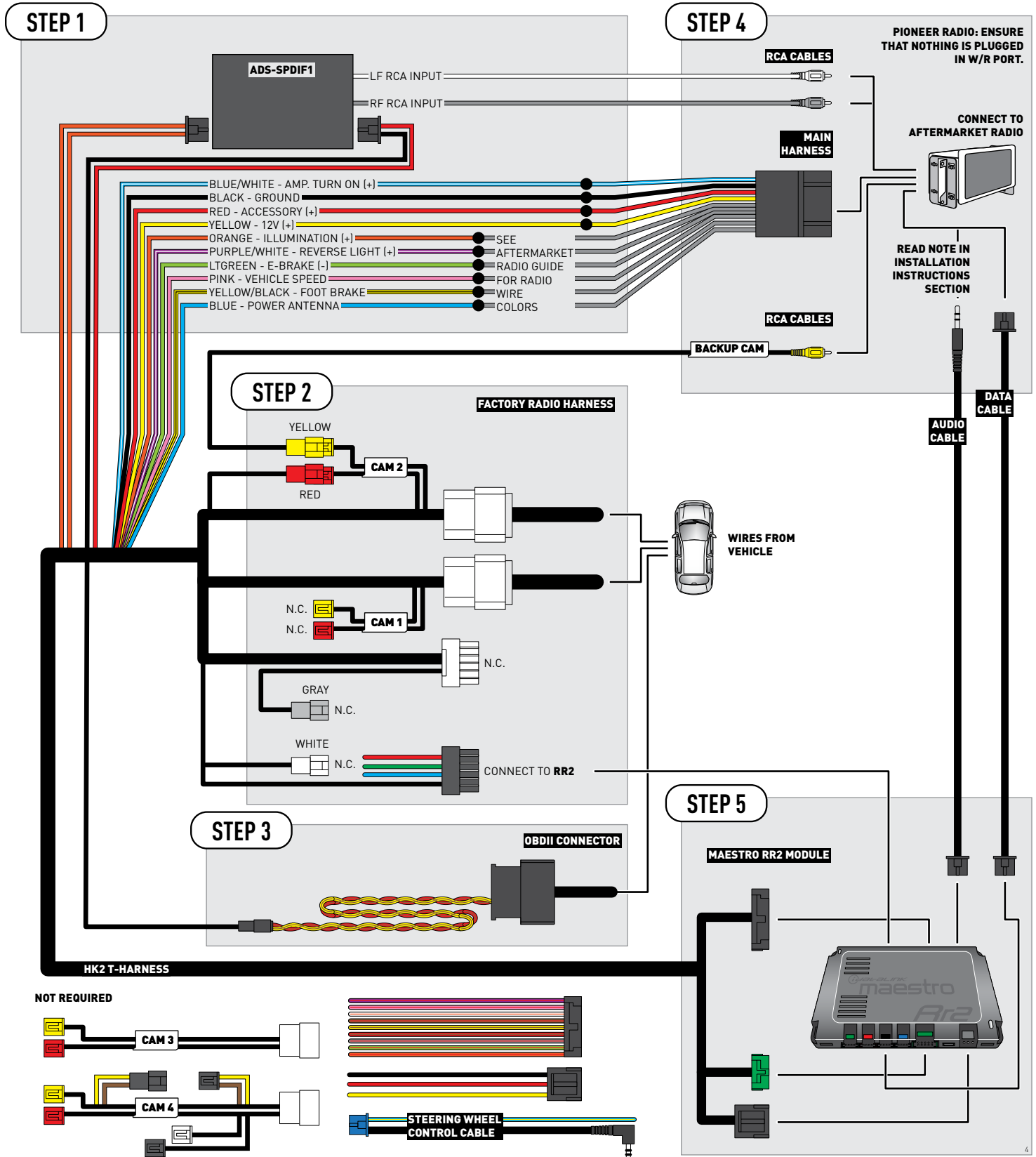
STEP 4

- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the RCA cables in the front RCA outputs of the radio.
- Plug the backup camera RCA into the aftermarket radio's backup camera input (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 RR2 module then test your installation.

WIRING DIAGRAM

STEP 1

ADS-SPDIF1

LF RCA INPUT
RF RCA INPUT

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

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WIRE
COLORS

STEP 4

RCA CABLES

MAIN HARNESS

PIONEER RADIO: ENSURE THAT NOTHING IS PLUGGED IN W/R PORT.

CONNECT TO AFTERMARKET RADIO

READ NOTE IN INSTALLATION INSTRUCTIONS SECTION

RCA CABLES

BACKUP CAM

DATA CABLE

AUDIO CABLE

STEP 2

FACTORY RADIO HARNESS

YELLOW

RED
CAM 2

N.C.
N.C.
CAM 1

WIRES FROM VEHICLE

N.C.

GRAY
N.C.

WHITE
N.C.
CONNECT TO **RR2**

STEP 3

OBDII CONNECTOR

HK2 T-HARNESS

STEP 5

MAESTRO RR2 MODULE

NOT REQUIRED

CAM 3

CAM 4

STEERING WHEEL CONTROL CABLE

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 OBDII connector is securely attached to the OBDII connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the **BROWN/RED** wire is on **PIN 6** and the **BROWN/YELLOW** wire is connected to **PIN 14** of the OBDII connector. 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.
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.

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

PRODUCTS REQUIRED

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iDatalink Maestro HRN-RR-HK2 Installation Harness

PROGRAMMED FIRMWARE

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ADDITIONAL RESOURCES

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OPTIONAL ACCESSORIES

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Note: Isolate (tape) unused wires, if applicable.

STEP 2

- Remove the factory radio.
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- Connect the factory radio harness to the rHK2 T-harness.

STEP 3

- Plug the male BLACK 2 pin connector of the rHK2 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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- 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 RR2 module then test your installation.

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WIRING DIAGRAM

STEP 1

ADS-SPDIF1

LF RCA INPUT
RF RCA INPUT

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BLACK - GROUND
RED - ACCESSORY (+)
YELLOW - 12V (+)
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PINK - VEHICLE SPEED
YELLOW/BLACK - FOOT BRAKE
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STEP 4

RCA CABLES

MAIN HARNESS

PIONEER RADIO: ENSURE THAT NOTHING IS PLUGGED IN W/R PORT.

CONNECT TO AFTERMARKET RADIO

READ NOTE IN INSTALLATION INSTRUCTIONS SECTION

RCA CABLES

BACKUP CAM

DATA CABLE

AUDIO CABLE

STEP 2

FACTORY RADIO HARNESS

YELLOW
CAM 3
RED

WIRES FROM VEHICLE

N.C.
CAM 2
N.C.

N.C.
CAM 1
N.C.

N.C.

GRAY
N.C.

