



HOW TO USE THIS INSTALL GUIDE

- 1** Open the Bookmarks menu and find your vehicle OR scroll down until you find the install guide for your vehicle.
- 2** Print only the pages for your vehicle using the advanced options in the Print menu.
- 3** Install your Maestro RR according to the guide for your vehicle.

WARNING

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

RETAINS STEERING WHEEL CONTROLS AND MORE!



PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro HRR-NI2 Installation Harness
non-iDatalink radio

PROGRAMMED FIRMWARE

ADS-RR(SR)-NI01-AS

ADDITIONAL RESOURCES

[Maestro RR2 Programmable Outputs Guide](#)

OPTIONAL ACCESSORIES

HEAD UNIT ADAPTER:
ACC-HU-PI01, SON1, KEN1, KEN2, ALP1

WELCOME

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

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

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

NEED HELP?

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INSTALLATION INSTRUCTIONS P1/1

STEP 1

Remove the factory radio

If using head unit adapter (sold separately), connect HRR-NI2 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-NI2 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-NI2 T-harness and match the wire functions.

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

STEP 2

- Plug in the 4-pin white connectors.
- Plug in the 4-pin green connectors.
- Cut the brown/red and brown/yellow wires on HRR-NI2 T-harness near the 10-pin white connector. Tape up the 10-pin side of the cut wires.
- Extend the othe side of the brown/red and brown/yellow wires to radio 40-pin OEM connector.
- Connect brown/red wire to purple/light blue wire, pin 21.
- Connect brown/yellow wire to purple/light green wire, pin 1.
- Plug in the 10-pin white connector from cable B to NI2 main harness.
- Connect both the 20-pin and 40-pin connectors of HRR-NI2 T-harness to the factory radio harness.
- Cut red/brown and yellow/brown wires on cable B near the 2-pin connector. Discard the 2-pin connector.

STEP 3

- Extend the othe side of the red/brown and yellow/brown wires to BCM 40-pin green connector (refer to diagram).
- Connect red/brown wire to blue or purple/blue wire, pin 20.
- Connect yellow/brown wire to pink or purple/pink wire, pin 40.

STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup cam cable into the aftermarket radio

(if equipped).

- Connect either the blue/yellow wire (Kenwood/JVC) or the 3.5mm to the steering control input of the radio.

STEP 6

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

360 camera controls (with vehicle in reverse)

SEEK UP - change view

SEEK DOWN - change view

To set CLOCK in instrument cluster:

- Turn ignition on
 - Press foot brake 5 times and HOLD on the 5th push.
 - Apply parking/e-brake and keep holding the foot brake.
- Press **VOLUME UP** or **DOWN** to adjust minutes
- Press **SEEK UP** to adjust hour
- Press **SEEK DOWN** for AM/PM vs 24hr clock display
- Release foot brake and clock is set.

Steering wheel control note

To use "**SOURCE**" steering wheel button to change radio source:

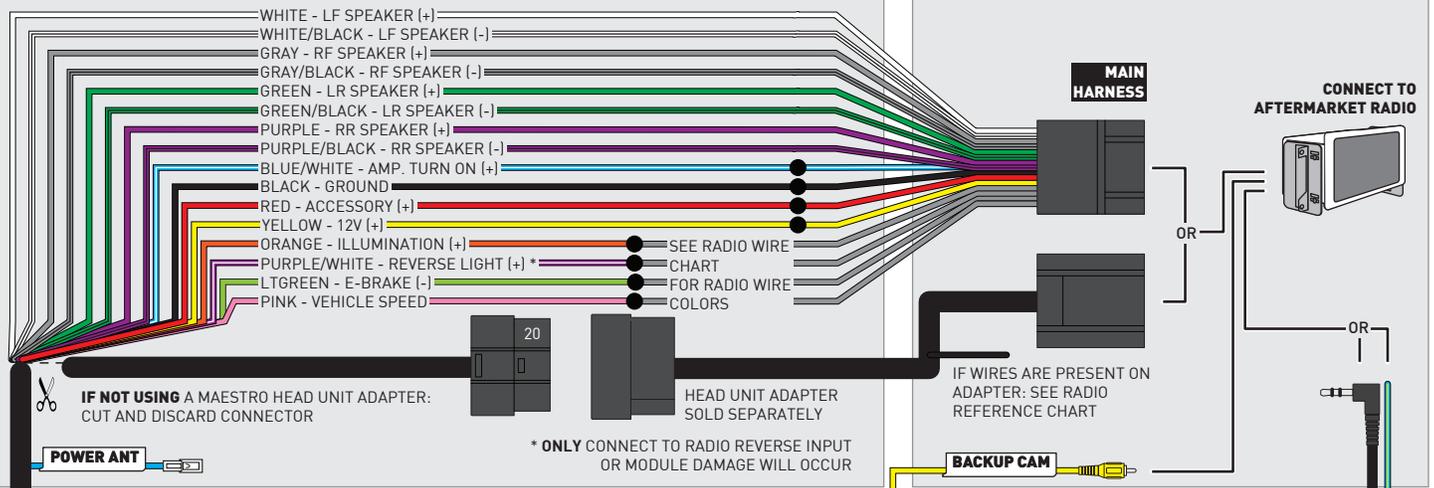
- Press SOURCE button on wheel.
- Instrument cluster will display "Music Box."
- Press OK button on wheel.

Repeat as needed to cycle through all sources on the radio.

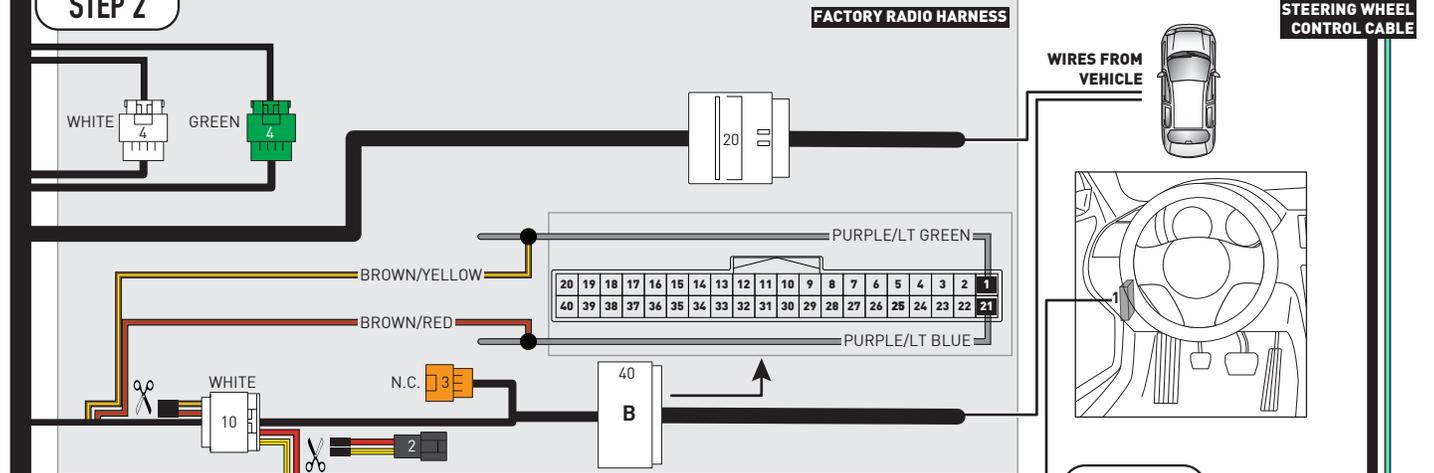
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WIRING DIAGRAM

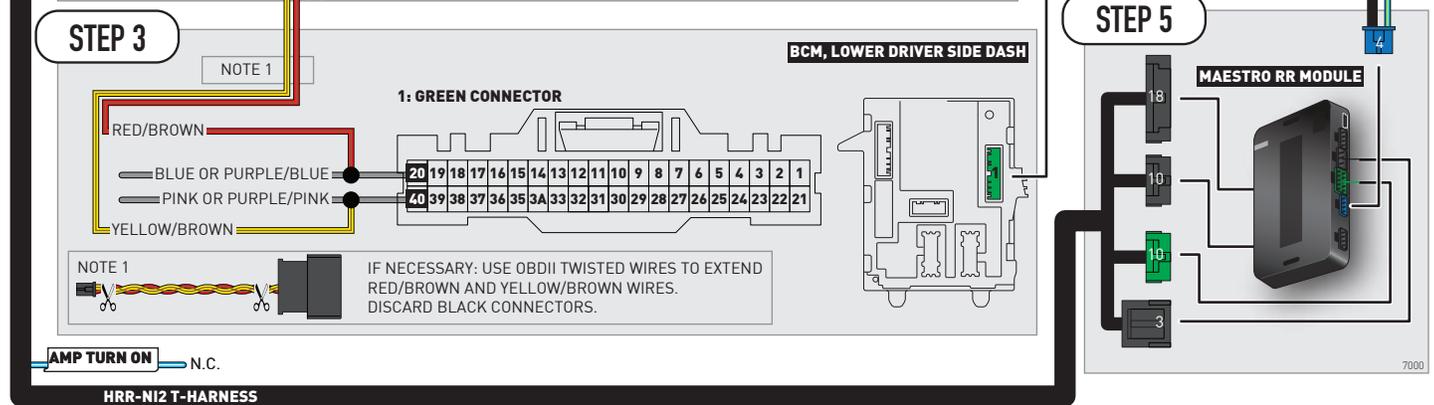
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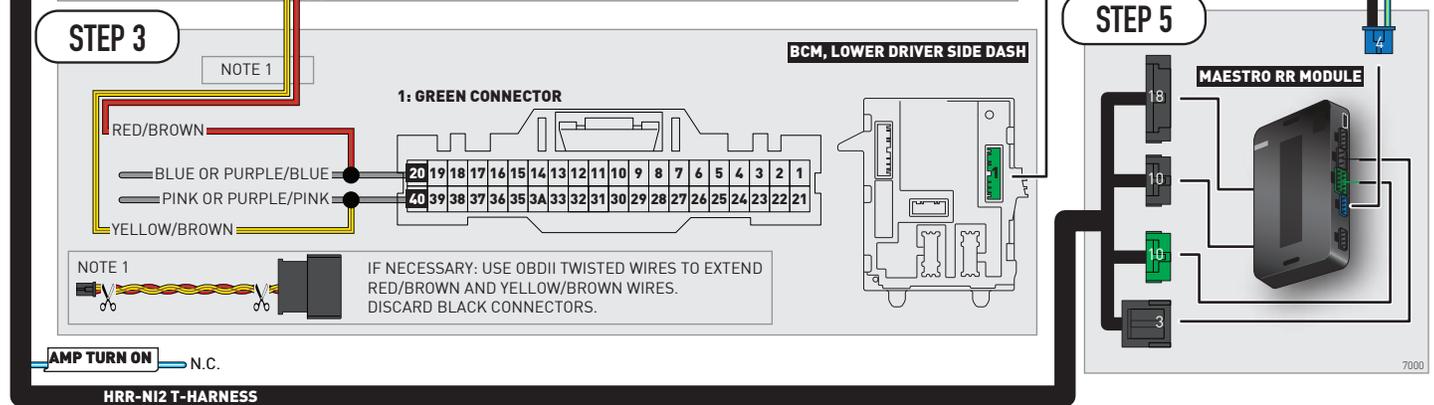
STEP 2



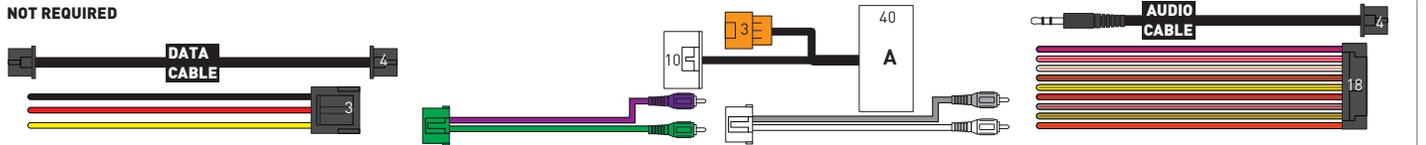
STEP 3



STEP 5



NOT REQUIRED



RADIO WIRE REFERENCE CHART

NI2 T-harness 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
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A
Power Antenna	(+)	Blue	Blue	Blue	Blue/White	Blue or Blue/White

Head unit adapter wiring (optional accessory, sold separately)

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

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

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

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

MODULE DIAGNOSTICS



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

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

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	<p>Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both.</p> <p>Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used.</p> <p>Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button.</p> <p>Refer to radio's owner's manual to verify if the radio has this function:</p> <ul style="list-style-type: none"> • JVC/Kenwood : Steering Wheel Control (ON/OFF): choose ON • Nakamichi : if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu. • Sony : Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu. • Other brands – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.
Backup camera is not displayed.	<p>If radio doesn't switch to camera input, ensure purple/white from the N12 harness is connected ONLY to radio reverse input wire. Do not power a camera off it.</p> <p>If radio switches to blank image, verify yellow "BACK UP CAMERA" RCA is connected to the correct input. Most radios have a yellow "R CAM" or "CAM" input. Pioneer models may use a brown "BC IN" input.</p>
The radio does not turn ON.	<p>If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully.</p> <p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p>
The steering wheel controls or accessory power are not working.	<p>Verify module has been programmed.</p> <p>Turn vehicle off, unplug all RR connections and hold the button while plugging all connectors back in. Release the button when the LED on module flashes rapidly RED. Ensure all connectors are fully seated and turn the vehicle back on.</p> <p>CAN connections may require wiring to another location so ensure the correct vehicle guide is being followed.</p>

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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2019-2022

NISSAN ALTIMA

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STEP 1

Remove the factory radio

If using head unit adapter (sold separately), connect HRR-NI2 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-NI2 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-NI2 T-harness and match the wire functions.

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

STEP 2

- Unlug the HRR-NI2 4-pin white and 4-pin green connectors.
- Connect the HRR-NI2 4-pin white to 4-pin white connector with RCAs. Connect the 4-pin green to 4-pin green connector with RCAs.
- Connect the RCAs to the radio outputs: white/left front, gray/right front, green/left rear, purple/right rear.

STEP 3

- Plug in the 10-pin white connector from cable A to NI2 main harness.
- Connect both the 20-pin and 40-pin connectors of HRR-NI2 T-harness to the factory radio harness.
- Cut red/brown and yellow/brown wires on cable A near the 40-pin connector. Tape up the 40-pin side of the cut wires.

STEP 4

- Extend the othe side of the red/brown and yellow/brown wires to BCM 40-pin green connector (refer to diagram).
- Connect red/brown wire to blue or purple/blue wire, pin 20.
- Connect yellow/brown wire to pink or purple/pink wire, pin 40.

STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup cam cable into the aftermarket radio (if equipped).

- Connect either the blue/yellow wire (Kenwood/JVC) or the 3.5mm to the steering control input of the radio.

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

360 camera controls (with vehicle in reverse)

SEEK UP - change view

SEEK DOWN - change view

To set **CLOCK** in instrument cluster:

- Turn ignition on
- Press foot brake 5 times and HOLD on the 5th push.
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Press **VOLUME UP** or **DOWN** to adjust minutes

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Press **SEEK DOWN** for AM/PM vs 24hr clock display

- Release foot brake and clock is set.

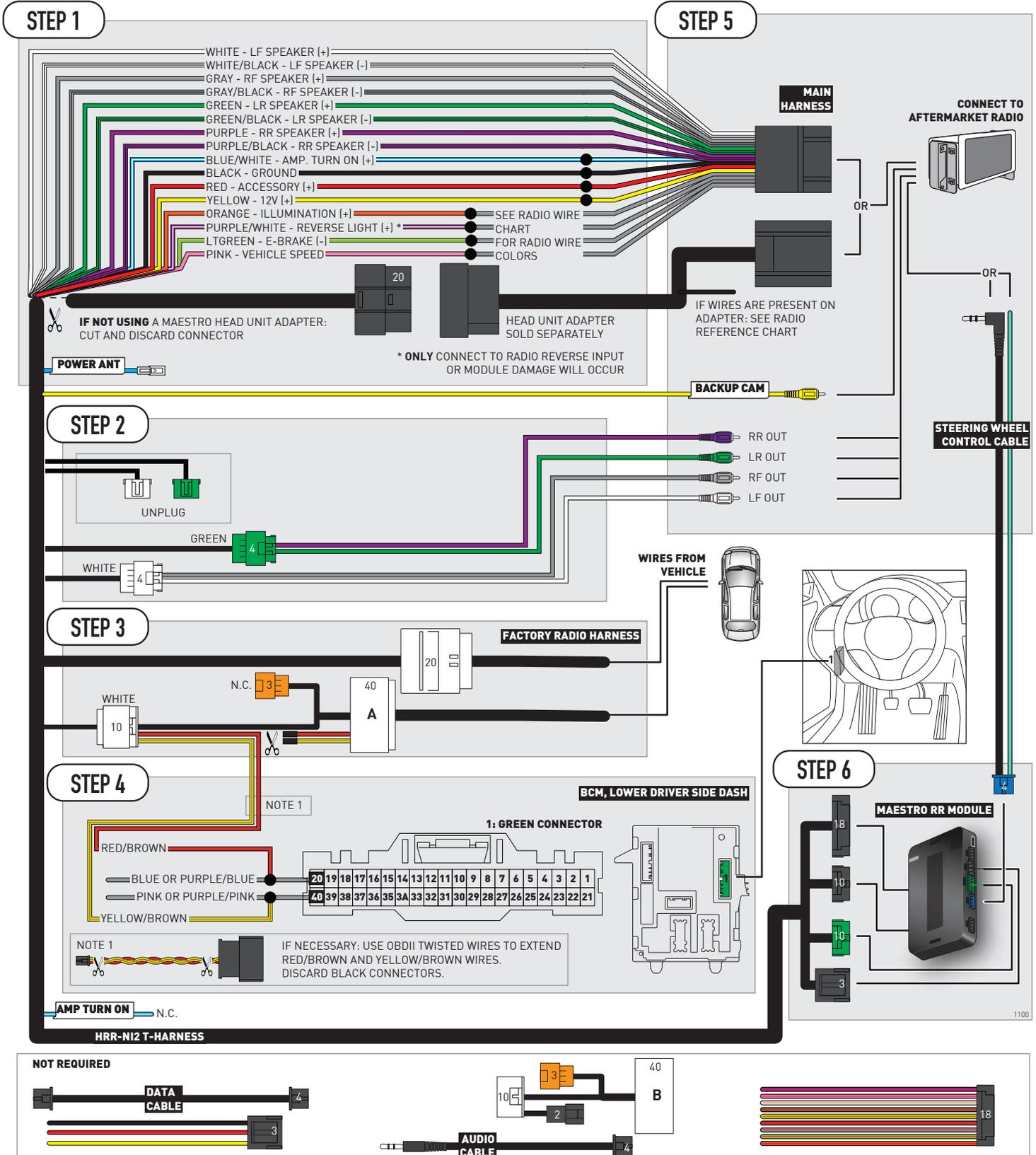
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To use "**SOURCE**" steering wheel button to change radio source:

- Press SOURCE button on wheel.
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Repeat as needed to cycle through all sources on the radio.

WIRING DIAGRAM



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Illumination	(+)	Orange	N/A	Orange/White	Orange/White	Orange
Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A
Power Antenna	(+)	Blue	Blue	Blue	Blue/White	Blue or Blue/White

Head unit adapter wiring (optional accessory, sold separately)

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		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do <u>NOT</u> use DEMO MODE.
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- Cut and remove the black 20 pin connector from the HRR-NI2 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-NI2 T-harness and match the wire functions.

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

STEP 2

- Plug in the 4-pin white connectors.
- Plug in the 4-pin green connectors.

STEP 3

- Plug in the 10-pin white connector from cable A to NI2 main harness.
- Connect both the 20-pin and 40-pin connectors of HRR-NI2 T-harness to the factory radio harness.
- Cut red/brown and yellow/brown wires on cable A near the 40-pin connector. Tape up the 40-pin side of the cut wires.

STEP 4

- Extend the othe side of the red/brown and yellow/brown wires to BCM 40-pin green connector (refer to diagram).
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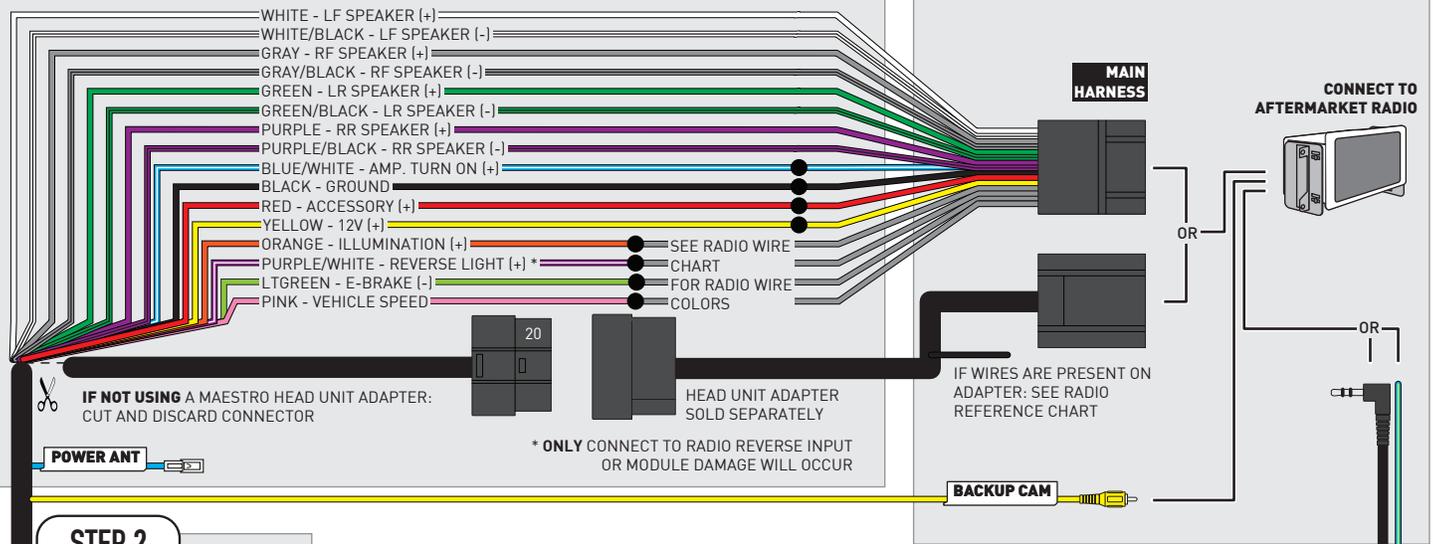
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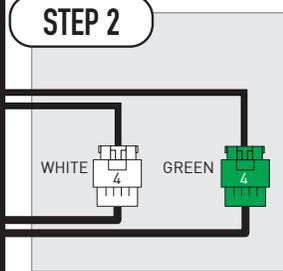
WIRING DIAGRAM

STEP 1

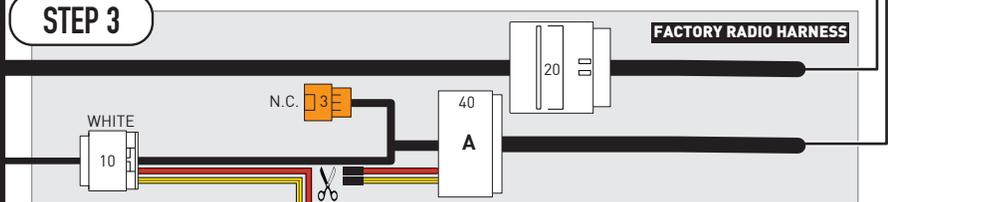


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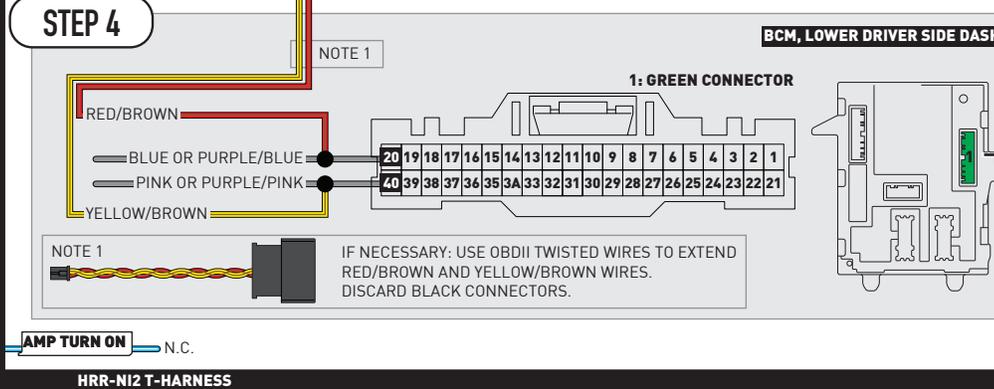
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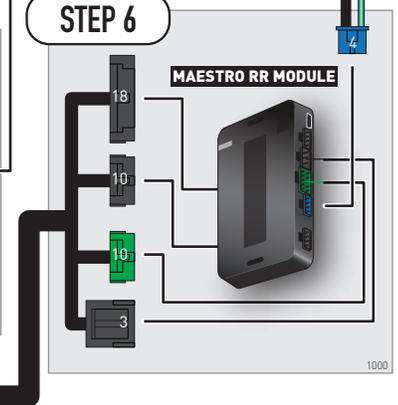
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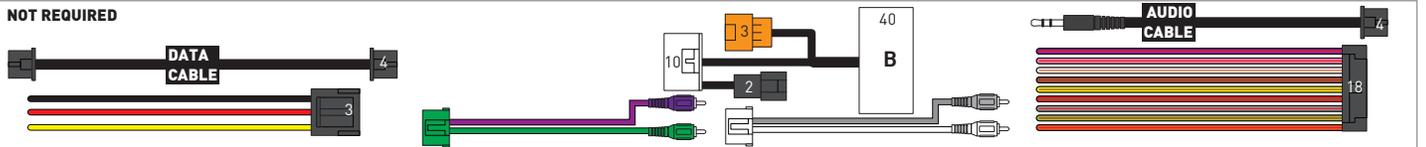
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Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A
Power Antenna	(+)	Blue	Blue	Blue	Blue/White	Blue or Blue/White

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TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	<p>Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both.</p> <p>Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used.</p> <p>Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button.</p> <p>Refer to radio's owner's manual to verify if the radio has this function:</p> <ul style="list-style-type: none"> • JVC/Kenwood : Steering Wheel Control (ON/OFF): choose ON • Nakamichi : if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu. • Sony : Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu. • Other brands – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.
Backup camera is not displayed.	<p>If radio doesn't switch to camera input, ensure purple/white from the NI2 harness is connected ONLY to radio reverse input wire. Do not power a camera off it.</p> <p>If radio switches to blank image, verify yellow "BACK UP CAMERA" RCA is connected to the correct input. Most radios have a yellow "R CAM" or "CAM" input. Pioneer models may use a brown "BC IN" input.</p>
The radio does not turn ON.	<p>If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully.</p> <p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p>
The steering wheel controls or accessory power are not working.	<p>Verify module has been programmed.</p> <p>Turn vehicle off, unplug all RR connections and hold the button while plugging all connectors back in. Release the button when the LED on module flashes rapidly RED. Ensure all connectors are fully seated and turn the vehicle back on.</p> <p>CAN connections may require wiring to another location so ensure the correct vehicle guide is being followed.</p>

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 AND MORE!



PRODUCTS REQUIRED

iDataLink Maestro RR or RR2 Radio Replacement Interface
iDataLink Maestro HRR-NI2 Installation Harness
non-iDataLink radio

PROGRAMMED FIRMWARE

ADS-RR(SR)-NI01-AS

ADDITIONAL RESOURCES

[Maestro RR2 Programmable Outputs Guide](#)

OPTIONAL ACCESSORIES

HEAD UNIT ADAPTER:
ACC-HU-PI01, SON1, KEN1, KEN2, ALP1

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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Module Diagnostics	6
Troubleshooting Table	7

NEED HELP?

 1 866 427-2999

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INSTALLATION INSTRUCTIONS P1/1

STEP 1

Remove the factory radio

If using head unit adapter (sold separately), connect HRR-NI2 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-NI2 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-NI2 T-harness and match the wire functions.

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

STEP 2

- Plug in the 4-pin white connectors.
- Plug in the 4-pin green connectors.

STEP 3

- Plug in the 10-pin white connector from cable B to NI2 main harness.
- Connect both the 20-pin and 40-pin connectors of HRR-NI2 T-harness to the factory radio harness.
- Cut red/brown and yellow/brown wires on cable B near the 2-pin connector. Discard the 2-pin connector.

STEP 4

- Extend the othe side of the red/brown and yellow/brown wires to BCM 40-pin black connector (refer to diagram).
- Connect red/brown wire to blue wire, pin 20.
- Connect yellow/brown wire to pink wire, pin 19.

STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup cam cable into the aftermarket radio (if equipped).
- Connect either the blue/yellow wire (Kenwood/JVC) or the 3.5mm **to the** steering control input of the radio.

STEP 6

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

360 camera controls (with vehicle in reverse)

SEEK UP - change view

SEEK DOWN - change view

To set **CLOCK** in instrument cluster:

- Turn ignition on
- Press foot brake 5 times and **HOLD** on the 5th push.
- Apply parking/e-brake and keep holding the foot brake.

Press **VOLUME UP** or **DOWN** to adjust minutes

Press **SEEK UP** to adjust hour

Press **SEEK DOWN** for AM/PM vs 24hr clock display

- Release foot brake and clock is set.

Steering wheel control note

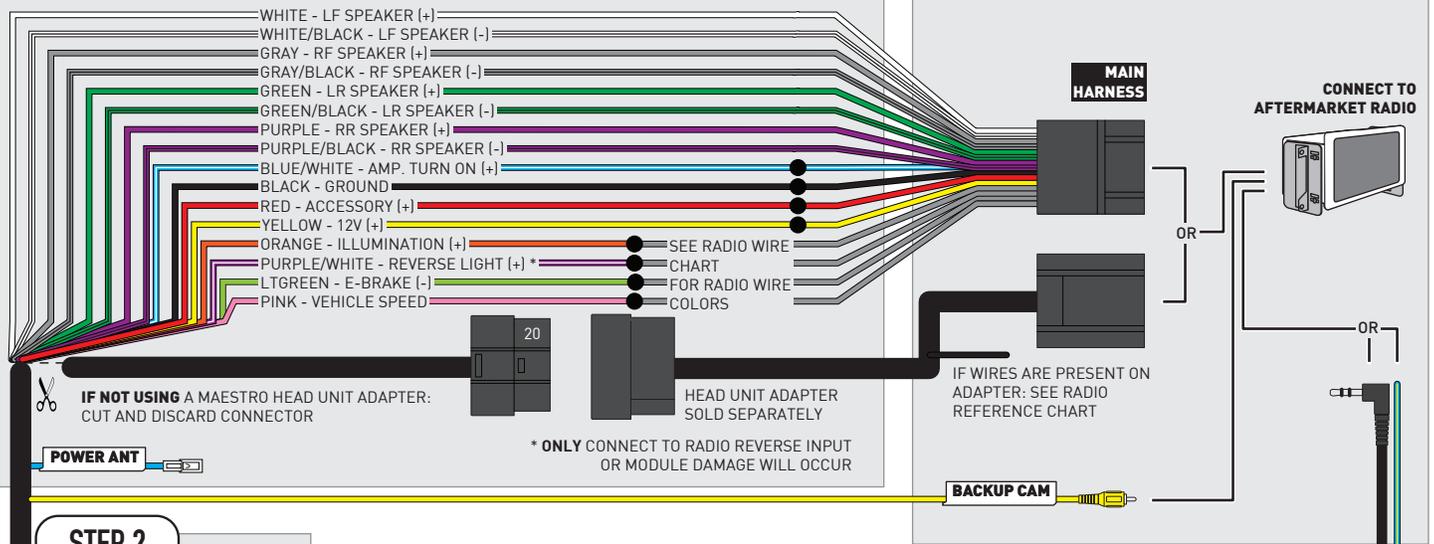
To use "**SOURCE**" steering wheel button to change radio source:

- Press **SOURCE** button on wheel.
- Instrument cluster will display "Music Box."
- Press **OK** button on wheel.

Repeat as needed to cycle through all sources on the radio.

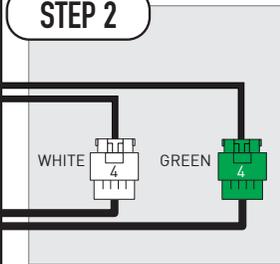
WIRING DIAGRAM

STEP 1

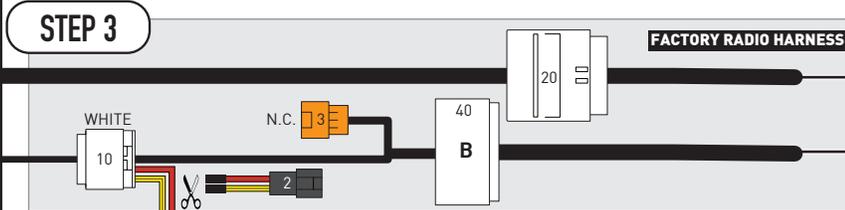


STEP 5

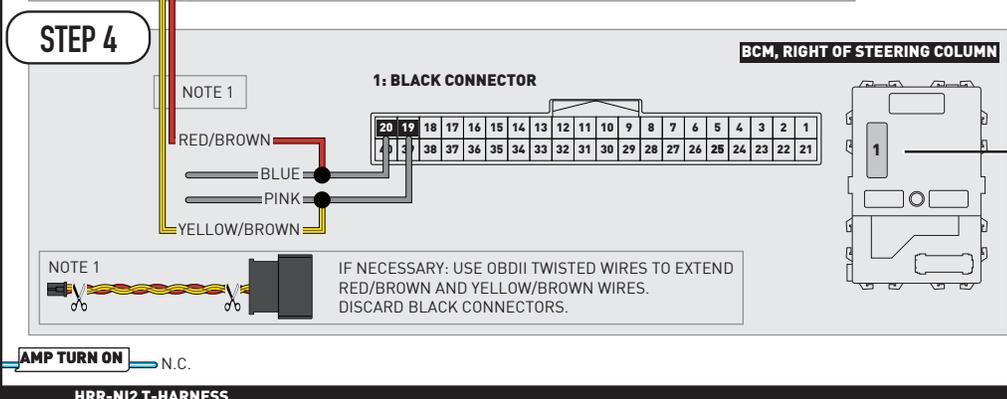
STEP 2



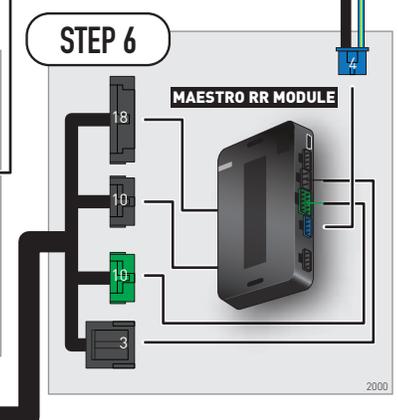
STEP 3



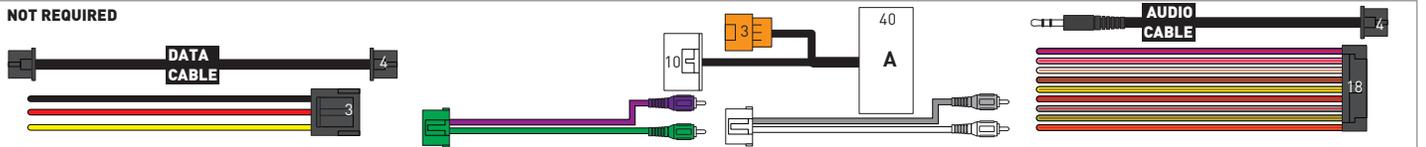
STEP 4



STEP 6



NOT REQUIRED



RADIO WIRE REFERENCE CHART

NI2 T-harness 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
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A
Power Antenna	(+)	Blue	Blue	Blue	Blue/White	Blue or Blue/White

Head unit adapter wiring (optional accessory, sold separately)

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

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

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

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

MODULE DIAGNOSTICS



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

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

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	<p>Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both.</p> <p>Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used.</p> <p>Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button.</p> <p>Refer to radio's owner's manual to verify if the radio has this function:</p> <ul style="list-style-type: none"> • JVC/Kenwood : Steering Wheel Control (ON/OFF): choose ON • Nakamichi : if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu. • Sony : Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu. • Other brands – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.
Backup camera is not displayed.	<p>If radio doesn't switch to camera input, ensure purple/white from the N12 harness is connected ONLY to radio reverse input wire. Do not power a camera off it.</p> <p>If radio switches to blank image, verify yellow "BACK UP CAMERA" RCA is connected to the correct input. Most radios have a yellow "R CAM" or "CAM" input. Pioneer models may use a brown "BC IN" input.</p>
The radio does not turn ON.	<p>If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully.</p> <p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p>
The steering wheel controls or accessory power are not working.	<p>Verify module has been programmed.</p> <p>Turn vehicle off, unplug all RR connections and hold the button while plugging all connectors back in. Release the button when the LED on module flashes rapidly RED. Ensure all connectors are fully seated and turn the vehicle back on.</p> <p>CAN connections may require wiring to another location so ensure the correct vehicle guide is being followed.</p>

MAESTRO RR RESET PROCEDURE:

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

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

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

TECHNICAL ASSISTANCE

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Email: maestro.support@idatalink.com

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

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2022

NISSAN FRONTIER
7INCH TOUCHSCREEN

RETAINS STEERING WHEEL CONTROLS AND MORE!



PRODUCTS REQUIRED

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iDatalink Maestro HRR-NI2 Installation Harness
non-iDatalink radio

PROGRAMMED FIRMWARE

ADS-RR(SR)-NI01-AS

ADDITIONAL RESOURCES

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OPTIONAL ACCESSORIES

HEAD UNIT ADAPTER:
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WELCOME

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INSTALLATION INSTRUCTIONS P1/1

STEP 1

Remove the factory radio

If using head unit adapter (sold separately), connect HRR-NI2 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-NI2 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-NI2 T-harness and match the wire functions.

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

STEP 2

- Plug in the 4-pin white connectors.
- Plug in the 4-pin green connectors.

STEP 3

- Plug in the 10-pin white connector from cable A to NI2 main harness.
- Connect both the 20-pin and 40-pin connectors of HRR-NI2 T-harness to the factory radio harness.
- Cut red/brown and yellow/brown wires on cable A near the 40-pin connector. Tape up the 40-pin side of the cut wires.

STEP 4

- Extend the othe side of the red/brown and yellow/brown wires to BCM 40-pin black connector (refer to diagram).
- Connect red/brown wire to blue wire, pin 20.
- Connect yellow/brown wire to pink wire, pin 19.

STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup cam cable into the aftermarket radio (if equipped).
- Connect either the blue/yellow wire (Kenwood/JVC) or the 3.5mm to the steering control input of the radio.

STEP 6

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

360 camera controls (with vehicle in reverse)

SEEK UP - change view

SEEK DOWN - change view

To set CLOCK in instrument cluster:

- Turn ignition on
- Press foot brake 5 times and HOLD on the 5th push.
- Apply parking/e-brake and keep holding the foot brake.

Press **VOLUME UP** or **DOWN** to adjust minutes

Press **SEEK UP** to adjust hour

Press **SEEK DOWN** for AM/PM vs 24hr clock display

- Release foot brake and clock is set.

Steering wheel control note

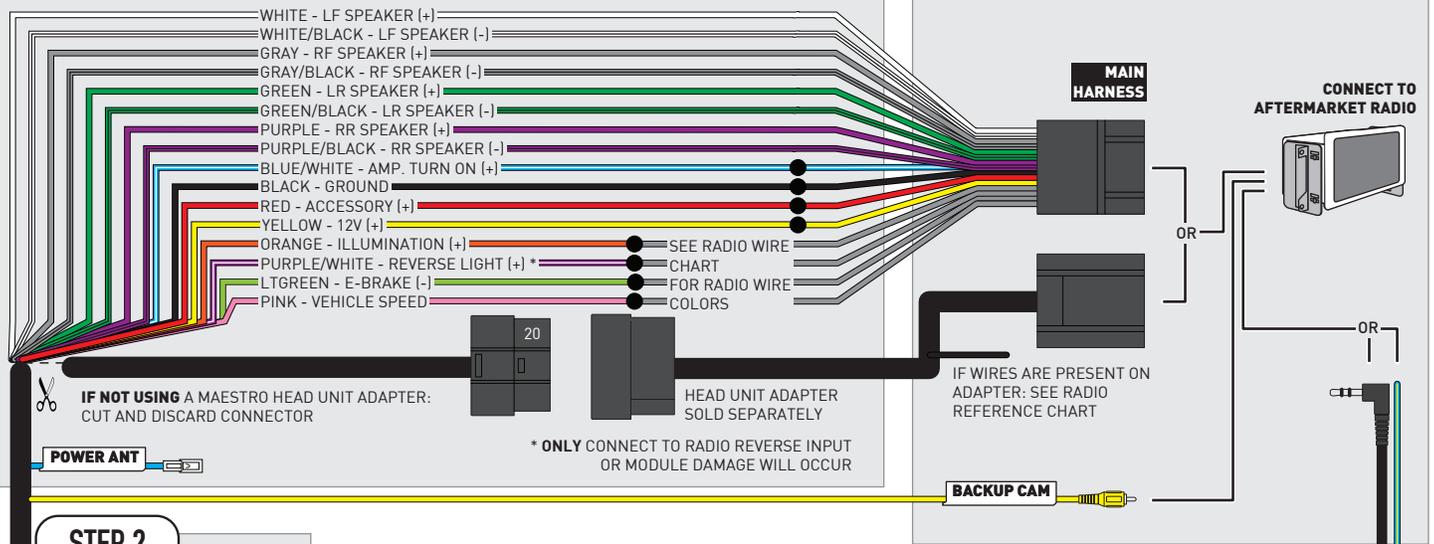
To use "SOURCE" steering wheel button to change radio source:

- Press SOURCE button on wheel.
- Instrument cluster will display "Music Box."
- Press OK button on wheel.

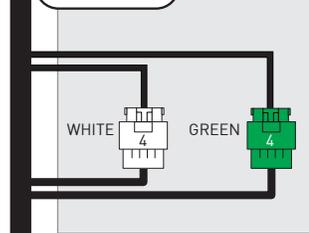
Repeat as needed to cycle through all sources on the radio.