WHITE
N.C.
CONNECT TO **RR2**

STEP 5

STEP 3

OBDII CONNECTOR

MAESTRO RR2 MODULE

HK2 T-HARNESS

NOT REQUIRED

CAM 4

STEERING WHEEL CONTROL CABLE

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

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- Connect the rHK2 T-harness and the RCA cables to the ADS-SPDIF1.

Note: Isolate (tape) unused wires, if applicable.

STEP 2

- Remove the factory radio.
- Assemble the rHK2 T-harness as shown in wiring diagram (If there is an OEM camera, connect the backup cam rca cable to the rHK2 T-harness, as shown).
- Connect the factory radio harness to the rHK2 T-harness.

STEP 3

- Plug the male BLACK 2 pin connector of the rHK2 T-harness into the OBDII harness.
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- Plug the backup camera RCA into the aftermarket radio's backup camera input (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).
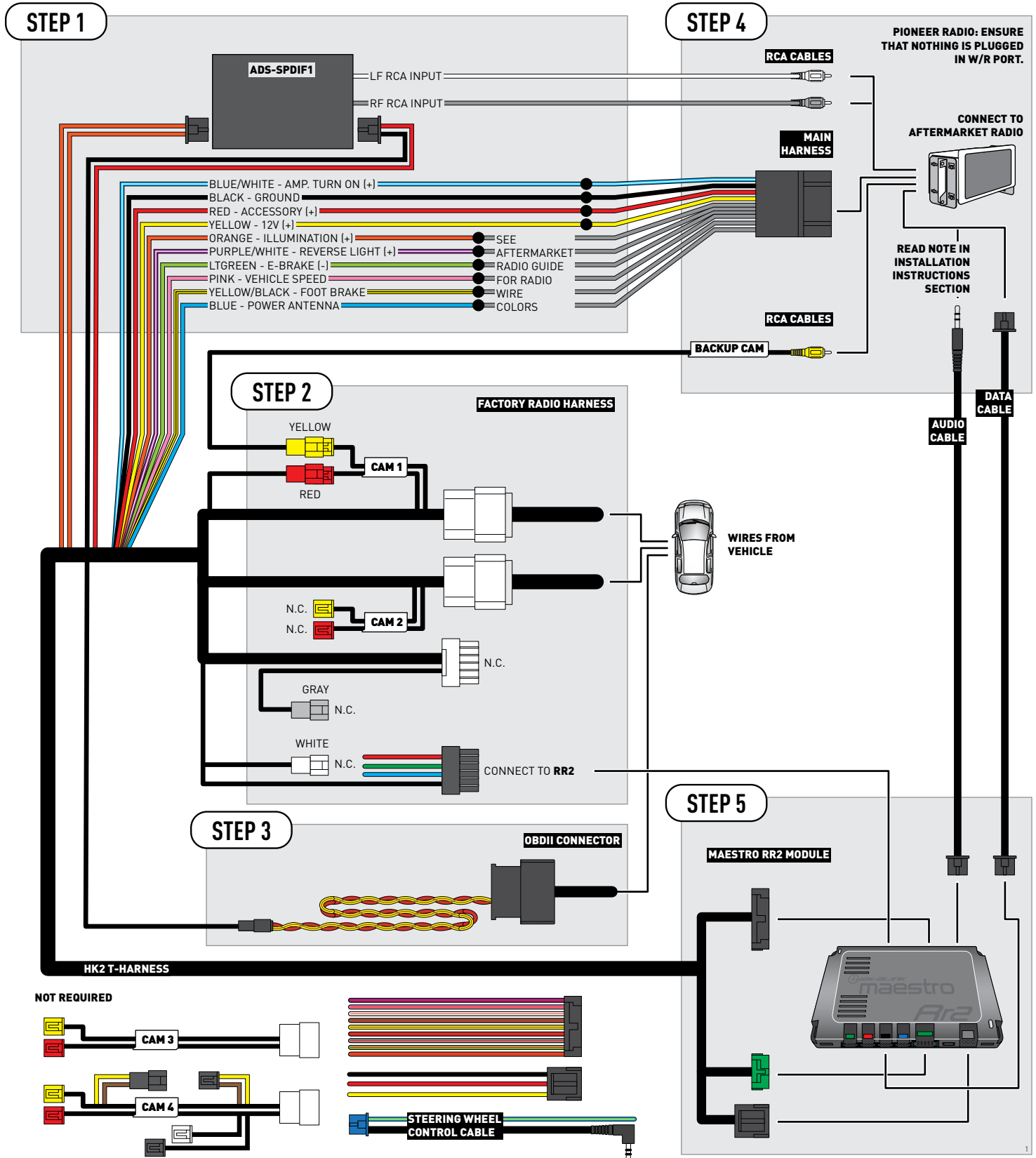
Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.

STEP 5

- Connect all the harnesses to the Maestro RR2 module then test your installation.

WIRING DIAGRAM

STEP 1

ADS-SPDIF1

LF RCA INPUT
RF RCA INPUT

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

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WIRE
COLORS

STEP 4

RCA CABLES

PIONEER RADIO: ENSURE
THAT NOTHING IS PLUGGED
IN W/R PORT.

MAIN
HARNESS

CONNECT TO
AFTERMARKET RADIO

CONNECT TO
AFTERMARKET RADIO

READ NOTE IN
INSTALLATION
INSTRUCTIONS
SECTION

RCA CABLES

BACKUP CAM

DATA
CABLE

AUDIO
CABLE

STEP 2

FACTORY RADIO HARNESS

YELLOW

RED

CAM 1

WIRES FROM
VEHICLE

N.C.
N.C.

CAM 2

N.C.

GRAY
N.C.

WHITE
N.C.

CONNECT TO **RR2**

STEP 5

STEP 3

OBDII CONNECTOR

MAESTRO RR2 MODULE

HK2 T-HARNESS

NOT REQUIRED

CAM 3

CAM 4

STEERING WHEEL
CONTROL CABLE

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 OBDII connector is securely attached to the OBDII connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the **BROWN/RED** wire is on **PIN 6** and the **BROWN/ YELLOW** wire is connected to **PIN 14** of the OBDII connector. 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.
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.

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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 rHK2 T-harness and match the wire functions.
- Connect the rHK2 T-harness and the RCA cables to the ADS-SPDIF1.

Note: Isolate (tape) unused wires, if applicable.

STEP 2

- Remove the factory radio.
- Assemble the rHK2 T-harness as shown in wiring diagram.

  If there is an OEM camera, connect the backup cam RCA cable to the rHK2 CAM4 harness, as shown.

  If equipped with 360 camera system: plug together the BLACK 2 pin (with brown and yellow wires) connectors (rHK2 CAM4 harness).

  If not equipped with 360 camera system: do not plug the black 2 PIN (with brown and yellow wires) connectors.

- Connect the factory radio harness to the rHK2 T-harness.
- Connect the 6 pin BLACK connector from the rHK2 T-harness to the RR2 module.

STEP 3

- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the RCA cables in the front RCA outputs of the radio.
- Plug the backup camera RCA into the aftermarket radio's backup camera input (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 4

- Connect all the harnesses to the Maestro RR2 module then test your installation.

WIRING DIAGRAM

STEP 1

ADS-SPDIF1

LF RCA INPUT

RF RCA INPUT

BLUE/WHITE - AMP. TURN ON (+)
BLACK - GROUND
RED - ACCESSORY (+)
YELLOW - 12V (+)
ORANGE - ILLUMINATION (+)
PURPLE/WHITE - REVERSE LIGHT (+)
LTGREEN - E-BRAKE (-)
PINK - VEHICLE SPEED
YELLOW/BLACK - FOOT BRAKE
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STEP 3

PIONEER RADIO: ENSURE THAT NOTHING IS PLUGGED IN W/R PORT.

RCA CABLES

MAIN HARNESS

CONNECT TO AFTERMARKET RADIO

READ NOTE IN INSTALLATION INSTRUCTIONS SECTION

RCA CABLES

BACKUP CAM

DATA CABLE

AUDIO CABLE

STEP 2

FACTORY RADIO HARNESS

YELLOW

CONNECT ONLY IF EQUIPPED WITH 360 CAMERA SYSTEM

RED

CAM 4

WHITE

BLACK

WIRES FROM VEHICLE

N.C. CAM 1
N.C.

N.C. CAM 2
N.C.

N.C.

GRAY
N.C.

STEP 4

MAESTRO RR2 MODULE

CONNECT TO **RR2**

HK2 T-HARNESS

NOT REQUIRED

CAM 3

STEERING WHEEL CONTROL CABLE

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.	Ensure CAM4 connector is plugged into the vehicle. Ensure the Black 2 pin connector with the **BROWN/RED** and **BROWN/YELLOW** wires is plugged into the Black 2 pin connector from the rHK2 harness with the **BROWN/RED** and **BROWN/YELLOW** wires. 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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INSTALL GUIDE

2014-2015
KIA SORENTO
WITHOUT NAV WITH AMP

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

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- Remove the factory radio.
- Assemble the rHK2 T-harness as shown in wiring diagram (If there is an OEM camera, connect the backup cam rca cable to the rHK2 T-harness, as shown).
- Connect the factory radio harness to the rHK2 T-harness.

STEP 3

- Plug the male BLACK 2 pin connector of the rHK2 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.
- Connect the RCA cables in the front RCA outputs of the radio.
- Plug the backup camera RCA into the aftermarket radio's backup camera input (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 RR2 module then test your installation.

WIRING DIAGRAM

STEP 1

ADS-SPDIF1

LF RCA INPUT
RF RCA INPUT

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

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WIRE
COLORS

STEP 4

PIONEER RADIO: ENSURE THAT NOTHING IS PLUGGED IN W/R PORT.

RCA CABLES

MAIN HARNESS

CONNECT TO AFTERMARKET RADIO

READ NOTE IN INSTALLATION INSTRUCTIONS SECTION

RCA CABLES

BACKUP CAM

DATA CABLE

AUDIO CABLE

STEP 2

FACTORY RADIO HARNESS

YELLOW
CAM 2
RED

WIRES FROM VEHICLE

N.C. CAM 1
N.C.

N.C.

GRAY N.C.

WHITE N.C.

CONNECT TO **RR2**

STEP 3

OBDII CONNECTOR

HK2 T-HARNESS

STEP 5

MAESTRO RR2 MODULE

NOT REQUIRED

CAM 3

CAM 4

STEERING WHEEL CONTROL CABLE

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 OBDII connector is securely attached to the OBDII connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the **BROWN/RED** wire is on **PIN 6** and the **BROWN/YELLOW** wire is connected to **PIN 14** of the OBDII connector. 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.
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.

INSTALL GUIDE

2016
KIA SORENTO
WITHOUT NAV WITH AMP

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

PRODUCTS REQUIRED

iDatalink Maestro RR2 Radio Replacement Interface
iDatalink Maestro HRN-RR-HK2 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-HK01-DS

ADDITIONAL RESOURCES

Maestro RR2 Programmable Outputs Guide

OPTIONAL ACCESSORIES

K40 ELECTRONICS
ESCORT®
uHK1/uHK2
SAT1/SAT2
NAV1/NAV2

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Radar Installation Guides

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WELCOME

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

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

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

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 rHK2 T-harness and match the wire functions.
- Connect the rHK2 T-harness and the RCA cables to the ADS-SPDIF1.

Note: Isolate (tape) unused wires, if applicable.

STEP 2

- Remove the factory radio.
- Assemble the rHK2 T-harness as shown in wiring diagram (If there is an OEM camera, connect the backup cam rca cable to the rHK2 T-harness, as shown).
- Connect the factory radio harness to the rHK2 T-harness.

STEP 3

- Plug the male BLACK 2 pin connector of the rHK2 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 (rHK2) to WHITE wire.
- Connect YELLOW/BROWN (rHK2) to BLACK wire.

Note: DO NOT cut the WHITE and the BLACK wires.

STEP 4

- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the RCA cables in the front RCA outputs of the radio.
- Plug the backup camera RCA into the aftermarket radio's backup camera input (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 RR2 module then test your installation.

WIRING DIAGRAM

STEP 1

ADS-SPDIF1

LF RCA INPUT
RF RCA INPUT

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

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AFTERMARKET
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STEP 4

RCA CABLES

MAIN HARNESS

PIONEER RADIO: ENSURE THAT NOTHING IS PLUGGED IN W/R PORT.

CONNECT TO AFTERMARKET RADIO

READ NOTE IN INSTALLATION INSTRUCTIONS SECTION

RCA CABLES

BACKUP CAM

DATA CABLE

AUDIO CABLE

STEP 2

FACTORY RADIO HARNESS

YELLOW

RED

CAM 2

WIRES FROM VEHICLE

N.C.
N.C.

CAM 1

N.C.

GRAY
N.C.

WHITE
N.C.

CONNECT TO **RR2**

STEP 3

CAN GATEWAY BEHIND RADIO (30 pin connector)

WHITE
BLACK

RED/BROWN
YELLOW/BROWN

HK2 T-HARNESS

STEP 5

MAESTRO RR2 MODULE

NOT REQUIRED

CAM 3

CAM 4

STEERING WHEEL CONTROL CABLE

3

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 **BROWN/RED** wire of the rHK2 harness is connected to **WHITE** wire of the CAN gateway connector, in the radio cavity. Ensure the **BROWN/YELLOW** wire of the rHK2 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.
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

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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.