WIRING DIAGRAM

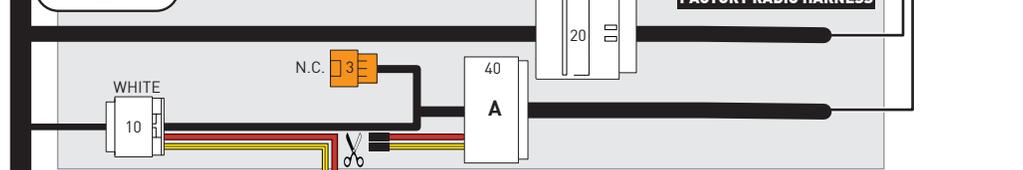
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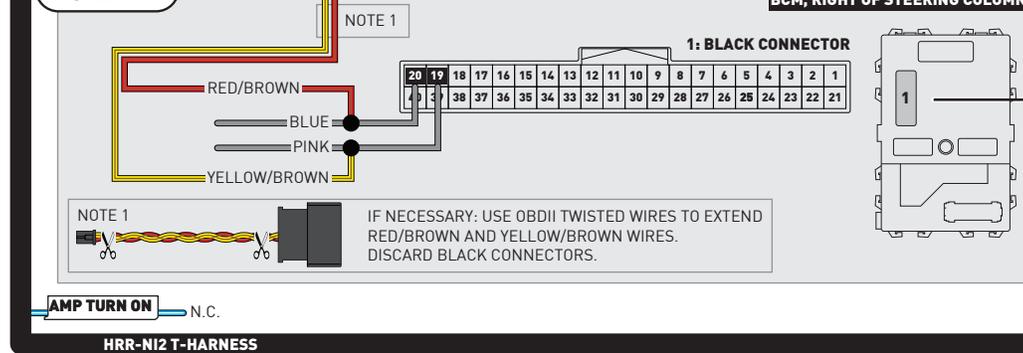
STEP 2



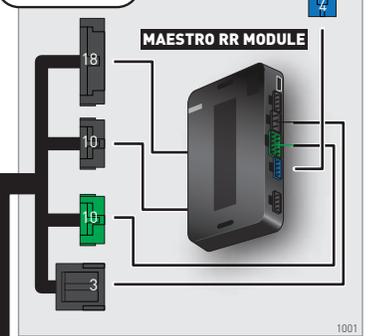
STEP 3



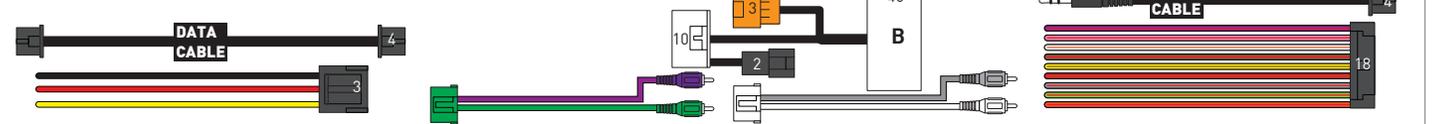
STEP 4



STEP 6



NOT REQUIRED



RADIO WIRE REFERENCE CHART

NI2 T-harness 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
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A
Power Antenna	(+)	Blue	Blue	Blue	Blue/White	Blue or Blue/White

Head unit adapter wiring (optional accessory, sold separately)

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

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

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

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

MODULE DIAGNOSTICS



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

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

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	<p>Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both.</p> <p>Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used.</p> <p>Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button.</p> <p>Refer to radio's owner's manual to verify if the radio has this function:</p> <ul style="list-style-type: none"> • JVC/Kenwood : Steering Wheel Control (ON/OFF): choose ON • Nakamichi : if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu. • Sony : Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu. • Other brands – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.
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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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2018-2022

NISSAN KICKS

7INCH TOUCHSCREEN WITH BOSE

RETAINS STEERING WHEEL CONTROLS AND MORE!



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INSTALLATION INSTRUCTIONS P1/1

STEP 1

Remove the factory radio

If using head unit adapter (sold separately), connect HRR-NI2 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-NI2 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-NI2 T-harness and match the wire functions.

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

STEP 2

- Unlug the HRR-NI2 4-pin white and 4-pin green connectors.
- Connect the HRR-NI2 4-pin white to 4-pin white connector with RCAs. Connect the 4-pin green to 4-pin green connector with RCAs.
- Connect the RCAs to the radio outputs: white/left front, gray/right front, green/left rear, purple/right rear.

STEP 3

- Plug in the 10-pin white connector from cable A to NI2 main harness.
- Connect both the 20-pin and 40-pin connectors of HRR-NI2 T-harness to the factory radio harness.
- Cut red/brown and yellow/brown wires on cable A near the 40-pin connector. Tape up the 40-pin side of the cut wires.

STEP 4

- Extend the othe side of the red/brown and yellow/brown wires to smart-key module 40-pin black connector (refer to diagram).
- Connect red/brown wire to blue wire, pin 6.
- Connect yellow/brown wire to pink wire, pin 7.

STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup cam cable into the aftermarket radio (if equipped).

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Press **SEEK UP** to adjust hour

Press **SEEK DOWN** for AM/PM vs 24hr clock display

- Release foot brake and clock is set.

Steering wheel control note

To use "**SOURCE**" steering wheel button to change radio source:

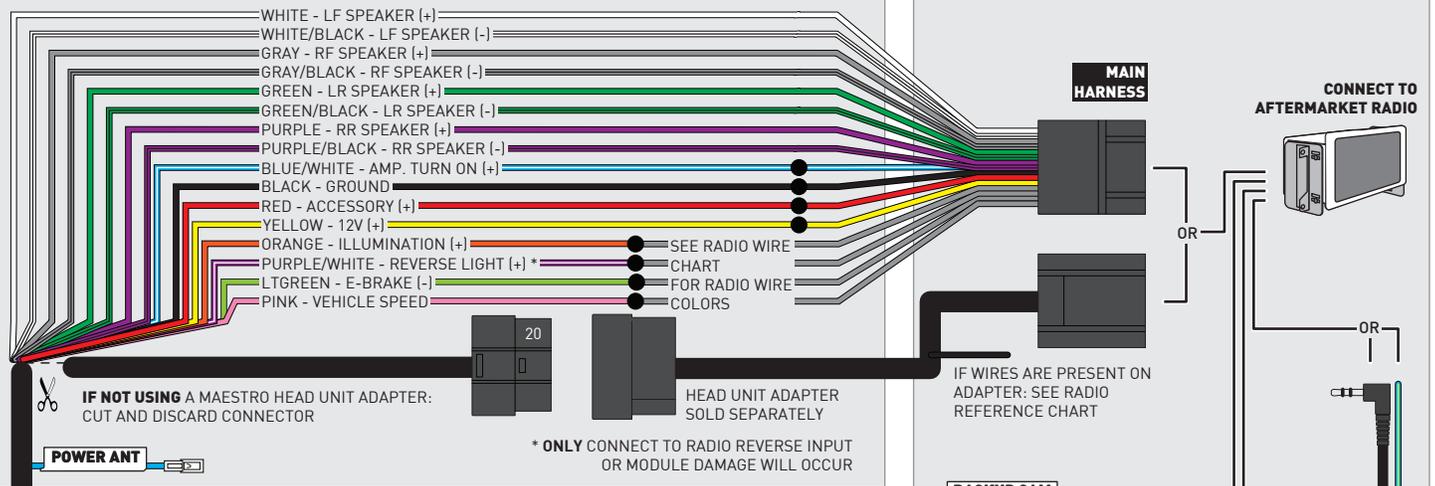
- Press SOURCE button on wheel.
- Instrument cluster will display "Music Box."
- Press OK button on wheel.

Repeat as needed to cycle through all sources on the radio.

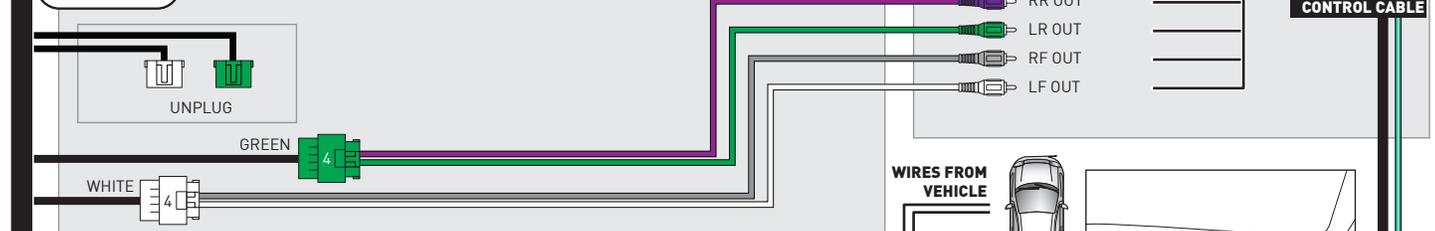
WIRING DIAGRAM

STEP 1

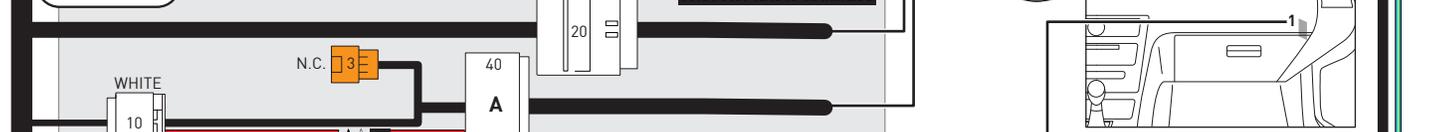
STEP 5



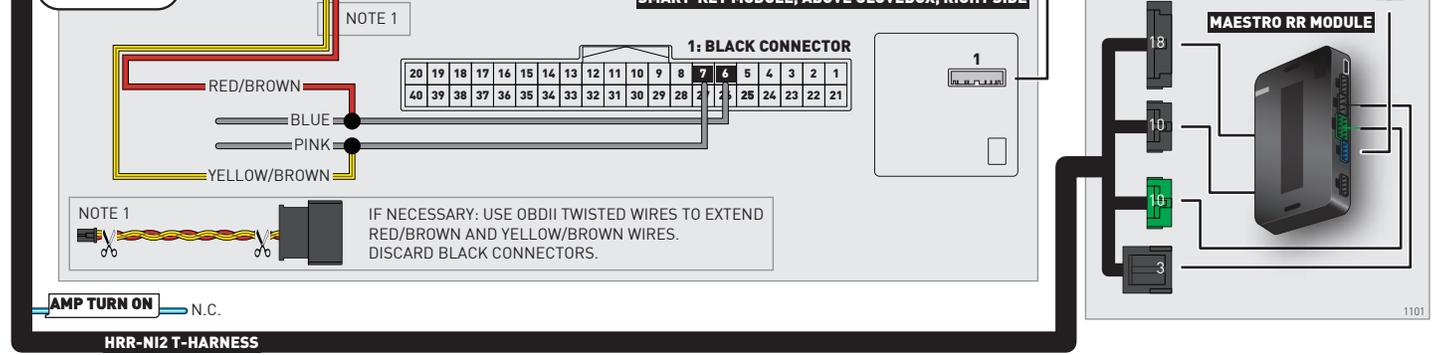
STEP 2



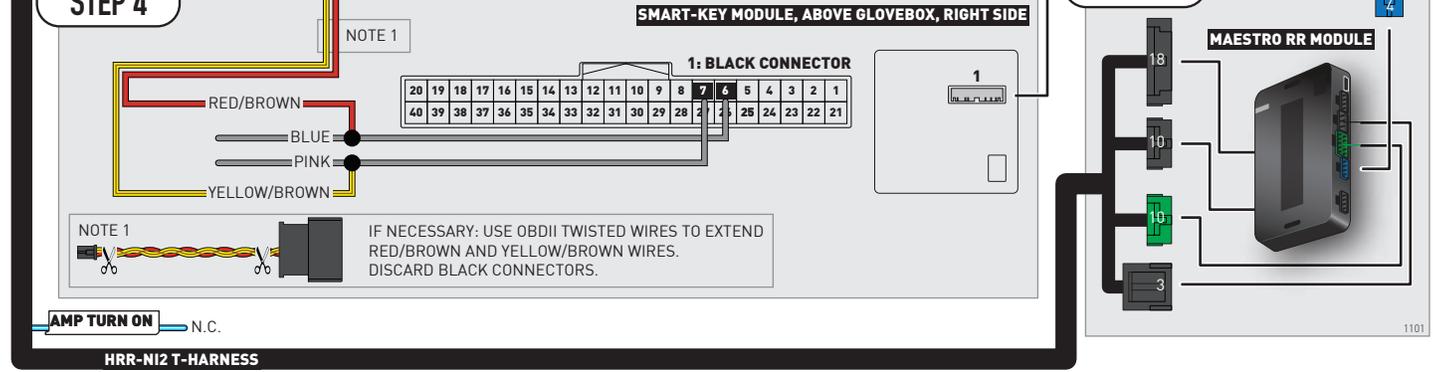
STEP 3



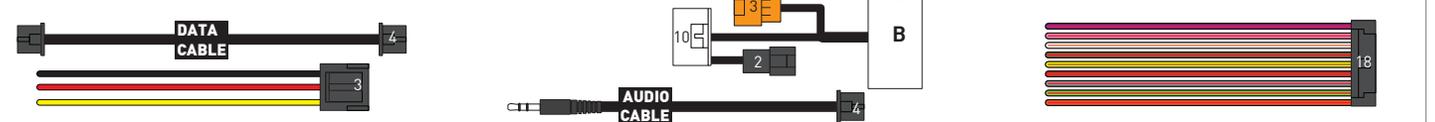
STEP 4



STEP 6



NOT REQUIRED



RADIO WIRE REFERENCE CHART

NI2 T-harness 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
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A
Power Antenna	(+)	Blue	Blue	Blue	Blue/White	Blue or Blue/White

Head unit adapter wiring (optional accessory, sold separately)

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

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

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

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

MODULE DIAGNOSTICS



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

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

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	<p>Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both.</p> <p>Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used.</p> <p>Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button.</p> <p>Refer to radio's owner's manual to verify if the radio has this function:</p> <ul style="list-style-type: none"> • JVC/Kenwood : Steering Wheel Control (ON/OFF): choose ON • Nakamichi : if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu. • Sony : Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu. • Other brands – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.
Backup camera is not displayed.	<p>If radio doesn't switch to camera input, ensure purple/white from the N12 harness is connected ONLY to radio reverse input wire. Do not power a camera off it.</p> <p>If radio switches to blank image, verify yellow "BACK UP CAMERA" RCA is connected to the correct input. Most radios have a yellow "R CAM" or "CAM" input. Pioneer models may use a brown "BC IN" input.</p>
The radio does not turn ON.	<p>If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully.</p> <p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p>
The steering wheel controls or accessory power are not working.	<p>Verify module has been programmed.</p> <p>Turn vehicle off, unplug all RR connections and hold the button while plugging all connectors back in. Release the button when the LED on module flashes rapidly RED. Ensure all connectors are fully seated and turn the vehicle back on.</p> <p>CAN connections may require wiring to another location so ensure the correct vehicle guide is being followed.</p>

MAESTRO RR RESET PROCEDURE:

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

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

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

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

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

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

RETAINS STEERING WHEEL CONTROLS AND MORE!



PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro HRR-NI2 Installation Harness
non-iDatalink radio

PROGRAMMED FIRMWARE

ADS-RR(SR)-NI01-AS

ADDITIONAL RESOURCES

[Maestro RR2 Programmable Outputs Guide](#)

OPTIONAL ACCESSORIES

HEAD UNIT ADAPTER:
ACC-HU-PI01, SON1, KEN1, KEN2, ALP1

WELCOME

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

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

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

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Installation Instructions	3
Wiring Diagram	4
Radio Wire Reference Chart	5
Module Diagnostics	6
Troubleshooting Table	7

NEED HELP?

 1 866 427-2999

 maestro.support@idatalink.com

 maestro.idatalink.com/support
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INSTALLATION INSTRUCTIONS P1/1

STEP 1

Remove the factory radio

If using head unit adapter (sold separately), connect HRR-NI2 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-NI2 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-NI2 T-harness and match the wire functions.

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

STEP 2

- Plug in the 4-pin white connectors.
- Plug in the 4-pin green connectors.

STEP 3

- Plug in the 10-pin white connector from cable B to NI2 main harness.
- Connect both the 20-pin and 40-pin connectors of HRR-NI2 T-harness to the factory radio harness.
- Cut red/brown and yellow/brown wires on cable B near the 2-pin connector. Discard the 2-pin connector.

STEP 4

- Extend the othe side of the red/brown and yellow/brown wires to Smart-key module 40-pin black connector (refer to diagram).
- Connect red/brown wire to blue wire, pin 6.
- Connect yellow/brown wire to pink wire, pin 7.

STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup cam cable into the aftermarket radio (if equipped).
- Connect either the blue/yellow wire (Kenwood/JVC) or the 3.5mm **to the** steering control input of the radio.

STEP 6

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

360 camera controls (with vehicle in reverse)

SEEK UP - change view

SEEK DOWN - change view

To set **CLOCK** in instrument cluster:

- Turn ignition on
- Press foot brake 5 times and HOLD on the 5th push.
- Apply parking/e-brake and keep holding the foot brake.

Press **VOLUME UP** or **DOWN** to adjust minutes

Press **SEEK UP** to adjust hour

Press **SEEK DOWN** for AM/PM vs 24hr clock display

- Release foot brake and clock is set.

Steering wheel control note

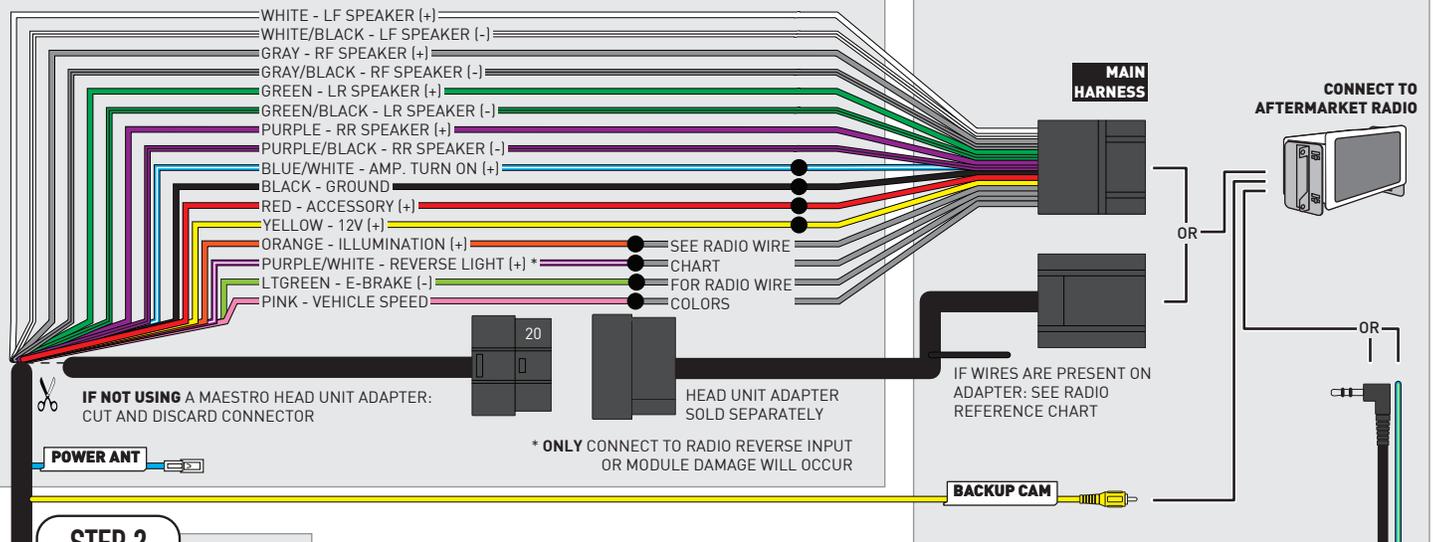
To use "**SOURCE**" steering wheel button to change radio source:

- Press SOURCE button on wheel.
- Instrument cluster will display "Music Box."
- Press OK button on wheel.

Repeat as needed to cycle through all sources on the radio.

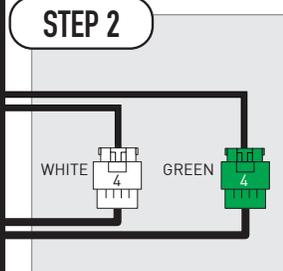
WIRING DIAGRAM

STEP 1

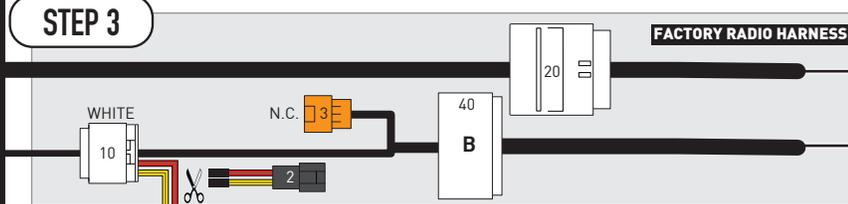


STEP 5

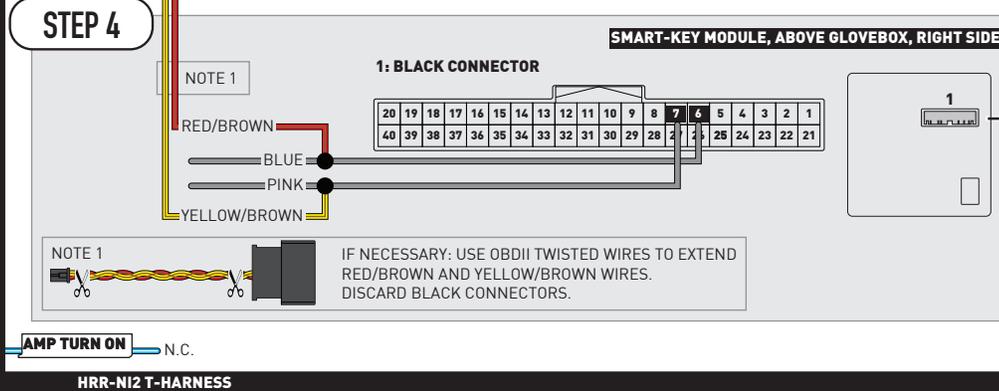
STEP 2



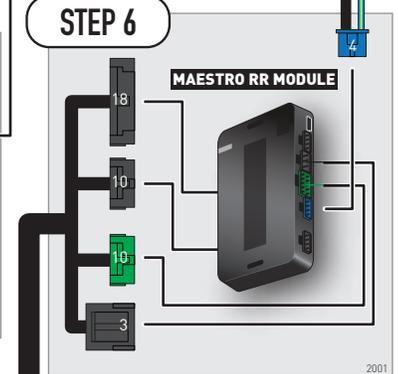
STEP 3



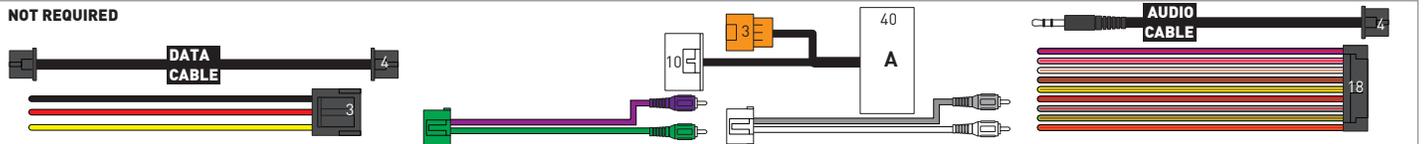
STEP 4



STEP 6



NOT REQUIRED



RADIO WIRE REFERENCE CHART

NI2 T-harness 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
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A
Power Antenna	(+)	Blue	Blue	Blue	Blue/White	Blue or Blue/White

Head unit adapter wiring (optional accessory, sold separately)

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

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

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

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

MODULE DIAGNOSTICS



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

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

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	<p>Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both.</p> <p>Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used.</p> <p>Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button.</p> <p>Refer to radio's owner's manual to verify if the radio has this function:</p> <ul style="list-style-type: none"> • JVC/Kenwood : Steering Wheel Control (ON/OFF): choose ON • Nakamichi : if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu. • Sony : Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu. • Other brands – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.
Backup camera is not displayed.	<p>If radio doesn't switch to camera input, ensure purple/white from the NI2 harness is connected ONLY to radio reverse input wire. Do not power a camera off it.</p> <p>If radio switches to blank image, verify yellow "BACK UP CAMERA" RCA is connected to the correct input. Most radios have a yellow "R CAM" or "CAM" input. Pioneer models may use a brown "BC IN" input.</p>
The radio does not turn ON.	<p>If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully.</p> <p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p>
The steering wheel controls or accessory power are not working.	<p>Verify module has been programmed.</p> <p>Turn vehicle off, unplug all RR connections and hold the button while plugging all connectors back in. Release the button when the LED on module flashes rapidly RED. Ensure all connectors are fully seated and turn the vehicle back on.</p> <p>CAN connections may require wiring to another location so ensure the correct vehicle guide is being followed.</p>

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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non-iDatalink radio

PROGRAMMED FIRMWARE

ADS-RR(SR)-NI01-AS

ADDITIONAL RESOURCES

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OPTIONAL ACCESSORIES

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

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NEED HELP?

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INSTALLATION INSTRUCTIONS P1/1

STEP 1

Remove the factory radio

If using head unit adapter (sold separately), connect HRR-NI2 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-NI2 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-NI2 T-harness and match the wire functions.

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

STEP 2

- Determine if the vehicle has a factory amplifier. Look for badges on the radio, door panels and dash that indicate the presence of an amplifier (ex: BOSE).

If the vehicle DOES NOT have a factory amplifier:

- Plug in the 4-pin white connectors.
- Plug in the 4-pin green connectors.

If the vehicle DOES have a factory amplifier:

- Unplug the HRR-NI2 4-pin white and 4-pin green connectors.
- Connect the HRR-NI2 4-pin white to 4-pin white connector with RCAs. Connect the 4-pin green to 4-pin green connector with RCAs.
- Connect the RCAs to the radio outputs: white/left front, gray/right front, green/left rear, purple/right rear.

STEP 3

- Plug in the 10-pin white connector from cable A to NI2 main harness.
- Connect both the 20-pin and 40-pin connectors of HRR-NI2 T-harness to the factory radio harness.
- Cut red/brown and yellow/brown wires on cable A near the 40-pin connector. Tape up the 40-pin side of the cut wires.

STEP 4

- Extend the other side of the red/brown and yellow/brown wires to Smart-key module 40-pin black connector (refer to diagram).
- Connect red/brown wire to blue wire, pin 6.
- Connect yellow/brown wire to pink wire, pin 7.

STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup cam cable into the aftermarket radio (if equipped).
- Connect either the blue/yellow wire (Kenwood/JVC) or the 3.5mm to the steering control input of the radio.

STEP 6

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

360 camera controls (with vehicle in reverse)

SEEK UP - change view

SEEK DOWN - change view

To set CLOCK in instrument cluster:

- Turn ignition on
- Press foot brake 5 times and HOLD on the 5th push.
- Apply parking/e-brake and keep holding the foot brake. Press **VOLUME UP** or **DOWN** to adjust minutes
- Press **SEEK UP** to adjust hour
- Press **SEEK DOWN** for AM/PM vs 24hr clock display
- Release foot brake and clock is set.

Steering wheel control note

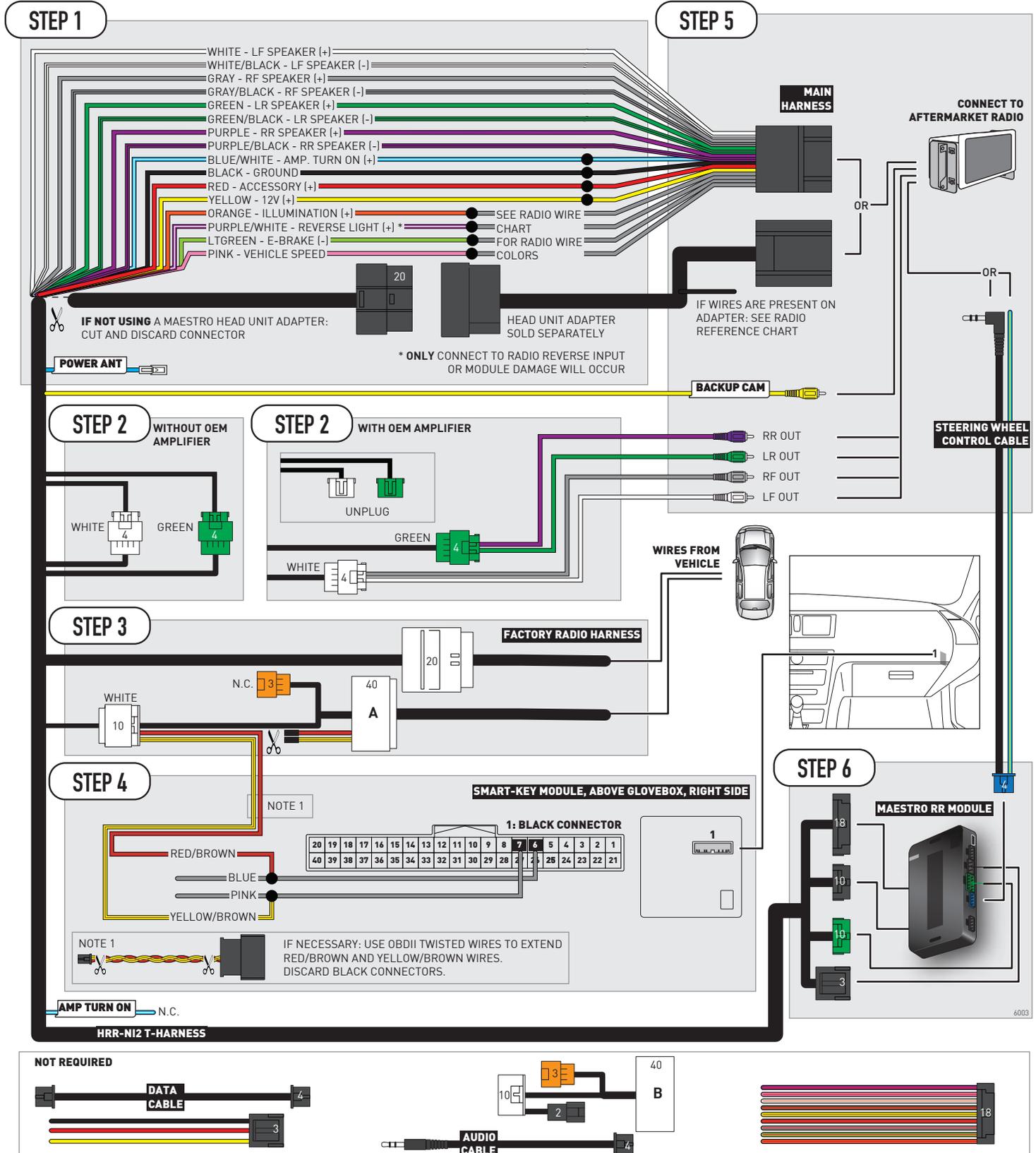
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- Press SOURCE button on wheel.
- Instrument cluster will display "Music Box."
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Repeat as needed to cycle through all sources on the radio.

6003

WIRING DIAGRAM



RADIO WIRE REFERENCE CHART

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

ACC-HU-KEN2 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
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PROBLEM	SOLUTION
Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	<p>Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both.</p> <p>Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used.</p> <p>Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button.</p> <p>Refer to radio's owner's manual to verify if the radio has this function:</p> <ul style="list-style-type: none"> • JVC/Kenwood : Steering Wheel Control (ON/OFF): choose ON • Nakamichi : if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu. • Sony : Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu. • Other brands – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.
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2019-2022

NISSAN MAXIMA

8INCH DISPLAY WITH NAV

RETAINS STEERING WHEEL CONTROLS AND MORE!



PRODUCTS REQUIRED

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iDatalink Maestro HRR-NI2 Installation Harness
non-iDatalink radio

PROGRAMMED FIRMWARE

ADS-RR(SR)-NI01-AS

ADDITIONAL RESOURCES

[Maestro RR2 Programmable Outputs Guide](#)

OPTIONAL ACCESSORIES

HEAD UNIT ADAPTER:
ACC-HU-PI01, SON1, KEN1, KEN2, ALP1

WELCOME

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

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

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

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NEED HELP?

 1 866 427-2999

 maestro.support@idatalink.com

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

INSTALLATION INSTRUCTIONS P1/1

STEP 1

Remove the factory radio

If using head unit adapter (sold separately), connect HRR-NI2 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-NI2 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-NI2 T-harness and match the wire functions.

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

STEP 2

- Determine if the vehicle has a factory amplifier. Look for badges on the radio, door panels and dash that indicate the presence of an amplifier (ex: BOSE).

If the vehicle DOES NOT have a factory amplifier:

- Plug in the 4-pin white connectors.
- Plug in the 4-pin green connectors.

If the vehicle DOES have a factory amplifier:

- Unlug the HRR-NI2 4-pin white and 4-pin green connectors.
- Connect the HRR-NI2 4-pin white to 4-pin white connector with RCAs. Connect the 4-pin green to 4-pin green connector with RCAs.
- Connect the RCAs to the radio outputs: white/left front, gray/right front, green/left rear, purple/right rear.

STEP 3

- Plug in the 10-pin white connector from cable A to NI2 main harness.
- Connect both the 20-pin and 40-pin connectors of HRR-NI2 T-harness to the factory radio harness.
- Cut red/brown and yellow/brown wires on cable A near the 40-pin connector. Tape up the 40-pin side of the cut wires.

STEP 4

- Extend the othe side of the red/brown and yellow/brown wires to gateway module 16-pin connector (refer to diagram).
- Connect red/brown wire to blue wire, pin 1.
- Connect yellow/brown wire to pink wire, pin 2.

STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup cam cable into the aftermarket radio (if equipped).
- Connect either the blue/yellow wire (Kenwood/JVC) or the 3.5mm **to the** steering control input of the radio.

STEP 6

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

360 camera controls (with vehicle in reverse)

SEEK UP - change view

SEEK DOWN - change view

To set **CLOCK** in instrument cluster:

- Turn ignition on
- Press foot brake 5 times and HOLD on the 5th push.
- Apply parking/e-brake and keep holding the foot brake.
Press **VOLUME UP** or **DOWN** to adjust minutes
Press **SEEK UP** to adjust hour
Press **SEEK DOWN** for AM/PM vs 24hr clock display
- Release foot brake and clock is set.

Steering wheel control note

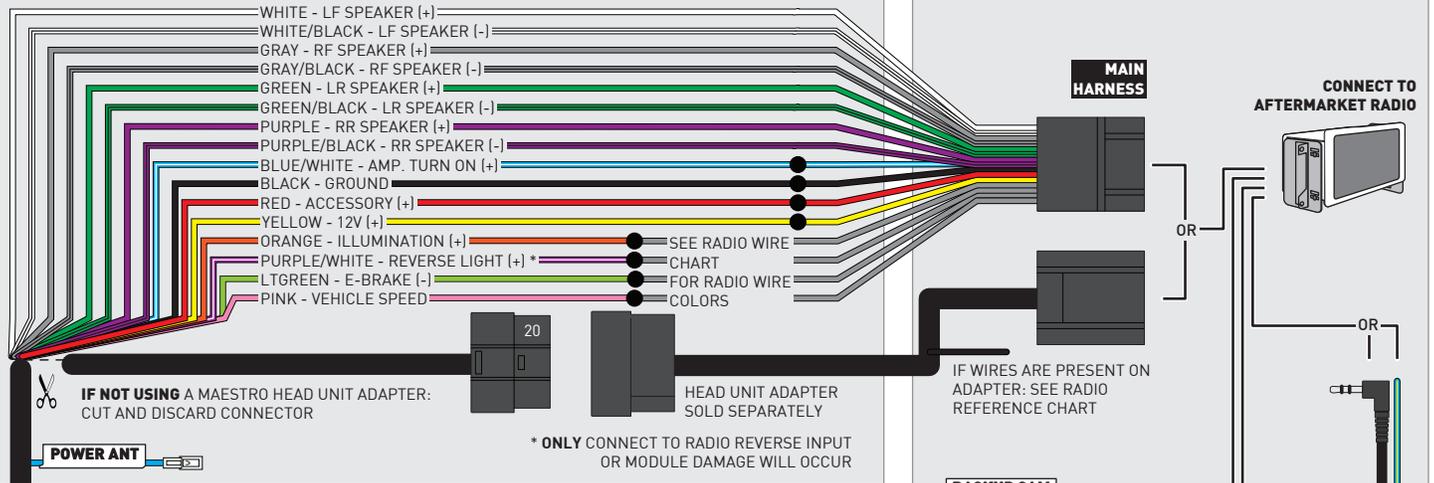
To use "**SOURCE**" steering wheel button to change radio source:

- Press SOURCE button on wheel.
- Instrument cluster will display "Music Box."
- Press OK button on wheel.

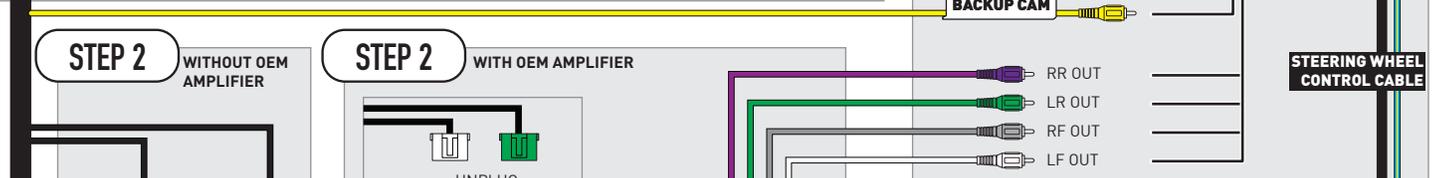
Repeat as needed to cycle through all sources on the radio.

WIRING DIAGRAM

STEP 1

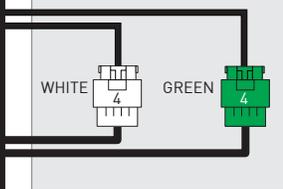


STEP 5



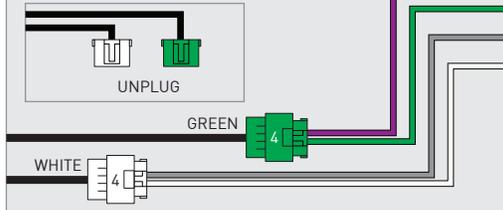
STEP 2

WITHOUT OEM AMPLIFIER

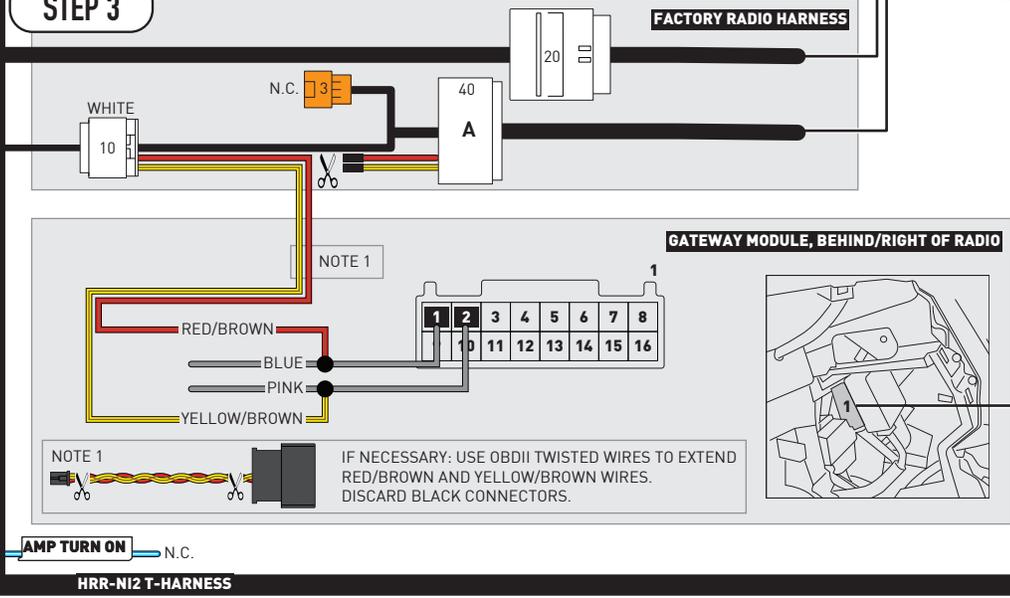


STEP 2

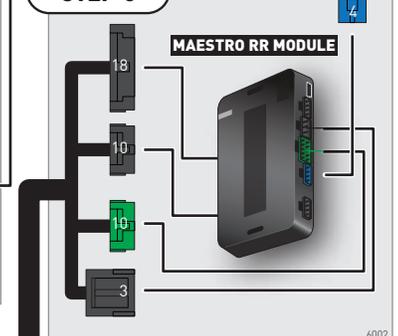
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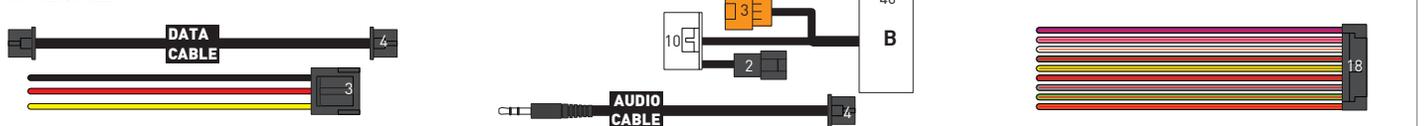
STEP 3



STEP 6



NOT REQUIRED



RADIO WIRE REFERENCE CHART

NI2 T-harness 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
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A
Power Antenna	(+)	Blue	Blue	Blue	Blue/White	Blue or Blue/White

Head unit adapter wiring (optional accessory, sold separately)

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

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

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

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

MODULE DIAGNOSTICS



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

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

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	<p>Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both.</p> <p>Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used.</p> <p>Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button.</p> <p>Refer to radio's owner's manual to verify if the radio has this function:</p> <ul style="list-style-type: none"> • JVC/Kenwood : Steering Wheel Control (ON/OFF): choose ON • Nakamichi : if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu. • Sony : Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu. • Other brands – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.
Backup camera is not displayed.	<p>If radio doesn't switch to camera input, ensure purple/white from the N12 harness is connected ONLY to radio reverse input wire. Do not power a camera off it.</p> <p>If radio switches to blank image, verify yellow "BACK UP CAMERA" RCA is connected to the correct input. Most radios have a yellow "R CAM" or "CAM" input. Pioneer models may use a brown "BC IN" input.</p>
The radio does not turn ON.	<p>If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully.</p> <p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p>
The steering wheel controls or accessory power are not working.	<p>Verify module has been programmed.</p> <p>Turn vehicle off, unplug all RR connections and hold the button while plugging all connectors back in. Release the button when the LED on module flashes rapidly RED. Ensure all connectors are fully seated and turn the vehicle back on.</p> <p>CAN connections may require wiring to another location so ensure the correct vehicle guide is being followed.</p>

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.

2019-2022

NISSAN MAXIMA

8INCH DISPLAY WITHOUT NAV WITHOUT BOSE

RETAINS STEERING WHEEL CONTROLS AND MORE!



PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro HRR-NI2 Installation Harness
non-iDatalink radio

PROGRAMMED FIRMWARE

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If using head unit adapter (sold separately), connect HRR-NI2 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-NI2 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-NI2 T-harness and match the wire functions.

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

STEP 2

- Plug in the 4-pin white connectors.
- Plug in the 4-pin green connectors.

STEP 3

- Plug in the 10-pin white connector from cable A to NI2 main harness.
- Connect both the 20-pin and 40-pin connectors of HRR-NI2 T-harness to the factory radio harness.
- Cut red/brown and yellow/brown wires on cable A near the 40-pin connector. Tape up the 40-pin side of the cut wires.

STEP 4

- Extend the othe side of the red/brown and yellow/brown wires to gateway module 16-pin connector (refer to diagram).
- Connect red/brown wire to blue wire, pin 1.
- Connect yellow/brown wire to pink wire, pin 2.

STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup cam cable into the aftermarket radio (if equipped).
- Connect either the blue/yellow wire (Kenwood/JVC) or the 3.5mm to the steering control input of the radio.

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- Connect all the harnesses to the Maestro RR module then

test your installation.

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Steering wheel control note

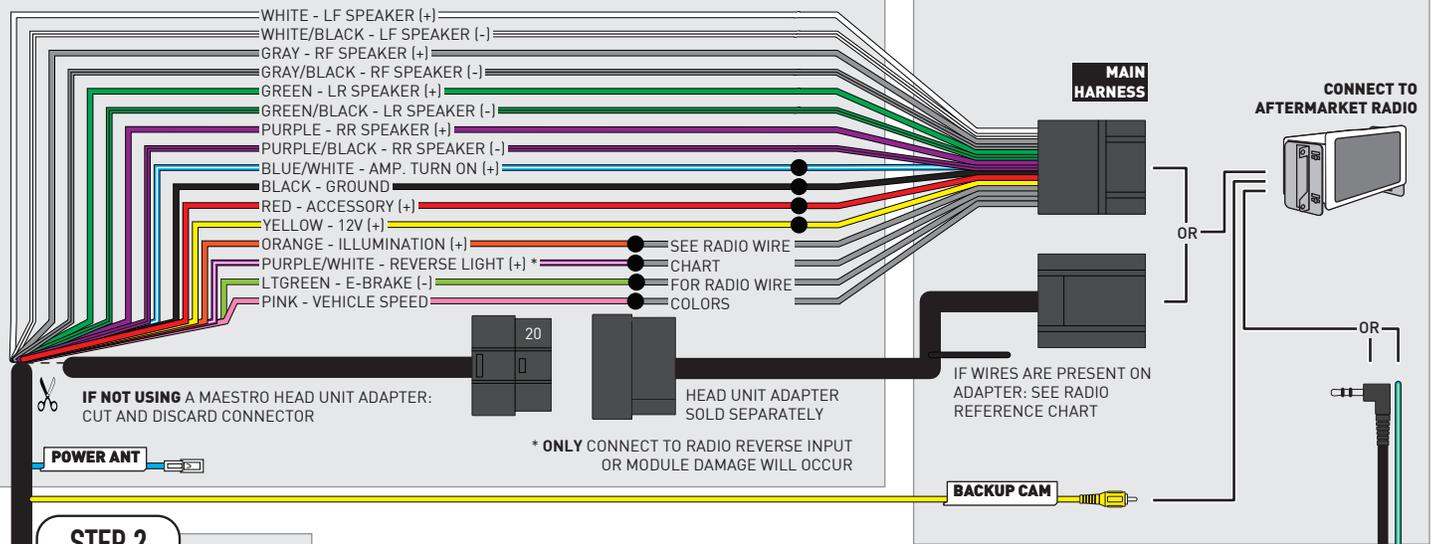
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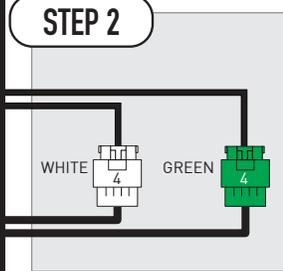
WIRING DIAGRAM

STEP 1

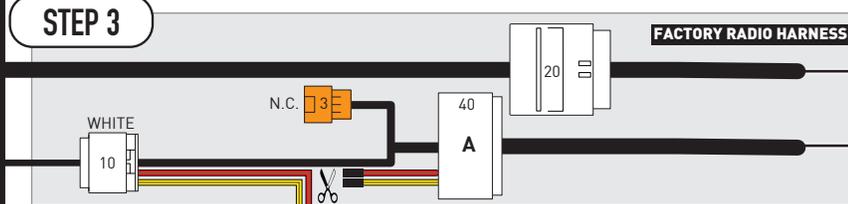


STEP 5

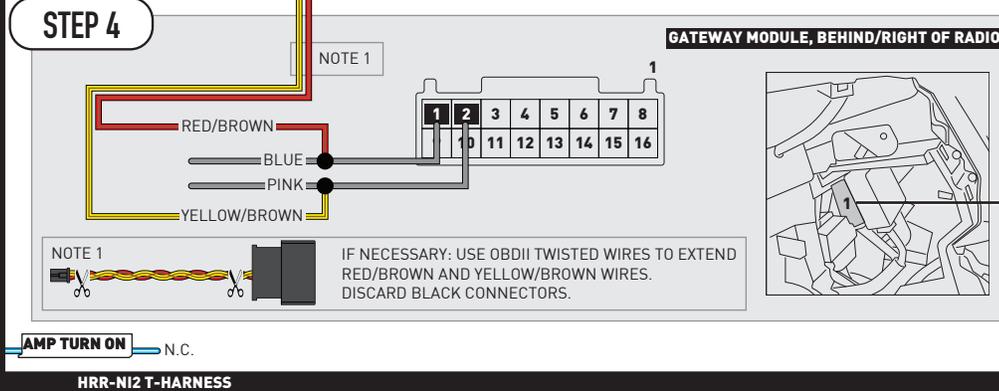
STEP 2



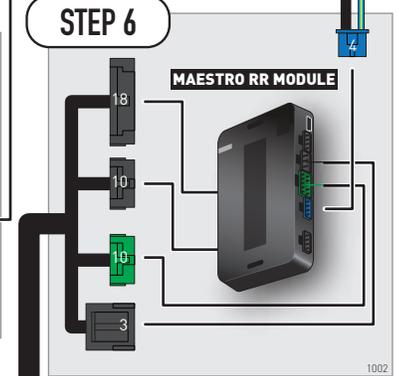
STEP 3



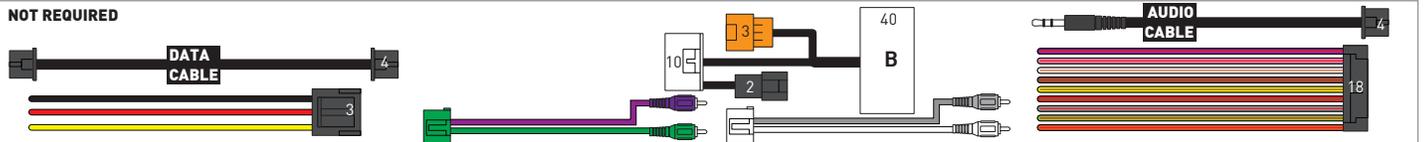
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Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A
Power Antenna	(+)	Blue	Blue	Blue	Blue/White	Blue or Blue/White

Head unit adapter wiring (optional accessory, sold separately)

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

ACC-HU-KEN1 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
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WEBLINK		Software to program module.

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	<p>Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both.</p> <p>Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used.</p> <p>Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button.</p> <p>Refer to radio's owner's manual to verify if the radio has this function:</p> <ul style="list-style-type: none"> • JVC/Kenwood : Steering Wheel Control (ON/OFF): choose ON • Nakamichi : if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu. • Sony : Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu. • Other brands – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.
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STEP 2

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If the vehicle DOES NOT have a factory amplifier:

- Plug in the 4-pin white connectors.
- Plug in the 4-pin green connectors.

If the vehicle DOES have a factory amplifier:

- Unplug the HRR-NI2 4-pin white and 4-pin green connectors.
- Connect the HRR-NI2 4-pin white to 4-pin white connector with RCAs. Connect the 4-pin green to 4-pin green connector with RCAs.
- Connect the RCAs to the radio outputs: white/left front, gray/right front, green/left rear, purple/right rear.

STEP 3

- Plug in the 10-pin white connector from cable A to NI2 main harness.
- Connect both the 20-pin and 40-pin connectors of HRR-NI2 T-harness to the factory radio harness.
- Cut red/brown and yellow/brown wires on cable A near the 40-pin connector. Tape up the 40-pin side of the cut wires.

STEP 4

- Extend the other side of the red/brown and yellow/brown wires to gateway module 16-pin connector (refer to diagram).
- Connect red/brown wire to blue wire, pin 1.
- Connect yellow/brown wire to pink wire, pin 2.

STEP 5

- Plug the harnesses into the aftermarket radio.
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- Connect all the harnesses to the Maestro RR module then test your installation.

360 camera controls (with vehicle in reverse)

SEEK UP - change view

SEEK DOWN - change view

To set CLOCK in instrument cluster:

- Turn ignition on
- Press foot brake 5 times and HOLD on the 5th push.
- Apply parking/e-brake and keep holding the foot brake.
Press **VOLUME UP** or **DOWN** to adjust minutes
Press **SEEK UP** to adjust hour
Press **SEEK DOWN** for AM/PM vs 24hr clock display
- Release foot brake and clock is set.

Steering wheel control note

To use "**SOURCE**" steering wheel button to change radio source:

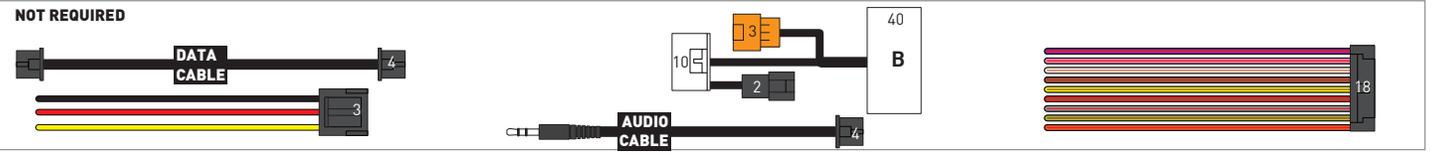
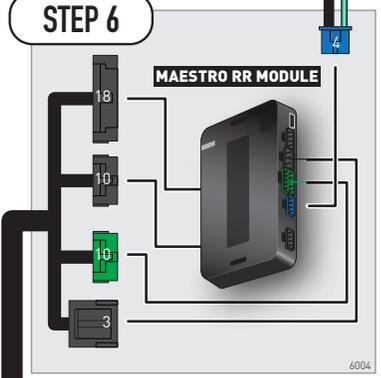
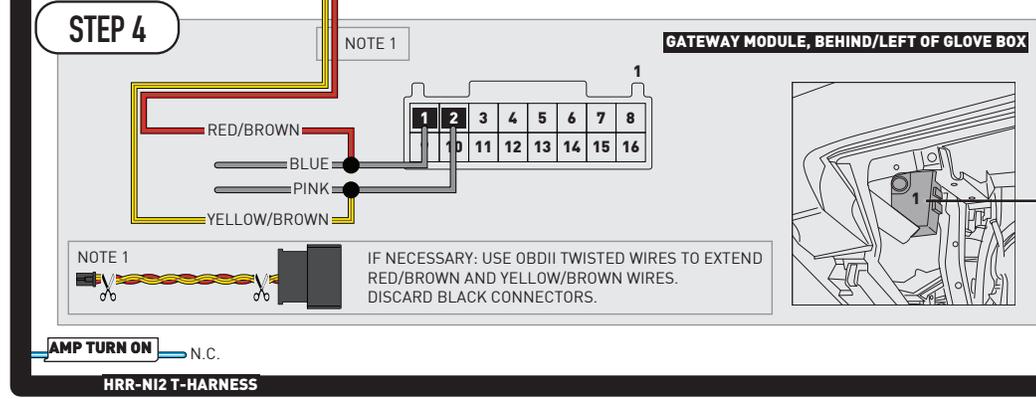
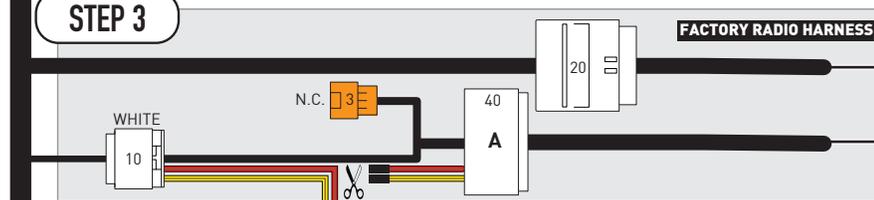
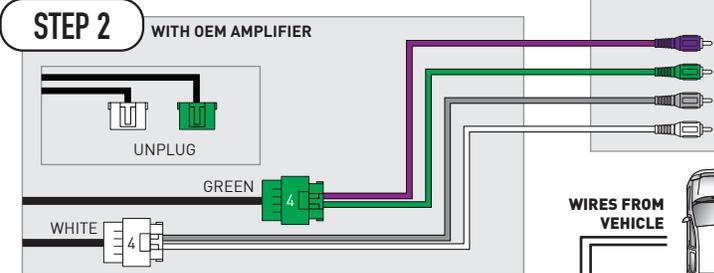
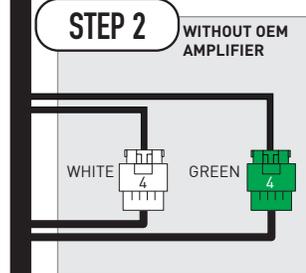
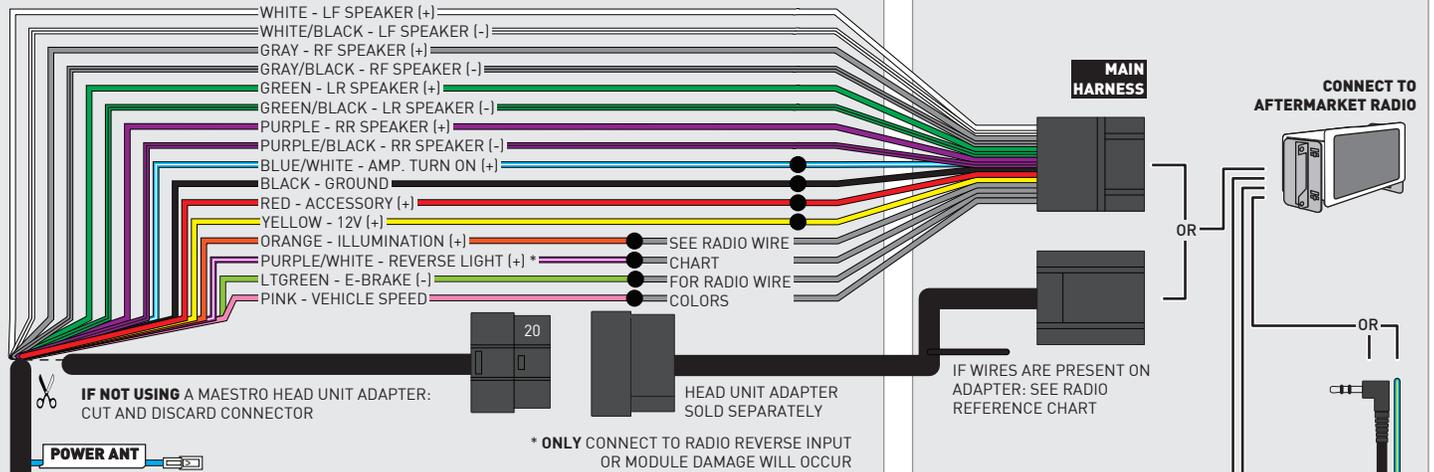
- Press SOURCE button on wheel.
- Instrument cluster will display "Music Box."
- Press OK button on wheel.

Repeat as needed to cycle through all sources on the radio.

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WIRING DIAGRAM

STEP 1



RADIO WIRE REFERENCE CHART

NI2 T-harness 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
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A
Power Antenna	(+)	Blue	Blue	Blue	Blue/White	Blue or Blue/White

Head unit adapter wiring (optional accessory, sold separately)

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

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

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

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

MODULE DIAGNOSTICS



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

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

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	<p>Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both.</p> <p>Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used.</p> <p>Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button.</p> <p>Refer to radio's owner's manual to verify if the radio has this function:</p> <ul style="list-style-type: none"> • JVC/Kenwood : Steering Wheel Control (ON/OFF): choose ON • Nakamichi : if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu. • Sony : Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu. • Other brands – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.
Backup camera is not displayed.	<p>If radio doesn't switch to camera input, ensure purple/white from the N12 harness is connected ONLY to radio reverse input wire. Do not power a camera off it.</p> <p>If radio switches to blank image, verify yellow "BACK UP CAMERA" RCA is connected to the correct input. Most radios have a yellow "R CAM" or "CAM" input. Pioneer models may use a brown "BC IN" input.</p>
The radio does not turn ON.	<p>If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully.</p> <p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p>
The steering wheel controls or accessory power are not working.	<p>Verify module has been programmed.</p> <p>Turn vehicle off, unplug all RR connections and hold the button while plugging all connectors back in. Release the button when the LED on module flashes rapidly RED. Ensure all connectors are fully seated and turn the vehicle back on.</p> <p>CAN connections may require wiring to another location so ensure the correct vehicle guide is being followed.</p>

MAESTRO RR RESET PROCEDURE:

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

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

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

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

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

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

2019-2021

NISSAN NV 1500 2500 3500

7INCH DISPLAY AUDIO

RETAINS STEERING WHEEL CONTROLS AND MORE!



PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro HRR-NI2 Installation Harness
non-iDatalink radio

PROGRAMMED FIRMWARE

ADS-RR(SR)-NI01-AS

ADDITIONAL RESOURCES

[Maestro RR2 Programmable Outputs Guide](#)

OPTIONAL ACCESSORIES

HEAD UNIT ADAPTER:
ACC-HU-PI01, SON1, KEN1, KEN2, ALP1

WELCOME

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

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

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

NEED HELP?

 1 866 427-2999

 maestro.support@idatalink.com

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

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INSTALLATION INSTRUCTIONS P1/1

STEP 1

Remove the factory radio

If using head unit adapter (sold separately), connect HRR-NI2 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-NI2 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-NI2 T-harness and match the wire functions.

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

STEP 2

- Plug in the 4-pin white connectors.
- Plug in the 4-pin green connectors.

STEP 3

- Plug in the 10-pin white connector from cable B to NI2 main harness.
- Connect both the 20-pin and 40-pin connectors of HRR-NI2 T-harness to the factory radio harness.

STEP 4

- Connect the 2-pin black connector from cable B to OBDII cable.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup cam cable into the aftermarket radio (if equipped).
- Connect either the blue/yellow wire (Kenwood/JVC) or the 3.5mm to the steering control input of the radio.

STEP 6

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

360 camera controls (with vehicle in reverse)

SEEK UP - change view

SEEK DOWN - change view

To set **CLOCK** in instrument cluster:

- Turn ignition on
- Press foot brake 5 times and HOLD on the 5th push.
- Apply parking/e-brake and keep holding the foot brake.

Press **VOLUME UP** or **DOWN** to adjust minutes

Press **SEEK UP** to adjust hour

Press **SEEK DOWN** for AM/PM vs 24hr clock display

- Release foot brake and clock is set.

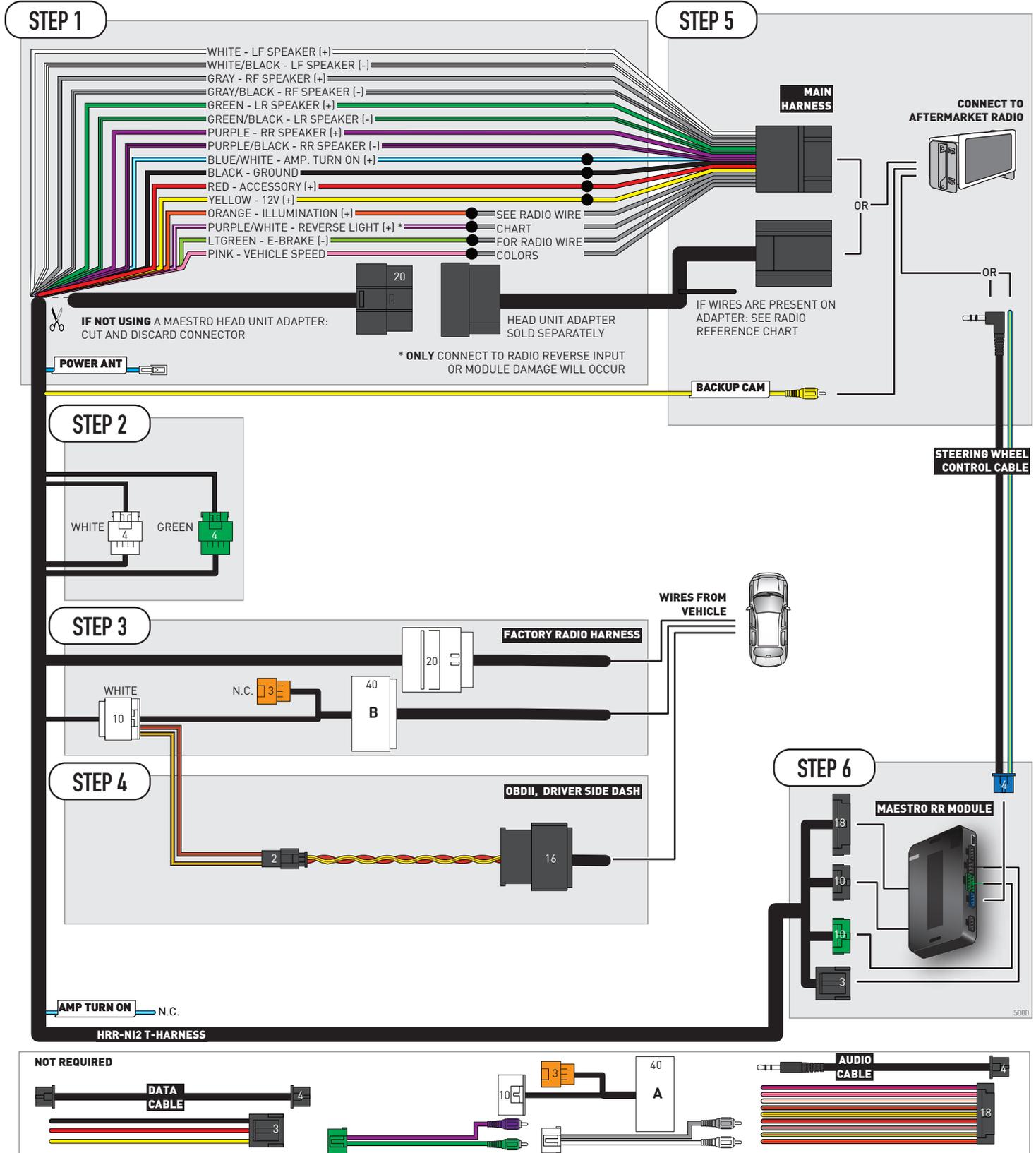
Steering wheel control note

To use "**SOURCE**" steering wheel button to change radio source:

- Press SOURCE button on wheel.
- Instrument cluster will display "Music Box."
- Press OK button on wheel.

Repeat as needed to cycle through all sources on the radio.

WIRING DIAGRAM



RADIO WIRE REFERENCE CHART

NI2 T-harness 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
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A
Power Antenna	(+)	Blue	Blue	Blue	Blue/White	Blue or Blue/White

Head unit adapter wiring (optional accessory, sold separately)

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

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

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

MODULE DIAGNOSTICS



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

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

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	<p>Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both.</p> <p>Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used.</p> <p>Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button.</p> <p>Refer to radio's owner's manual to verify if the radio has this function:</p> <ul style="list-style-type: none"> • JVC/Kenwood : Steering Wheel Control (ON/OFF): choose ON • Nakamichi : if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu. • Sony : Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu. • Other brands – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.
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The radio does not turn ON.	<p>If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully.</p> <p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p>
The steering wheel controls or accessory power are not working.	<p>Verify module has been programmed.</p> <p>Turn vehicle off, unplug all RR connections and hold the button while plugging all connectors back in. Release the button when the LED on module flashes rapidly RED. Ensure all connectors are fully seated and turn the vehicle back on.</p> <p>CAN connections may require wiring to another location so ensure the correct vehicle guide is being followed.</p>

MAESTRO RR RESET PROCEDURE:

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Remove the factory radio

If using head unit adapter (sold separately), connect HRR-NI2 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-NI2 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-NI2 T-harness and match the wire functions.

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

STEP 2

- Plug in the 4-pin white connectors.
- Plug in the 4-pin green connectors.

STEP 3

- Plug in the 10-pin white connector from cable A to NI2 main harness.
- Connect both the 20-pin and 40-pin connectors of HRR-NI2 T-harness to the factory radio harness.

STEP 4

- Plug the harnesses into the aftermarket radio.
- Connect the backup cam cable into the aftermarket radio (if equipped).
- Connect either the blue/yellow wire (Kenwood/JVC) or the 3.5mm **to the** steering control input of the radio.

STEP 6

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

360 camera controls (with vehicle in reverse)

SEEK UP - change view

SEEK DOWN - change view

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- Turn ignition on
- Press foot brake 5 times and HOLD on the 5th push.
- Apply parking/e-brake and keep holding the foot brake.

Press **VOLUME UP** or **DOWN** to adjust minutes

Press **SEEK UP** to adjust hour

Press **SEEK DOWN** for AM/PM vs 24hr clock display

- Release foot brake and clock is set.

Steering wheel control note

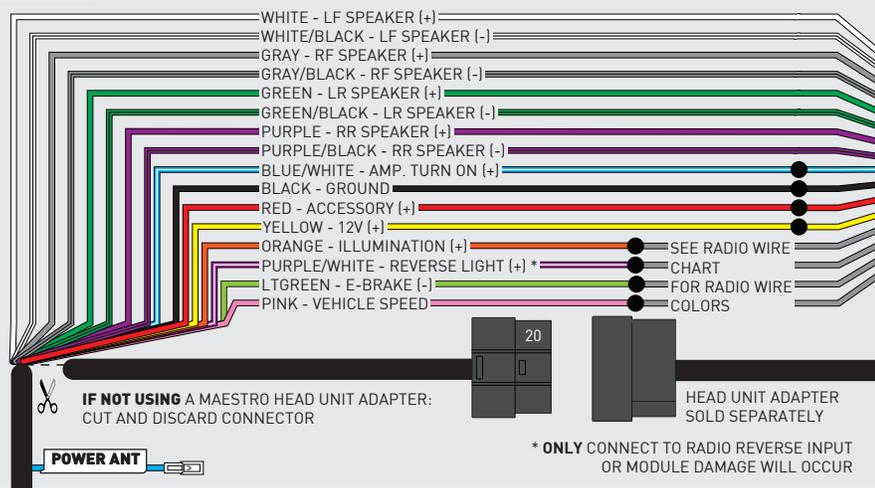
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- Instrument cluster will display "Music Box."
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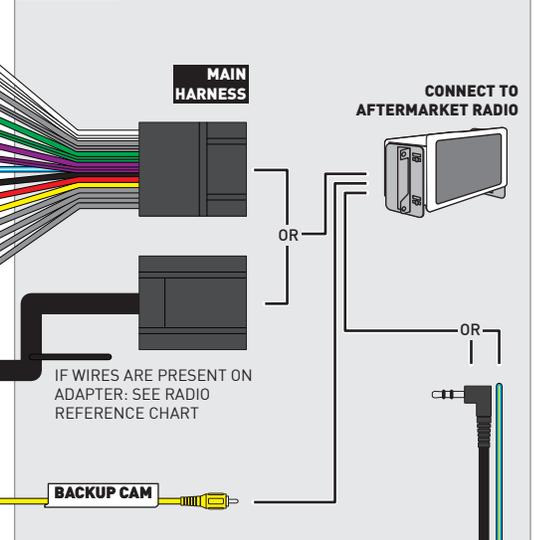
Repeat as needed to cycle through all sources on the radio.

WIRING DIAGRAM

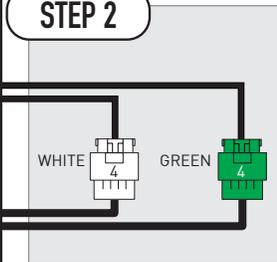
STEP 1



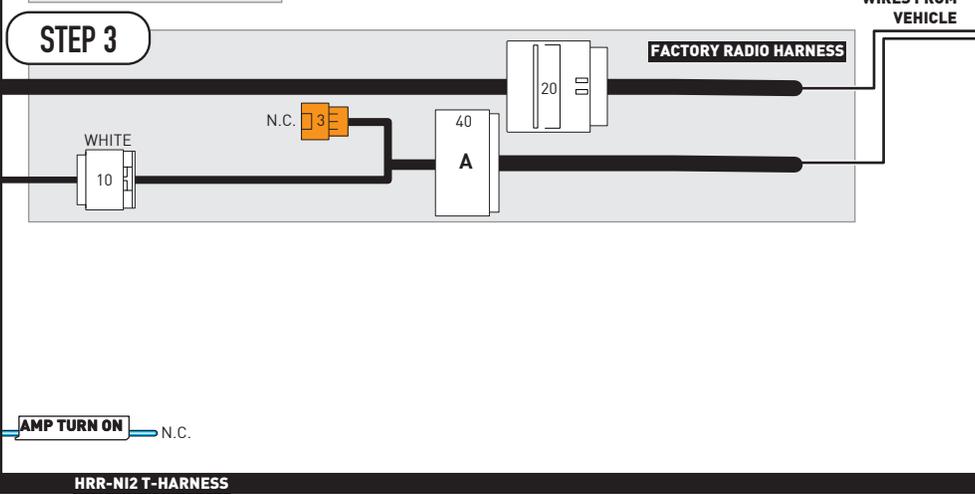
STEP 4



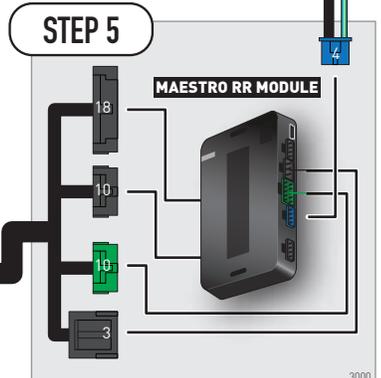
STEP 2



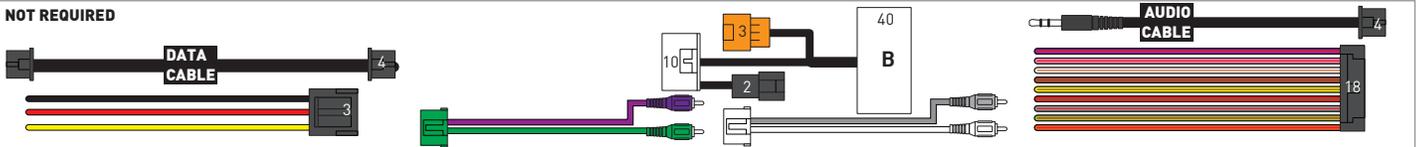
STEP 3



STEP 5



NOT REQUIRED



RADIO WIRE REFERENCE CHART

NI2 T-harness 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
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A
Power Antenna	(+)	Blue	Blue	Blue	Blue/White	Blue or Blue/White

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VSS (vehicle speed sensor)	(DATA)	Green/White	Green/White

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CAM	(+)	Green/Red	Refer to camera/radio manual
CAM	(-)	Green/White	Refer to camera/radio manual
Steering Wheel Controls	(DATA)	Blue/Yellow	Blue/Yellow

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

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LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
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Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	<p>Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both.</p> <p>Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used.</p> <p>Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button.</p> <p>Refer to radio's owner's manual to verify if the radio has this function:</p> <ul style="list-style-type: none"> • JVC/Kenwood : Steering Wheel Control (ON/OFF): choose ON • Nakamichi : if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu. • Sony : Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu. • Other brands – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.
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The steering wheel controls or accessory power are not working.	<p>Verify module has been programmed.</p> <p>Turn vehicle off, unplug all RR connections and hold the button while plugging all connectors back in. Release the button when the LED on module flashes rapidly RED. Ensure all connectors are fully seated and turn the vehicle back on.</p> <p>CAN connections may require wiring to another location so ensure the correct vehicle guide is being followed.</p>

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INSTALLATION INSTRUCTIONS P1/1

STEP 1

Remove the factory radio

If using head unit adapter (sold separately), connect HRR-NI2 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-NI2 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-NI2 T-harness and match the wire functions.

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

STEP 2

- Determine if the vehicle has a factory amplifier. Look for badges on the radio, door panels and dash that indicate the presence of an amplifier (ex: BOSE).

If the vehicle DOES NOT have a factory amplifier:

- Plug in the 4-pin white connectors.
- Plug in the 4-pin green connectors.

If the vehicle DOES have a factory amplifier:

- Unplug the HRR-NI2 4-pin white and 4-pin green connectors.
- Connect the HRR-NI2 4-pin white to 4-pin white connector with RCAs. Connect the 4-pin green to 4-pin green connector with RCAs.
- Connect the RCAs to the radio outputs: white/left front, gray/right front, green/left rear, purple/right rear.

STEP 3

- Plug in the 10-pin white connector from cable A to NI2 main harness.
- Connect both the 20-pin and 40-pin connectors of HRR-NI2 T-harness to the factory radio harness.
- Cut red/brown and yellow/brown wires on cable A near the 40-pin connector. Tape up the 40-pin side of the cut wires.

STEP 4

- Extend the other side of the red/brown and yellow/brown wires to BCM 40-pin green connector (refer to diagram).
- Connect red/brown wire to blue wire, pin 20.
- Connect yellow/brown wire to pink wire, pin 40.

STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup cam cable into the aftermarket radio (if equipped).
- Connect either the blue/yellow wire (Kenwood/JVC) or the 3.5mm to the steering control input of the radio.

STEP 6

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

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SEEK UP - change view

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To set CLOCK in instrument cluster:

- Turn ignition on
- Press foot brake 5 times and HOLD on the 5th push.
- Apply parking/e-brake and keep holding the foot brake.
Press **VOLUME UP** or **DOWN** to adjust minutes
Press **SEEK UP** to adjust hour
Press **SEEK DOWN** for AM/PM vs 24hr clock display
- Release foot brake and clock is set.

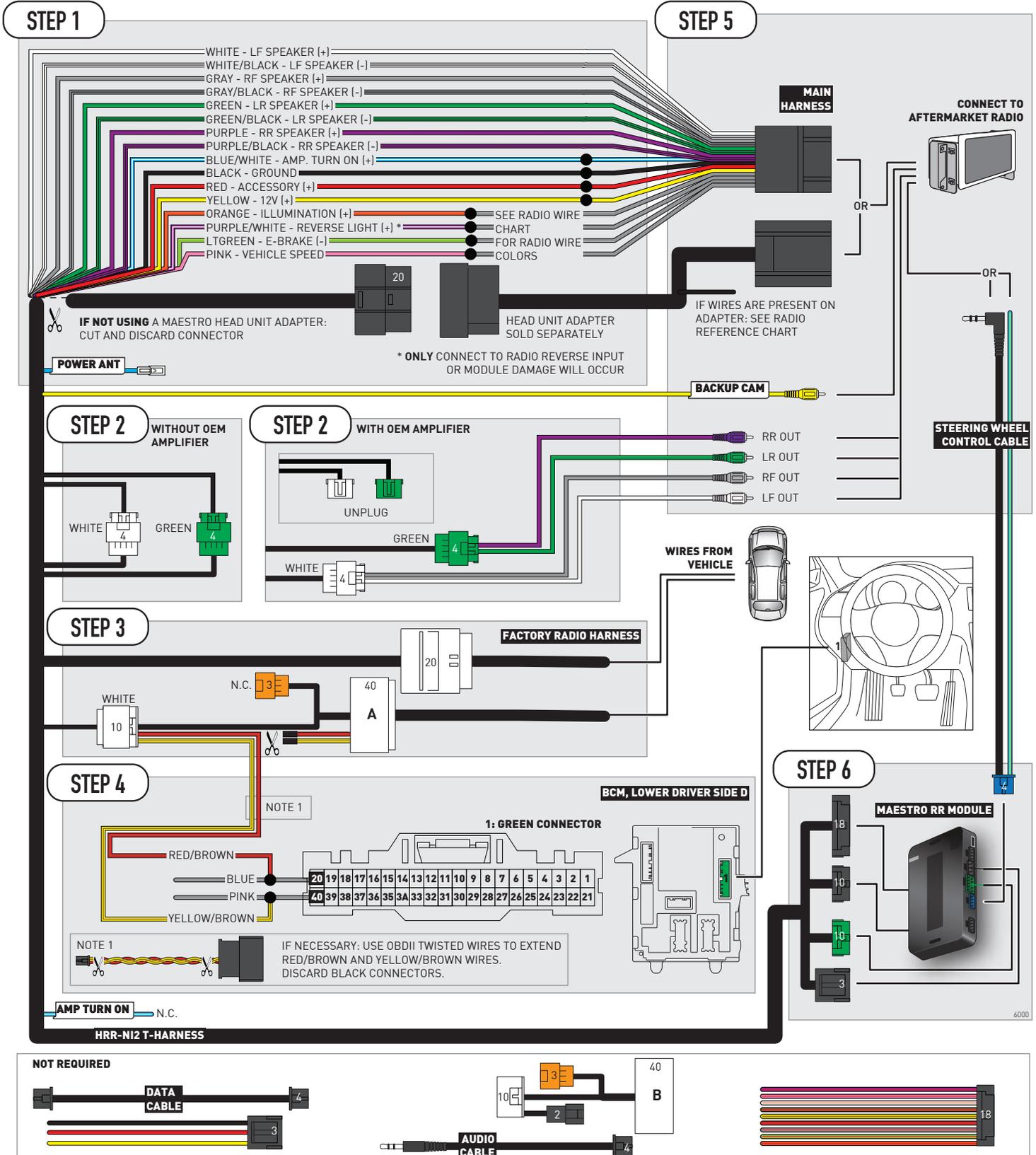
Steering wheel control note

To use "**SOURCE**" steering wheel button to change radio source:

- Press SOURCE button on wheel.
- Instrument cluster will display "Music Box."
- Press OK button on wheel.

Repeat as needed to cycle through all sources on the radio.

WIRING DIAGRAM



RADIO WIRE REFERENCE CHART

NI2 T-harness 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
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A
Power Antenna	(+)	Blue	Blue	Blue	Blue/White	Blue or Blue/White

Head unit adapter wiring (optional accessory, sold separately)

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

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

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

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

MODULE DIAGNOSTICS



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

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

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	<p>Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both.</p> <p>Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used.</p> <p>Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button.</p> <p>Refer to radio's owner's manual to verify if the radio has this function:</p> <ul style="list-style-type: none"> • JVC/Kenwood : Steering Wheel Control (ON/OFF): choose ON • Nakamichi : if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu. • Sony : Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu. • Other brands – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.
Backup camera is not displayed.	<p>If radio doesn't switch to camera input, ensure purple/white from the NI2 harness is connected ONLY to radio reverse input wire. Do not power a camera off it.</p> <p>If radio switches to blank image, verify yellow "BACK UP CAMERA" RCA is connected to the correct input. Most radios have a yellow "R CAM" or "CAM" input. Pioneer models may use a brown "BC IN" input.</p>
The radio does not turn ON.	<p>If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully.</p> <p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p>
The steering wheel controls or accessory power are not working.	<p>Verify module has been programmed.</p> <p>Turn vehicle off, unplug all RR connections and hold the button while plugging all connectors back in. Release the button when the LED on module flashes rapidly RED. Ensure all connectors are fully seated and turn the vehicle back on.</p> <p>CAN connections may require wiring to another location so ensure the correct vehicle guide is being followed.</p>

MAESTRO RR RESET PROCEDURE:

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

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

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

TECHNICAL ASSISTANCE

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Email: maestro.support@idatalink.com

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

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

RETAINS STEERING WHEEL CONTROLS AND MORE!



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non-iDatalink radio

PROGRAMMED FIRMWARE

ADS-RR(SR)-NI01-AS

ADDITIONAL RESOURCES

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OPTIONAL ACCESSORIES

HEAD UNIT ADAPTER:
ACC-HU-PI01, SON1, KEN1, KEN2, ALP1

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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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Wiring Diagram	4
Radio Wire Reference Chart	5
Module Diagnostics	6
Troubleshooting Table	7

NEED HELP?

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INSTALLATION INSTRUCTIONS P1/1

STEP 1

Remove the factory radio

If using head unit adapter (sold separately), connect HRR-NI2 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-NI2 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-NI2 T-harness and match the wire functions.

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

STEP 2

- Determine if the vehicle has a factory amplifier. Look for badges on the radio, door panels and dash that indicate the presence of an amplifier (ex: BOSE).

If the vehicle DOES NOT have a factory amplifier:

- Plug in the 4-pin white connectors.
- Plug in the 4-pin green connectors.

If the vehicle DOES have a factory amplifier:

- Unplug the HRR-NI2 4-pin white and 4-pin green connectors.
- Connect the HRR-NI2 4-pin white to 4-pin white connector with RCAs. Connect the 4-pin green to 4-pin green connector with RCAs.
- Connect the RCAs to the radio outputs: white/left front, gray/right front, green/left rear, purple/right rear.

STEP 3

- Plug in the 10-pin white connector from cable A to NI2 main harness.
- Connect both the 20-pin and 40-pin connectors of HRR-NI2 T-harness to the factory radio harness.
- Cut red/brown and yellow/brown wires on cable A near the 40-pin connector. Tape up the 40-pin side of the cut wires.

STEP 4

- Extend the other side of the red/brown and yellow/brown wires to BCM 16-pin black connector (refer to diagram).
- Connect red/brown wire to blue wire, pin 6.
- Connect yellow/brown wire to pink wire, pin 5.

STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup cam cable into the aftermarket radio (if equipped).
- Connect either the blue/yellow wire (Kenwood/JVC) or the 3.5mm to the steering control input of the radio.

STEP 6

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

360 camera controls (with vehicle in reverse)

SEEK UP - change view

SEEK DOWN - change view

To set CLOCK in instrument cluster:

- Turn ignition on
- Press foot brake 5 times and HOLD on the 5th push.
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- Press SOURCE button on wheel.
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Repeat as needed to cycle through all sources on the radio.

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NI2 T-harness 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
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A
Power Antenna	(+)	Blue	Blue	Blue	Blue/White	Blue or Blue/White

Head unit adapter wiring (optional accessory, sold separately)

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

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

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

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

MODULE DIAGNOSTICS



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

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

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	<p>Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both.</p> <p>Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used.</p> <p>Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button.</p> <p>Refer to radio's owner's manual to verify if the radio has this function:</p> <ul style="list-style-type: none"> • JVC/Kenwood : Steering Wheel Control (ON/OFF): choose ON • Nakamichi : if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu. • Sony : Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu. • Other brands – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.
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The steering wheel controls or accessory power are not working.	<p>Verify module has been programmed.</p> <p>Turn vehicle off, unplug all RR connections and hold the button while plugging all connectors back in. Release the button when the LED on module flashes rapidly RED. Ensure all connectors are fully seated and turn the vehicle back on.</p> <p>CAN connections may require wiring to another location so ensure the correct vehicle guide is being followed.</p>

MAESTRO RR RESET PROCEDURE:

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

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2019-2021

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7INCH TOUCHSCREEN WITH NAV

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INSTALLATION INSTRUCTIONS P1/1

STEP 1

Remove the factory radio

If using head unit adapter (sold separately), connect HRR-NI2 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-NI2 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-NI2 T-harness and match the wire functions.

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

STEP 2

- Determine if the vehicle has a factory amplifier. Look for badges on the radio, door panels and dash that indicate the presence of an amplifier (ex: BOSE).

If the vehicle DOES NOT have a factory amplifier:

- Plug in the 4-pin white connectors.
- Plug in the 4-pin green connectors.