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

PRODUCTS REQUIRED

iDatalink Maestro RR2 Radio Replacement Interface
iDatalink Maestro HRN-RR-HK2 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-HK01-DS

ADDITIONAL RESOURCES

Maestro RR2 Programmable Outputs Guide

OPTIONAL ACCESSORIES

Click here for:
Radar Installation Guides

uHK1/uHK2
SAT1/SAT2
NAV1/NAV2

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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.

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

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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 rHK2 T-harness and match the wire functions.
- Connect the rHK2 T-harness and the RCA cables to the ADS-SPDIF1.

Note: Isolate (tape) unused wires, if applicable.

STEP 2

- Remove the factory radio.
- Assemble the rHK2 T-harness as shown in wiring diagram (If there is an OEM camera, connect the backup cam rca cable to the rHK2 T-harness, as shown).
- Connect the factory radio harness to the rHK2 T-harness.

STEP 3

- Plug the male BLACK 2 pin connector of the rHK2 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.
- Connect the RCA cables in the front RCA outputs of the radio.
- Plug the backup camera RCA into the aftermarket radio's backup camera input (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).
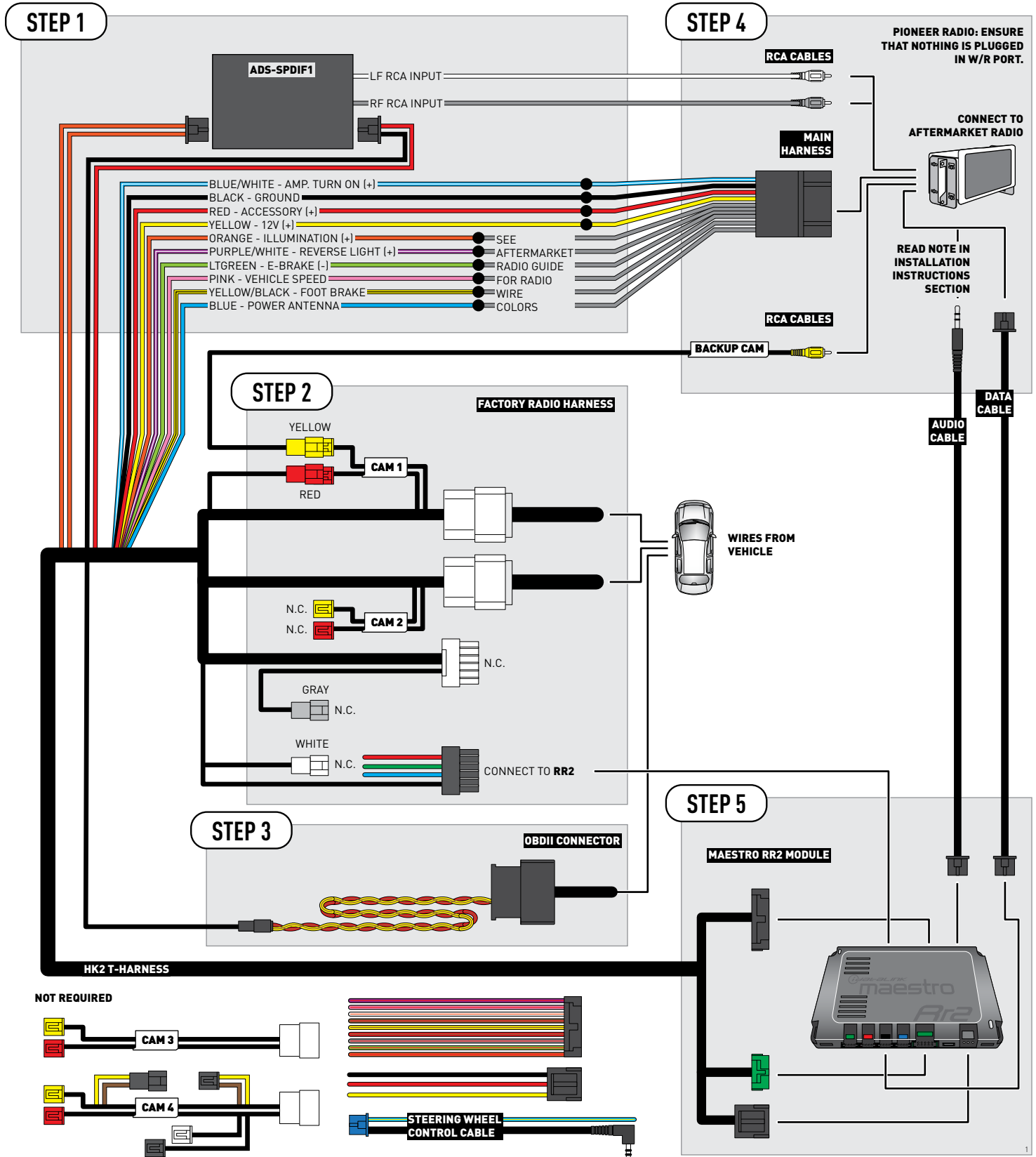
Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.

STEP 5

- Connect all the harnesses to the Maestro RR2 module then test your installation.

WIRING DIAGRAM

STEP 1

ADS-SPDIF1

LF RCA INPUT
RF RCA INPUT

STEP 4

RCA CABLES

PIONEER RADIO: ENSURE
THAT NOTHING IS PLUGGED
IN W/R PORT.

MAIN
HARNESS

CONNECT TO
AFTERMARKET RADIO

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

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FOR RADIO
WIRE
COLORS

READ NOTE IN
INSTALLATION
INSTRUCTIONS
SECTION

RCA CABLES

BACKUP CAM

DATA
CABLE

AUDIO
CABLE

STEP 2

FACTORY RADIO HARNESS

YELLOW
CAM 1
RED

WIRES FROM
VEHICLE

N.C. CAM 2
N.C.

N.C.

GRAY
N.C.

WHITE
N.C.

CONNECT TO **RR2**

STEP 5

MAESTRO RR2 MODULE

STEP 3

OBDII CONNECTOR

HK2 T-HARNESS

NOT REQUIRED

CAM 3

CAM 4

STEERING WHEEL
CONTROL CABLE

maestro **Rr2**

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 OBDII connector is securely attached to the OBDII connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the **BROWN/RED** wire is on **PIN 6** and the **BROWN/YELLOW** wire is connected to **PIN 14** of the OBDII connector. 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.
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.

INSTALL GUIDE

2014-2017
KIA SOUL
WITH NAV WITH AMP

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

PRODUCTS REQUIRED

iDatalink Maestro RR2 Radio Replacement Interface
iDatalink Maestro HRN-RR-HK2 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-HK01-DS

ADDITIONAL RESOURCES

Maestro RR2 Programmable Outputs Guide

OPTIONAL ACCESSORIES

K40 ELECTRONICS
ESCORT
uHK1/uHK2
SAT1/SAT2
NAV1/NAV2

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WELCOME

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

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

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

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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 rHK2 T-harness and match the wire functions.
- Connect the rHK2 T-harness and the RCA cables to the ADS-SPDIF1.

Note: Isolate (tape) unused wires, if applicable.

STEP 2

- Remove the factory radio.
- Assemble the rHK2 T-harness as shown in wiring diagram.

  If there is an OEM camera, connect the backup cam RCA cable to the rHK2 CAM4 harness, as shown.

  If equipped with 360 camera system: plug together the BLACK 2 pin (with brown and yellow wires) connectors (rHK2 CAM4 harness).

  If not equipped with 360 camera system: do not plug the black 2 PIN (with brown and yellow wires) connectors.
- Connect the factory radio harness to the rHK2 T-harness.
- Connect the 6 pin BLACK connector from the rHK2 T-harness to the RR2 module.

STEP 3

- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the RCA cables in the front RCA outputs of the radio.
- Plug the backup camera RCA into the aftermarket radio's backup camera input (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 4

- Connect all the harnesses to the Maestro RR2 module then test your installation.

6

WIRING DIAGRAM

STEP 1

ADS-SPDIF1

LF RCA INPUT
RF RCA INPUT

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

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AFTERMARKET
RADIO GUIDE
FOR RADIO
WIRE
COLORS

STEP 3

PIONEER RADIO: ENSURE THAT NOTHING IS PLUGGED IN W/R PORT.

RCA CABLES

CONNECT TO AFTERMARKET RADIO

MAIN HARNESS

READ NOTE IN INSTALLATION INSTRUCTIONS SECTION

RCA CABLES

BACKUP CAM

DATA CABLE

AUDIO CABLE

STEP 2

FACTORY RADIO HARNESS

YELLOW

CONNECT ONLY IF EQUIPPED WITH 360 CAMERA SYSTEM

RED

CAM 4

WHITE

BLACK

WIRES FROM VEHICLE

N.C. CAM 1
N.C.

N.C. CAM 2
N.C.

N.C.

GRAY
N.C.

CONNECT TO **RR2**

STEP 4

MAESTRO RR2 MODULE

HK2 T-HARNESS

NOT REQUIRED

CAM 3

STEERING WHEEL CONTROL CABLE

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.	Ensure CAM4 connector is plugged into the vehicle. Ensure the Black 2 pin connector with the **BROWN/RED** and **BROWN/YELLOW** wires is plugged into the Black 2 pin connector from the rHK2 harness with the **BROWN/RED** and **BROWN/YELLOW** wires. 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.
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.

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2014-2016
KIA SOUL
WITHOUT NAV WITH AMP

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

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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 rHK2 T-harness and match the wire functions.
- Connect the rHK2 T-harness and the RCA cables to the ADS-SPDIF1.

Note: Isolate (tape) unused wires, if applicable.

STEP 2

- Remove the factory radio.
- Assemble the rHK2 T-harness as shown in wiring diagram (If there is an OEM camera, connect the backup cam rca cable to the rHK2 T-harness, as shown).
- Connect the factory radio harness to the rHK2 T-harness.

STEP 3

- Plug the male BLACK 2 pin connector of the rHK2 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.
- Connect the RCA cables in the front RCA outputs of the radio.
- Plug the backup camera RCA into the aftermarket radio's backup camera input (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 RR2 module then test your installation.

4

WIRING DIAGRAM

STEP 1

ADS-SPDIF1

LF RCA INPUT
RF RCA INPUT

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

SEE AFTERMARKET RADIO GUIDE FOR RADIO WIRE COLORS

STEP 4

RCA CABLES

MAIN HARNESS

PIONEER RADIO: ENSURE THAT NOTHING IS PLUGGED IN W/R PORT.

CONNECT TO AFTERMARKET RADIO

READ NOTE IN INSTALLATION INSTRUCTIONS SECTION

RCA CABLES

BACKUP CAM

DATA CABLE

AUDIO CABLE

STEP 2

FACTORY RADIO HARNESS

YELLOW

RED

CAM 2

N.C.
N.C.

CAM 1

WIRES FROM VEHICLE

N.C.

GRAY

N.C.

WHITE

N.C.

CONNECT TO **RR2**

STEP 5

MAESTRO RR2 MODULE

STEP 3

OBDII CONNECTOR

HK2 T-HARNESS

NOT REQUIRED

CAM 3

CAM 4

STEERING WHEEL CONTROL CABLE

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 OBDII connector is securely attached to the OBDII connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the **BROWN/RED** wire is on **PIN 6** and the **BROWN/YELLOW** wire is connected to **PIN 14** of the OBDII connector. 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.
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.

![iDatalink maestro Rr]

2011-2016
KIA SPORTAGE
WITH NAV WITH AMP

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

PRODUCTS REQUIRED

iDatalink Maestro RR2 Radio Replacement Interface
iDatalink Maestro HRN-RR-HK2 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-HK01-DS

ADDITIONAL RESOURCES

Maestro RR2 Programmable Outputs Guide

OPTIONAL ACCESSORIES

K40 ELECTRONICS
ESCORT

uHK1/uHK2
SAT1/SAT2
NAV1/NAV2

Click here for:
Radar Installation Guides

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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.

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 rHK2 T-harness and match the wire functions.
- Connect the rHK2 T-harness and the RCA cables to the ADS-SPDIF1.

Note: Isolate (tape) unused wires, if applicable.

STEP 2

- Remove the factory radio.
- Assemble the rHK2 T-harness as shown in wiring diagram (If there is an OEM camera, connect the backup cam rca cable to the rHK2 T-harness, as shown).
- Connect the factory radio harness to the rHK2 T-harness.

STEP 3

- Plug the male BLACK 2 pin connector of the rHK2 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.
- Connect the RCA cables in the front RCA outputs of the radio.
- Plug the backup camera RCA into the aftermarket radio's backup camera input (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 RR2 module then test your installation.

WIRING DIAGRAM

STEP 1

STEP 4

ADS-SPDIF1

LF RCA INPUT

RF RCA INPUT

RCA CABLES

PIONEER RADIO: ENSURE THAT NOTHING IS PLUGGED IN W/R PORT.

MAIN HARNESS

CONNECT TO AFTERMARKET RADIO

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

SEE AFTERMARKET RADIO GUIDE FOR RADIO WIRE COLORS

READ NOTE IN INSTALLATION INSTRUCTIONS SECTION

RCA CABLES

BACKUP CAM

STEP 2

FACTORY RADIO HARNESS

YELLOW

CAM 1

RED

WIRES FROM VEHICLE

N.C. CAM 2
N.C.

N.C.

GRAY N.C.

WHITE N.C.