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- Unlug the HRR-NI2 4-pin white and 4-pin green connectors.
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STEP 3

- Plug in the 10-pin white connector from cable A to NI2 main harness.
- Connect both the 20-pin and 40-pin connectors of HRR-NI2 T-harness to the factory radio harness.
- Cut red/brown and yellow/brown wires on cable A near the 40-pin connector. Tape up the 40-pin side of the cut wires.

STEP 4

- Extend the othe side of the red/brown and yellow/brown wires to BCM 40-pin green connector (refer to diagram).
- Connect red/brown wire to blue wire, pin 20.
- Connect yellow/brown wire to pink wire, pin 40.

STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup cam cable into the aftermarket radio (if equipped).
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360 camera controls (with vehicle in reverse)

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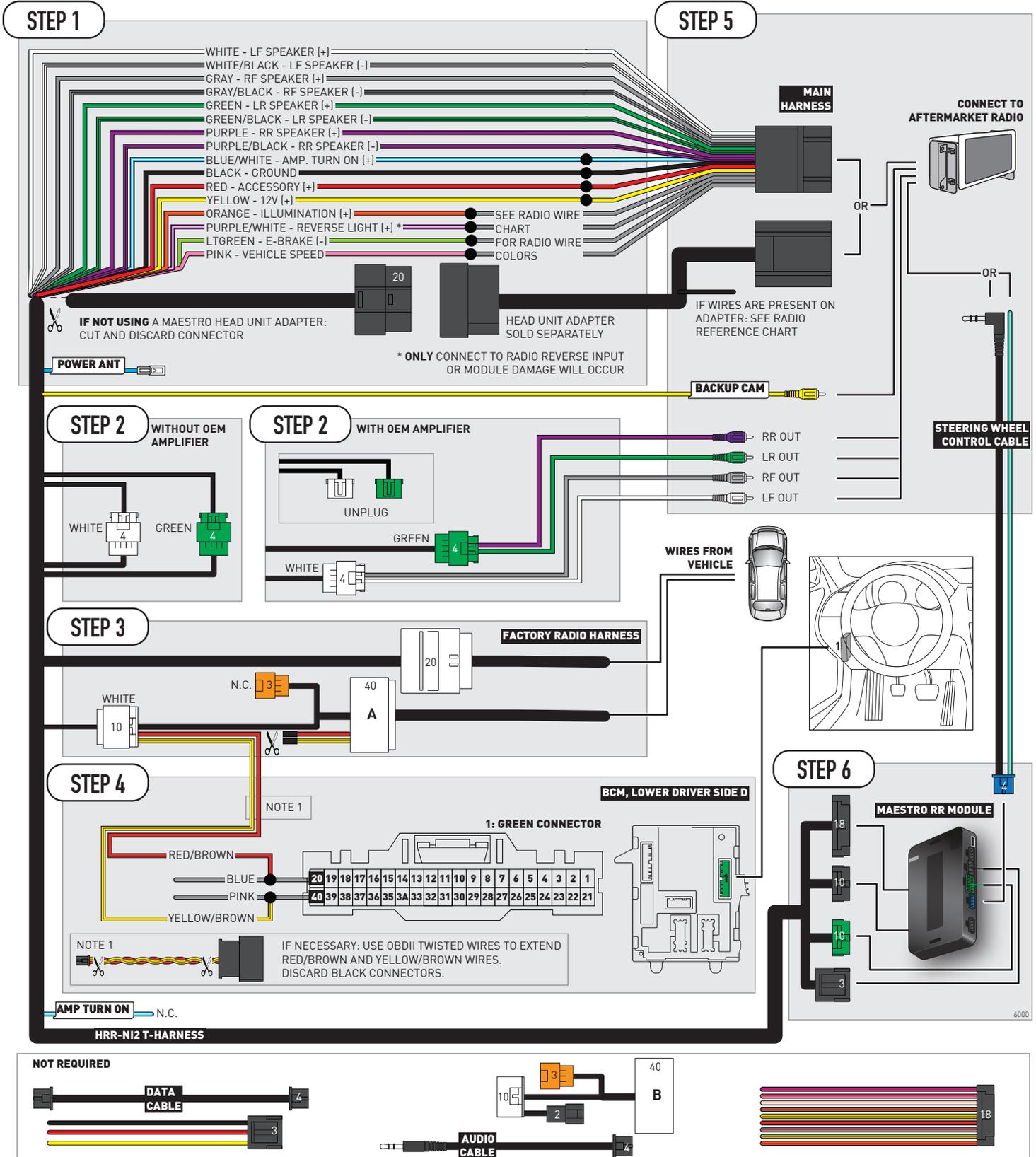
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Head unit adapter wiring (optional accessory, sold separately)

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

ACC-HU-KEN1 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
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Steering Wheel Controls	(DATA)	Blue/Yellow	Blue/Yellow

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E-Brake	(-)	LtGreen	LtGreen
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Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	<p>Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both.</p> <p>Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used.</p> <p>Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button.</p> <p>Refer to radio's owner's manual to verify if the radio has this function:</p> <ul style="list-style-type: none"> • JVC/Kenwood : Steering Wheel Control (ON/OFF): choose ON • Nakamichi : if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu. • Sony : Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu. • Other brands – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.
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INSTALLATION INSTRUCTIONS P1/1

STEP 1

Remove the factory radio

If using head unit adapter (sold separately), connect HRR-NI2 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-NI2 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-NI2 T-harness and match the wire functions.

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

STEP 2

- Plug in the 4-pin white connectors.
- Plug in the 4-pin green connectors.

STEP 3

- Plug in the 10-pin white connector from cable A to NI2 main harness.
- Connect both the 20-pin and 40-pin connectors of HRR-NI2 T-harness to the factory radio harness.
- Cut red/brown and yellow/brown wires on cable A near the 40-pin connector. Tape up the 40-pin side of the cut wires.

STEP 4

- Extend the othe side of the red/brown and yellow/brown wires to BCM 40-pin green connector (refer to diagram).
- Connect red/brown wire to blue or purple/blue wire, pin 20.
- Connect yellow/brown wire to pink or purple/pink wire, pin 40.

STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup cam cable into the aftermarket radio (if equipped).
- Connect either the blue/yellow wire (Kenwood/JVC) or the 3.5mm to the steering control input of the radio.

STEP 6

- Connect all the harnesses to the Maestro RR module then

test your installation.

360 camera controls (with vehicle in reverse)

SEEK UP - change view

SEEK DOWN - change view

To set **CLOCK** in instrument cluster:

- Turn ignition on
- Press foot brake 5 times and HOLD on the 5th push.
- Apply parking/e-brake and keep holding the foot brake.

Press **VOLUME UP** or **DOWN** to adjust minutes

Press **SEEK UP** to adjust hour

Press **SEEK DOWN** for AM/PM vs 24hr clock display

- Release foot brake and clock is set.

Steering wheel control note

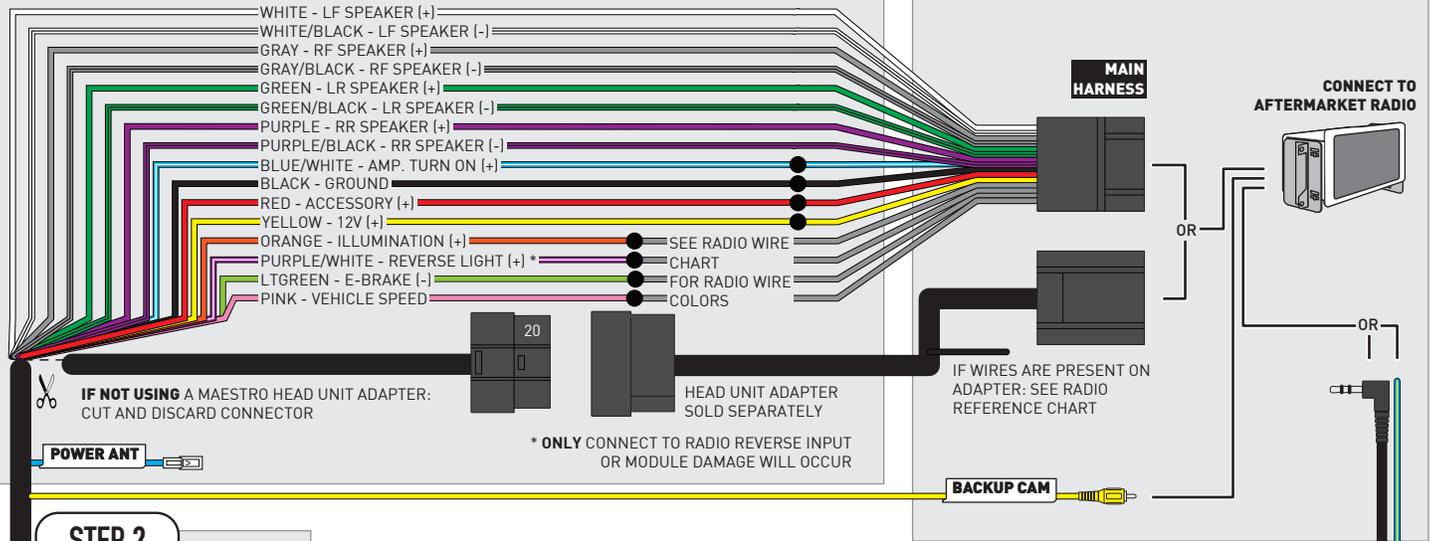
To use "**SOURCE**" steering wheel button to change radio source:

- Press SOURCE button on wheel.
- Instrument cluster will display "Music Box."
- Press OK button on wheel.

Repeat as needed to cycle through all sources on the radio.

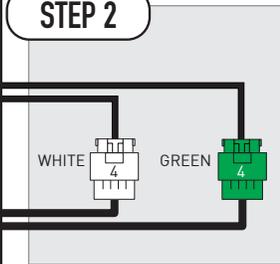
WIRING DIAGRAM

STEP 1

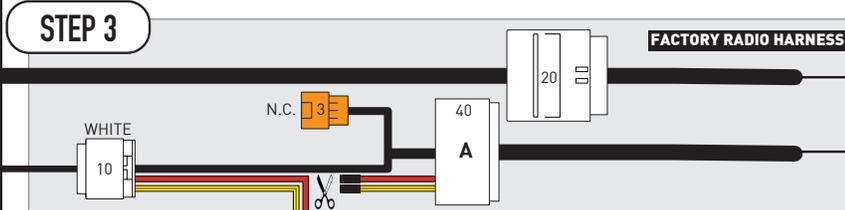


STEP 5

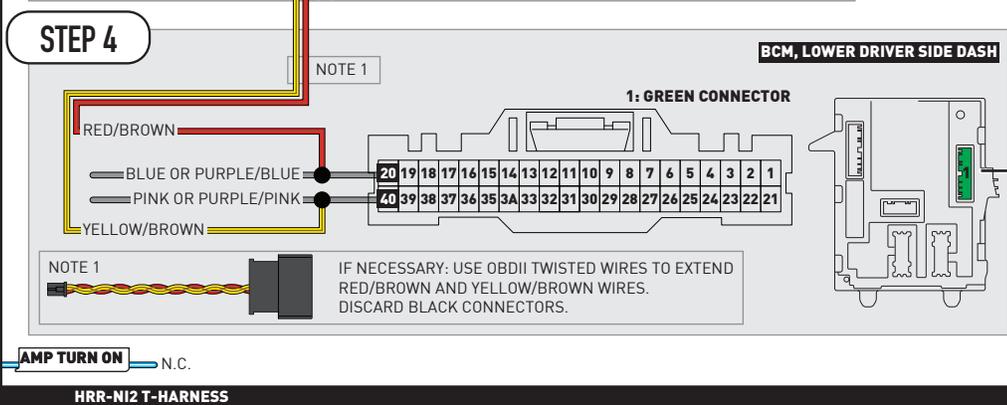
STEP 2



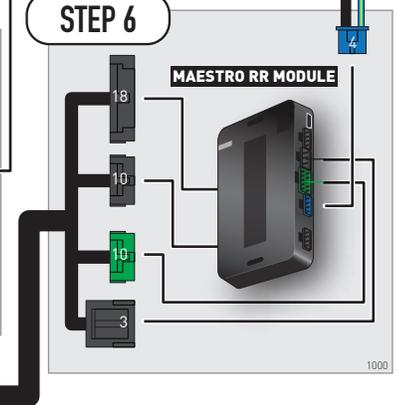
STEP 3



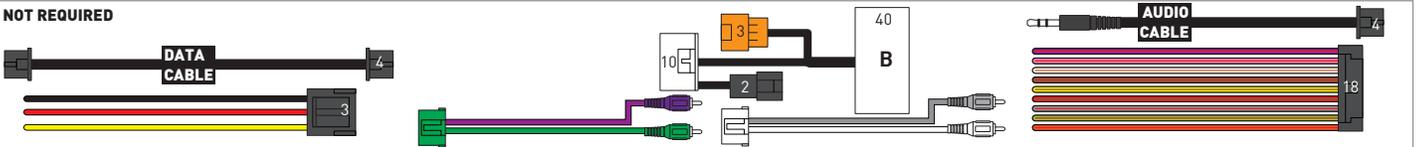
STEP 4



STEP 6



NOT REQUIRED



RADIO WIRE REFERENCE CHART

NI2 T-harness 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
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A
Power Antenna	(+)	Blue	Blue	Blue	Blue/White	Blue or Blue/White

Head unit adapter wiring (optional accessory, sold separately)

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

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

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

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

MODULE DIAGNOSTICS



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

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

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	<p>Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both.</p> <p>Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used.</p> <p>Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button.</p> <p>Refer to radio's owner's manual to verify if the radio has this function:</p> <ul style="list-style-type: none"> • JVC/Kenwood : Steering Wheel Control (ON/OFF): choose ON • Nakamichi : if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu. • Sony : Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu. • Other brands – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.
Backup camera is not displayed.	<p>If radio doesn't switch to camera input, ensure purple/white from the N12 harness is connected ONLY to radio reverse input wire. Do not power a camera off it.</p> <p>If radio switches to blank image, verify yellow "BACK UP CAMERA" RCA is connected to the correct input. Most radios have a yellow "R CAM" or "CAM" input. Pioneer models may use a brown "BC IN" input.</p>
The radio does not turn ON.	<p>If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully.</p> <p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p>
The steering wheel controls or accessory power are not working.	<p>Verify module has been programmed.</p> <p>Turn vehicle off, unplug all RR connections and hold the button while plugging all connectors back in. Release the button when the LED on module flashes rapidly RED. Ensure all connectors are fully seated and turn the vehicle back on.</p> <p>CAN connections may require wiring to another location so ensure the correct vehicle guide is being followed.</p>

MAESTRO RR RESET PROCEDURE:

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

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

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

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

2020

NISSAN SENTRA (CANADA)
8INCH TOUCHSCREEN

RETAINS STEERING WHEEL CONTROLS AND MORE!



PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro HRR-NI2 Installation Harness
non-iDatalink radio

PROGRAMMED FIRMWARE

ADS-RR(SR)-NI01-AS

ADDITIONAL RESOURCES

[Maestro RR2 Programmable Outputs Guide](#)

OPTIONAL ACCESSORIES

HEAD UNIT ADAPTER:
ACC-HU-PI01, SON1, KEN1, KEN2, ALP1

WELCOME

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

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

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

NEED HELP?

 1 866 427-2999

 maestro.support@idatalink.com

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

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Wiring Diagram	4
Radio Wire Reference Chart	5
Module Diagnostics	6
Troubleshooting Table	7

INSTALLATION INSTRUCTIONS P1/1

STEP 1

Remove the factory radio

If using head unit adapter (sold separately), connect HRR-NI2 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-NI2 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-NI2 T-harness and match the wire functions.

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

STEP 2

- Plug in the 4-pin white connectors.
- Plug in the 4-pin green connectors.

STEP 3

- Plug in the 10-pin white connector from cable A to NI2 main harness.
- Connect both the 20-pin and 40-pin connectors of HRR-NI2 T-harness to the factory radio harness.
- Cut red/brown and yellow/brown wires on cable A near the 40-pin connector. Tape up the 40-pin side of the cut wires.

STEP 4

- Extend the othe side of the red/brown and yellow/brown wires to BCM 40-pin gray connector (refer to diagram).
- Connect red/brown wire to purple/blue wire, pin 26.
- Connect yellow/brown wire to purple/pink wire, pin 27.

STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup cam cable into the aftermarket radio (if equipped).
- Connect either the blue/yellow wire (Kenwood/JVC) or the 3.5mm to the steering control input of the radio.

STEP 6

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

360 camera controls (with vehicle in reverse)

SEEK UP - change view

SEEK DOWN - change view

To set CLOCK in instrument cluster:

- Turn ignition on
- Press foot brake 5 times and HOLD on the 5th push.
- Apply parking/e-brake and keep holding the foot brake.

Press **VOLUME UP** or **DOWN** to adjust minutes

Press **SEEK UP** to adjust hour

Press **SEEK DOWN** for AM/PM vs 24hr clock display

- Release foot brake and clock is set.

Steering wheel control note

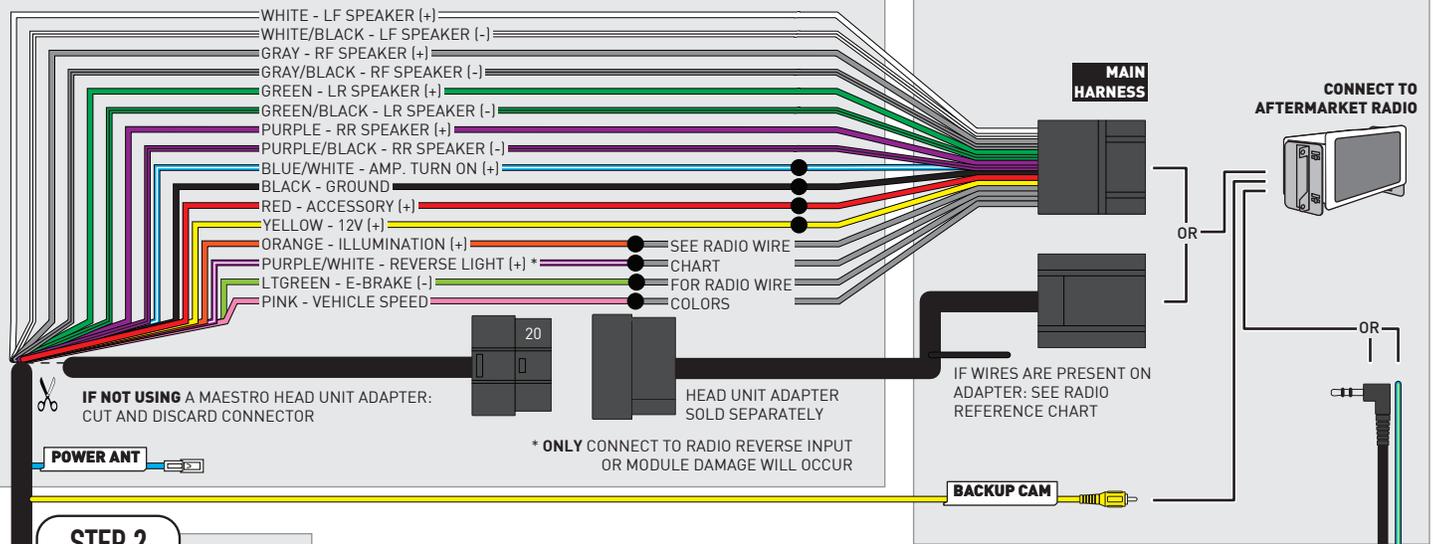
To use "SOURCE" steering wheel button to change radio source:

- Press SOURCE button on wheel.
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- Press OK button on wheel.

Repeat as needed to cycle through all sources on the radio.

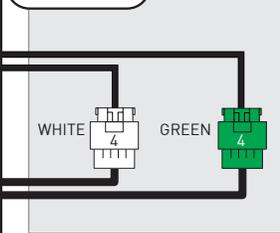
WIRING DIAGRAM

STEP 1

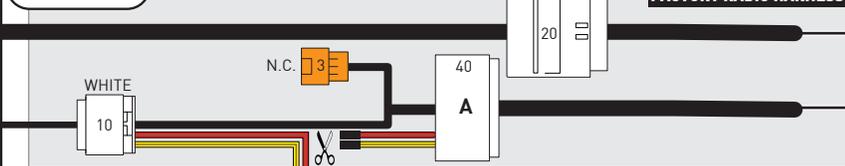


STEP 5

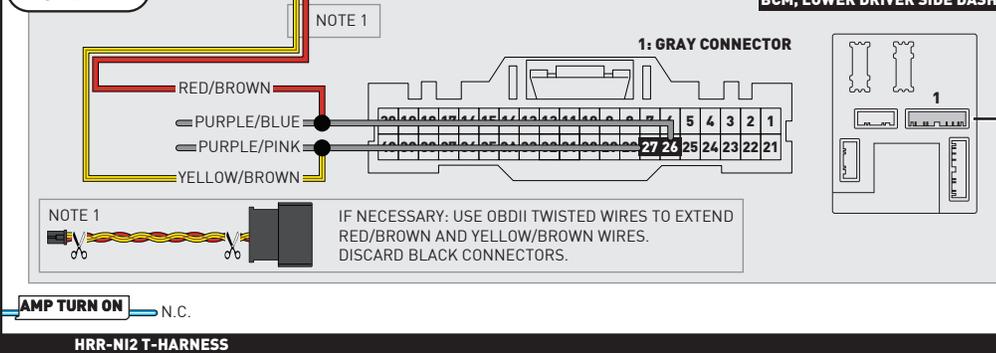
STEP 2



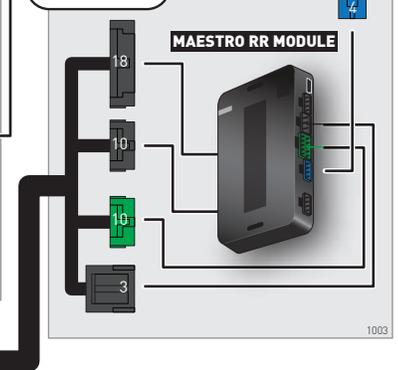
STEP 3



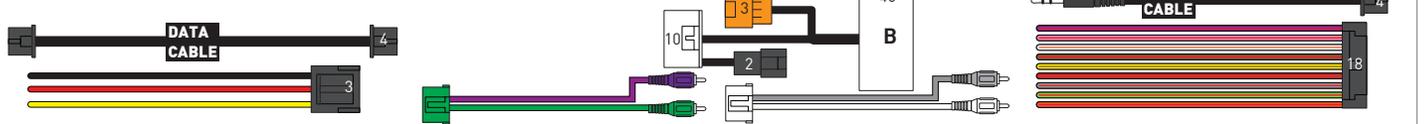
STEP 4



STEP 6



NOT REQUIRED



RADIO WIRE REFERENCE CHART

NI2 T-harness 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
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A
Power Antenna	(+)	Blue	Blue	Blue	Blue/White	Blue or Blue/White

Head unit adapter wiring (optional accessory, sold separately)

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

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

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E-Brake	(-)	LtGreen	LtGreen
Reverse Light*	(+)	Purple/White	Purple/White
Steering Wheel Controls	(DATA)	Blue/Yellow	Blue/Yellow

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

MODULE DIAGNOSTICS



LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
• or •		RED or GREEN flashing	LED flashes 1 or more times, either red or green, when a steering wheel button is pressed : normal operation.
•		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do <u>NOT</u> use DEMO MODE.
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	•	3 GREEN flashes	Bluetooth is activated. Turns off after one minute: Normal operation.
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VIDEO HELP		Installation, product information, vehicle specific videos.
VERIFY FLASH		Last flash information, steering control configuration, vehicle information.
WEBLINK		Software to program module.

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	<p>Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both.</p> <p>Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used.</p> <p>Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button.</p> <p>Refer to radio's owner's manual to verify if the radio has this function:</p> <ul style="list-style-type: none"> • JVC/Kenwood : Steering Wheel Control (ON/OFF): choose ON • Nakamichi : if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu. • Sony : Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu. • Other brands – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.
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The steering wheel controls or accessory power are not working.	<p>Verify module has been programmed.</p> <p>Turn vehicle off, unplug all RR connections and hold the button while plugging all connectors back in. Release the button when the LED on module flashes rapidly RED. Ensure all connectors are fully seated and turn the vehicle back on.</p> <p>CAN connections may require wiring to another location so ensure the correct vehicle guide is being followed.</p>

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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2020

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WITHOUT NAV WITH BOSE

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non-iDatalink radio

PROGRAMMED FIRMWARE

ADS-RR(SR)-NI01-AS

ADDITIONAL RESOURCES

[Maestro RR2 Programmable Outputs Guide](#)

OPTIONAL ACCESSORIES

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

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NEED HELP?

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INSTALLATION INSTRUCTIONS P1/1

STEP 1

Remove the factory radio

If using head unit adapter (sold separately), connect HRR-NI2 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-NI2 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-NI2 T-harness and match the wire functions.

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

STEP 2

- Unlug the HRR-NI2 4-pin white and 4-pin green connectors.
- Connect the HRR-NI2 4-pin white to 4-pin white connector with RCAs. Connect the 4-pin green to 4-pin green connector with RCAs.
- Connect the RCAs to the radio outputs: white/left front, gray/right front, green/left rear, purple/right rear.

STEP 3

- Plug in the 10-pin white connector from cable A to NI2 main harness.
- Connect both the 20-pin and 40-pin connectors of HRR-NI2 T-harness to the factory radio harness.
- Cut red/brown and yellow/brown wires on cable A near the 40-pin connector. Tape up the 40-pin side of the cut wires.

STEP 4

- Extend the othe side of the red/brown and yellow/brown wires to BCM 40-pin gray connector (refer to diagram).
- Connect red/brown wire to purple/blue wire, pin 26.
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- Plug the harnesses into the aftermarket radio.
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SEEK UP - change view

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To set **CLOCK** in instrument cluster:

- Turn ignition on
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- Release foot brake and clock is set.

Steering wheel control note

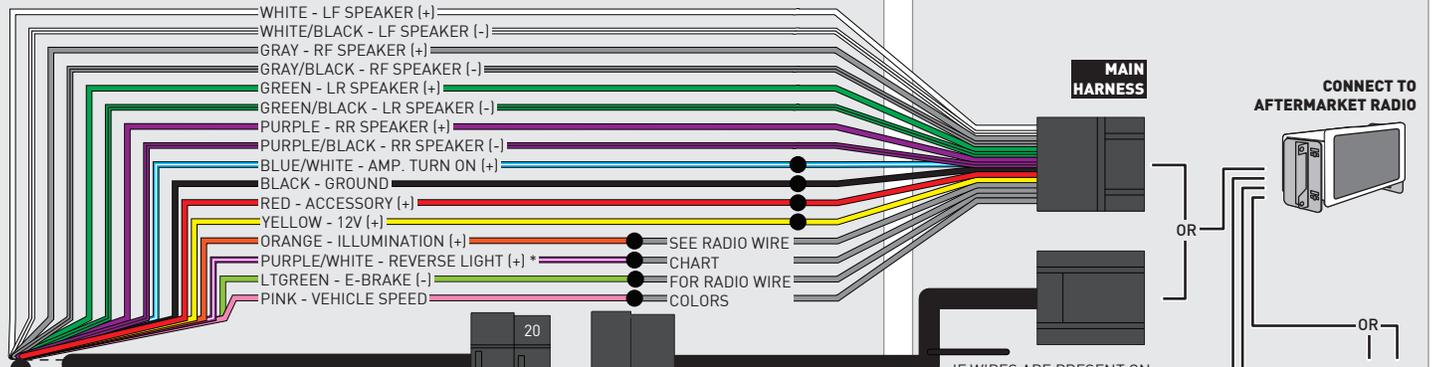
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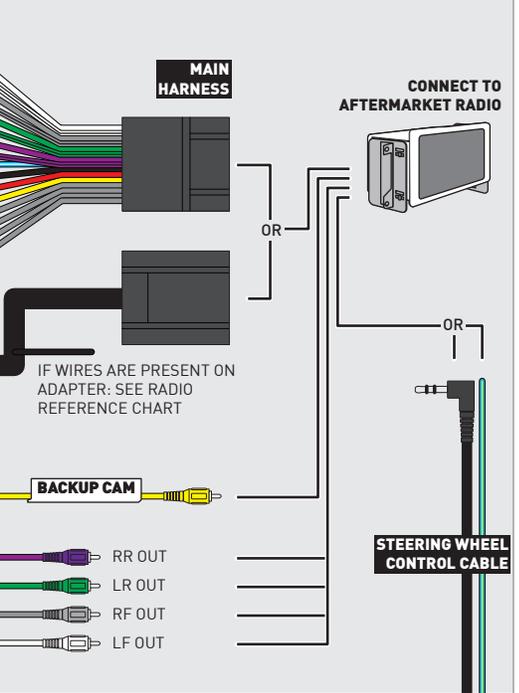
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WIRING DIAGRAM

STEP 1



STEP 5



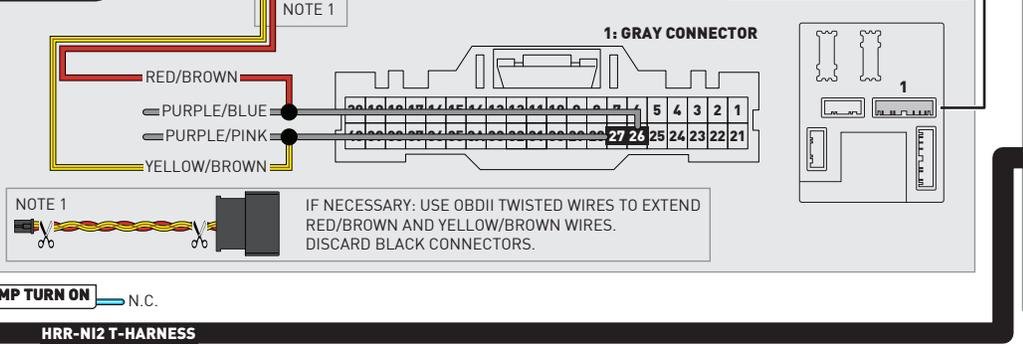
STEP 2



STEP 3



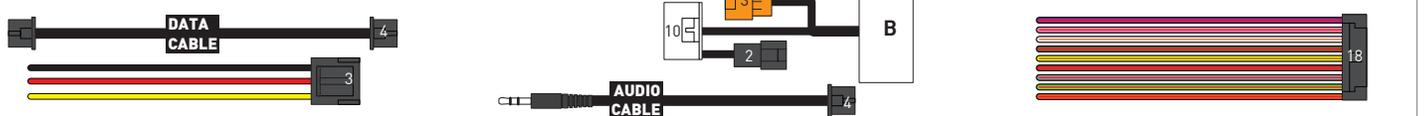
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STEP 6



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E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A
Power Antenna	(+)	Blue	Blue	Blue	Blue/White	Blue or Blue/White

Head unit adapter wiring (optional accessory, sold separately)

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

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E-Brake	(-)	LtGreen	LtGreen
Reverse Light*	(+)	Purple/White	Purple/White
Steering Wheel Controls	(DATA)	Blue/Yellow	Blue/Yellow

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PROBLEM	SOLUTION
Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	<p>Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both.</p> <p>Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used.</p> <p>Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button.</p> <p>Refer to radio's owner's manual to verify if the radio has this function:</p> <ul style="list-style-type: none"> • JVC/Kenwood : Steering Wheel Control (ON/OFF): choose ON • Nakamichi : if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu. • Sony : Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu. • Other brands – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.
Backup camera is not displayed.	<p>If radio doesn't switch to camera input, ensure purple/white from the N12 harness is connected ONLY to radio reverse input wire. Do not power a camera off it.</p> <p>If radio switches to blank image, verify yellow "BACK UP CAMERA" RCA is connected to the correct input. Most radios have a yellow "R CAM" or "CAM" input. Pioneer models may use a brown "BC IN" input.</p>
The radio does not turn ON.	<p>If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully.</p> <p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p>
The steering wheel controls or accessory power are not working.	<p>Verify module has been programmed.</p> <p>Turn vehicle off, unplug all RR connections and hold the button while plugging all connectors back in. Release the button when the LED on module flashes rapidly RED. Ensure all connectors are fully seated and turn the vehicle back on.</p> <p>CAN connections may require wiring to another location so ensure the correct vehicle guide is being followed.</p>

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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2019

NISSAN SENTRA
WITHOUT NAV WITH BOSE

RETAINS STEERING WHEEL CONTROLS AND MORE!



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non-iDatalink radio

PROGRAMMED FIRMWARE

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ADDITIONAL RESOURCES

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OPTIONAL ACCESSORIES

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INSTALLATION INSTRUCTIONS P1/1

STEP 1

Remove the factory radio

If using head unit adapter (sold separately), connect HRR-NI2 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-NI2 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-NI2 T-harness and match the wire functions.

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

STEP 2

- Unlug the HRR-NI2 4-pin white and 4-pin green connectors.
- Connect the HRR-NI2 4-pin white to 4-pin white connector with RCAs. Connect the 4-pin green to 4-pin green connector with RCAs.
- Connect the RCAs to the radio outputs: white/left front, gray/right front, green/left rear, purple/right rear.

STEP 3

- Plug in the 10-pin white connector from cable A to NI2 main harness.
- Connect both the 20-pin and 40-pin connectors of HRR-NI2 T-harness to the factory radio harness.

STEP 4

- Plug the harnesses into the aftermarket radio.
- Connect the backup cam cable into the aftermarket radio (if equipped).
- Connect either the blue/yellow wire (Kenwood/JVC) or the 3.5mm to the steering control input of the radio.

STEP 6

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

360 camera controls (with vehicle in reverse)

SEEK UP - change view

SEEK DOWN - change view

To set CLOCK in instrument cluster:

- Turn ignition on
- Press foot brake 5 times and HOLD on the 5th push.
- Apply parking/e-brake and keep holding the foot brake.

Press **VOLUME UP** or **DOWN** to adjust minutes

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Press **SEEK DOWN** for AM/PM vs 24hr clock display

- Release foot brake and clock is set.

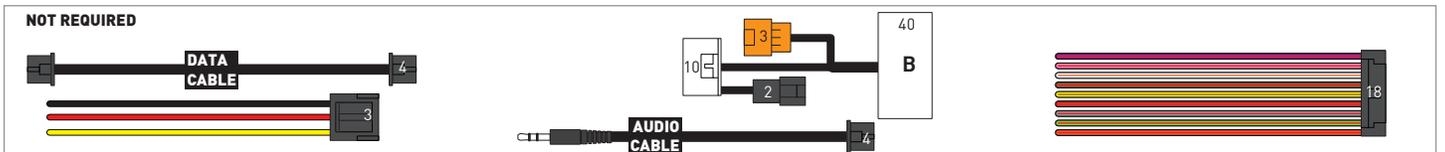
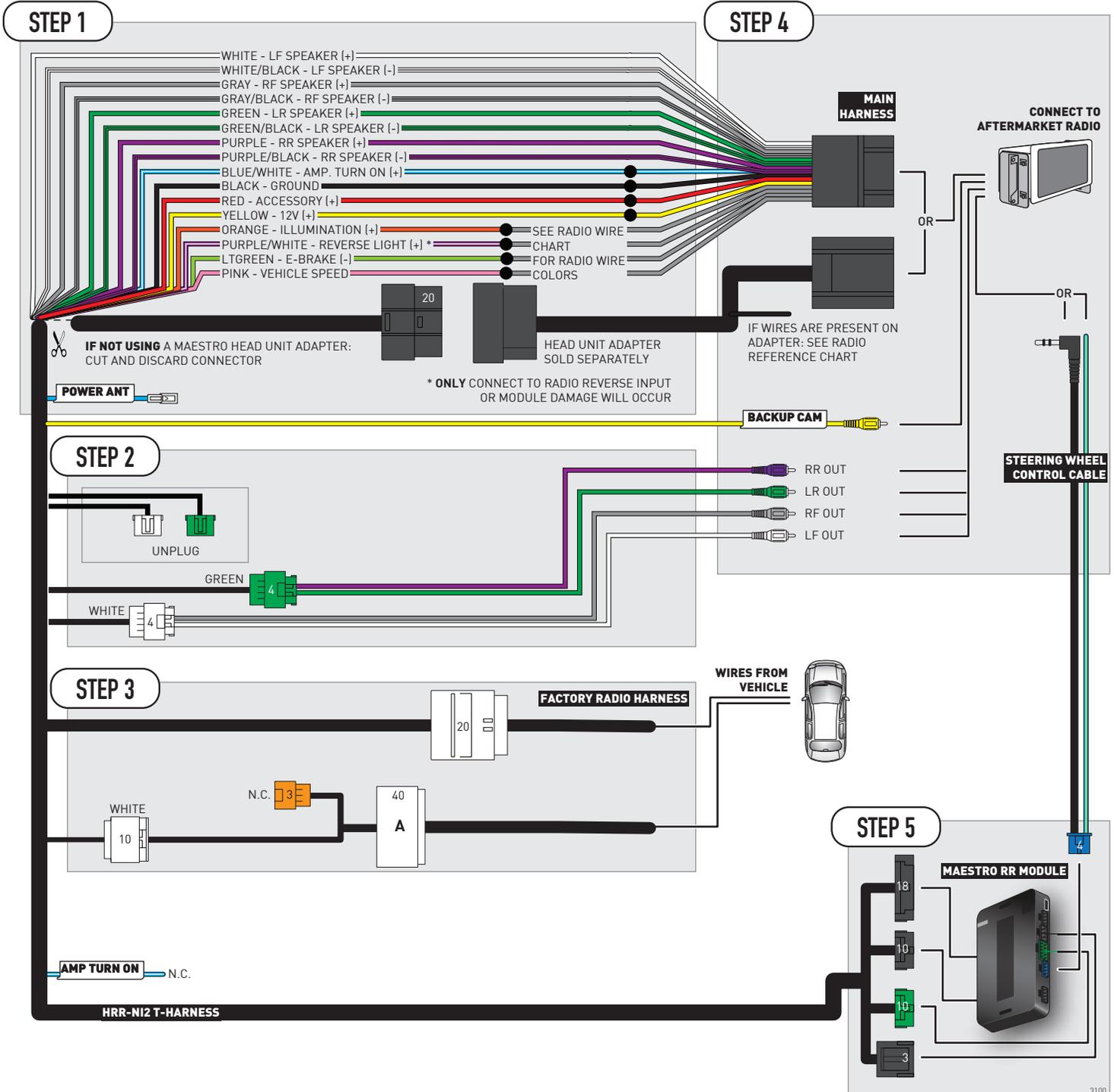
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- Press SOURCE button on wheel.
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Repeat as needed to cycle through all sources on the radio.

WIRING DIAGRAM



RADIO WIRE REFERENCE CHART

NI2 T-harness 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
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A
Power Antenna	(+)	Blue	Blue	Blue	Blue/White	Blue or Blue/White

Head unit adapter wiring (optional accessory, sold separately)

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

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

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

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

MODULE DIAGNOSTICS



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

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

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	<p>Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both.</p> <p>Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used.</p> <p>Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button.</p> <p>Refer to radio's owner's manual to verify if the radio has this function:</p> <ul style="list-style-type: none"> • JVC/Kenwood : Steering Wheel Control (ON/OFF): choose ON • Nakamichi : if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu. • Sony : Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu. • Other brands – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.
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The steering wheel controls or accessory power are not working.	<p>Verify module has been programmed.</p> <p>Turn vehicle off, unplug all RR connections and hold the button while plugging all connectors back in. Release the button when the LED on module flashes rapidly RED. Ensure all connectors are fully seated and turn the vehicle back on.</p> <p>CAN connections may require wiring to another location so ensure the correct vehicle guide is being followed.</p>

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- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-NI2 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-NI2 T-harness and match the wire functions.

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

STEP 2

- Determine if the vehicle has a factory amplifier. Look for badges on the radio, door panels and dash that indicate the presence of an amplifier (ex: BOSE).

If the vehicle DOES NOT have a factory amplifier:

- Plug in the 4-pin white connectors.
- Plug in the 4-pin green connectors.

If the vehicle DOES have a factory amplifier:

- Unlug the HRR-NI2 4-pin white and 4-pin green connectors.
- Connect the HRR-NI2 4-pin white to 4-pin white connector with RCAs. Connect the 4-pin green to 4-pin green connector with RCAs.
- Connect the RCAs to the radio outputs: white/left front, gray/right front, green/left rear, purple/right rear.

STEP 3

- Plug in the 10-pin white connector from cable A to NI2 main harness.
- Connect both the 20-pin and 40-pin connectors of HRR-NI2 T-harness to the factory radio harness.
- Cut red/brown and yellow/brown wires on cable A near the 40-pin connector. Tape up the 40-pin side of the cut wires.

STEP 4

- Extend the othe side of the red/brown and yellow/brown wires to BCM 40-pin black connector (refer to diagram).
- Connect red/brown wire to blue wire, pin 20.
- Connect yellow/brown wire to pink wire, pin 19.

STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup cam cable into the aftermarket radio (if equipped).
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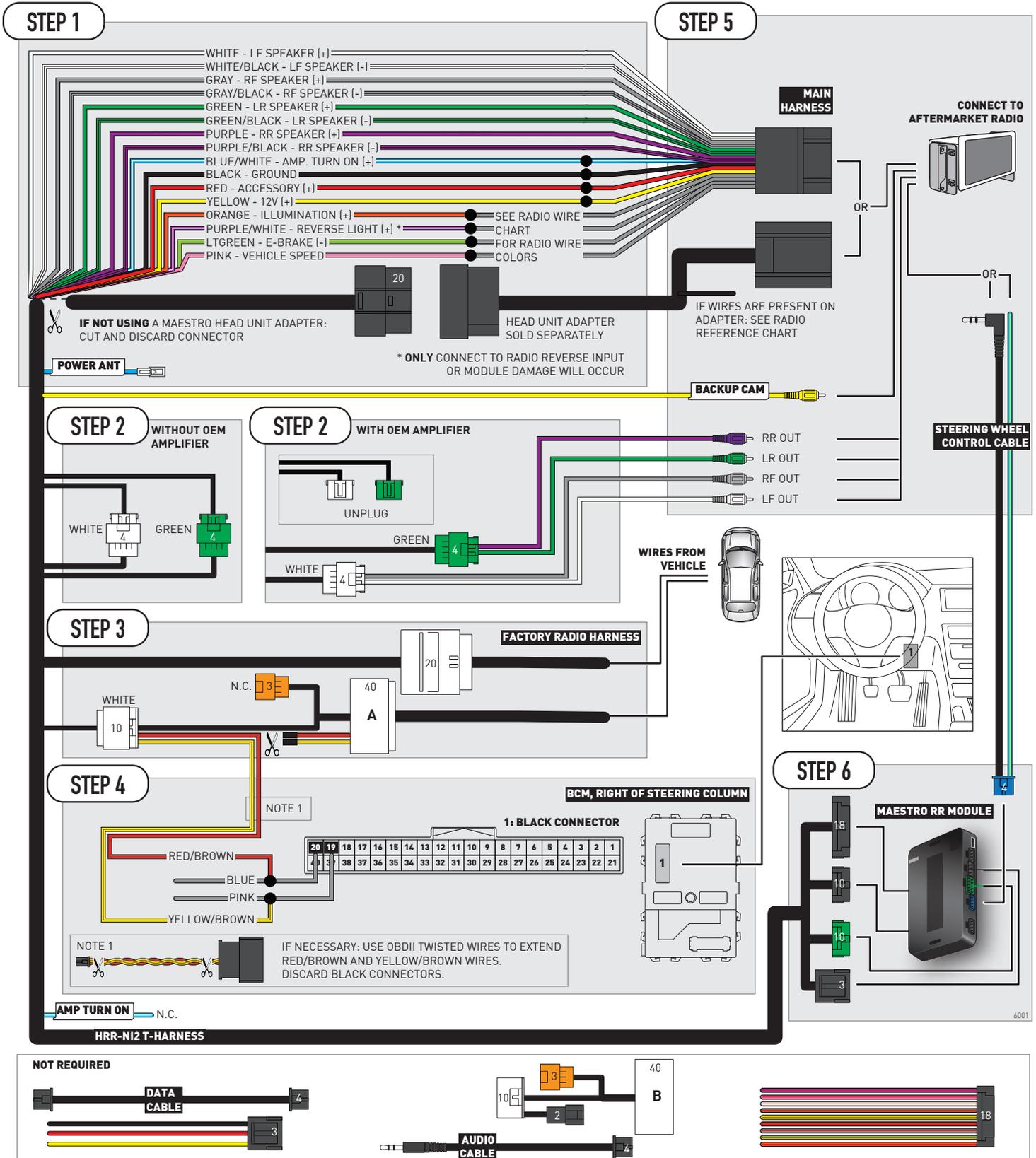
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Note: only connect purple/white wire to radio reverse input or module damage will occur.