CONNECT TO **RR2**

AUDIO CABLE

DATA CABLE

STEP 5

MAESTRO RR2 MODULE

STEP 3

OBDII CONNECTOR

HK2 T-HARNESS

NOT REQUIRED

CAM 3

CAM 4

STEERING WHEEL CONTROL CABLE

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 OBDII connector is securely attached to the OBDII connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the **BROWN/RED** wire is on **PIN 6** and the **BROWN/YELLOW** wire is connected to **PIN 14** of the OBDII connector. 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.
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.

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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.

maestro *Ar*

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

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ESCORT

uHK1/uHK2
SAT1/SAT2
NAV1/NAV2

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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.

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

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www.12voltdata.com/forum

INSTALLATION INSTRUCTIONS

BEFORE INSTALLING

uHK1/uHK2 is REQUIRED to retain illumination on the buttons on the audio/climate control panel.

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 rHK2 T-harness and match the wire functions.
- Connect the rHK2 T-harness and the RCA cables to the ADS-SPDIF1.

Note: Isolate (tape) unused wires, if applicable.

STEP 2

- Remove the factory radio.
- Assemble the rHK2 T-harness as shown in wiring diagram.

  If there is an OEM camera, connect the backup cam RCA cable to the rHK2 CAM4 harness, as shown.

  If equipped with 360 camera system: plug together the BLACK 2 pin (with brown and yellow wires) connectors (rHK2 CAM4 harness).

  If not equipped with 360 camera system: do not plug the black 2 PIN (with brown and yellow wires) connectors.
- Connect the factory radio harness to the rHK2 T-harness.
- Connect the Audio/Climate Control plug (rHK2 harness) to the OEM Audio/Climate Control dash panel that was (unplugged when removing OEM radio).
- Connect the GRAY 2 pin connector of the Audio/Climate Control plug (rHK2 harness) to the Gray 2 pin connector of the uHK1/uHK2 USB adapter.
- Connect the 6 pin BLACK connector from the rHK2 T-harness to the RR2 module.

STEP 3

- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the RCA cables in the front RCA outputs of the radio.
- Plug the backup camera RCA into the aftermarket radio's backup camera input (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).
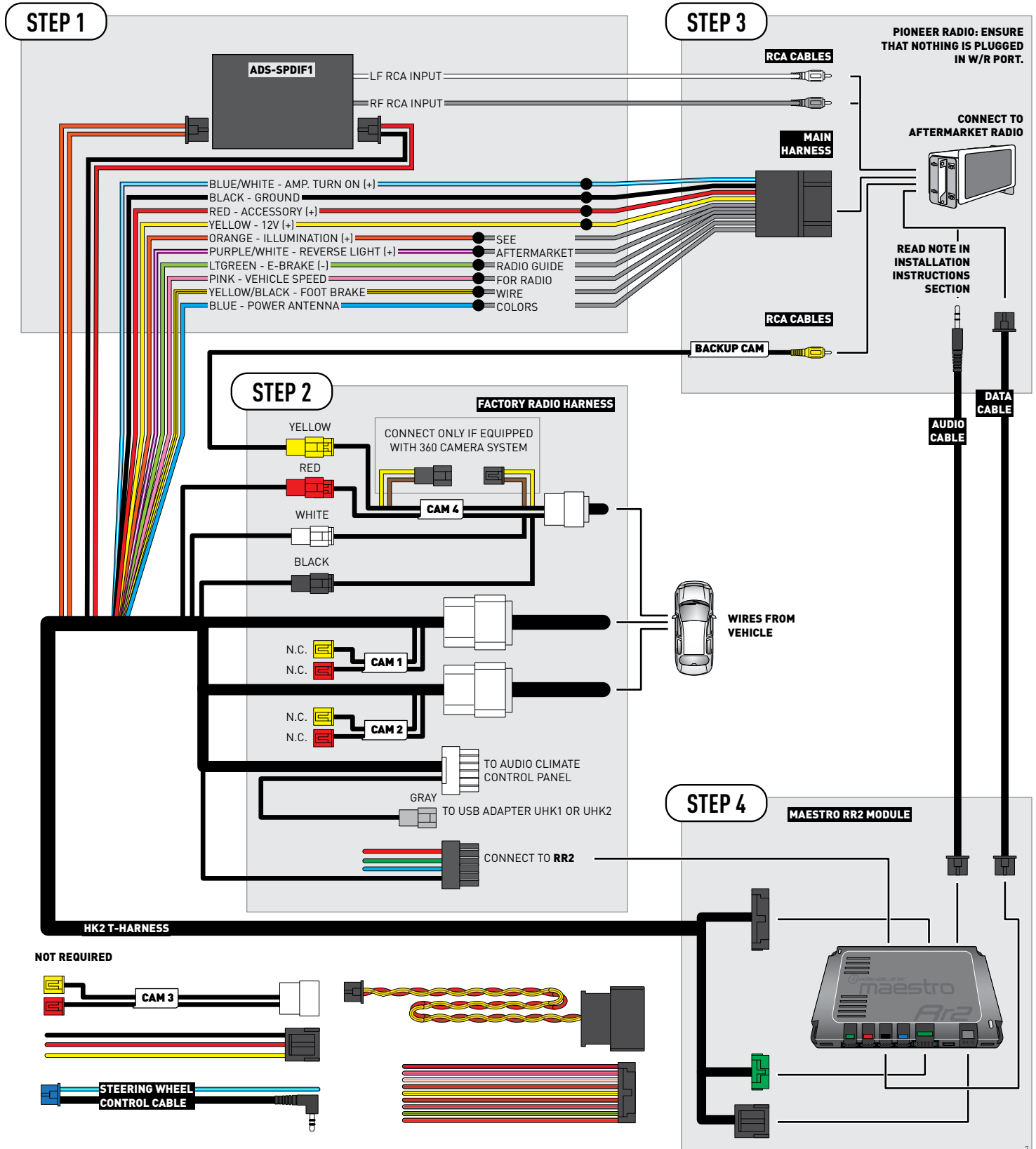
Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.

STEP 4

- Connect all the harnesses to the Maestro RR2 module then test your installation.

WIRING DIAGRAM

STEP 1

ADS-SPDIF1

LF RCA INPUT
RF RCA INPUT

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

SEE
AFTERMARKET
RADIO GUIDE
FOR RADIO
WIRE
COLORS

STEP 3

RCA CABLES

MAIN HARNESS

PIONEER RADIO: ENSURE THAT NOTHING IS PLUGGED IN W/R PORT.

CONNECT TO AFTERMARKET RADIO

READ NOTE IN INSTALLATION INSTRUCTIONS SECTION

RCA CABLES

BACKUP CAM

DATA CABLE

AUDIO CABLE

STEP 2

FACTORY RADIO HARNESS

YELLOW

CONNECT ONLY IF EQUIPPED WITH 360 CAMERA SYSTEM

RED

CAM 4

WHITE

BLACK

WIRES FROM VEHICLE

N.C.
N.C. CAM 1

N.C.
N.C. CAM 2

TO AUDIO CLIMATE CONTROL PANEL

GRAY

TO USB ADAPTER UHK1 OR UHK2

CONNECT TO **RR2**

STEP 4

MAESTRO RR2 MODULE

HK2 T-HARNESS

NOT REQUIRED

CAM 3

STEERING WHEEL CONTROL CABLE

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.	Ensure CAM4 connector is plugged into the vehicle. Ensure the Black 2 pin connector with the **BROWN/RED** and **BROWN/YELLOW** wires is plugged into the Black 2 pin connector from the rHK2 harness with the **BROWN/RED** and **BROWN/YELLOW** wires. 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.
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.

INSTALL GUIDE

2011-2016
KIA SPORTAGE
WITHOUT NAV WITH AMP

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

PRODUCTS REQUIRED

iDatalink Maestro RR2 Radio Replacement Interface
iDatalink Maestro HRN-RR-HK2 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-HK01-DS

ADDITIONAL RESOURCES

Maestro RR2 Programmable Outputs Guide

OPTIONAL ACCESSORIES

K40 ELECTRONICS
ESCORT®
uHK1/uHK2
SAT1/SAT2
NAV1/NAV2

Click here for:
Radar Installation Guides

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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.

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

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KIA SPORTAGE WITHOUT NAV WITH AMP 2011-2016

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 rHK2 T-harness and match the wire functions.
- Connect the rHK2 T-harness and the RCA cables to the ADS-SPDIF1.

Note: Isolate (tape) unused wires, if applicable.

STEP 2

- Remove the factory radio.
- Assemble the rHK2 T-harness as shown in wiring diagram (If there is an OEM camera, connect the backup cam rca cable to the rHK2 T-harness, as shown).
- Connect the factory radio harness to the rHK2 T-harness.

STEP 3

- Plug the male BLACK 2 pin connector of the rHK2 T-harness into the OBDII harness.
- Plug the OBDII connector into the OBDII of the vehicle, located under the driver side dash.
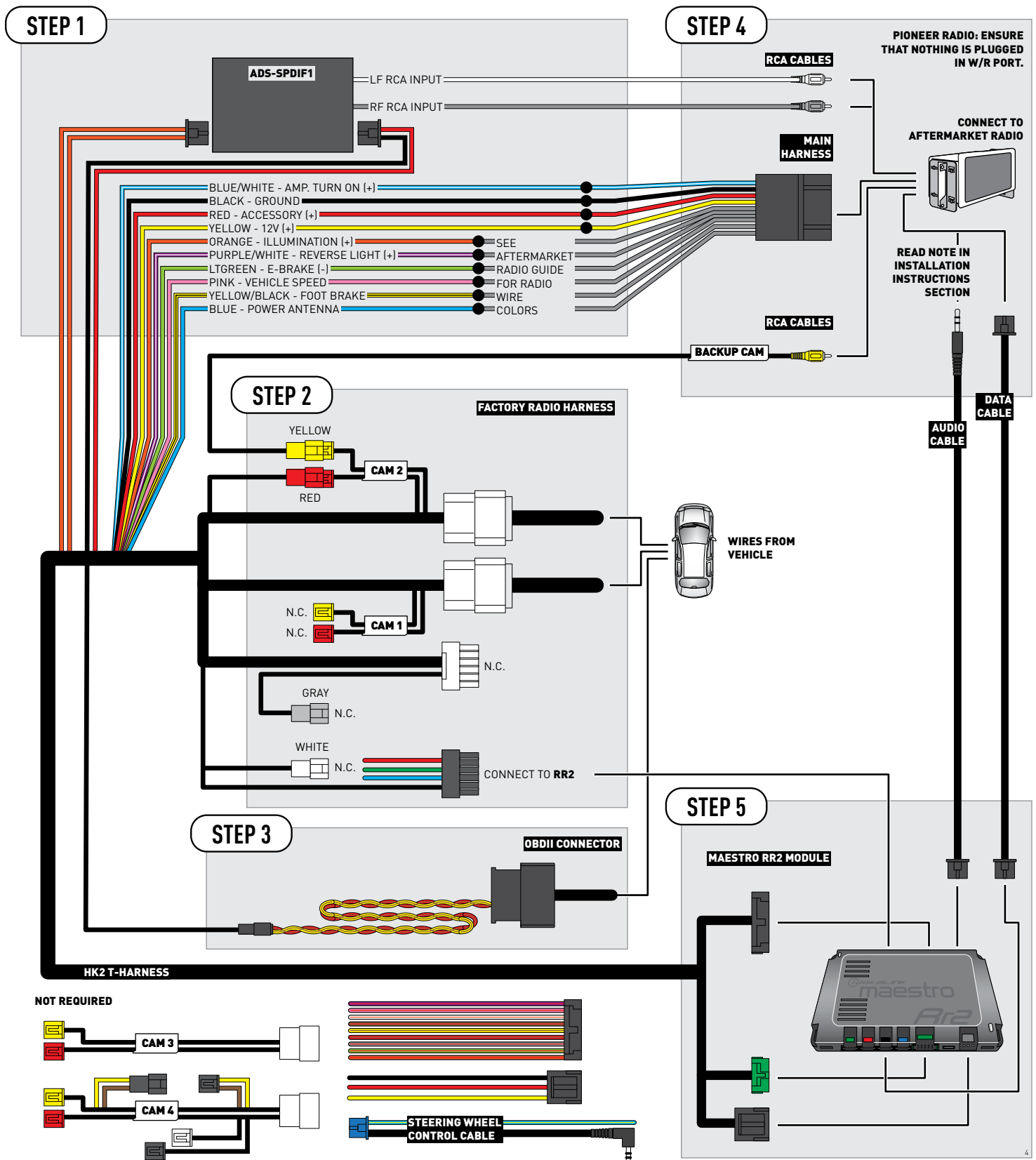
STEP 4

- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the RCA cables in the front RCA outputs of the radio.
- Plug the backup camera RCA into the aftermarket radio's backup camera input (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 RR2 module then test your installation.

4

maestro**Ar**

WIRING DIAGRAM

STEP 1

ADS-SPDIF1

LF RCA INPUT
RF RCA INPUT

STEP 4

RCA CABLES

PIONEER RADIO: ENSURE THAT NOTHING IS PLUGGED IN W/R PORT.

CONNECT TO AFTERMARKET RADIO

MAIN HARNESS

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

SEE AFTERMARKET RADIO GUIDE FOR RADIO WIRE COLORS

READ NOTE IN INSTALLATION INSTRUCTIONS SECTION

RCA CABLES

BACKUP CAM

DATA CABLE

AUDIO CABLE

STEP 2

FACTORY RADIO HARNESS

YELLOW
RED
CAM 2

WIRES FROM VEHICLE

N.C.
N.C.
CAM 1

N.C.