STEP 2

- Plug in the 4-pin white connectors.
- Plug in the 4-pin green connectors.

STEP 3

- Plug in the 10-pin white connector from cable A to NI2 main harness.
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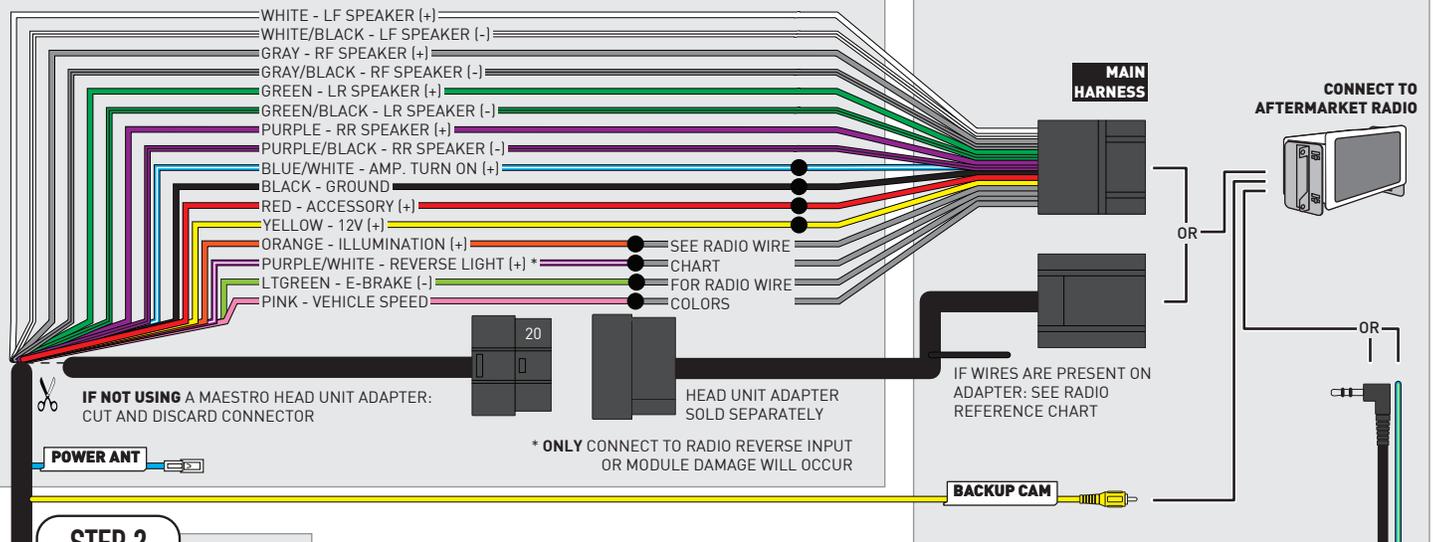
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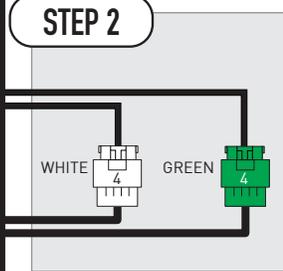
WIRING DIAGRAM

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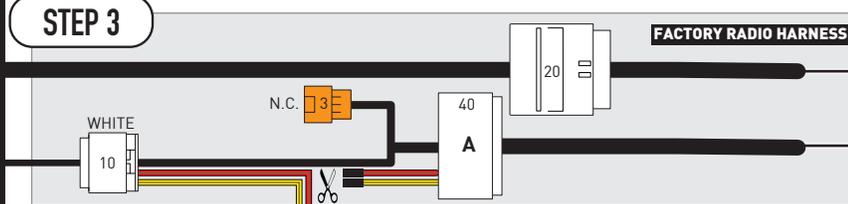


STEP 5

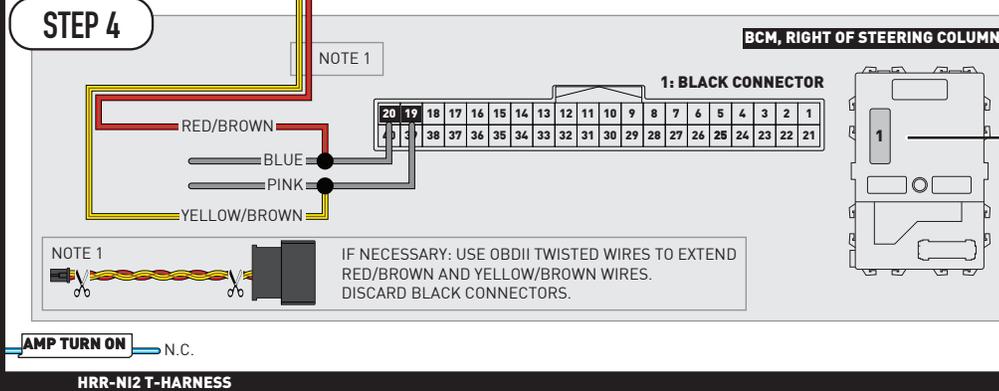
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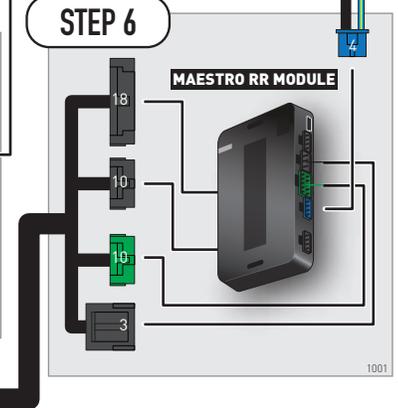
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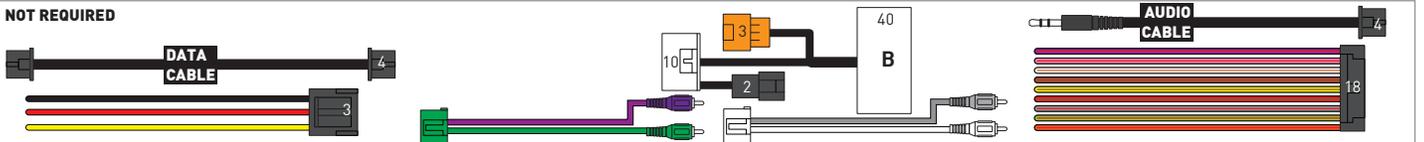
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STEP 6



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Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A
Power Antenna	(+)	Blue	Blue	Blue	Blue/White	Blue or Blue/White

Head unit adapter wiring (optional accessory, sold separately)

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

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

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

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

MODULE DIAGNOSTICS



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

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

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	<p>Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both.</p> <p>Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used.</p> <p>Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button.</p> <p>Refer to radio's owner's manual to verify if the radio has this function:</p> <ul style="list-style-type: none"> • JVC/Kenwood : Steering Wheel Control (ON/OFF): choose ON • Nakamichi : if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu. • Sony : Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu. • Other brands – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.
Backup camera is not displayed.	<p>If radio doesn't switch to camera input, ensure purple/white from the N12 harness is connected ONLY to radio reverse input wire. Do not power a camera off it.</p> <p>If radio switches to blank image, verify yellow "BACK UP CAMERA" RCA is connected to the correct input. Most radios have a yellow "R CAM" or "CAM" input. Pioneer models may use a brown "BC IN" input.</p>
The radio does not turn ON.	<p>If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully.</p> <p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p>
The steering wheel controls or accessory power are not working.	<p>Verify module has been programmed.</p> <p>Turn vehicle off, unplug all RR connections and hold the button while plugging all connectors back in. Release the button when the LED on module flashes rapidly RED. Ensure all connectors are fully seated and turn the vehicle back on.</p> <p>CAN connections may require wiring to another location so ensure the correct vehicle guide is being followed.</p>

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.12voldata.com/forum/

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

2020-2021

NISSAN TITAN

8INCH TOUCHSCREEN WITHOUT NAV WITHOUT BOSE

RETAINS STEERING WHEEL CONTROLS AND MORE!



PRODUCTS REQUIRED

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iDatalink Maestro HRR-NI2 Installation Harness
non-iDatalink radio

PROGRAMMED FIRMWARE

ADS-RR(SR)-NI01-AS

ADDITIONAL RESOURCES

[Maestro RR2 Programmable Outputs Guide](#)

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HEAD UNIT ADAPTER:
ACC-HU-PI01, SON1, KEN1, KEN2, ALP1

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NEED HELP?

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INSTALLATION INSTRUCTIONS P1/1

STEP 1

Remove the factory radio

If using head unit adapter (sold separately), connect HRR-NI2 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-NI2 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-NI2 T-harness and match the wire functions.

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

STEP 2

- Plug in the 4-pin white connectors.
- Plug in the 4-pin green connectors.

STEP 3

- Plug in the 10-pin white connector from cable A to NI2 main harness.
- Connect both the 20-pin and 40-pin connectors of HRR-NI2 T-harness to the factory radio harness.
- Cut red/brown and yellow/brown wires on cable A near the 40-pin connector. Tape up the 40-pin side of the cut wires.

STEP 4

- Extend the othe side of the red/brown and yellow/brown wires to BCM 40-pin black connector (refer to diagram).
- Connect red/brown wire to blue wire, pin 20.
- Connect yellow/brown wire to pink wire, pin 19.

STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup cam cable into the aftermarket radio (if equipped).
- Connect either the blue/yellow wire (Kenwood/JVC) or the 3.5mm to the steering control input of the radio.

STEP 6

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

360 camera controls (with vehicle in reverse)

SEEK UP - change view

SEEK DOWN - change view

To set CLOCK in instrument cluster:

- Turn ignition on
- Press foot brake 5 times and HOLD on the 5th push.
- Apply parking/e-brake and keep holding the foot brake.

Press **VOLUME UP** or **DOWN** to adjust minutes

Press **SEEK UP** to adjust hour

Press **SEEK DOWN** for AM/PM vs 24hr clock display

- Release foot brake and clock is set.

Steering wheel control note

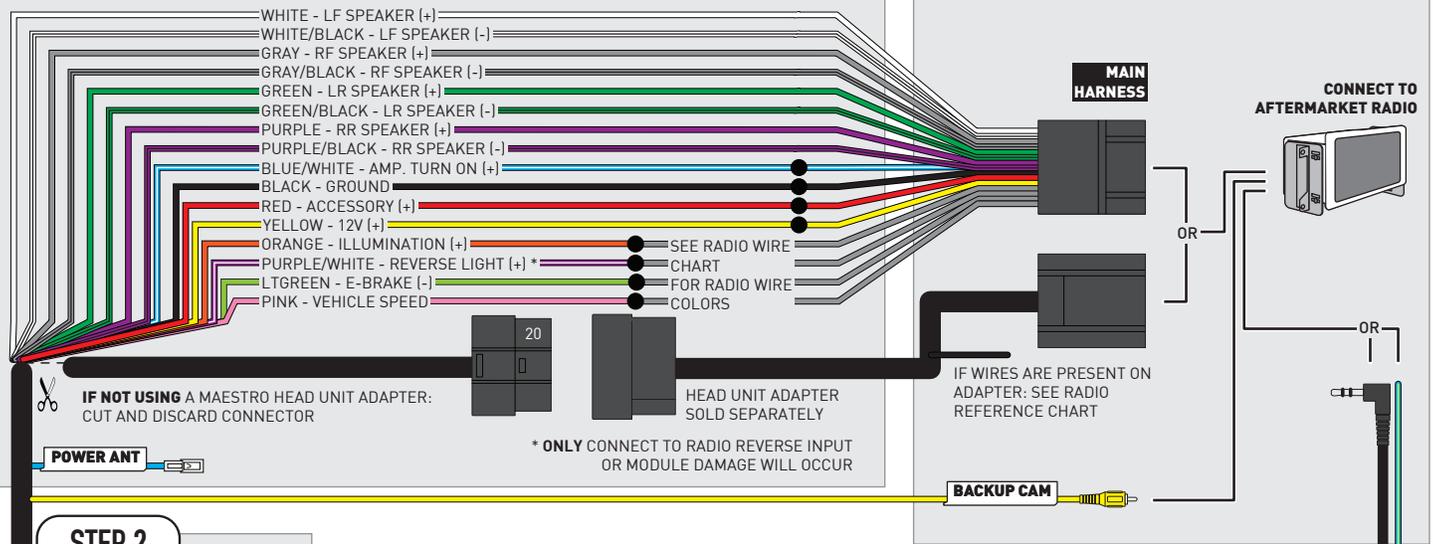
To use "SOURCE" steering wheel button to change radio source:

- Press SOURCE button on wheel.
- Instrument cluster will display "Music Box."
- Press OK button on wheel.

Repeat as needed to cycle through all sources on the radio.

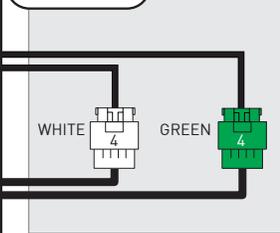
WIRING DIAGRAM

STEP 1

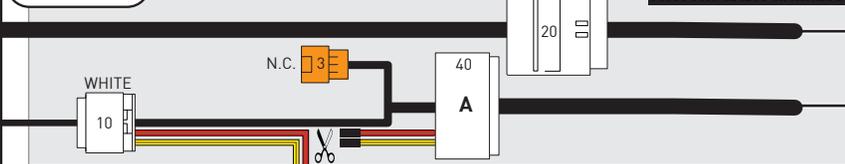


STEP 5

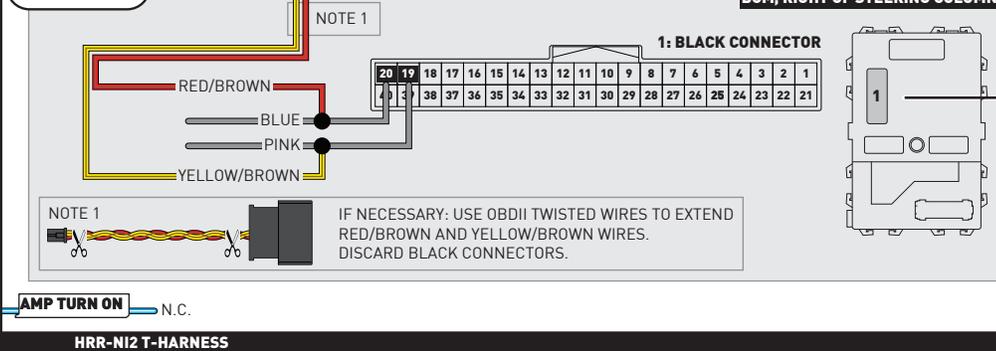
STEP 2



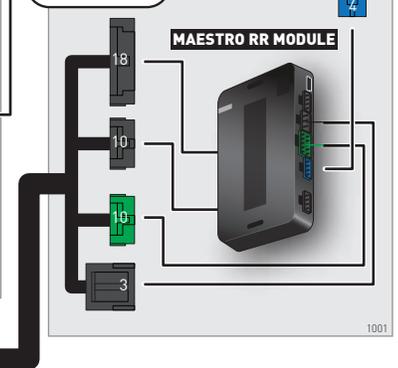
STEP 3



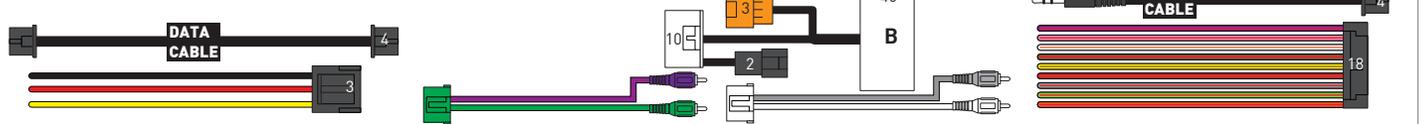
STEP 4



STEP 6



NOT REQUIRED



RADIO WIRE REFERENCE CHART

NI2 T-harness 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
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A
Power Antenna	(+)	Blue	Blue	Blue	Blue/White	Blue or Blue/White

Head unit adapter wiring (optional accessory, sold separately)

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

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

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

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

MODULE DIAGNOSTICS



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

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

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	<p>Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both.</p> <p>Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used.</p> <p>Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button.</p> <p>Refer to radio's owner's manual to verify if the radio has this function:</p> <ul style="list-style-type: none"> • JVC/Kenwood : Steering Wheel Control (ON/OFF): choose ON • Nakamichi : if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu. • Sony : Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu. • Other brands – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.
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The radio does not turn ON.	<p>If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully.</p> <p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p>
The steering wheel controls or accessory power are not working.	<p>Verify module has been programmed.</p> <p>Turn vehicle off, unplug all RR connections and hold the button while plugging all connectors back in. Release the button when the LED on module flashes rapidly RED. Ensure all connectors are fully seated and turn the vehicle back on.</p> <p>CAN connections may require wiring to another location so ensure the correct vehicle guide is being followed.</p>

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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RETAINS STEERING WHEEL CONTROLS AND MORE!



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non-iDatalink radio

PROGRAMMED FIRMWARE

ADS-RR(SR)-NI01-AS

ADDITIONAL RESOURCES

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OPTIONAL ACCESSORIES

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ACC-HU-PI01, SON1, KEN1, KEN2, ALP1

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NEED HELP?

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INSTALLATION INSTRUCTIONS P1/1

STEP 1

Remove the factory radio

If using head unit adapter (sold separately), connect HRR-NI2 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-NI2 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-NI2 T-harness and match the wire functions.

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

STEP 2

- Determine if the vehicle has a factory amplifier. Look for badges on the radio, door panels and dash that indicate the presence of an amplifier (ex: BOSE).

If the vehicle DOES NOT have a factory amplifier:

- Plug in the 4-pin white connectors.
- Plug in the 4-pin green connectors.

If the vehicle DOES have a factory amplifier:

- Unplug the HRR-NI2 4-pin white and 4-pin green connectors.
- Connect the HRR-NI2 4-pin white to 4-pin white connector with RCAs. Connect the 4-pin green to 4-pin green connector with RCAs.
- Connect the RCAs to the radio outputs: white/left front, gray/right front, green/left rear, purple/right rear.

STEP 3

- Plug in the 10-pin white connector from cable A to NI2 main harness.
- Connect both the 20-pin and 40-pin connectors of HRR-NI2 T-harness to the factory radio harness.
- Cut red/brown and yellow/brown wires on cable A near the 40-pin connector. Tape up the 40-pin side of the cut wires.

STEP 4

- Extend the other side of the red/brown and yellow/brown wires to BCM 40-pin black connector (refer to diagram).
- Connect red/brown wire to blue wire, pin 20.
- Connect yellow/brown wire to pink wire, pin 19.

STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup cam cable into the aftermarket radio (if equipped).
- Connect either the blue/yellow wire (Kenwood/JVC) or the 3.5mm to the steering control input of the radio.

STEP 6

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

360 camera controls (with vehicle in reverse)

SEEK UP - change view

SEEK DOWN - change view

To set CLOCK in instrument cluster:

- Turn ignition on
- Press foot brake 5 times and HOLD on the 5th push.
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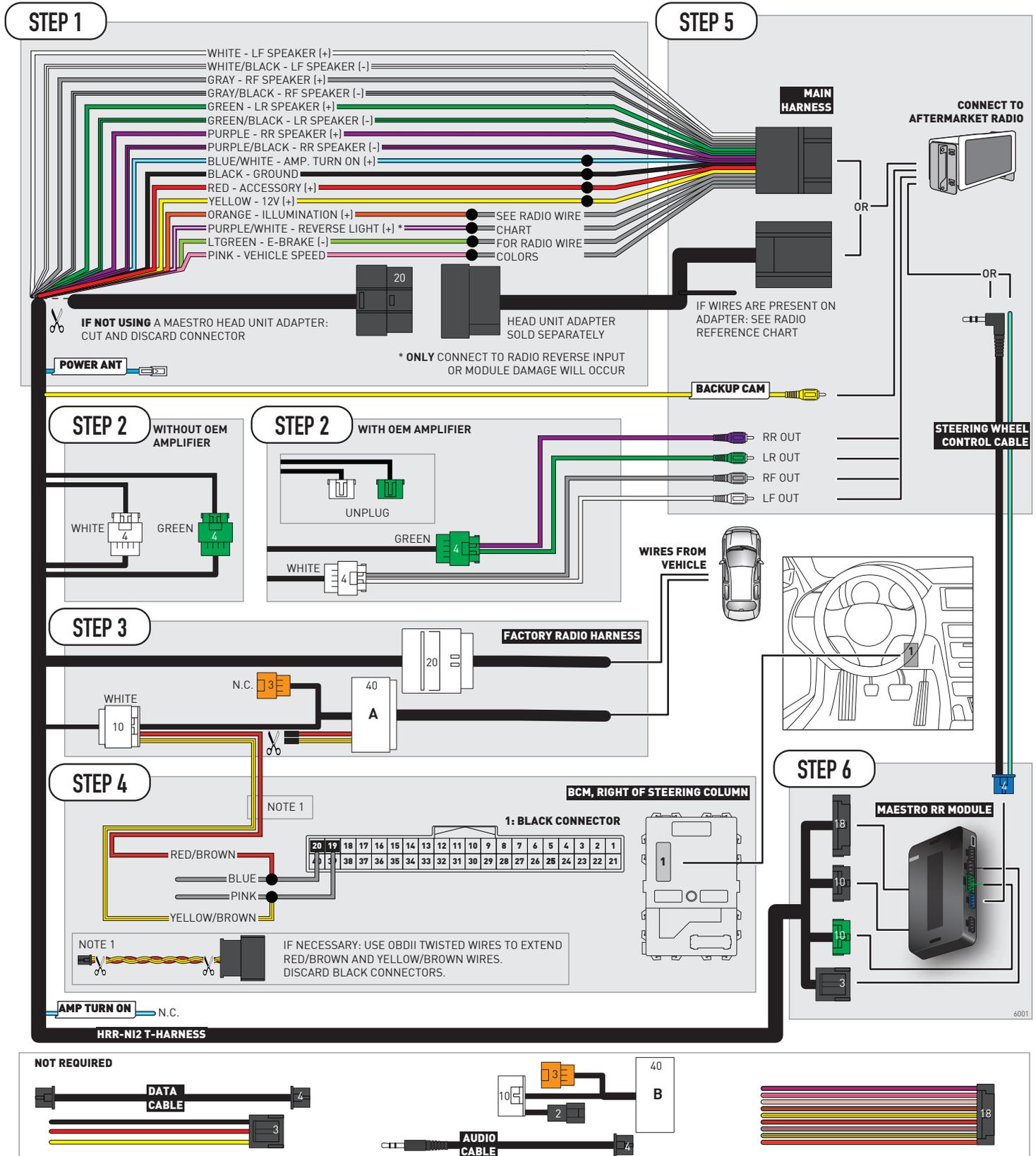
Steering wheel control note

To use "**SOURCE**" steering wheel button to change radio source:

- Press SOURCE button on wheel.
- Instrument cluster will display "Music Box."
- Press OK button on wheel.

Repeat as needed to cycle through all sources on the radio.

WIRING DIAGRAM



RADIO WIRE REFERENCE CHART

NI2 T-harness 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
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A
Power Antenna	(+)	Blue	Blue	Blue	Blue/White	Blue or Blue/White

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

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E-Brake	(-)	LtGreen	LtGreen
Reverse Light*	(+)	Purple/White	Purple/White
Steering Wheel Controls	(DATA)	Blue/Yellow	Blue/Yellow

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2020-2021

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7INCH TOUCHSCREEN WITH CARPLAY OR ANDROID AUTO

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INSTALLATION INSTRUCTIONS P1/1

STEP 1

Remove the factory radio

If using head unit adapter (sold separately), connect HRR-NI2 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-NI2 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-NI2 T-harness and match the wire functions.

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

STEP 2

- Plug in the 4-pin white connectors.
- Plug in the 4-pin green connectors.

STEP 3

- Plug in the 10-pin white connector from cable A to NI2 main harness.
- Connect both the 20-pin and 40-pin connectors of HRR-NI2 T-harness to the factory radio harness.
- Cut red/brown and yellow/brown wires on cable A near the 40-pin connector. Tape up the 40-pin side of the cut wires.

STEP 4

- Extend the othe side of the red/brown and yellow/brown wires to BCM 40-pin connector (refer to diagram).
- Connect red/brown wire to blue wire, pin 4.
- Connect yellow/brown wire to pink wire, pin 3.

STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup cam cable into the aftermarket radio (if equipped).
- Connect either the blue/yellow wire (Kenwood/JVC) or the 3.5mm **to the** steering control input of the radio.

STEP 6

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

360 camera controls (with vehicle in reverse)

SEEK UP - change view

SEEK DOWN - change view

To set CLOCK in instrument cluster:

- Turn ignition on
- Press foot brake 5 times and HOLD on the 5th push.
- Apply parking/e-brake and keep holding the foot brake.

Press **VOLUME UP** or **DOWN** to adjust minutes

Press **SEEK UP** to adjust hour

Press **SEEK DOWN** for AM/PM vs 24hr clock display

- Release foot brake and clock is set.

Steering wheel control note

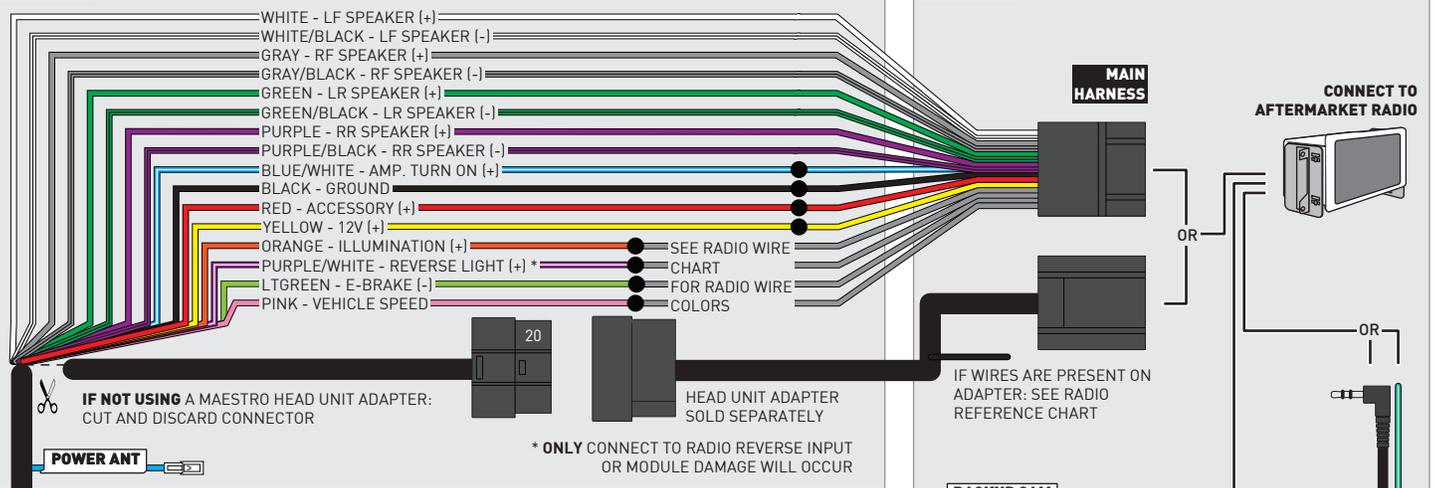
To use "**SOURCE**" steering wheel button to change radio source:

- Press SOURCE button on wheel.
- Instrument cluster will display "Music Box."
- Press OK button on wheel.

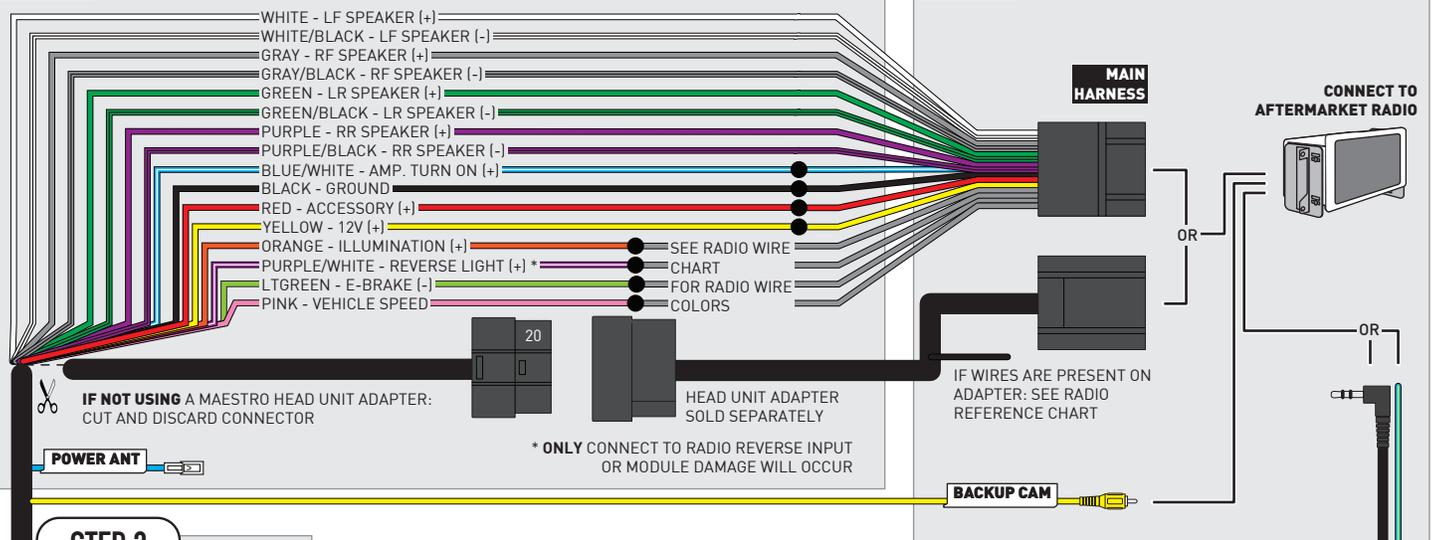
Repeat as needed to cycle through all sources on the radio.

WIRING DIAGRAM

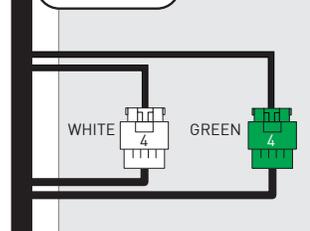
STEP 1



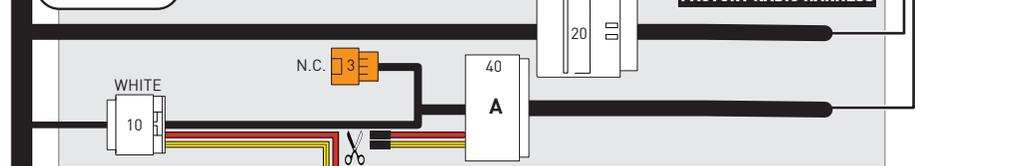
STEP 5



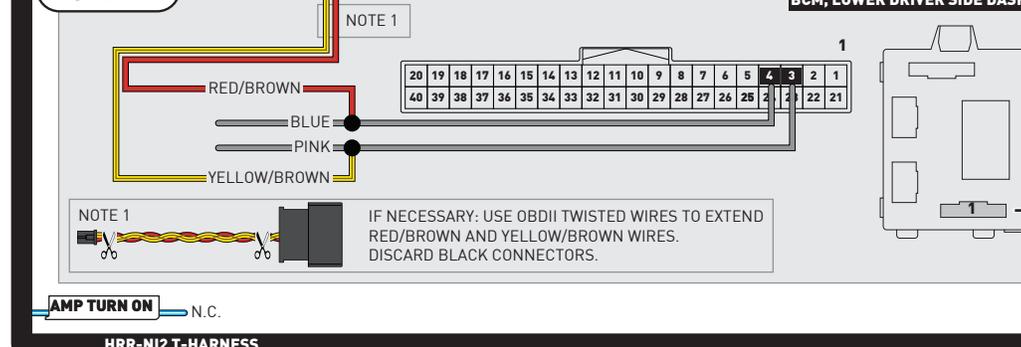
STEP 2



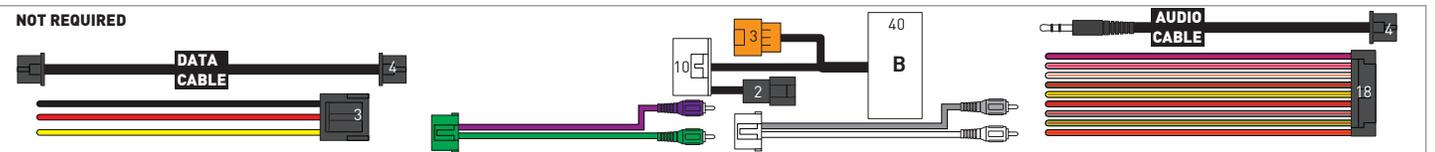
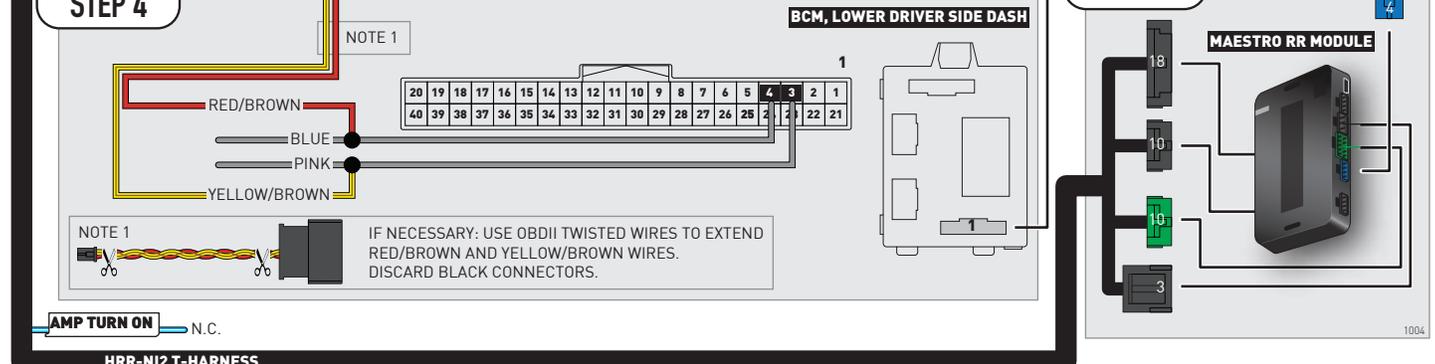
STEP 3



STEP 4



STEP 6



RADIO WIRE REFERENCE CHART

NI2 T-harness 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
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A
Power Antenna	(+)	Blue	Blue	Blue	Blue/White	Blue or Blue/White

Head unit adapter wiring (optional accessory, sold separately)

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

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

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

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

MODULE DIAGNOSTICS



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

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

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	<p>Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both.</p> <p>Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used.</p> <p>Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button.</p> <p>Refer to radio's owner's manual to verify if the radio has this function:</p> <ul style="list-style-type: none"> • JVC/Kenwood : Steering Wheel Control (ON/OFF): choose ON • Nakamichi : if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu. • Sony : Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu. • Other brands – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.
Backup camera is not displayed.	<p>If radio doesn't switch to camera input, ensure purple/white from the NI2 harness is connected ONLY to radio reverse input wire. Do not power a camera off it.</p> <p>If radio switches to blank image, verify yellow "BACK UP CAMERA" RCA is connected to the correct input. Most radios have a yellow "R CAM" or "CAM" input. Pioneer models may use a brown "BC IN" input.</p>
The radio does not turn ON.	<p>If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully.</p> <p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p>
The steering wheel controls or accessory power are not working.	<p>Verify module has been programmed.</p> <p>Turn vehicle off, unplug all RR connections and hold the button while plugging all connectors back in. Release the button when the LED on module flashes rapidly RED. Ensure all connectors are fully seated and turn the vehicle back on.</p> <p>CAN connections may require wiring to another location so ensure the correct vehicle guide is being followed.</p>

MAESTRO RR RESET PROCEDURE:

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

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

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

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

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

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

2020-2021

NISSAN VERSA

7INCH TOUCHSCREEN WITHOUT CARPLAY OR ANDROID AUTO

RETAINS STEERING WHEEL CONTROLS AND MORE!



PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro HRR-NI2 Installation Harness
non-iDatalink radio

PROGRAMMED FIRMWARE

ADS-RR(SR)-NI01-AS

ADDITIONAL RESOURCES

[Maestro RR2 Programmable Outputs Guide](#)

OPTIONAL ACCESSORIES

HEAD UNIT ADAPTER:
ACC-HU-PI01, SON1, KEN1, KEN2, ALP1

WELCOME

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

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

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

NEED HELP?

 1 866 427-2999

 maestro.support@idatalink.com

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

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Wiring Diagram	4
Radio Wire Reference Chart	5
Module Diagnostics	6
Troubleshooting Table	7

INSTALLATION INSTRUCTIONS P1/1

STEP 1

Remove the factory radio

If using head unit adapter (sold separately), connect HRR-NI2 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-NI2 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-NI2 T-harness and match the wire functions.

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

STEP 2

- Plug in the 4-pin white connectors.
- Plug in the 4-pin green connectors.

STEP 3

- Plug in the 10-pin white connector from cable B to NI2 main harness.
- Connect both the 20-pin and 40-pin connectors of HRR-NI2 T-harness to the factory radio harness.
- Cut red/brown and yellow/brown wires on cable B near the 2-pin connector. Discard the 2-pin connector.

STEP 4

- Extend the othe side of the red/brown and yellow/brown wires to BCM 40-pin connector (refer to diagram).
- Connect red/brown wire to blue wire, pin 4.
- Connect yellow/brown wire to pink wire, pin 3.

STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup cam cable into the aftermarket radio (if equipped).
- Connect either the blue/yellow wire (Kenwood/JVC) or the 3.5mm to the steering control input of the radio.

STEP 6

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

360 camera controls (with vehicle in reverse)

SEEK UP - change view

SEEK DOWN - change view

To set CLOCK in instrument cluster:

- Turn ignition on
- Press foot brake 5 times and HOLD on the 5th push.
- Apply parking/e-brake and keep holding the foot brake.

Press **VOLUME UP** or **DOWN** to adjust minutes

Press **SEEK UP** to adjust hour

Press **SEEK DOWN** for AM/PM vs 24hr clock display

- Release foot brake and clock is set.

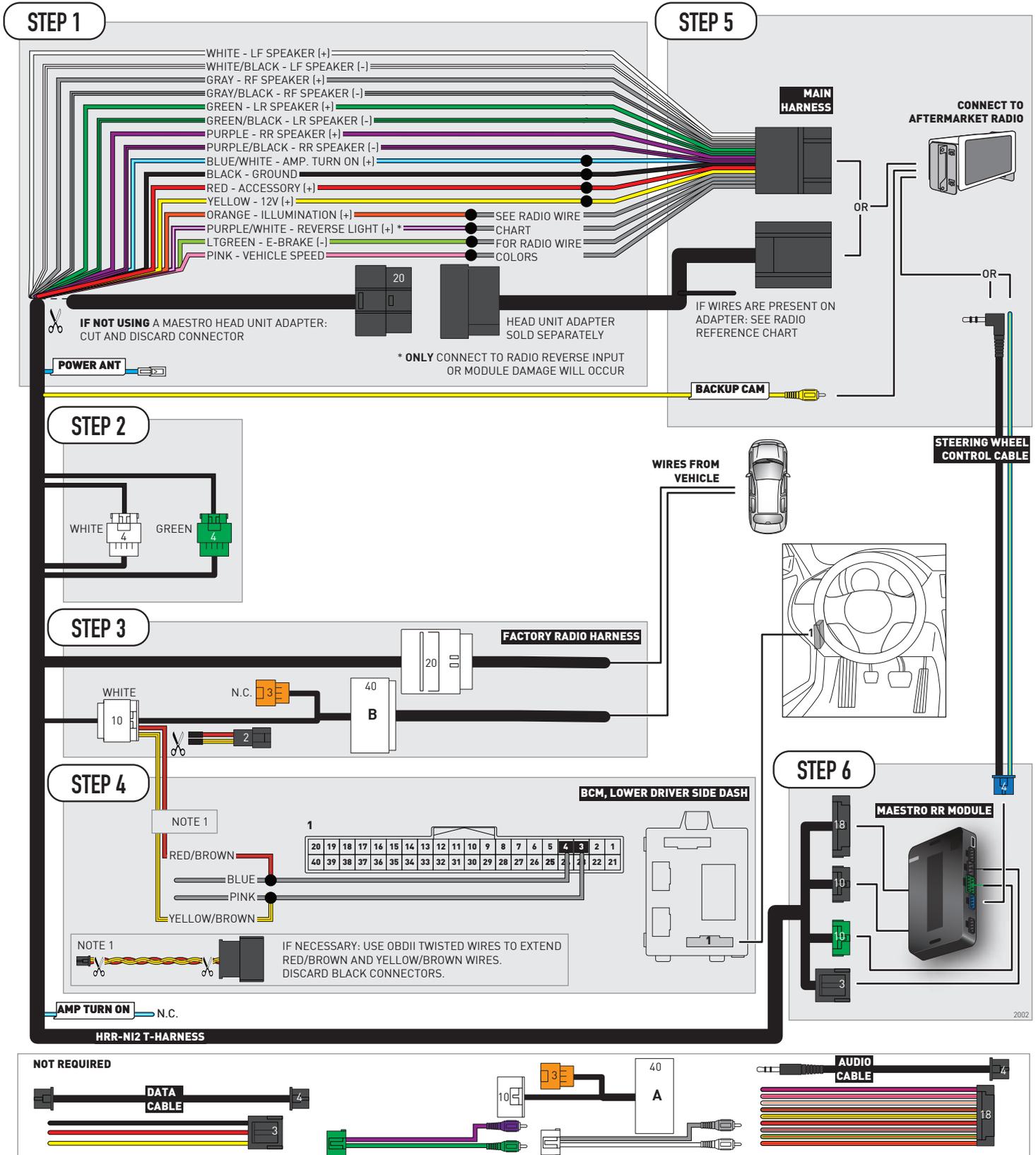
Steering wheel control note

To use "SOURCE" steering wheel button to change radio source:

- Press SOURCE button on wheel.
- Instrument cluster will display "Music Box."
- Press OK button on wheel.

Repeat as needed to cycle through all sources on the radio.

WIRING DIAGRAM



RADIO WIRE REFERENCE CHART

NI2 T-harness 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
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A
Power Antenna	(+)	Blue	Blue	Blue	Blue/White	Blue or Blue/White

Head unit adapter wiring (optional accessory, sold separately)

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

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

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

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

MODULE DIAGNOSTICS



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

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

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	<p>Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both.</p> <p>Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used.</p> <p>Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button.</p> <p>Refer to radio's owner's manual to verify if the radio has this function:</p> <ul style="list-style-type: none"> • JVC/Kenwood : Steering Wheel Control (ON/OFF): choose ON • Nakamichi : if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu. • Sony : Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu. • Other brands – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.
Backup camera is not displayed.	<p>If radio doesn't switch to camera input, ensure purple/white from the N12 harness is connected ONLY to radio reverse input wire. Do not power a camera off it.</p> <p>If radio switches to blank image, verify yellow "BACK UP CAMERA" RCA is connected to the correct input. Most radios have a yellow "R CAM" or "CAM" input. Pioneer models may use a brown "BC IN" input.</p>
The radio does not turn ON.	<p>If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully.</p> <p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p>
The steering wheel controls or accessory power are not working.	<p>Verify module has been programmed.</p> <p>Turn vehicle off, unplug all RR connections and hold the button while plugging all connectors back in. Release the button when the LED on module flashes rapidly RED. Ensure all connectors are fully seated and turn the vehicle back on.</p> <p>CAN connections may require wiring to another location so ensure the correct vehicle guide is being followed.</p>

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.



HOW TO USE THIS INSTALL GUIDE

- 1** Open the Bookmarks menu and find your vehicle OR scroll down until you find the install guide for your vehicle.
- 2** Print only the pages for your vehicle using the advanced options in the Print menu.
- 3** Install your Maestro RR according to the guide for your vehicle.

WARNING

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

RETAINS STEERING WHEEL CONTROLS, VEHICLE SETTINGS, AND MORE!



PRODUCTS REQUIRED

iDataLink Maestro RR or RR2 Radio Replacement Interface
iDataLink Maestro HRR-NI2 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-NI01-DS

ADDITIONAL RESOURCES

[Maestro RR2 Programmable Outputs Guide](#)

OPTIONAL ACCESSORIES

K40
ELECTRONICS
ESCORT

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

HEAD UNIT ADAPTER:
ACC-HU-PI01, SON1, KEN1, KEN2, ALP1

WELCOME

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

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INSTALLATION INSTRUCTIONS P1/1

STEP 1

Remove the factory radio

If using head unit adapter (sold separately), connect HRR-NI2 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-NI2 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-NI2 T-harness and match the wire functions.

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

STEP 2

- Plug in the 4-pin white connectors.
- Plug in the 4-pin green connectors.
- Cut the brown/red and brown/yellow wires on HRR-NI2 T-harness near the 10-pin white connector. Tape up the 10-pin side of the cut wires.
- Extend the othe side of the brown/red and brown/yellow wires to radio 40-pin OEM connector.
- Connect brown/red wire to purple/light blue wire, pin 21.
- Connect brown/yellow wire to purple/light green wire, pin 1.
- Plug in the 10-pin white connector from cable B to NI2 main harness.
- Connect both the 20-pin and 40-pin connectors of HRR-NI2 T-harness to the factory radio harness.
- Cut red/brown and yellow/brown wires on cable B near the 2-pin connector. Discard the 2-pin connector.

STEP 3

- Extend the othe side of the red/brown and yellow/brown wires to BCM 40-pin green connector (refer to diagram).
- Connect red/brown wire to blue or purple/blue wire, pin 20.
- Connect yellow/brown wire to pink or purple/pink wire, pin 40.

STEP 4

- Plug the harnesses into the aftermarket radio.
- Connect the backup cam cable into the aftermarket radio

(if equipped).

- Plug the Data cable to the data port of the aftermarket radio.

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

STEP 5

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

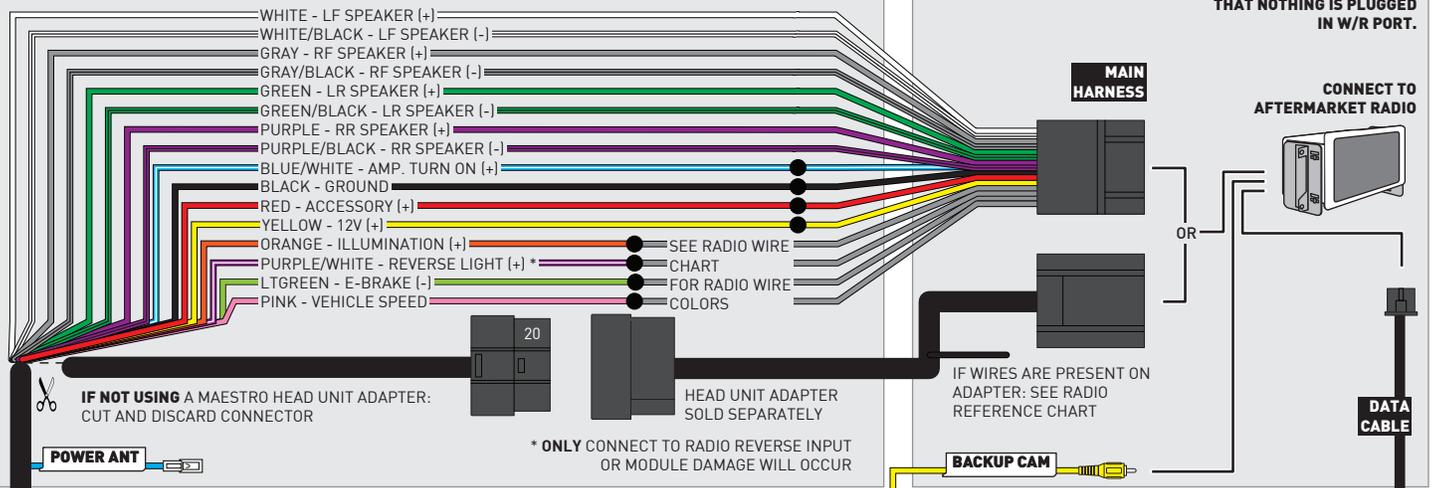
360 CAMERA CONTROLS (with vehicle in reverse)

SEEK UP - change view

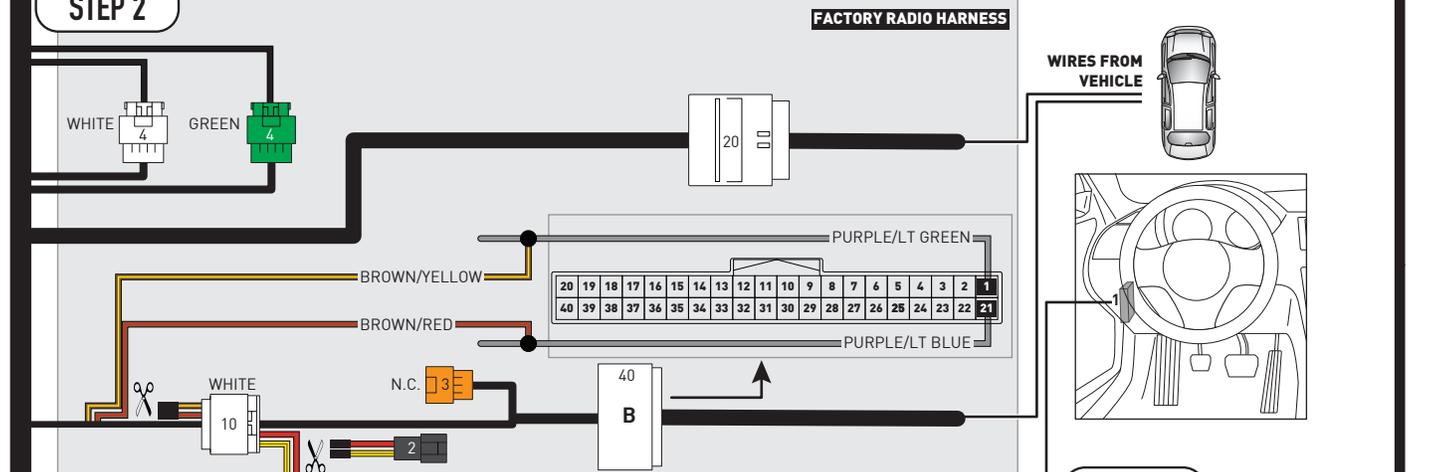
SEEK DOWN - change view

WIRING DIAGRAM

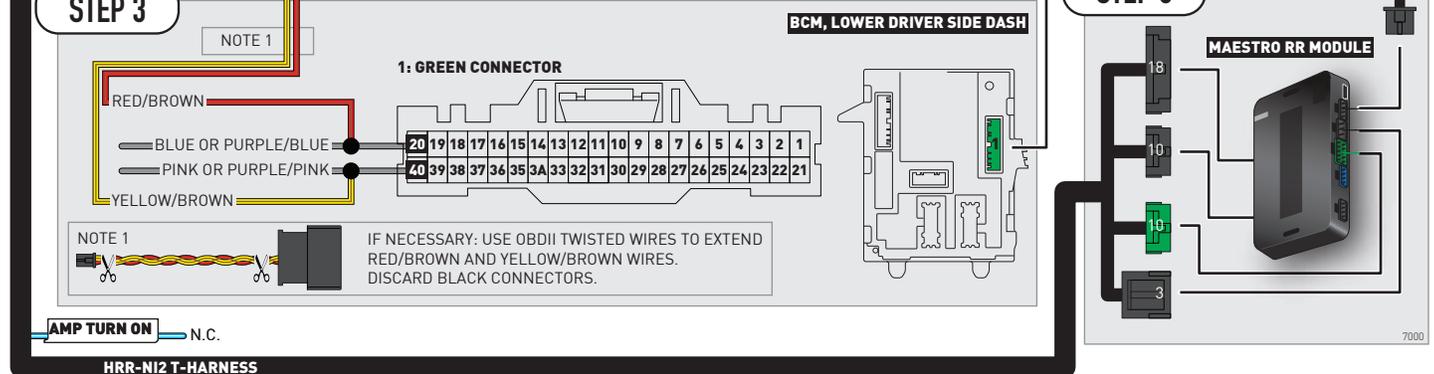
STEP 1



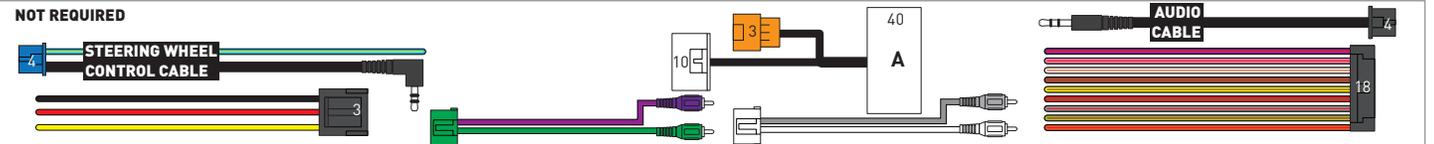
STEP 2



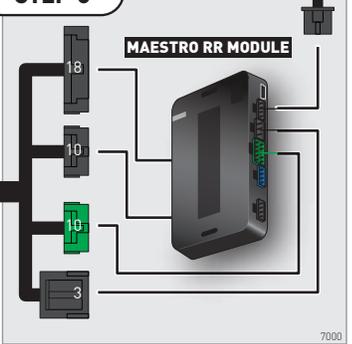
STEP 3



NOT REQUIRED



STEP 5



RADIO WIRE REFERENCE CHART

NI2 T-harness 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
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A
Power Antenna	(+)	Blue	Blue	Blue	Blue/White	Blue or Blue/White

Head unit adapter wiring (optional accessory, sold separately)

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

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

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

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

MODULE DIAGNOSTICS



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

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

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	<p>Ensure OBDII connector is securely attached to the OBDII connector of the vehicle.</p> <p>If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the RED/BROWN wire is on PIN 6 and the YELLOW/BROWN wire is connected to PIN 14 of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options.</p> <p>Reset the RR.</p>
Backup camera is not displayed.	<p>If radio doesn't switch to camera input, ensure purple/white from the NI2 harness is connected ONLY to radio reverse input wire. Do not power a camera off it.</p> <p>If radio switches to blank image, verify yellow "BACK UP CAMERA" RCA is connected to the correct input. Most radios have a yellow "R CAM" or "CAM" input. Pioneer models may use a brown "BC IN" input.</p>
The light on the Maestro is blinking RED TWICE and the radio IS turning on.	<p>Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty.</p> <p>Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.</p>
The light on the Maestro is blinking RED TWICE but the radio is NOT turning on.	<p>If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well.</p> <p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p>
The steering wheel controls or accessory power are not working.	<p>Verify module has been programmed.</p> <p>Turn vehicle off, unplug all RR connections and hold the button while plugging all connectors back in. Release the button when the LED on module flashes rapidly RED. Ensure all connectors are fully seated and turn the vehicle back on.</p> <p>CAN connections may require wiring to another location so ensure the correct vehicle guide is being followed.</p> <p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p> <p>If LED is blinking RED TWICE, refer to the step above for troubleshooting.</p>

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.

2019-2022

NISSAN ALTIMA

8INCH TOUCHSCREEN WITH BOSE AND NAV

RETAINS STEERING WHEEL CONTROLS, VEHICLE SETTINGS, AND MORE!



PRODUCTS REQUIRED

iDataLink Maestro RR or RR2 Radio Replacement Interface
iDataLink Maestro HRR-NI2 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-NI01-DS

ADDITIONAL RESOURCES

[Maestro RR2 Programmable Outputs Guide](#)

OPTIONAL ACCESSORIES

K40
ELECTRONICS
ESCORT

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

HEAD UNIT ADAPTER:
ACC-HU-PI01, SON1, KEN1, KEN2, ALP1

WELCOME

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

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

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Installation Instructions	3
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INSTALLATION INSTRUCTIONS P1/1

STEP 1

Remove the factory radio

If using head unit adapter (sold separately), connect HRR-NI2 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-NI2 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-NI2 T-harness and match the wire functions.

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

STEP 2

- Unplug the HRR-NI2 4-pin white and 4-pin green connectors.
- Connect the HRR-NI2 4-pin white to 4-pin white connector with RCAs. Connect the 4-pin green to 4-pin green connector with RCAs.
- Connect the RCAs to the radio outputs: white/left front, gray/right front, green/left rear, purple/right rear.

STEP 3

- Plug in the 10-pin white connector from cable A to NI2 main harness.
- Connect both the 20-pin and 40-pin connectors of HRR-NI2 T-harness to the factory radio harness.
- Cut red/brown and yellow/brown wires on cable A near the 40-pin connector. Tape up the 40-pin side of the cut wires.

STEP 4

- Extend the other side of the red/brown and yellow/brown wires to BCM 40-pin green connector (refer to diagram).
- Connect red/brown wire to blue or purple/blue wire, pin 20.
- Connect yellow/brown wire to pink or purple/pink wire, pin 40.

STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup cam cable into the aftermarket radio (if equipped).

- Plug the Data cable to the data port of the aftermarket radio.

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

STEP 6

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

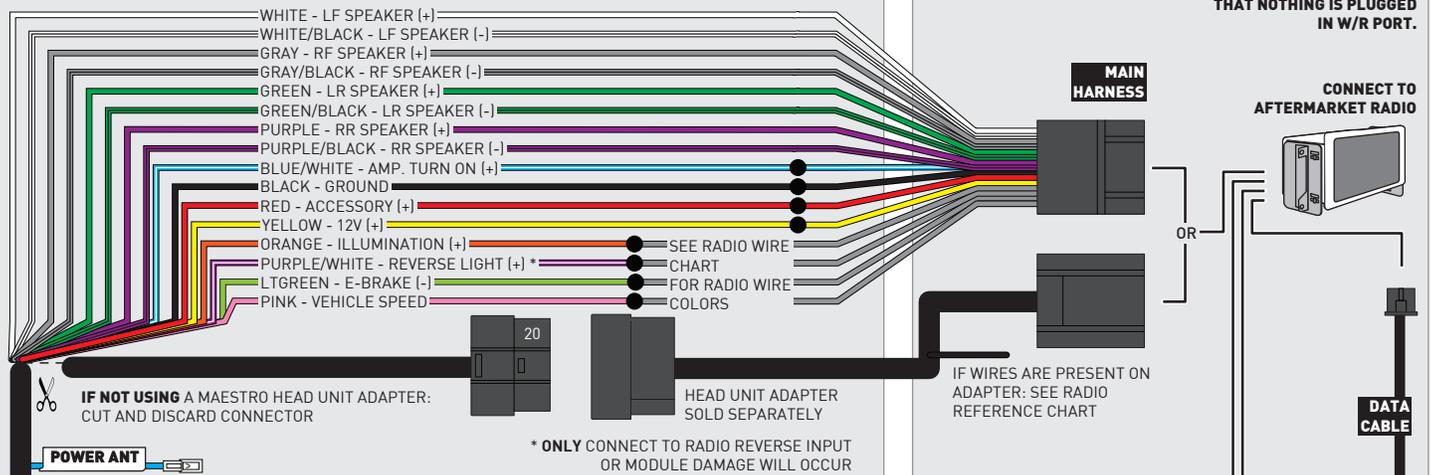
360 CAMERA CONTROLS (with vehicle in reverse)

SEEK UP - change view

SEEK DOWN - change view

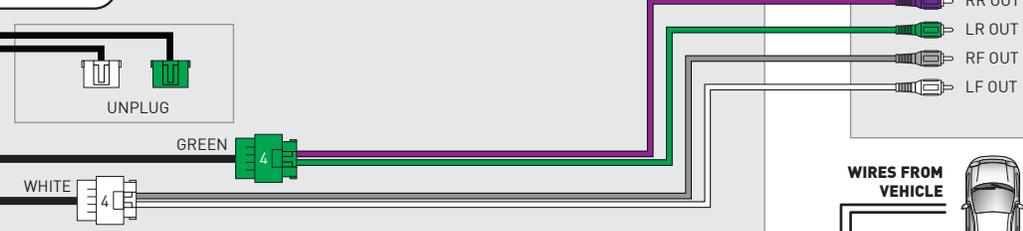
WIRING DIAGRAM

STEP 1

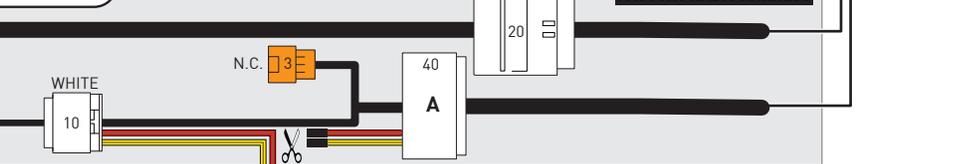


PIONEER RADIO: ENSURE THAT NOTHING IS PLUGGED IN W/R PORT.

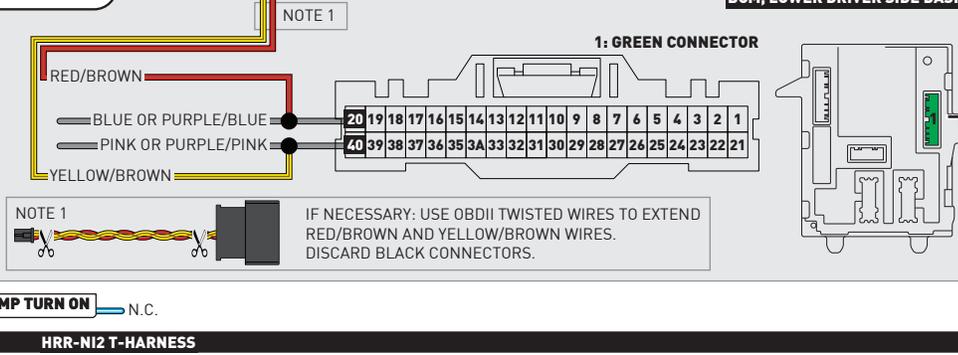
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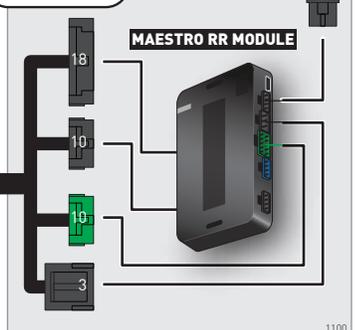
STEP 3



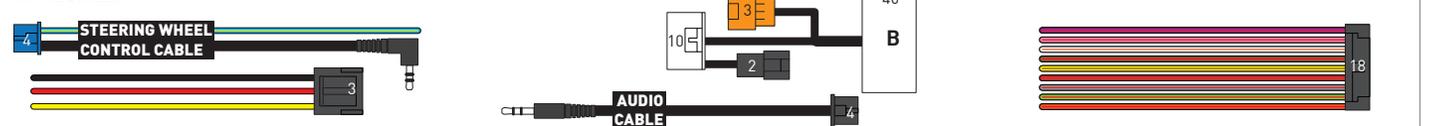
STEP 4



STEP 6



NOT REQUIRED



RADIO WIRE REFERENCE CHART

NI2 T-harness 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
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A
Power Antenna	(+)	Blue	Blue	Blue	Blue/White	Blue or Blue/White

Head unit adapter wiring (optional accessory, sold separately)

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

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

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

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

MODULE DIAGNOSTICS



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

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

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	<p>Ensure OBDII connector is securely attached to the OBDII connector of the vehicle.</p> <p>If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the RED/BROWN wire is on PIN 6 and the YELLOW/BROWN wire is connected to PIN 14 of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options.</p> <p>Reset the RR.</p>
Backup camera is not displayed.	<p>If radio doesn't switch to camera input, ensure purple/white from the NI2 harness is connected ONLY to radio reverse input wire. Do not power a camera off it.</p> <p>If radio switches to blank image, verify yellow "BACK UP CAMERA" RCA is connected to the correct input. Most radios have a yellow "R CAM" or "CAM" input. Pioneer models may use a brown "BC IN" input.</p>
The light on the Maestro is blinking RED TWICE and the radio IS turning on.	<p>Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty.</p> <p>Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.</p>
The light on the Maestro is blinking RED TWICE but the radio is NOT turning on.	<p>If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well.</p> <p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p>
The steering wheel controls or accessory power are not working.	<p>Verify module has been programmed.</p> <p>Turn vehicle off, unplug all RR connections and hold the button while plugging all connectors back in. Release the button when the LED on module flashes rapidly RED. Ensure all connectors are fully seated and turn the vehicle back on.</p> <p>CAN connections may require wiring to another location so ensure the correct vehicle guide is being followed.</p> <p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p> <p>If LED is blinking RED TWICE, refer to the step above for troubleshooting.</p>

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 P1/1

STEP 1

Remove the factory radio

If using head unit adapter (sold separately), connect HRR-NI2 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-NI2 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-NI2 T-harness and match the wire functions.

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

STEP 2

- Plug in the 4-pin white connectors.
- Plug in the 4-pin green connectors.

STEP 3

- Plug in the 10-pin white connector from cable A to NI2 main harness.
- Connect both the 20-pin and 40-pin connectors of HRR-NI2 T-harness to the factory radio harness.
- Cut red/brown and yellow/brown wires on cable A near the 40-pin connector. Tape up the 40-pin side of the cut wires.

STEP 4

- Extend the othe side of the red/brown and yellow/brown wires to BCM 40-pin green connector (refer to diagram).
- Connect red/brown wire to blue or purple/blue wire, pin 20.
- Connect yellow/brown wire to pink or purple/pink wire, pin 40.

STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup cam cable into the aftermarket radio (if equipped).
- Plug the Data cable to the data port of the aftermarket radio.

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

STEP 6

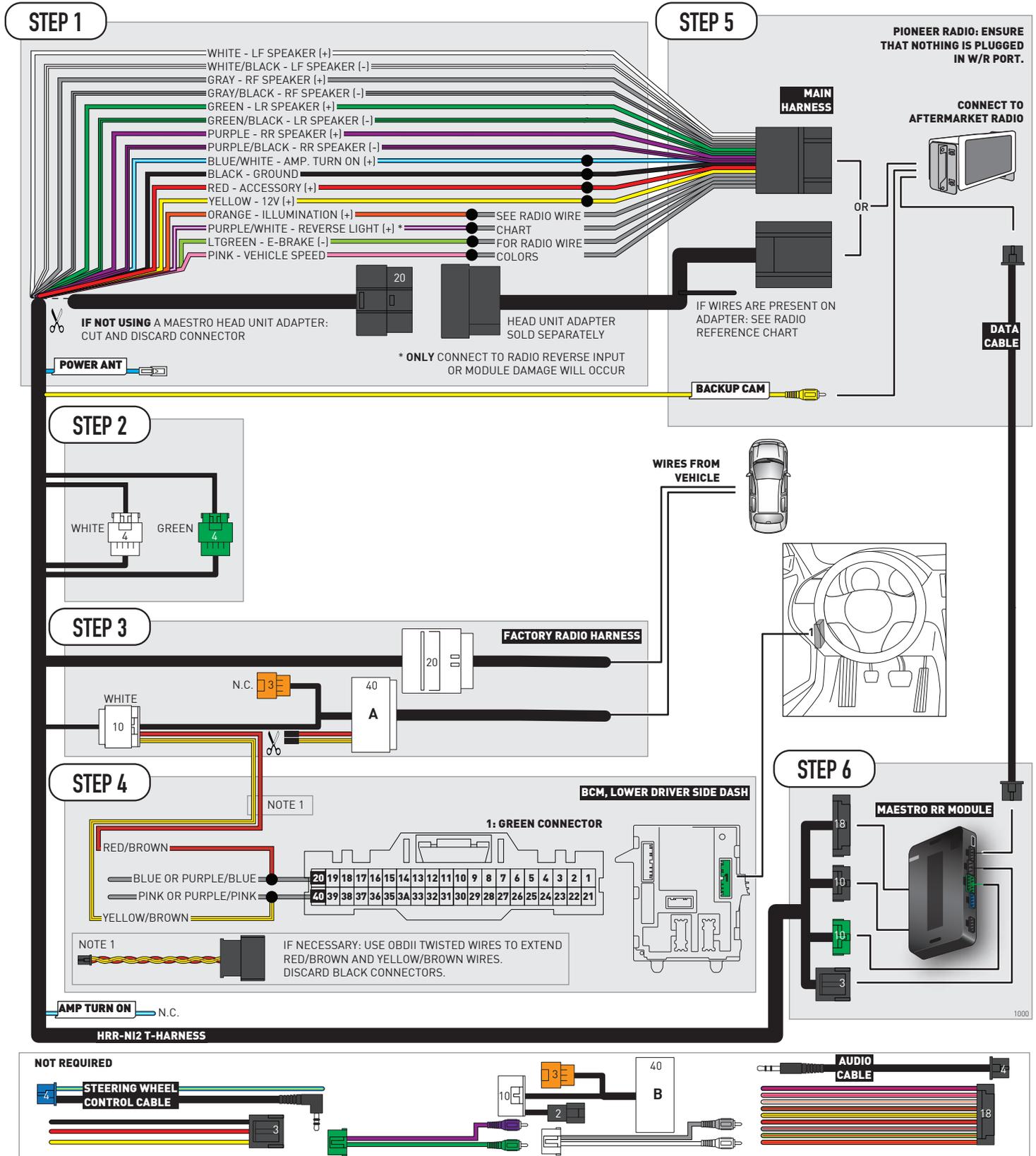
- Connect all the harnesses to the Maestro RR module then test your installation.

360 CAMERA CONTROLS (with vehicle in reverse)

SEEK UP - change view

SEEK DOWN - change view

WIRING DIAGRAM



RADIO WIRE REFERENCE CHART

NI2 T-harness 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
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A
Power Antenna	(+)	Blue	Blue	Blue	Blue/White	Blue or Blue/White

Head unit adapter wiring (optional accessory, sold separately)

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VSS (vehicle speed sensor)	(DATA)	Green/White	Green/White

ACC-HU-KEN1 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
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Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

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MODULE DIAGNOSTICS



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

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PROBLEM	SOLUTION
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The steering wheel controls or accessory power are not working.	<p>Verify module has been programmed.</p> <p>Turn vehicle off, unplug all RR connections and hold the button while plugging all connectors back in. Release the button when the LED on module flashes rapidly RED. Ensure all connectors are fully seated and turn the vehicle back on.</p> <p>CAN connections may require wiring to another location so ensure the correct vehicle guide is being followed.</p> <p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p> <p>If LED is blinking RED TWICE, refer to the step above for troubleshooting.</p>

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STEP 1

Remove the factory radio

If using head unit adapter (sold separately), connect HRR-NI2 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-NI2 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-NI2 T-harness and match the wire functions.

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

STEP 2

- Plug in the 4-pin white connectors.
- Plug in the 4-pin green connectors.

STEP 3

- Plug in the 10-pin white connector from cable B to NI2 main harness.
- Connect both the 20-pin and 40-pin connectors of HRR-NI2 T-harness to the factory radio harness.
- Cut red/brown and yellow/brown wires on cable B near the 2-pin connector. Discard the 2-pin connector.

STEP 4

- Extend the othe side of the red/brown and yellow/brown wires to BCM 40-pin black connector (refer to diagram).
- Connect red/brown wire to blue wire, pin 20.
- Connect yellow/brown wire to pink wire, pin 19.

STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup cam cable into the aftermarket radio (if equipped).
- Plug the Data cable to the data port of the aftermarket radio.

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

STEP 6

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

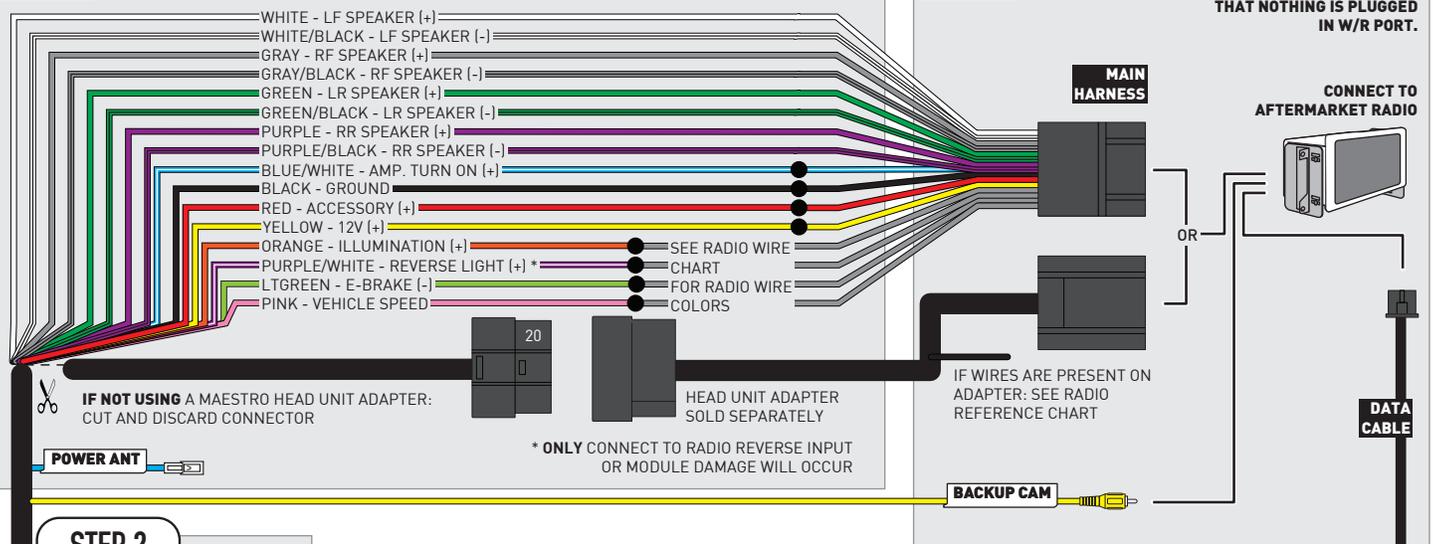
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SEEK UP - change view

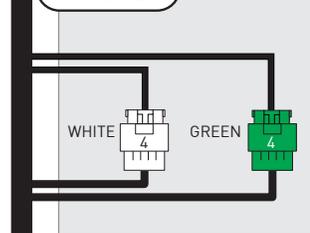
SEEK DOWN - change view

WIRING DIAGRAM

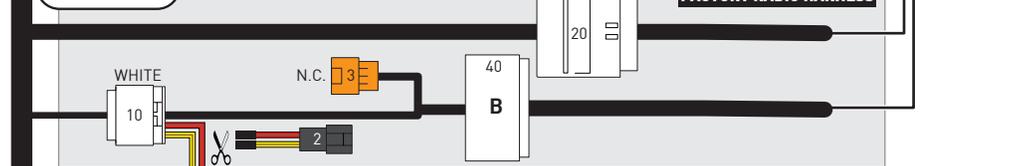
STEP 1



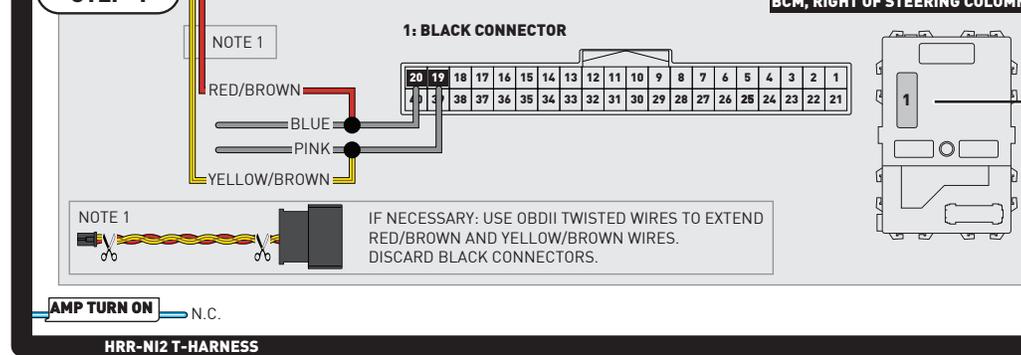
STEP 2



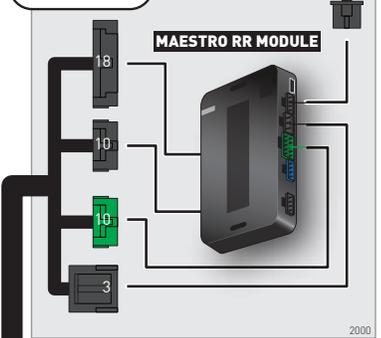
STEP 3



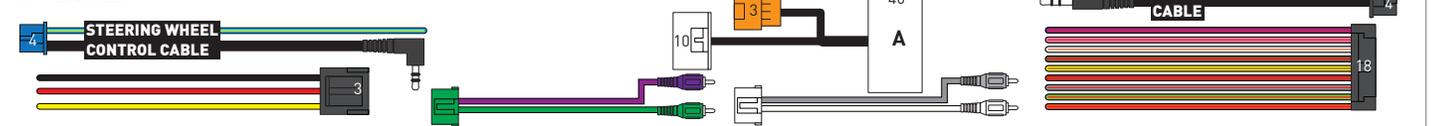
STEP 4



STEP 6



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RADIO WIRE REFERENCE CHART

NI2 T-harness 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
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A
Power Antenna	(+)	Blue	Blue	Blue	Blue/White	Blue or Blue/White

Head unit adapter wiring (optional accessory, sold separately)

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

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

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

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LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
• or •		RED or GREEN flashing	LED flashes 1 or more times, either red or green, when a steering wheel button is pressed : normal operation.
•		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do <u>NOT</u> use DEMO MODE.
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Gauges do not work, radio shows OBD2 Error 1 or Error 2.	<p>Ensure OBDII connector is securely attached to the OBDII connector of the vehicle.</p> <p>If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the RED/BROWN wire is on PIN 6 and the YELLOW/BROWN wire is connected to PIN 14 of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options.</p> <p>Reset the RR.</p>
Backup camera is not displayed.	<p>If radio doesn't switch to camera input, ensure purple/white from the NI2 harness is connected ONLY to radio reverse input wire. Do not power a camera off it.</p> <p>If radio switches to blank image, verify yellow "BACK UP CAMERA" RCA is connected to the correct input. Most radios have a yellow "R CAM" or "CAM" input. Pioneer models may use a brown "BC IN" input.</p>
The light on the Maestro is blinking RED TWICE and the radio IS turning on.	<p>Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty.</p> <p>Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.</p>
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The steering wheel controls or accessory power are not working.	<p>Verify module has been programmed.</p> <p>Turn vehicle off, unplug all RR connections and hold the button while plugging all connectors back in. Release the button when the LED on module flashes rapidly RED. Ensure all connectors are fully seated and turn the vehicle back on.</p> <p>CAN connections may require wiring to another location so ensure the correct vehicle guide is being followed.</p> <p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p> <p>If LED is blinking RED TWICE, refer to the step above for troubleshooting.</p>

MAESTRO RR RESET PROCEDURE:

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

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

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

TECHNICAL ASSISTANCE

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Email: maestro.support@idatalink.com

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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.

2022

NISSAN FRONTIER
7INCH TOUCHSCREEN

RETAINS STEERING WHEEL CONTROLS, VEHICLE SETTINGS, AND MORE!



PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro HRR-NI2 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-NI01-DS

ADDITIONAL RESOURCES

[Maestro RR2 Programmable Outputs Guide](#)

OPTIONAL ACCESSORIES

K40[™]
ELECTRONICS
ESCORT

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

HEAD UNIT ADAPTER:
ACC-HU-PI01, SON1, KEN1, KEN2, ALP1

WELCOME

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

NEED HELP?

 1 866 427-2999

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INSTALLATION INSTRUCTIONS P1/1

STEP 1

Remove the factory radio

If using head unit adapter (sold separately), connect HRR-NI2 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-NI2 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-NI2 T-harness and match the wire functions.

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

STEP 2

- Plug in the 4-pin white connectors.
- Plug in the 4-pin green connectors.

STEP 3

- Plug in the 10-pin white connector from cable A to NI2 main harness.
- Connect both the 20-pin and 40-pin connectors of HRR-NI2 T-harness to the factory radio harness.
- Cut red/brown and yellow/brown wires on cable A near the 40-pin connector. Tape up the 40-pin side of the cut wires.

STEP 4

- Extend the othe side of the red/brown and yellow/brown wires to BCM 40-pin black connector (refer to diagram).
- Connect red/brown wire to blue wire, pin 20.
- Connect yellow/brown wire to pink wire, pin 19.

STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup cam cable into the aftermarket radio (if equipped).
- Plug the Data cable to the data port of the aftermarket radio.

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

STEP 6

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

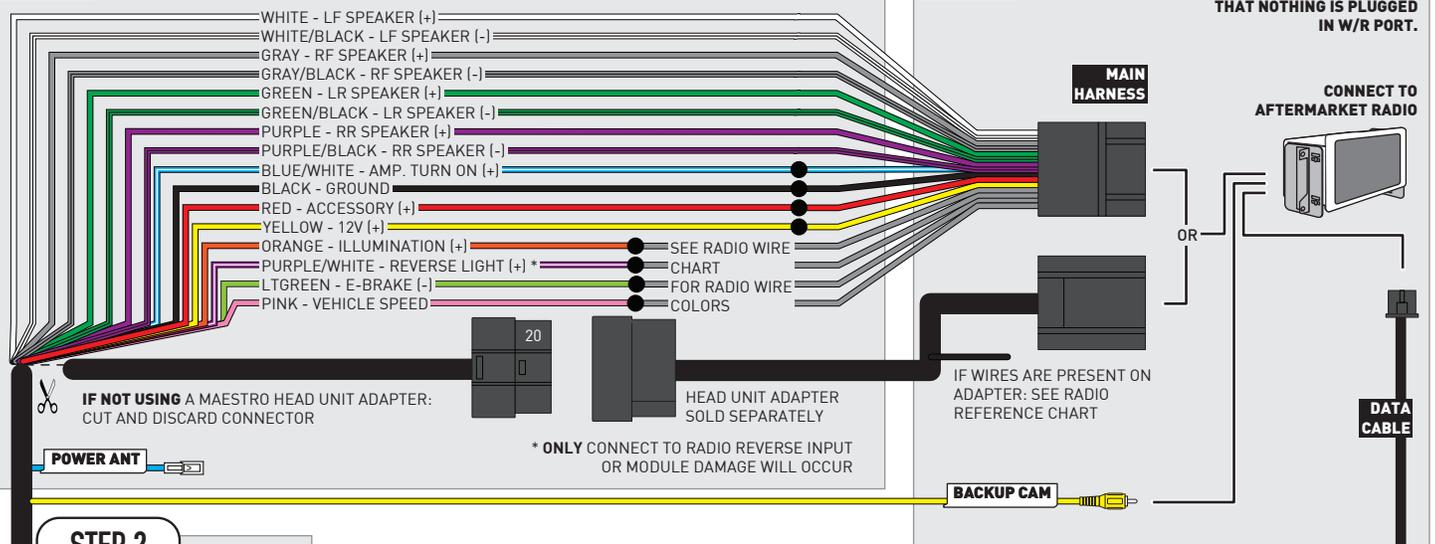
360 CAMERA CONTROLS (with vehicle in reverse)

SEEK UP - change view

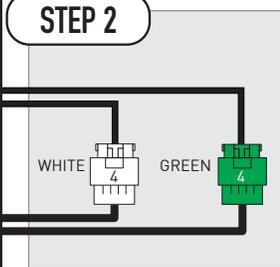
SEEK DOWN - change view

WIRING DIAGRAM

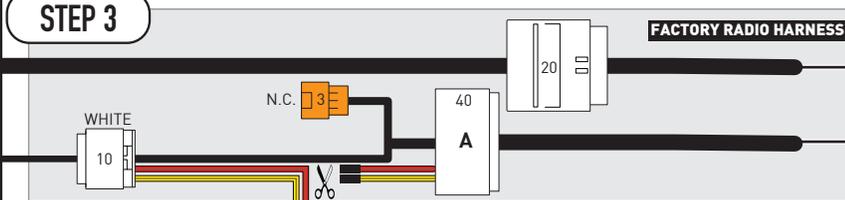
STEP 1



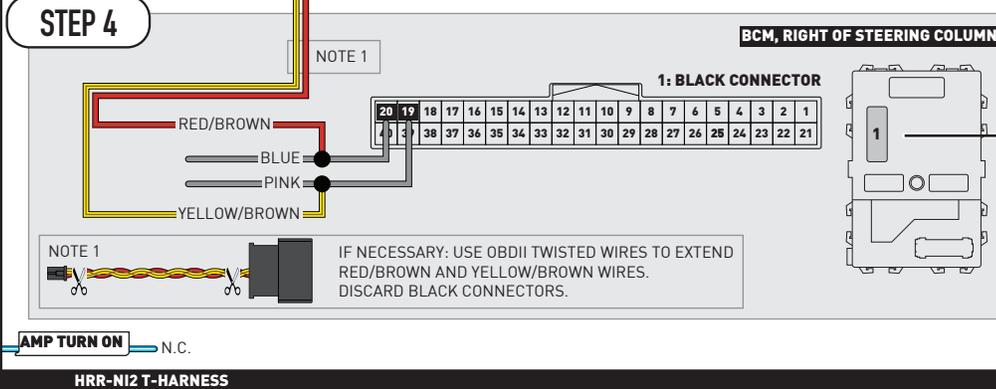
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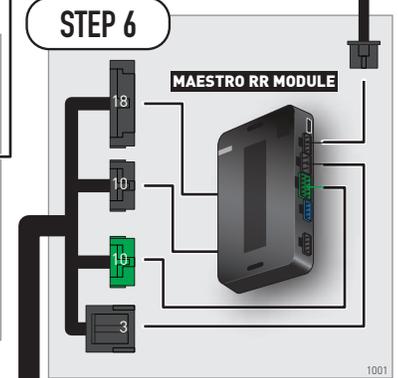
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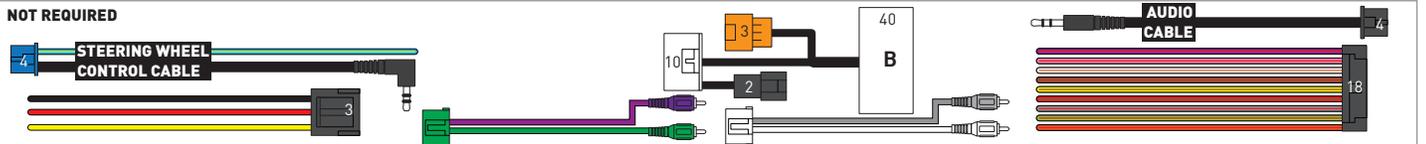
STEP 4



STEP 6



NOT REQUIRED



RADIO WIRE REFERENCE CHART

NI2 T-harness 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
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A
Power Antenna	(+)	Blue	Blue	Blue	Blue/White	Blue or Blue/White

Head unit adapter wiring (optional accessory, sold separately)

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

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

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

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

MODULE DIAGNOSTICS



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

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

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	<p>Ensure OBDII connector is securely attached to the OBDII connector of the vehicle.</p> <p>If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the RED/BROWN wire is on PIN 6 and the YELLOW/BROWN wire is connected to PIN 14 of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options.</p> <p>Reset the RR.</p>
Backup camera is not displayed.	<p>If radio doesn't switch to camera input, ensure purple/white from the NI2 harness is connected ONLY to radio reverse input wire. Do not power a camera off it.</p> <p>If radio switches to blank image, verify yellow "BACK UP CAMERA" RCA is connected to the correct input. Most radios have a yellow "R CAM" or "CAM" input. Pioneer models may use a brown "BC IN" input.</p>
The light on the Maestro is blinking RED TWICE and the radio IS turning on.	<p>Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty.</p> <p>Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.</p>
The light on the Maestro is blinking RED TWICE but the radio is NOT turning on.	<p>If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well.</p> <p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p>
The steering wheel controls or accessory power are not working.	<p>Verify module has been programmed.</p> <p>Turn vehicle off, unplug all RR connections and hold the button while plugging all connectors back in. Release the button when the LED on module flashes rapidly RED. Ensure all connectors are fully seated and turn the vehicle back on.</p> <p>CAN connections may require wiring to another location so ensure the correct vehicle guide is being followed.</p> <p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p> <p>If LED is blinking RED TWICE, refer to the step above for troubleshooting.</p>

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/

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2018-2022

NISSAN KICKS

7INCH TOUCHSCREEN WITH BOSE

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HEAD UNIT ADAPTER:
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INSTALLATION INSTRUCTIONS P1/1

STEP 1

Remove the factory radio

If using head unit adapter (sold separately), connect HRR-NI2 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-NI2 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-NI2 T-harness and match the wire functions.