GRAY N.C.

WHITE N.C.

CONNECT TO **RR2**

STEP 5

MAESTRO RR2 MODULE

STEP 3

OBDII CONNECTOR

HK2 T-HARNESS

NOT REQUIRED

CAM 3

CAM 4

STEERING WHEEL CONTROL CABLE

maestro **Ar2**

4

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 OBDII connector is securely attached to the OBDII connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the **BROWN/RED** wire is on **PIN 6** and the **BROWN/YELLOW** wire is connected to **PIN 14** of the OBDII connector. 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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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 rHK2 T-harness and match the wire functions.
- Connect the rHK2 T-harness and the RCA cables to the ADS-SPDIF1.

Note: Isolate (tape) unused wires, if applicable.

STEP 2

- Remove the factory radio.
- Assemble the rHK2 T-harness as shown in wiring diagram (If there is an OEM camera, connect the backup cam rca cable to the rHK2 T-harness, as shown).
- Connect the factory radio harness to the rHK2 T-harness.

STEP 3

- Plug the male BLACK 2 pin connector of the rHK2 T-harness into the OBDII harness.
- Plug the OBDII connector into the OBDII of the vehicle, located under the driver side dash.
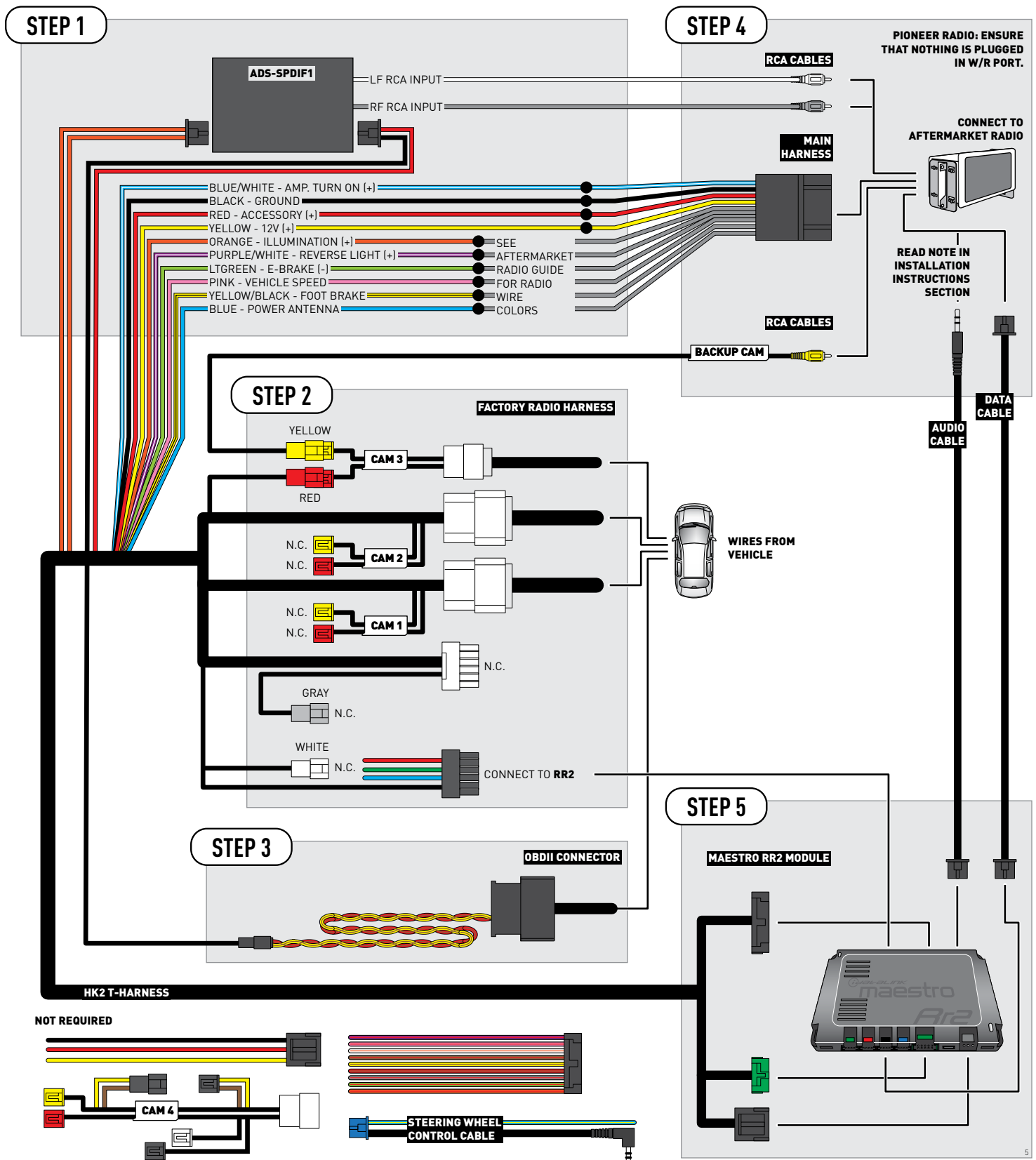
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- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the RCA cables in the front RCA outputs of the radio.
- Plug the backup camera RCA into the aftermarket radio's backup camera input (if applicable).
- Plug the Data cable 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 RR2 module then test your installation.

5

WIRING DIAGRAM

STEP 1

ADS-SPDIF1

LF RCA INPUT
RF RCA INPUT

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

SEE
AFTERMARKET
RADIO GUIDE
FOR RADIO
WIRE
COLORS

STEP 4

RCA CABLES

MAIN HARNESS

RCA CABLES

BACKUP CAM

PIONEER RADIO: ENSURE THAT NOTHING IS PLUGGED IN W/R PORT.

CONNECT TO AFTERMARKET RADIO

READ NOTE IN INSTALLATION INSTRUCTIONS SECTION

DATA CABLE

AUDIO CABLE

STEP 2

FACTORY RADIO HARNESS

YELLOW
CAM 3
RED

N.C.
CAM 2
N.C.

N.C.
CAM 1
N.C.

WIRES FROM VEHICLE

N.C.

GRAY
N.C.

WHITE
N.C.
CONNECT TO **RR2**

STEP 5

MAESTRO RR2 MODULE

STEP 3

OBDII CONNECTOR

HK2 T-HARNESS

NOT REQUIRED

CAM 4

STEERING WHEEL
CONTROL CABLE

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 OBDII connector is securely attached to the OBDII connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the **BROWN/RED** wire is on **PIN 6** and the **BROWN/YELLOW** wire is connected to **PIN 14** of the OBDII connector. 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.
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.