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

STEP 2

- Unplug the HRR-NI2 4-pin white and 4-pin green connectors.
- Connect the HRR-NI2 4-pin white to 4-pin white connector with RCAs. Connect the 4-pin green to 4-pin green connector with RCAs.
- Connect the RCAs to the radio outputs: white/left front, gray/right front, green/left rear, purple/right rear.

STEP 3

- Plug in the 10-pin white connector from cable A to NI2 main harness.
- Connect both the 20-pin and 40-pin connectors of HRR-NI2 T-harness to the factory radio harness.
- Cut red/brown and yellow/brown wires on cable A near the 40-pin connector. Tape up the 40-pin side of the cut wires.

STEP 4

- Extend the other side of the red/brown and yellow/brown wires to smart-key module 40-pin black connector (refer to diagram).
- Connect red/brown wire to blue wire, pin 6.
- Connect yellow/brown wire to pink wire, pin 7.

STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup cam cable into the aftermarket radio (if equipped).

- Plug the Data cable to the data port of the aftermarket radio.

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

STEP 6

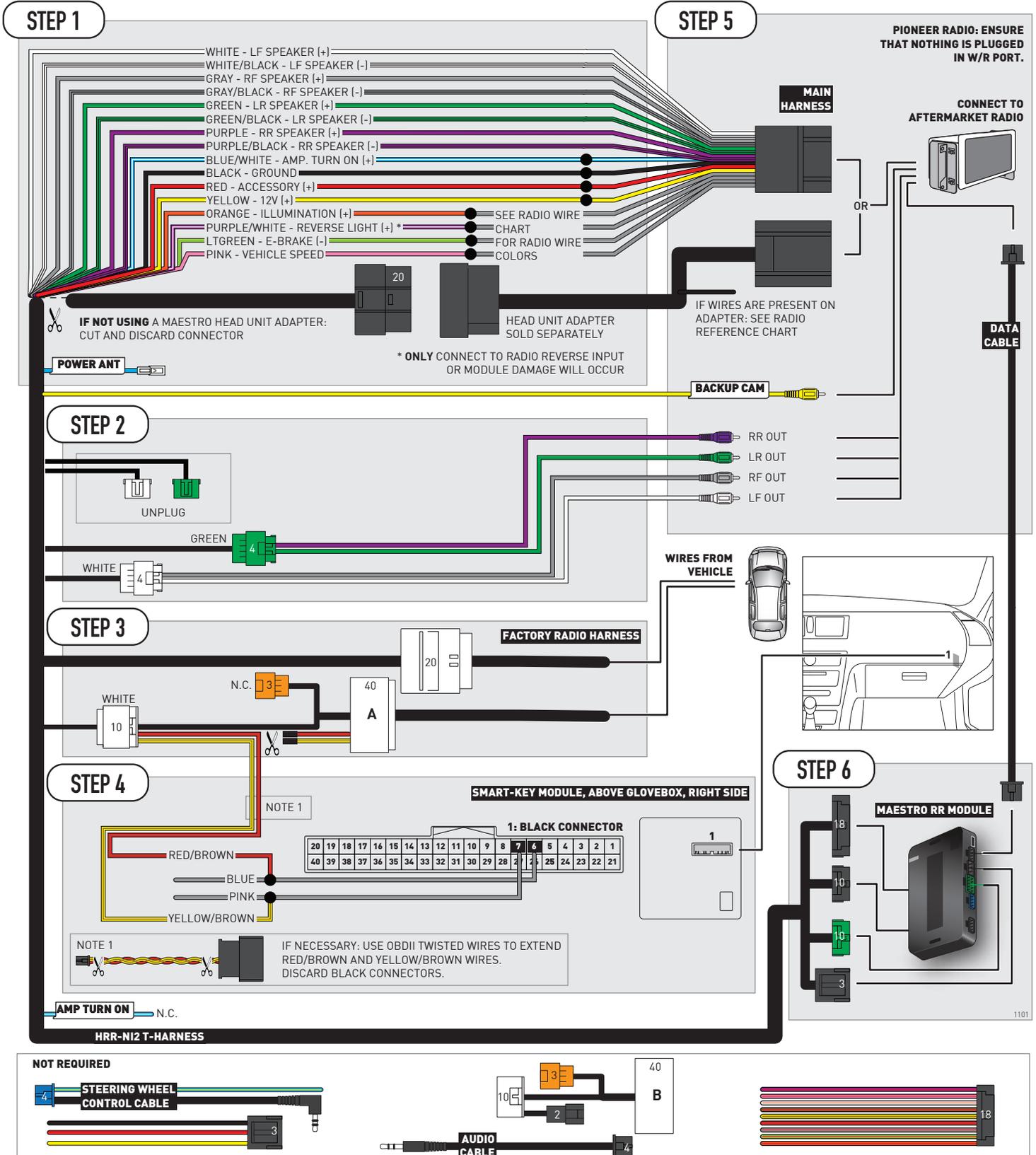
- Connect all the harnesses to the Maestro RR module then test your installation.

360 CAMERA CONTROLS (with vehicle in reverse)

SEEK UP - change view

SEEK DOWN - change view

WIRING DIAGRAM



RADIO WIRE REFERENCE CHART

NI2 T-harness 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
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A
Power Antenna	(+)	Blue	Blue	Blue	Blue/White	Blue or Blue/White

Head unit adapter wiring (optional accessory, sold separately)

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

ACC-HU-KEN1 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
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Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

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

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

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LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
● or ●		RED or GREEN flashing	LED flashes 1 or more times, either red or green, when a steering wheel button is pressed : normal operation.
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PROBLEM	SOLUTION
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The steering wheel controls or accessory power are not working.	<p>Verify module has been programmed.</p> <p>Turn vehicle off, unplug all RR connections and hold the button while plugging all connectors back in. Release the button when the LED on module flashes rapidly RED. Ensure all connectors are fully seated and turn the vehicle back on.</p> <p>CAN connections may require wiring to another location so ensure the correct vehicle guide is being followed.</p> <p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p> <p>If LED is blinking RED TWICE, refer to the step above for troubleshooting.</p>

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INSTALLATION INSTRUCTIONS P1/1

STEP 1

Remove the factory radio

If using head unit adapter (sold separately), connect HRR-NI2 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-NI2 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-NI2 T-harness and match the wire functions.

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

STEP 2

- Plug in the 4-pin white connectors.
- Plug in the 4-pin green connectors.

STEP 3

- Plug in the 10-pin white connector from cable B to NI2 main harness.
- Connect both the 20-pin and 40-pin connectors of HRR-NI2 T-harness to the factory radio harness.
- Cut red/brown and yellow/brown wires on cable B near the 2-pin connector. Discard the 2-pin connector.

STEP 4

- Extend the othe side of the red/brown and yellow/brown wires to Smart-key module 40-pin black connector (refer to diagram).
- Connect red/brown wire to blue wire, pin 6.
- Connect yellow/brown wire to pink wire, pin 7.

STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup cam cable into the aftermarket radio (if equipped).
- Plug the Data cable to the data port of the aftermarket radio.

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

STEP 6

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

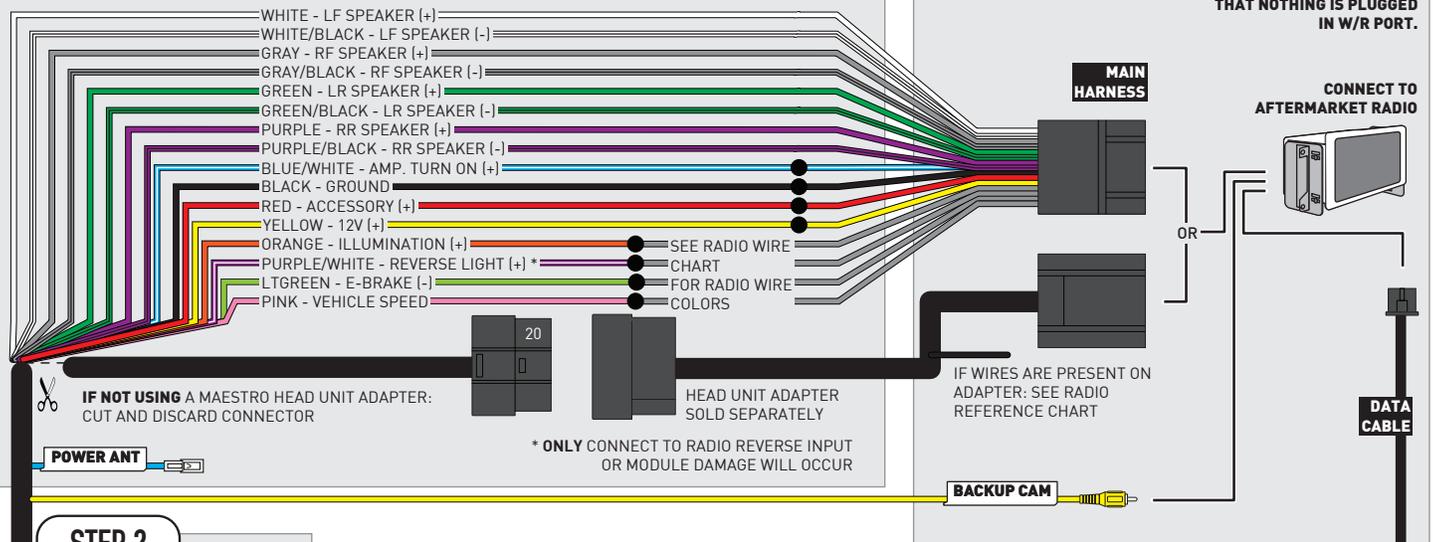
360 CAMERA CONTROLS (with vehicle in reverse)

SEEK UP - change view

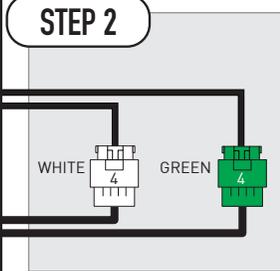
SEEK DOWN - change view

WIRING DIAGRAM

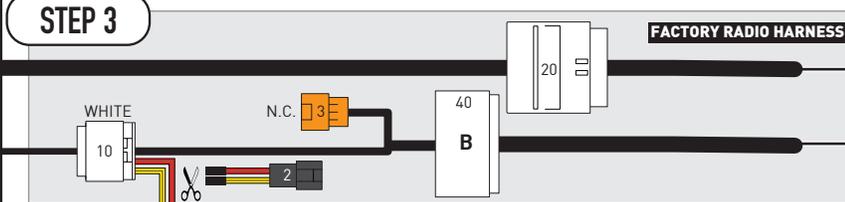
STEP 1



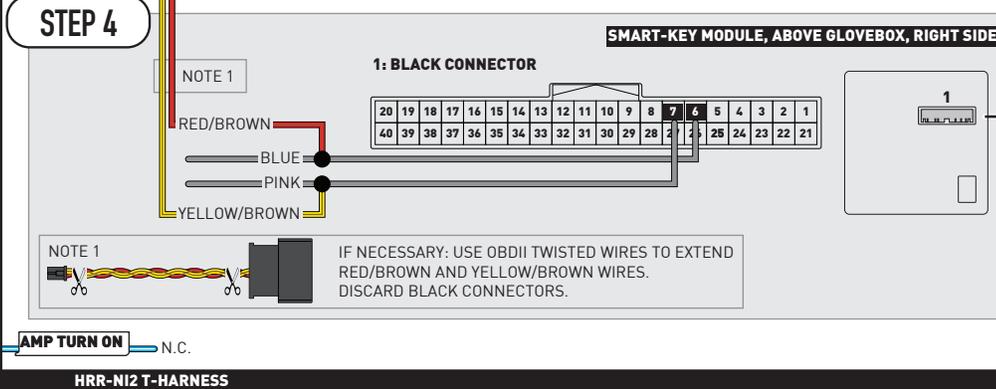
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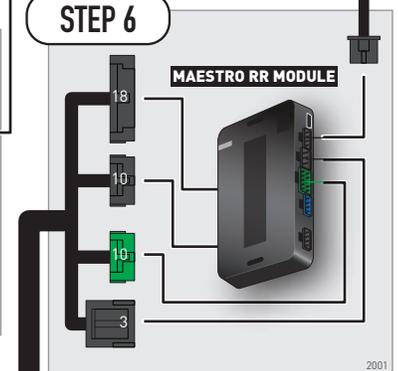
STEP 3



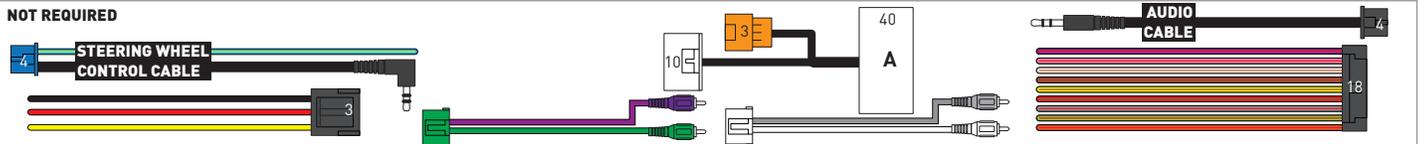
STEP 4



STEP 6



NOT REQUIRED



RADIO WIRE REFERENCE CHART

NI2 T-harness 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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E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A
Power Antenna	(+)	Blue	Blue	Blue	Blue/White	Blue or Blue/White

Head unit adapter wiring (optional accessory, sold separately)

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

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

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

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

MODULE DIAGNOSTICS



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

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

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	<p>Ensure OBDII connector is securely attached to the OBDII connector of the vehicle.</p> <p>If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the RED/BROWN wire is on PIN 6 and the YELLOW/BROWN wire is connected to PIN 14 of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options.</p> <p>Reset the RR.</p>
Backup camera is not displayed.	<p>If radio doesn't switch to camera input, ensure purple/white from the NI2 harness is connected ONLY to radio reverse input wire. Do not power a camera off it.</p> <p>If radio switches to blank image, verify yellow "BACK UP CAMERA" RCA is connected to the correct input. Most radios have a yellow "R CAM" or "CAM" input. Pioneer models may use a brown "BC IN" input.</p>
The light on the Maestro is blinking RED TWICE and the radio IS turning on.	<p>Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty.</p> <p>Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.</p>
The light on the Maestro is blinking RED TWICE but the radio is NOT turning on.	<p>If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well.</p> <p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p>
The steering wheel controls or accessory power are not working.	<p>Verify module has been programmed.</p> <p>Turn vehicle off, unplug all RR connections and hold the button while plugging all connectors back in. Release the button when the LED on module flashes rapidly RED. Ensure all connectors are fully seated and turn the vehicle back on.</p> <p>CAN connections may require wiring to another location so ensure the correct vehicle guide is being followed.</p> <p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p> <p>If LED is blinking RED TWICE, refer to the step above for troubleshooting.</p>

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, VEHICLE SETTINGS, AND MORE!



PRODUCTS REQUIRED

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iDataLink Maestro HRR-NI2 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-NI01-DS

ADDITIONAL RESOURCES

[Maestro RR2 Programmable Outputs Guide](#)

OPTIONAL ACCESSORIES

K40[™]
ELECTRONICS
ESCORT

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

HEAD UNIT ADAPTER:
ACC-HU-PI01, SON1, KEN1, KEN2, ALP1

WELCOME

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

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

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NEED HELP?

 1 866 427-2999

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Wiring Diagram	4
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INSTALLATION INSTRUCTIONS P1/1

STEP 1

Remove the factory radio

If using head unit adapter (sold separately), connect HRR-NI2 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-NI2 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-NI2 T-harness and match the wire functions.

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

STEP 2

- Determine if the vehicle has a factory amplifier. Look for badges on the radio, door panels and dash that indicate the presence of an amplifier (ex: BOSE).

If the vehicle DOES NOT have a factory amplifier:

- Plug in the 4-pin white connectors.
- Plug in the 4-pin green connectors.

If the vehicle DOES have a factory amplifier:

- Unplug the HRR-NI2 4-pin white and 4-pin green connectors.
- Connect the HRR-NI2 4-pin white to 4-pin white connector with RCAs. Connect the 4-pin green to 4-pin green connector with RCAs.
- Connect the RCAs to the radio outputs: white/left front, gray/right front, green/left rear, purple/right rear.

STEP 3

- Plug in the 10-pin white connector from cable A to NI2 main harness.
- Connect both the 20-pin and 40-pin connectors of HRR-NI2 T-harness to the factory radio harness.
- Cut red/brown and yellow/brown wires on cable A near the 40-pin connector. Tape up the 40-pin side of the cut wires.

STEP 4

- Extend the othe side of the red/brown and yellow/brown wires to Smart-key module 40-pin black connector (refer to diagram).
- Connect red/brown wire to blue wire, pin 6.
- Connect yellow/brown wire to pink wire, pin 7.

STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup cam cable into the aftermarket radio (if equipped).
- Plug the Data cable to the data port of the aftermarket radio.

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

STEP 6

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

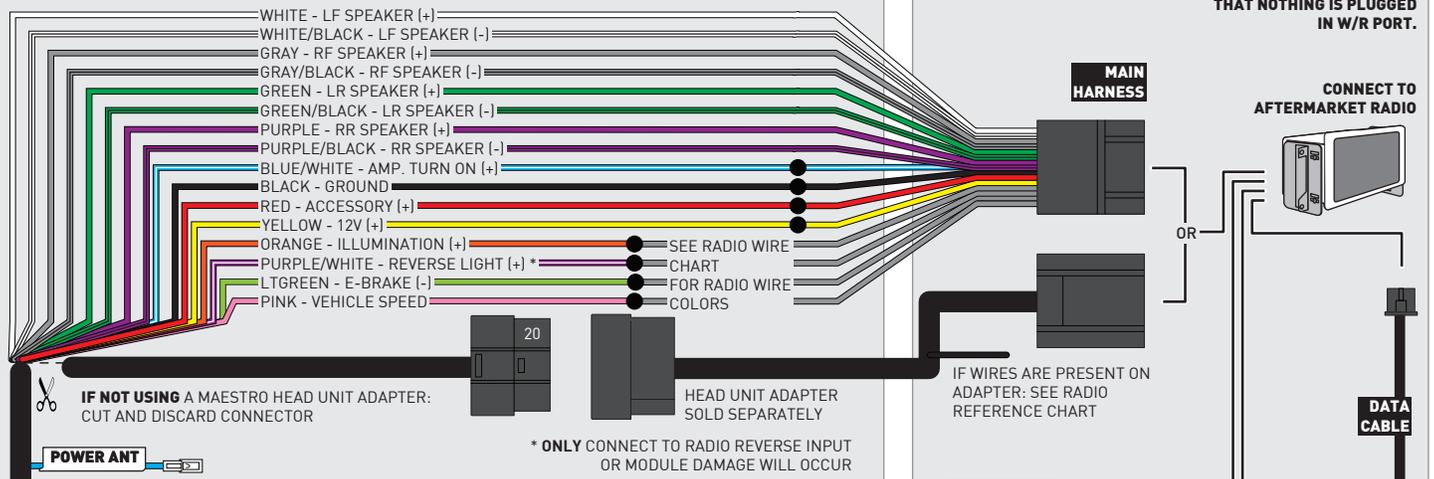
360 CAMERA CONTROLS (with vehicle in reverse)

SEEK UP - change view

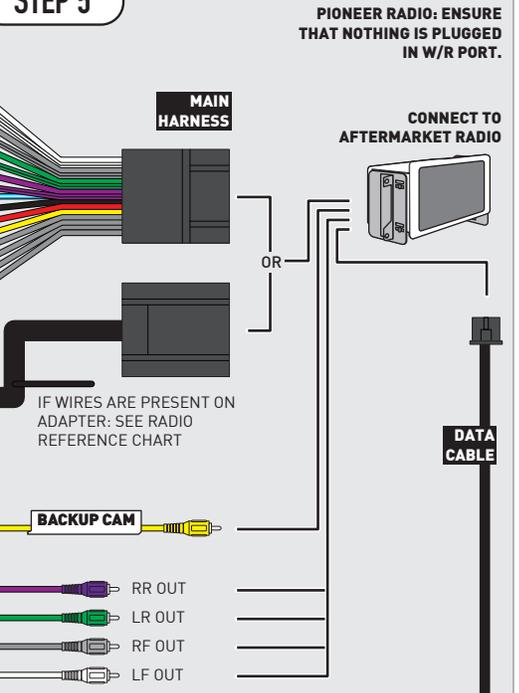
SEEK DOWN - change view

WIRING DIAGRAM

STEP 1

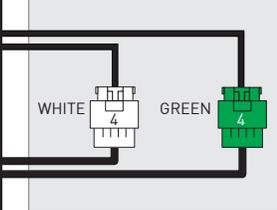


STEP 5



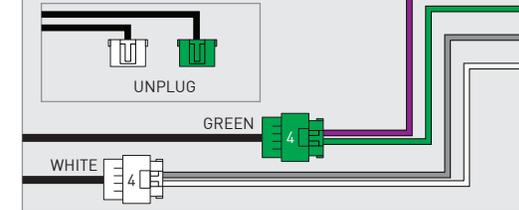
STEP 2

WITHOUT OEM AMPLIFIER

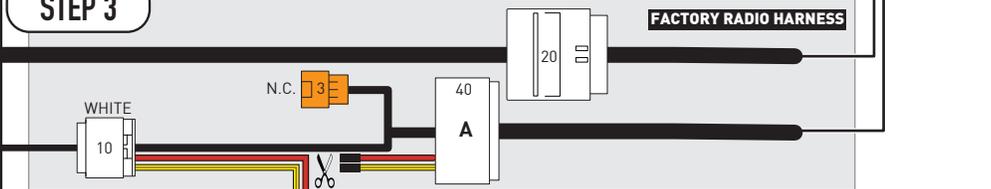


STEP 2

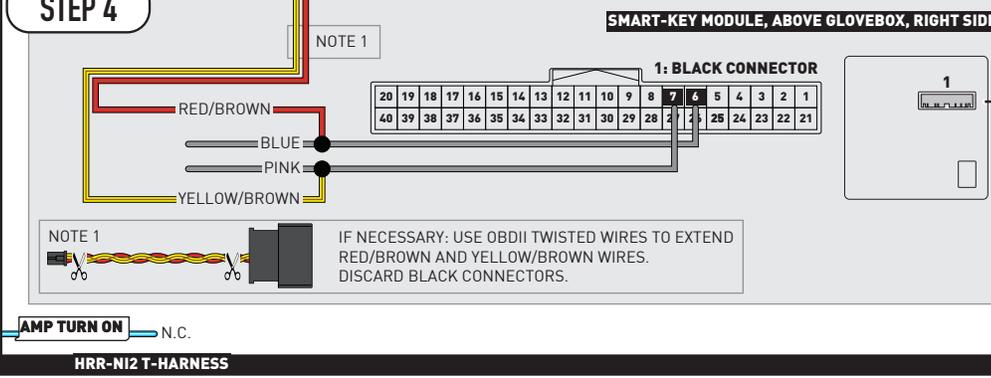
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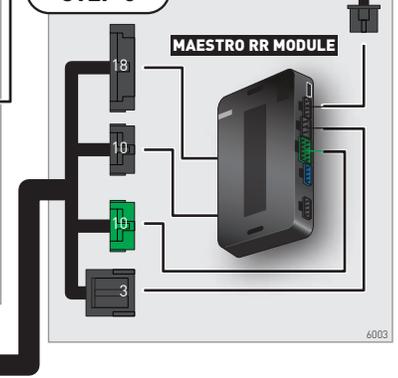
STEP 3



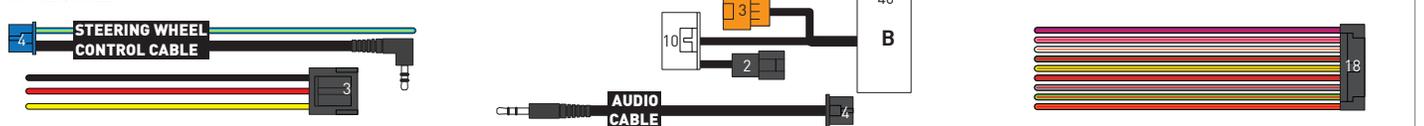
STEP 4



STEP 6



NOT REQUIRED



RADIO WIRE REFERENCE CHART

NI2 T-harness 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
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A
Power Antenna	(+)	Blue	Blue	Blue	Blue/White	Blue or Blue/White

Head unit adapter wiring (optional accessory, sold separately)

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

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

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

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

MODULE DIAGNOSTICS



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

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

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	<p>Ensure OBDII connector is securely attached to the OBDII connector of the vehicle.</p> <p>If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the RED/BROWN wire is on PIN 6 and the YELLOW/BROWN wire is connected to PIN 14 of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options.</p> <p>Reset the RR.</p>
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The light on the Maestro is blinking RED TWICE and the radio IS turning on.	<p>Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty.</p> <p>Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.</p>
The light on the Maestro is blinking RED TWICE but the radio is NOT turning on.	<p>If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well.</p> <p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p>
The steering wheel controls or accessory power are not working.	<p>Verify module has been programmed.</p> <p>Turn vehicle off, unplug all RR connections and hold the button while plugging all connectors back in. Release the button when the LED on module flashes rapidly RED. Ensure all connectors are fully seated and turn the vehicle back on.</p> <p>CAN connections may require wiring to another location so ensure the correct vehicle guide is being followed.</p> <p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p> <p>If LED is blinking RED TWICE, refer to the step above for troubleshooting.</p>

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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2019-2022

NISSAN MAXIMA

8INCH DISPLAY WITH NAV

RETAINS STEERING WHEEL CONTROLS, VEHICLE SETTINGS, AND MORE!



PRODUCTS REQUIRED

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iDataLink Maestro HRR-NI2 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-NI01-DS

ADDITIONAL RESOURCES

[Maestro RR2 Programmable Outputs Guide](#)

OPTIONAL ACCESSORIES



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

HEAD UNIT ADAPTER:
ACC-HU-PI01, SON1, KEN1, KEN2, ALP1

WELCOME

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NEED HELP?

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INSTALLATION INSTRUCTIONS P1/1

STEP 1

Remove the factory radio

If using head unit adapter (sold separately), connect HRR-NI2 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-NI2 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-NI2 T-harness and match the wire functions.

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

STEP 2

- Determine if the vehicle has a factory amplifier. Look for badges on the radio, door panels and dash that indicate the presence of an amplifier (ex: BOSE).

If the vehicle DOES NOT have a factory amplifier:

- Plug in the 4-pin white connectors.
- Plug in the 4-pin green connectors.

If the vehicle DOES have a factory amplifier:

- Unplug the HRR-NI2 4-pin white and 4-pin green connectors.
- Connect the HRR-NI2 4-pin white to 4-pin white connector with RCAs. Connect the 4-pin green to 4-pin green connector with RCAs.
- Connect the RCAs to the radio outputs: white/left front, gray/right front, green/left rear, purple/right rear.

STEP 3

- Plug in the 10-pin white connector from cable A to NI2 main harness.
- Connect both the 20-pin and 40-pin connectors of HRR-NI2 T-harness to the factory radio harness.
- Cut red/brown and yellow/brown wires on cable A near the 40-pin connector. Tape up the 40-pin side of the cut wires.

STEP 4

- Extend the othe side of the red/brown and yellow/brown wires to gateway module 16-pin connector (refer to diagram).
- Connect red/brown wire to blue wire, pin 1.
- Connect yellow/brown wire to pink wire, pin 2.

STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup cam cable into the aftermarket radio (if equipped).
- Plug the Data cable to the data port of the aftermarket radio.

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

STEP 6

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

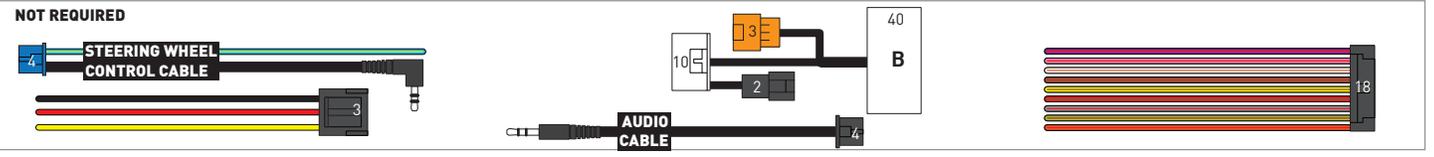
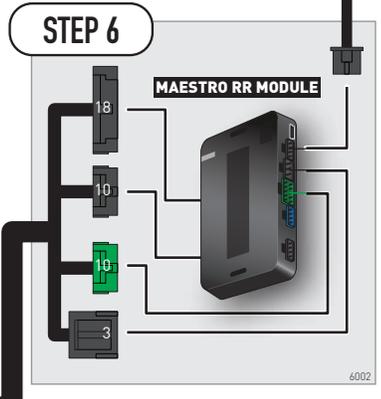
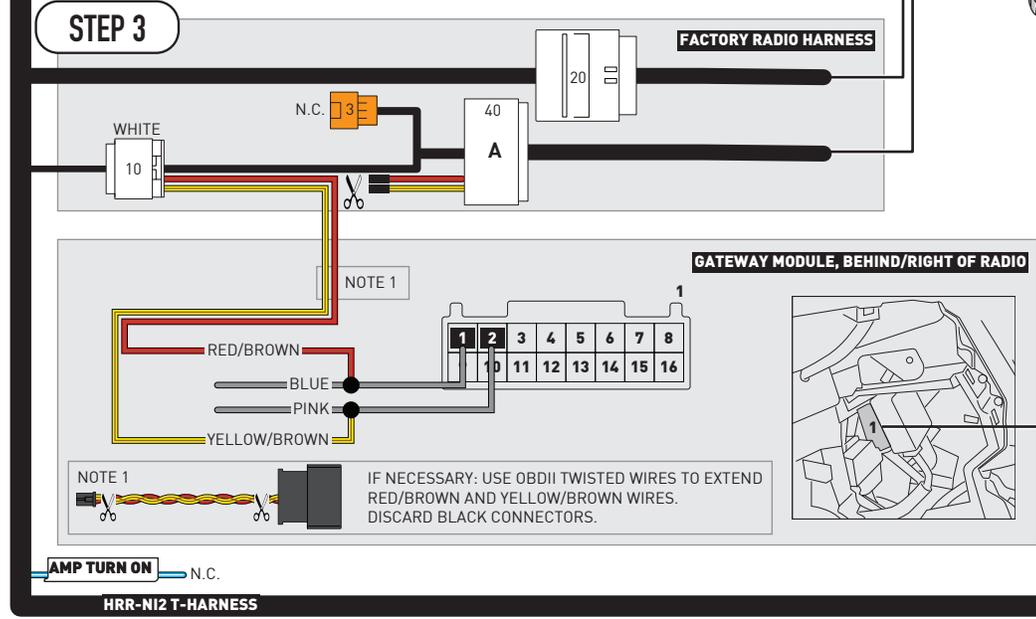
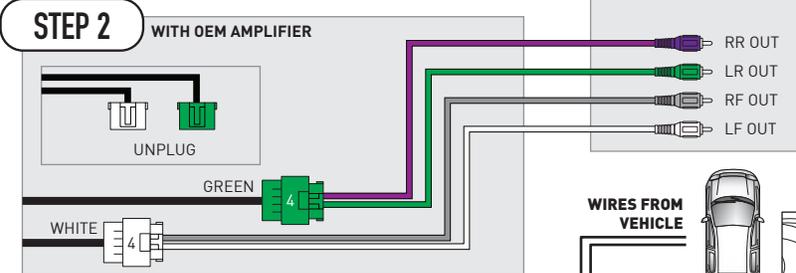
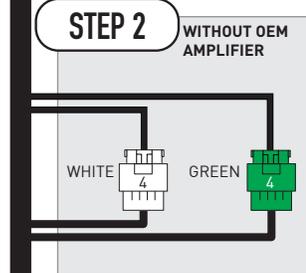
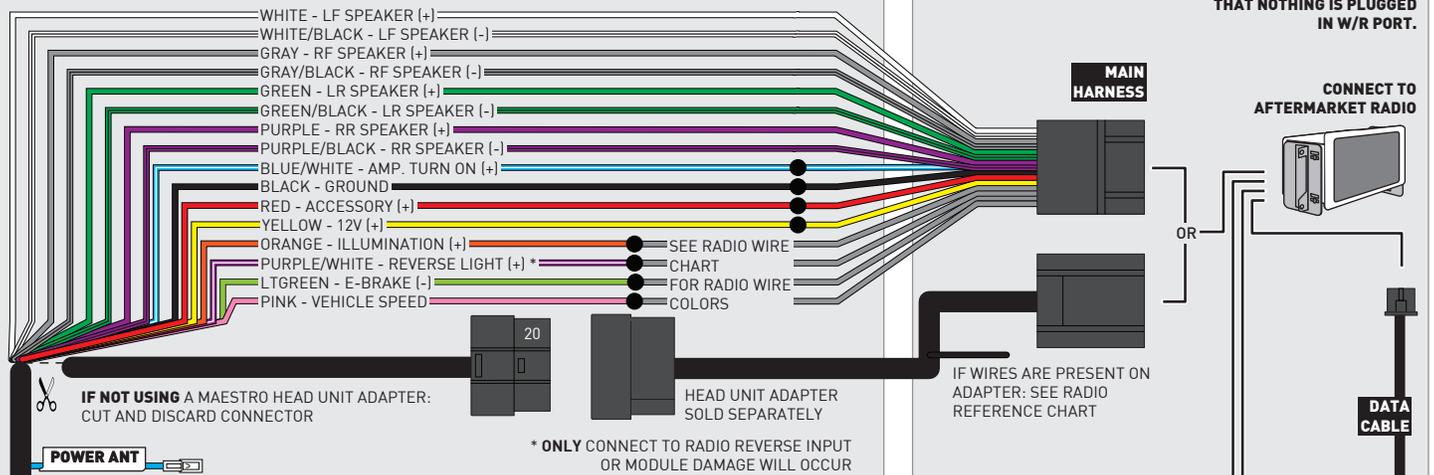
360 CAMERA CONTROLS (with vehicle in reverse)

SEEK UP - change view

SEEK DOWN - change view

WIRING DIAGRAM

STEP 1



RADIO WIRE REFERENCE CHART

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Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A
Power Antenna	(+)	Blue	Blue	Blue	Blue/White	Blue or Blue/White

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INSTALLATION INSTRUCTIONS P1/1

STEP 1

Remove the factory radio

If using head unit adapter (sold separately), connect HRR-NI2 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-NI2 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-NI2 T-harness and match the wire functions.

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

STEP 2

- Plug in the 4-pin white connectors.
- Plug in the 4-pin green connectors.

STEP 3

- Plug in the 10-pin white connector from cable A to NI2 main harness.
- Connect both the 20-pin and 40-pin connectors of HRR-NI2 T-harness to the factory radio harness.
- Cut red/brown and yellow/brown wires on cable A near the 40-pin connector. Tape up the 40-pin side of the cut wires.

STEP 4

- Extend the othe side of the red/brown and yellow/brown wires to gateway module 16-pin connector (refer to diagram).
- Connect red/brown wire to blue wire, pin 1.
- Connect yellow/brown wire to pink wire, pin 2.

STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup cam cable into the aftermarket radio (if equipped).
- Plug the Data cable to the data port of the aftermarket radio.

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

STEP 6

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

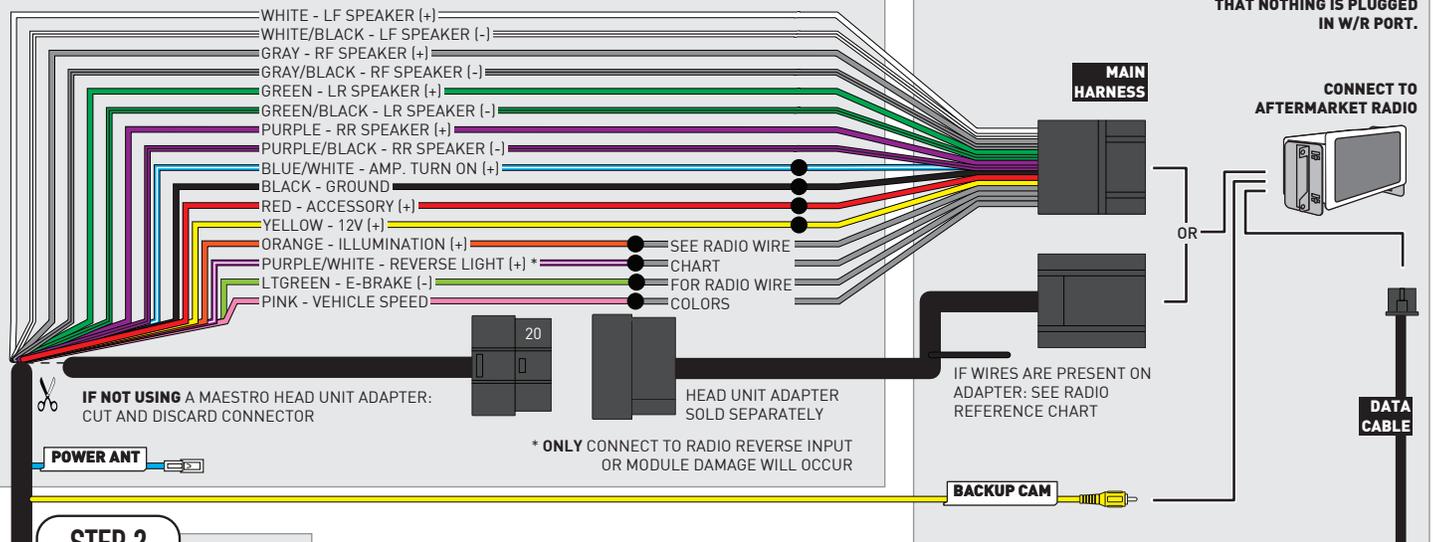
360 CAMERA CONTROLS (with vehicle in reverse)

SEEK UP - change view

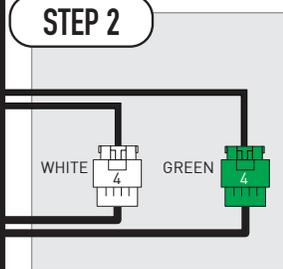
SEEK DOWN - change view

WIRING DIAGRAM

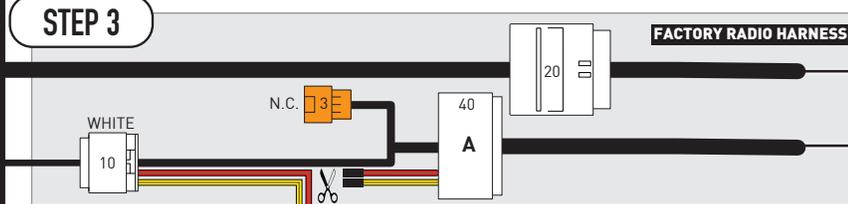
STEP 1



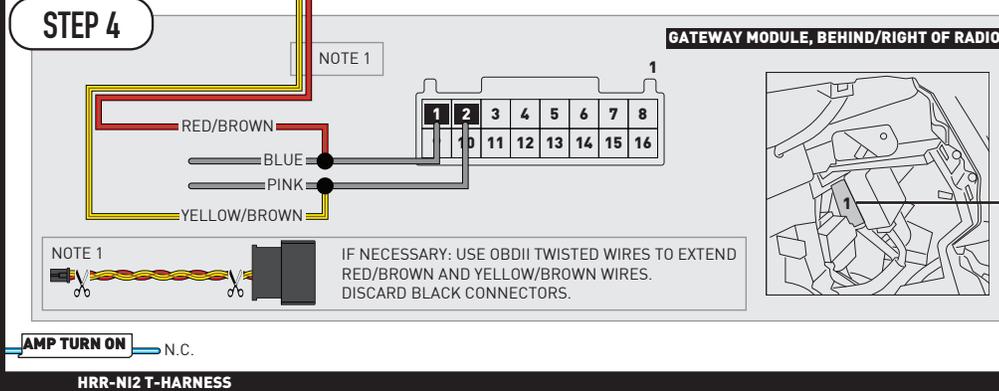
STEP 2



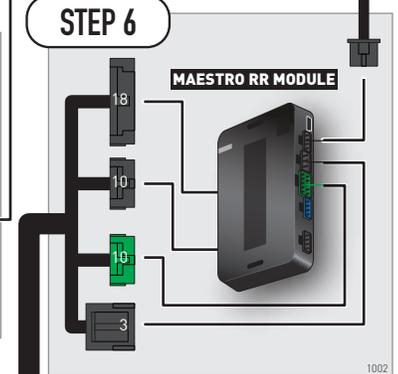
STEP 3



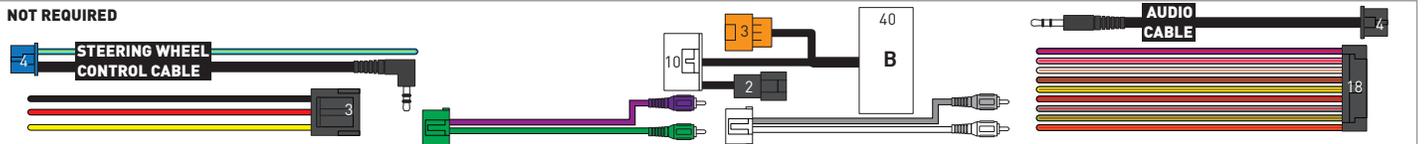
STEP 4



STEP 6



NOT REQUIRED



RADIO WIRE REFERENCE CHART

NI2 T-harness 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
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A
Power Antenna	(+)	Blue	Blue	Blue	Blue/White	Blue or Blue/White

Head unit adapter wiring (optional accessory, sold separately)

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

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

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

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

MODULE DIAGNOSTICS



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

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

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	<p>Ensure OBDII connector is securely attached to the OBDII connector of the vehicle.</p> <p>If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the RED/BROWN wire is on PIN 6 and the YELLOW/BROWN wire is connected to PIN 14 of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options.</p> <p>Reset the RR.</p>
Backup camera is not displayed.	<p>If radio doesn't switch to camera input, ensure purple/white from the NI2 harness is connected ONLY to radio reverse input wire. Do not power a camera off it.</p> <p>If radio switches to blank image, verify yellow "BACK UP CAMERA" RCA is connected to the correct input. Most radios have a yellow "R CAM" or "CAM" input. Pioneer models may use a brown "BC IN" input.</p>
The light on the Maestro is blinking RED TWICE and the radio IS turning on.	<p>Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty.</p> <p>Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.</p>
The light on the Maestro is blinking RED TWICE but the radio is NOT turning on.	<p>If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well.</p> <p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p>
The steering wheel controls or accessory power are not working.	<p>Verify module has been programmed.</p> <p>Turn vehicle off, unplug all RR connections and hold the button while plugging all connectors back in. Release the button when the LED on module flashes rapidly RED. Ensure all connectors are fully seated and turn the vehicle back on.</p> <p>CAN connections may require wiring to another location so ensure the correct vehicle guide is being followed.</p> <p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p> <p>If LED is blinking RED TWICE, refer to the step above for troubleshooting.</p>

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, VEHICLE SETTINGS, AND MORE!



PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro HRR-NI2 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-NI01-DS

ADDITIONAL RESOURCES

[Maestro RR2 Programmable Outputs Guide](#)

OPTIONAL ACCESSORIES



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

HEAD UNIT ADAPTER:
ACC-HU-PI01, SON1, KEN1, KEN2, ALP1

WELCOME

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

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

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

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Wiring Diagram	4
Radio Wire Reference Chart	5
Module Diagnostics	6
Troubleshooting Table	7

NEED HELP?

 1 866 427-2999

 maestro.support@idatalink.com

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www.12voltdata.com/forum

INSTALLATION INSTRUCTIONS P1/1

STEP 1

Remove the factory radio

If using head unit adapter (sold separately), connect HRR-NI2 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-NI2 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-NI2 T-harness and match the wire functions.

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

STEP 2

- Determine if the vehicle has a factory amplifier. Look for badges on the radio, door panels and dash that indicate the presence of an amplifier (ex: BOSE).

If the vehicle DOES NOT have a factory amplifier:

- Plug in the 4-pin white connectors.
- Plug in the 4-pin green connectors.

If the vehicle DOES have a factory amplifier:

- Unplug the HRR-NI2 4-pin white and 4-pin green connectors.
- Connect the HRR-NI2 4-pin white to 4-pin white connector with RCAs. Connect the 4-pin green to 4-pin green connector with RCAs.
- Connect the RCAs to the radio outputs: white/left front, gray/right front, green/left rear, purple/right rear.

STEP 3

- Plug in the 10-pin white connector from cable A to NI2 main harness.
- Connect both the 20-pin and 40-pin connectors of HRR-NI2 T-harness to the factory radio harness.
- Cut red/brown and yellow/brown wires on cable A near the 40-pin connector. Tape up the 40-pin side of the cut wires.

STEP 4

- Extend the othe side of the red/brown and yellow/brown wires to gateway module 16-pin connector (refer to diagram).
- Connect red/brown wire to blue wire, pin 1.
- Connect yellow/brown wire to pink wire, pin 2.

STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup cam cable into the aftermarket radio (if equipped).
- Plug the Data cable to the data port of the aftermarket radio.

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

STEP 6

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

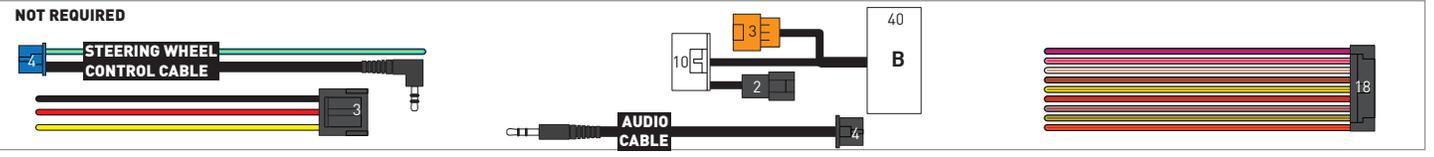
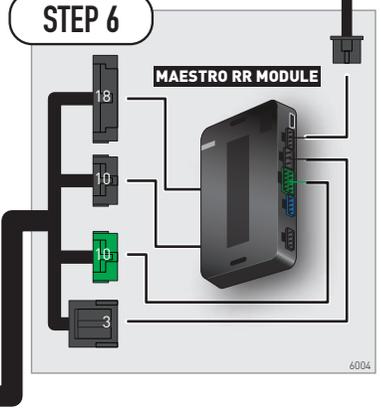
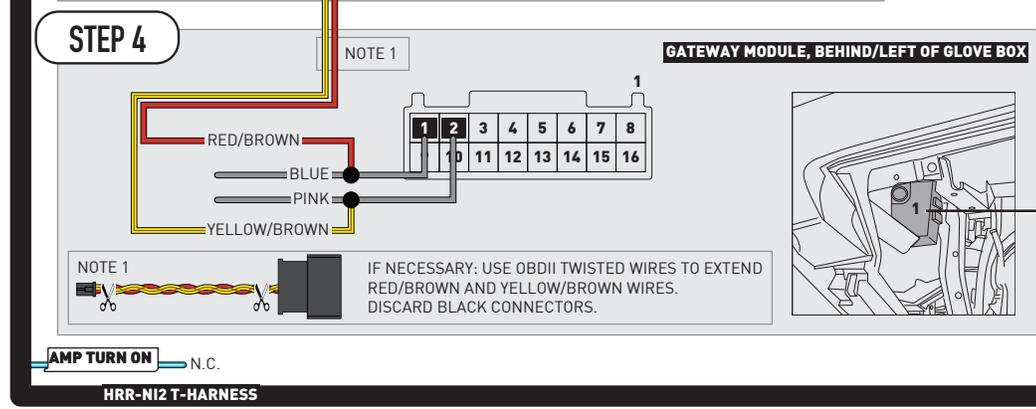
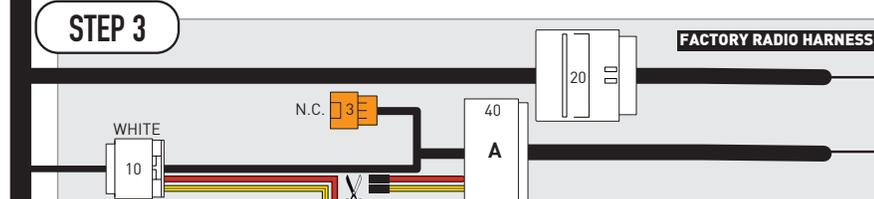
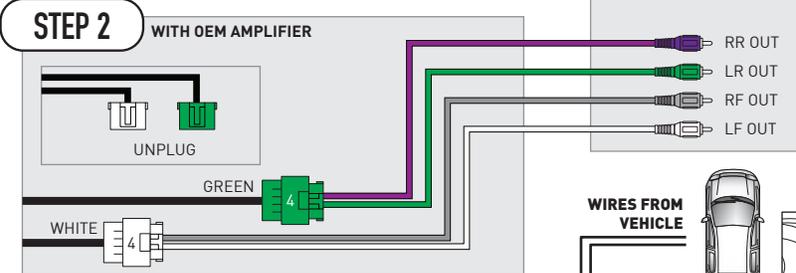
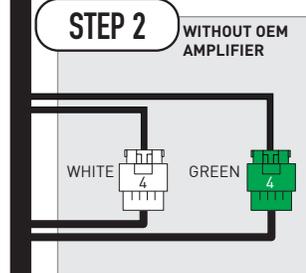
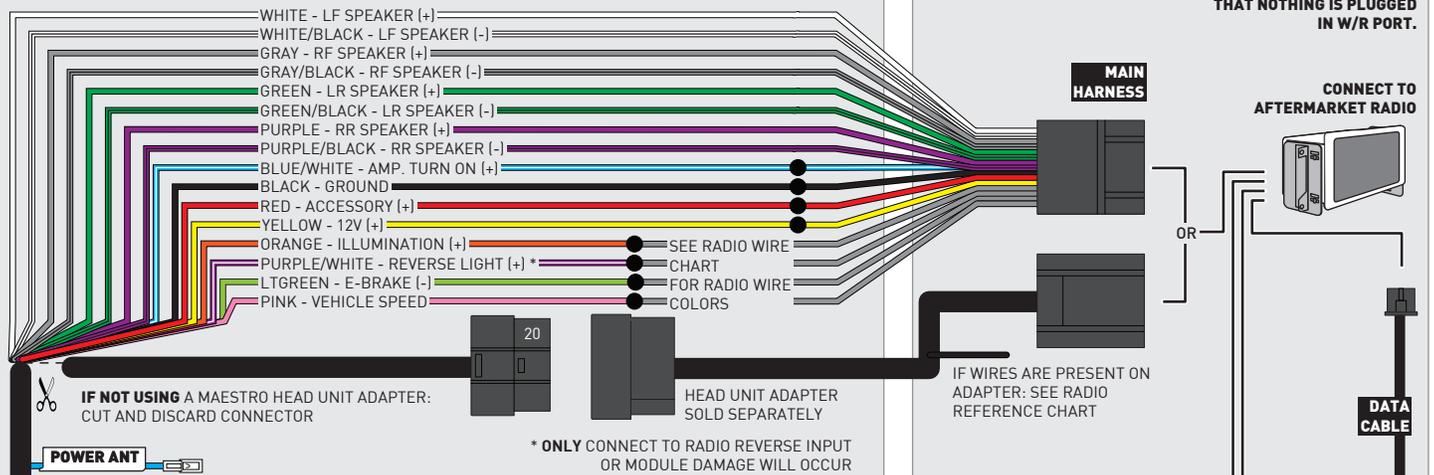
360 CAMERA CONTROLS (with vehicle in reverse)

SEEK UP - change view

SEEK DOWN - change view

WIRING DIAGRAM

STEP 1



RADIO WIRE REFERENCE CHART

NI2 T-harness 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
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A
Power Antenna	(+)	Blue	Blue	Blue	Blue/White	Blue or Blue/White

Head unit adapter wiring (optional accessory, sold separately)

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

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

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

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

MODULE DIAGNOSTICS



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

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

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	<p>Ensure OBDII connector is securely attached to the OBDII connector of the vehicle.</p> <p>If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the RED/BROWN wire is on PIN 6 and the YELLOW/BROWN wire is connected to PIN 14 of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options.</p> <p>Reset the RR.</p>
Backup camera is not displayed.	<p>If radio doesn't switch to camera input, ensure purple/white from the NI2 harness is connected ONLY to radio reverse input wire. Do not power a camera off it.</p> <p>If radio switches to blank image, verify yellow "BACK UP CAMERA" RCA is connected to the correct input. Most radios have a yellow "R CAM" or "CAM" input. Pioneer models may use a brown "BC IN" input.</p>
The light on the Maestro is blinking RED TWICE and the radio IS turning on.	<p>Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty.</p> <p>Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.</p>
The light on the Maestro is blinking RED TWICE but the radio is NOT turning on.	<p>If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well.</p> <p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p>
The steering wheel controls or accessory power are not working.	<p>Verify module has been programmed.</p> <p>Turn vehicle off, unplug all RR connections and hold the button while plugging all connectors back in. Release the button when the LED on module flashes rapidly RED. Ensure all connectors are fully seated and turn the vehicle back on.</p> <p>CAN connections may require wiring to another location so ensure the correct vehicle guide is being followed.</p> <p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p> <p>If LED is blinking RED TWICE, refer to the step above for troubleshooting.</p>

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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2019-2021

NISSAN NV 1500 2500 3500

7INCH DISPLAY AUDIO

RETAINS STEERING WHEEL CONTROLS, VEHICLE SETTINGS, AND MORE!



PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro HRR-NI2 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-NI01-DS

ADDITIONAL RESOURCES

[Maestro RR2 Programmable Outputs Guide](#)

OPTIONAL ACCESSORIES

K40[™]
ELECTRONICS
ESCORT

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

HEAD UNIT ADAPTER:
ACC-HU-PI01, SON1, KEN1, KEN2, ALP1

WELCOME

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NEED HELP?

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Remove the factory radio

If using head unit adapter (sold separately), connect HRR-NI2 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-NI2 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-NI2 T-harness and match the wire functions.

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

STEP 2

- Plug in the 4-pin white connectors.
- Plug in the 4-pin green connectors.

STEP 3

- Plug in the 10-pin white connector from cable B to NI2 main harness.
- Connect both the 20-pin and 40-pin connectors of HRR-NI2 T-harness to the factory radio harness.

STEP 4

- Connect the 2-pin black connector from cable B to OBDII cable.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup cam cable into the aftermarket radio (if equipped).
- Plug the Data cable to the data port of the aftermarket radio.

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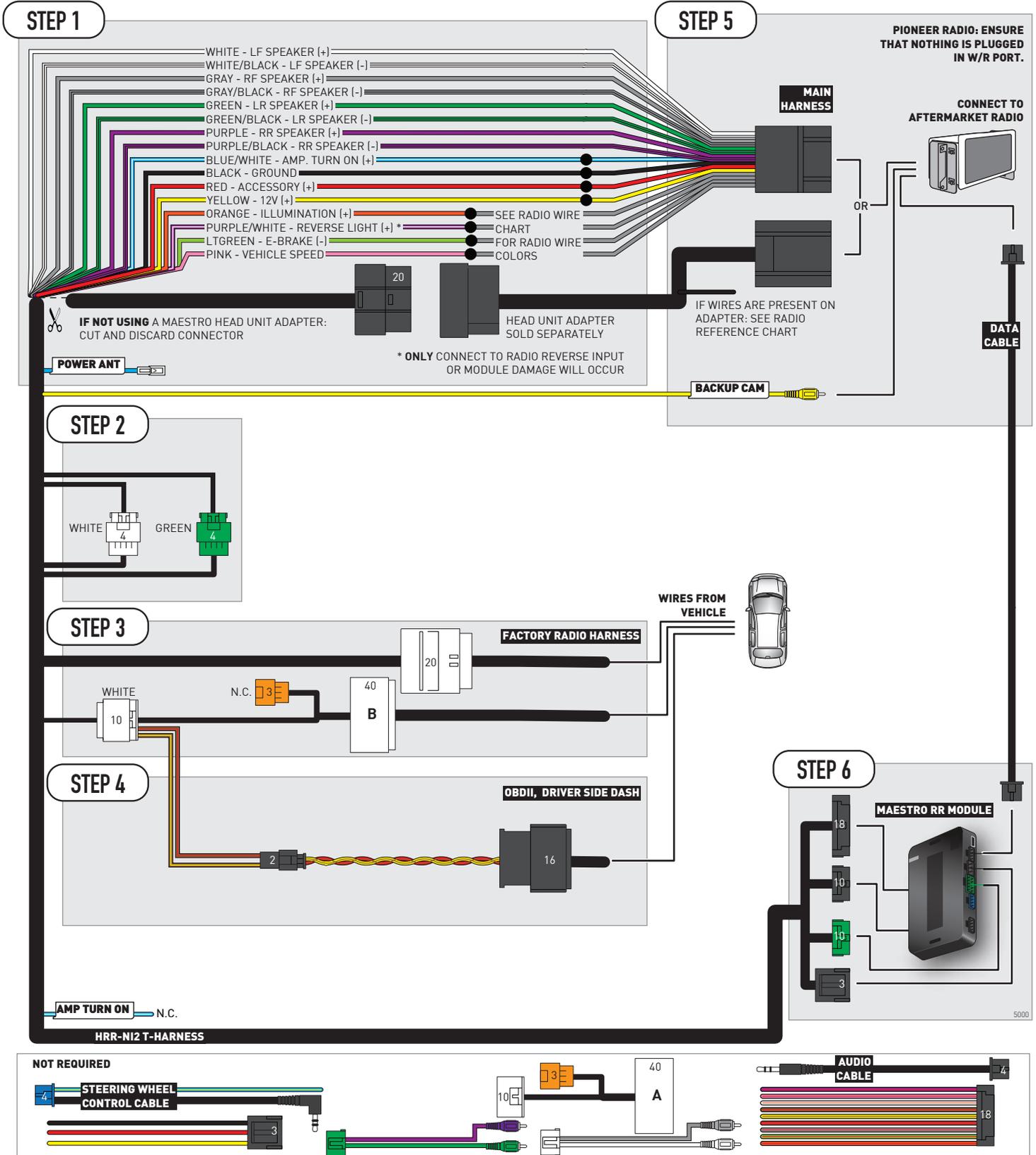
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360 CAMERA CONTROLS (with vehicle in reverse)

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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, VEHICLE SETTINGS, AND MORE!



PRODUCTS REQUIRED

iDataLink Maestro RR or RR2 Radio Replacement Interface
iDataLink Maestro HRR-NI2 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-NI01-DS

ADDITIONAL RESOURCES

[Maestro RR2 Programmable Outputs Guide](#)

OPTIONAL ACCESSORIES



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

HEAD UNIT ADAPTER:
ACC-HU-PI01, SON1, KEN1, KEN2, ALP1

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NEED HELP?

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Radio Wire Reference Chart	5
Module Diagnostics	6
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INSTALLATION INSTRUCTIONS P1/1

STEP 1

Remove the factory radio

If using head unit adapter (sold separately), connect HRR-NI2 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-NI2 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-NI2 T-harness and match the wire functions.

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

STEP 2

- Plug in the 4-pin white connectors.
- Plug in the 4-pin green connectors.

STEP 3

- Plug in the 10-pin white connector from cable A to NI2 main harness.
- Connect both the 20-pin and 40-pin connectors of HRR-NI2 T-harness to the factory radio harness.

STEP 4

- Plug the harnesses into the aftermarket radio.
- Connect the backup cam cable into the aftermarket radio (if equipped).
- Plug the Data cable to the data port of the aftermarket radio.

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

STEP 5

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

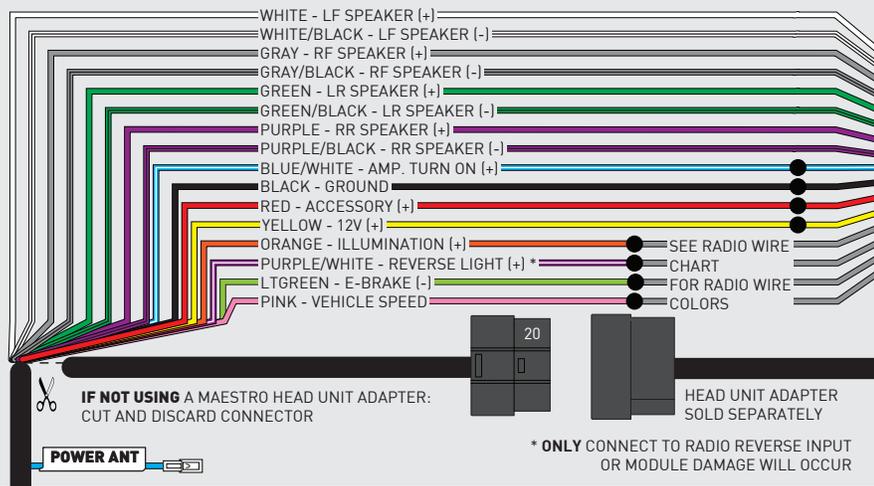
360 CAMERA CONTROLS (with vehicle in reverse)

SEEK UP - change view

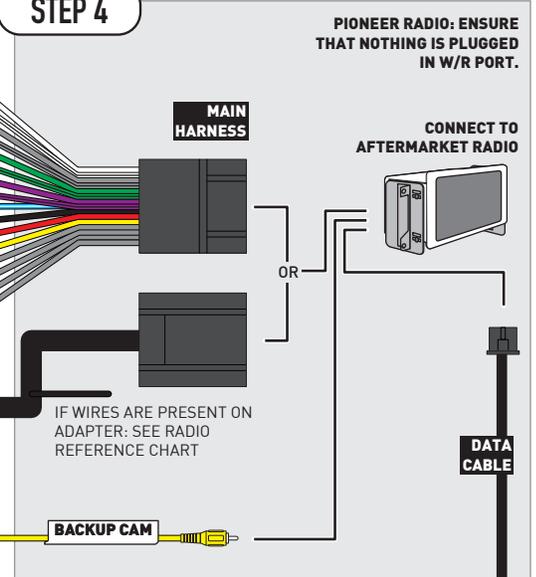
SEEK DOWN - change view

WIRING DIAGRAM

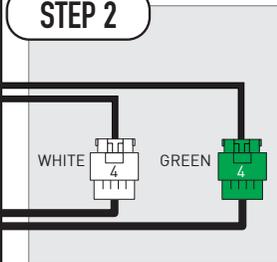
STEP 1



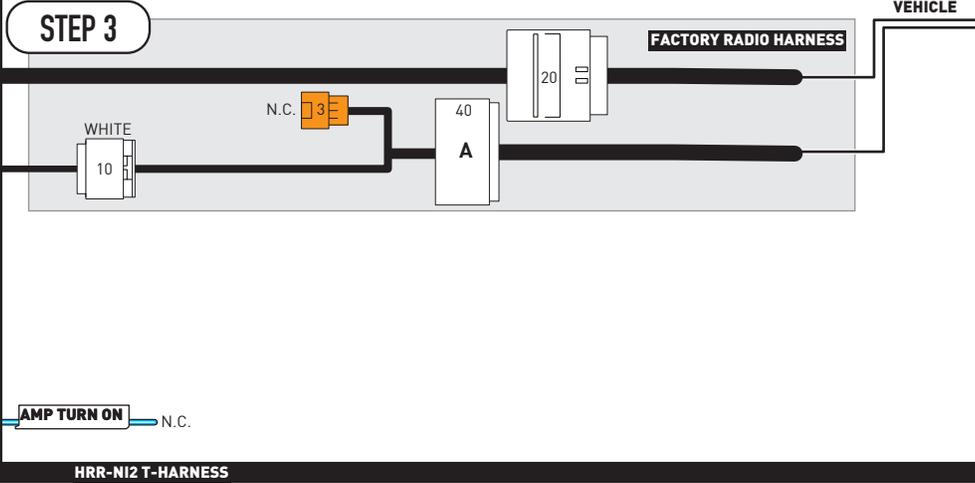
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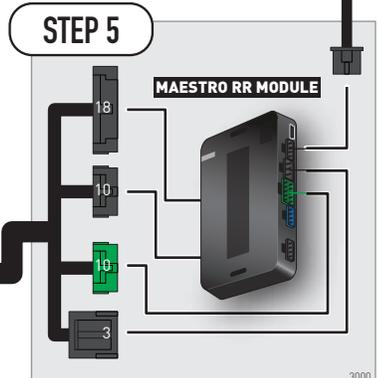
STEP 2



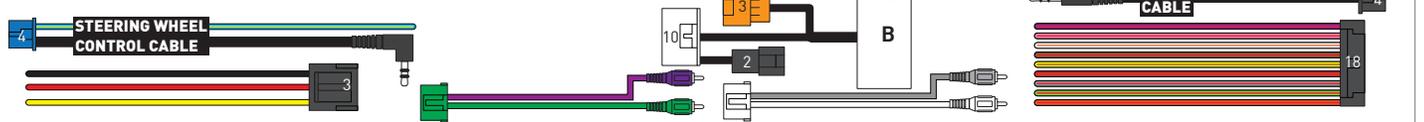
STEP 3



STEP 5



NOT REQUIRED



RADIO WIRE REFERENCE CHART

NI2 T-harness 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
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A
Power Antenna	(+)	Blue	Blue	Blue	Blue/White	Blue or Blue/White

Head unit adapter wiring (optional accessory, sold separately)

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

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

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

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

MODULE DIAGNOSTICS



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

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

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	<p>Ensure OBDII connector is securely attached to the OBDII connector of the vehicle.</p> <p>If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the RED/BROWN wire is on PIN 6 and the YELLOW/BROWN wire is connected to PIN 14 of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options.</p> <p>Reset the RR.</p>
Backup camera is not displayed.	<p>If radio doesn't switch to camera input, ensure purple/white from the NI2 harness is connected ONLY to radio reverse input wire. Do not power a camera off it.</p> <p>If radio switches to blank image, verify yellow "BACK UP CAMERA" RCA is connected to the correct input. Most radios have a yellow "R CAM" or "CAM" input. Pioneer models may use a brown "BC IN" input.</p>
The light on the Maestro is blinking RED TWICE and the radio IS turning on.	<p>Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty.</p> <p>Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.</p>
The light on the Maestro is blinking RED TWICE but the radio is NOT turning on.	<p>If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well.</p> <p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p>
The steering wheel controls or accessory power are not working.	<p>Verify module has been programmed.</p> <p>Turn vehicle off, unplug all RR connections and hold the button while plugging all connectors back in. Release the button when the LED on module flashes rapidly RED. Ensure all connectors are fully seated and turn the vehicle back on.</p> <p>CAN connections may require wiring to another location so ensure the correct vehicle guide is being followed.</p> <p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p> <p>If LED is blinking RED TWICE, refer to the step above for troubleshooting.</p>

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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- Cut and remove the black 20 pin connector from the HRR-NI2 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-NI2 T-harness and match the wire functions.

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

STEP 2

- Determine if the vehicle has a factory amplifier. Look for badges on the radio, door panels and dash that indicate the presence of an amplifier (ex: BOSE).

If the vehicle DOES NOT have a factory amplifier:

- Plug in the 4-pin white connectors.
- Plug in the 4-pin green connectors.

If the vehicle DOES have a factory amplifier:

- Unplug the HRR-NI2 4-pin white and 4-pin green connectors.
- Connect the HRR-NI2 4-pin white to 4-pin white connector with RCAs. Connect the 4-pin green to 4-pin green connector with RCAs.
- Connect the RCAs to the radio outputs: white/left front, gray/right front, green/left rear, purple/right rear.

STEP 3

- Plug in the 10-pin white connector from cable A to NI2 main harness.
- Connect both the 20-pin and 40-pin connectors of HRR-NI2 T-harness to the factory radio harness.
- Cut red/brown and yellow/brown wires on cable A near the 40-pin connector. Tape up the 40-pin side of the cut wires.

STEP 4

- Extend the othe side of the red/brown and yellow/brown wires to BCM 40-pin green connector (refer to diagram).
- Connect red/brown wire to blue wire, pin 20.
- Connect yellow/brown wire to pink wire, pin 40.

STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup cam cable into the aftermarket radio (if equipped).
- Plug the Data cable to the data port of the aftermarket radio.

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

STEP 6

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

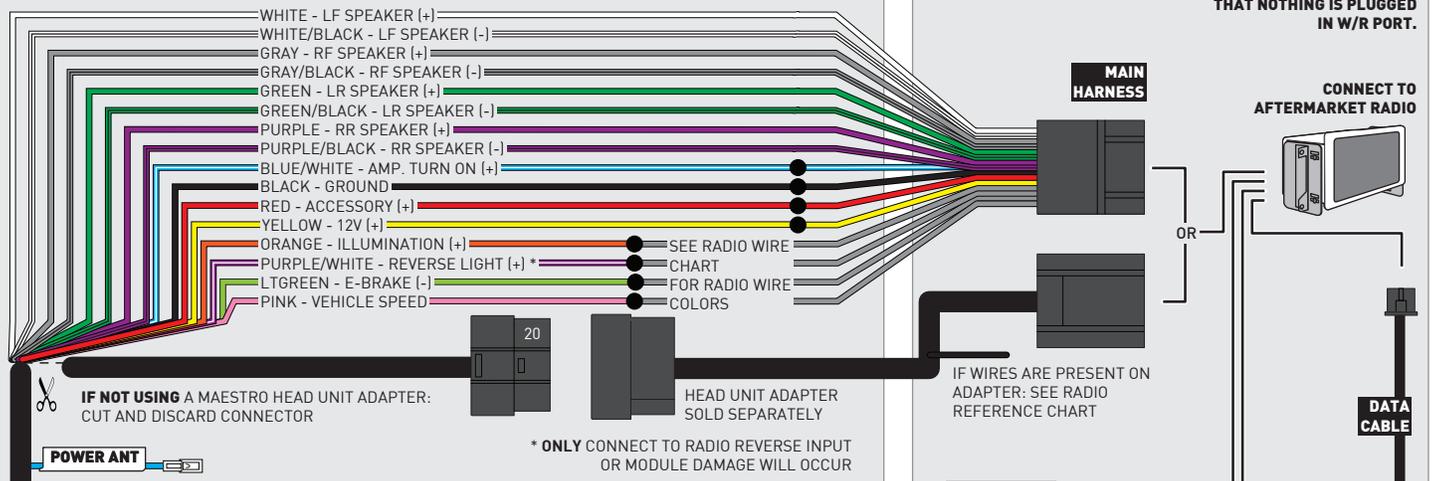
360 CAMERA CONTROLS (with vehicle in reverse)

SEEK UP - change view

SEEK DOWN - change view

WIRING DIAGRAM

STEP 1



STEP 5

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

STEP 2

WITHOUT OEM AMPLIFIER

STEP 2

WITH OEM AMPLIFIER

RR OUT
LR OUT
RF OUT
LF OUT

STEP 3

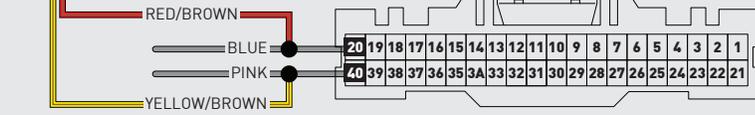
FACTORY RADIO HARNESS

STEP 4

NOTE 1

BCM, LOWER DRIVER SIDE D

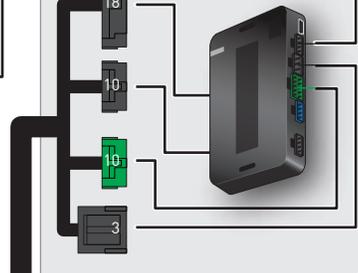
1: GREEN CONNECTOR



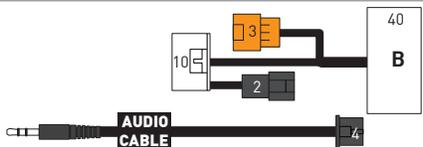
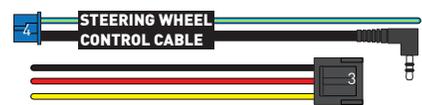
NOTE 1: IF NECESSARY: USE OBDII TWISTED WIRES TO EXTEND RED/BROWN AND YELLOW/BROWN WIRES. DISCARD BLACK CONNECTORS.

STEP 6

MAESTRO RR MODULE



NOT REQUIRED



RADIO WIRE REFERENCE CHART

NI2 T-harness 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
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A
Power Antenna	(+)	Blue	Blue	Blue	Blue/White	Blue or Blue/White

Head unit adapter wiring (optional accessory, sold separately)

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

ACC-HU-KEN1 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
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Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

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

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

MODULE DIAGNOSTICS



LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
● or ●		RED or GREEN flashing	LED flashes 1 or more times, either red or green, when a steering wheel button is pressed : normal operation.
●		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do <u>NOT</u> use DEMO MODE.
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	●	3 GREEN flashes	Bluetooth is activated. Turns off after one minute: Normal operation.
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VIDEO HELP		Installation, product information, vehicle specific videos.
VERIFY FLASH		Last flash information, steering control configuration, vehicle information.
WEBLINK		Software to program module.

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PROBLEM	SOLUTION
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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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STEP 3

- Plug in the 10-pin white connector from cable A to NI2 main harness.
- Connect both the 20-pin and 40-pin connectors of HRR-NI2 T-harness to the factory radio harness.
- Cut red/brown and yellow/brown wires on cable A near the 40-pin connector. Tape up the 40-pin side of the cut wires.

STEP 4

- Extend the other side of the red/brown and yellow/brown wires to BCM 40-pin black connector (refer to diagram).
- Connect red/brown wire to blue wire, pin 6.
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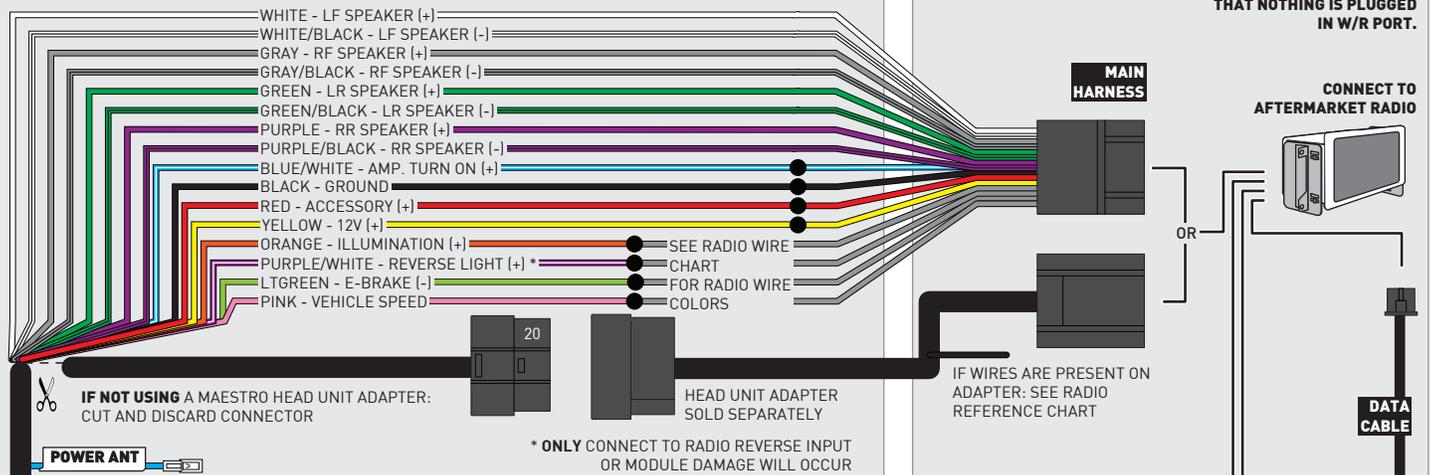
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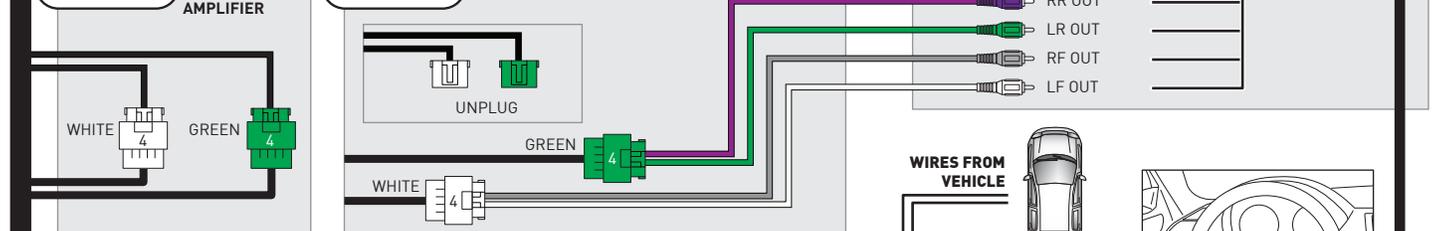
SEEK DOWN - change view

WIRING DIAGRAM

STEP 1



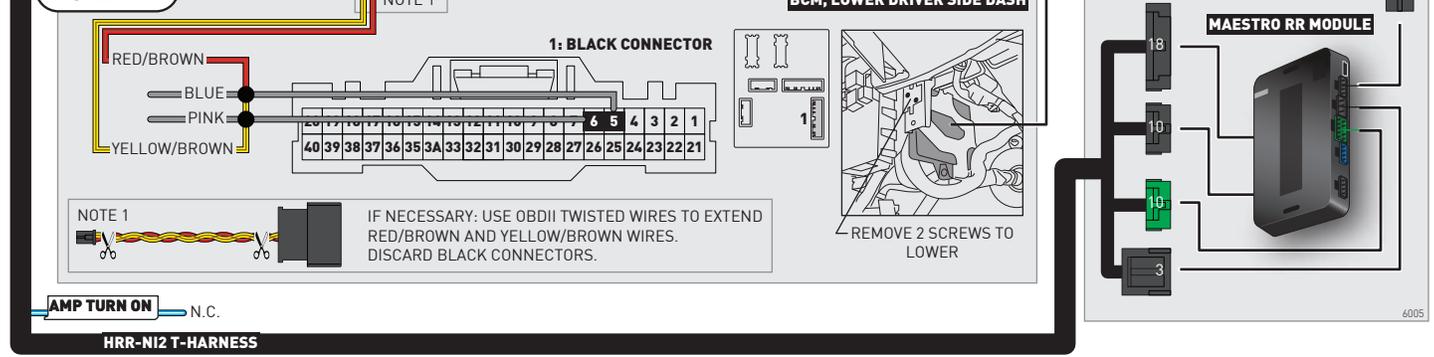
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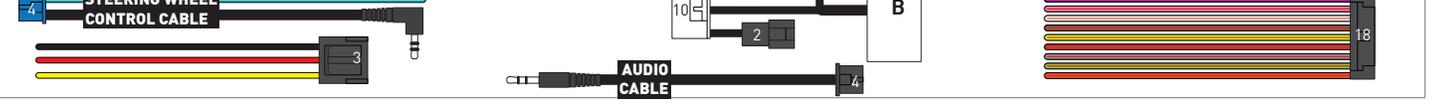
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STEP 4



STEP 5



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Gauges do not work, radio shows OBD2 Error 1 or Error 2.	<p>Ensure OBDII connector is securely attached to the OBDII connector of the vehicle.</p> <p>If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the RED/BROWN wire is on PIN 6 and the YELLOW/BROWN wire is connected to PIN 14 of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options.</p> <p>Reset the RR.</p>
Backup camera is not displayed.	<p>If radio doesn't switch to camera input, ensure purple/white from the NI2 harness is connected ONLY to radio reverse input wire. Do not power a camera off it.</p> <p>If radio switches to blank image, verify yellow "BACK UP CAMERA" RCA is connected to the correct input. Most radios have a yellow "R CAM" or "CAM" input. Pioneer models may use a brown "BC IN" input.</p>
The light on the Maestro is blinking RED TWICE and the radio IS turning on.	<p>Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty.</p> <p>Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.</p>
The light on the Maestro is blinking RED TWICE but the radio is NOT turning on.	<p>If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well.</p> <p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p>
The steering wheel controls or accessory power are not working.	<p>Verify module has been programmed.</p> <p>Turn vehicle off, unplug all RR connections and hold the button while plugging all connectors back in. Release the button when the LED on module flashes rapidly RED. Ensure all connectors are fully seated and turn the vehicle back on.</p> <p>CAN connections may require wiring to another location so ensure the correct vehicle guide is being followed.</p> <p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p> <p>If LED is blinking RED TWICE, refer to the step above for troubleshooting.</p>

MAESTRO RR RESET PROCEDURE:

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

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

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

TECHNICAL ASSISTANCE

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Email: maestro.support@idatalink.com

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.

2019-2021

NISSAN ROGUE SPORT OR QASHQAI
7INCH TOUCHSCREEN WITH NAV

RETAINS STEERING WHEEL CONTROLS, VEHICLE SETTINGS, AND MORE!



PRODUCTS REQUIRED

iDataLink Maestro RR or RR2 Radio Replacement Interface
iDataLink Maestro HRR-NI2 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-NI01-DS

ADDITIONAL RESOURCES

[Maestro RR2 Programmable Outputs Guide](#)

OPTIONAL ACCESSORIES

K40[™]
ELECTRONICS
ESCORT

Click here for:
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HEAD UNIT ADAPTER:
ACC-HU-PI01, SON1, KEN1, KEN2, ALP1

WELCOME

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

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

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

NEED HELP?

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INSTALLATION INSTRUCTIONS P1/1

STEP 1

Remove the factory radio

If using head unit adapter (sold separately), connect HRR-NI2 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-NI2 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-NI2 T-harness and match the wire functions.

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

STEP 2

- Determine if the vehicle has a factory amplifier. Look for badges on the radio, door panels and dash that indicate the presence of an amplifier (ex: BOSE).

If the vehicle DOES NOT have a factory amplifier:

- Plug in the 4-pin white connectors.
- Plug in the 4-pin green connectors.

If the vehicle DOES have a factory amplifier:

- Unplug the HRR-NI2 4-pin white and 4-pin green connectors.
- Connect the HRR-NI2 4-pin white to 4-pin white connector with RCAs. Connect the 4-pin green to 4-pin green connector with RCAs.
- Connect the RCAs to the radio outputs: white/left front, gray/right front, green/left rear, purple/right rear.

STEP 3

- Plug in the 10-pin white connector from cable A to NI2 main harness.
- Connect both the 20-pin and 40-pin connectors of HRR-NI2 T-harness to the factory radio harness.
- Cut red/brown and yellow/brown wires on cable A near the 40-pin connector. Tape up the 40-pin side of the cut wires.

STEP 4

- Extend the othe side of the red/brown and yellow/brown wires to BCM 40-pin green connector (refer to diagram).
- Connect red/brown wire to blue wire, pin 20.
- Connect yellow/brown wire to pink wire, pin 40.

STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup cam cable into the aftermarket radio (if equipped).
- Plug the Data cable to the data port of the aftermarket radio.

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

STEP 6

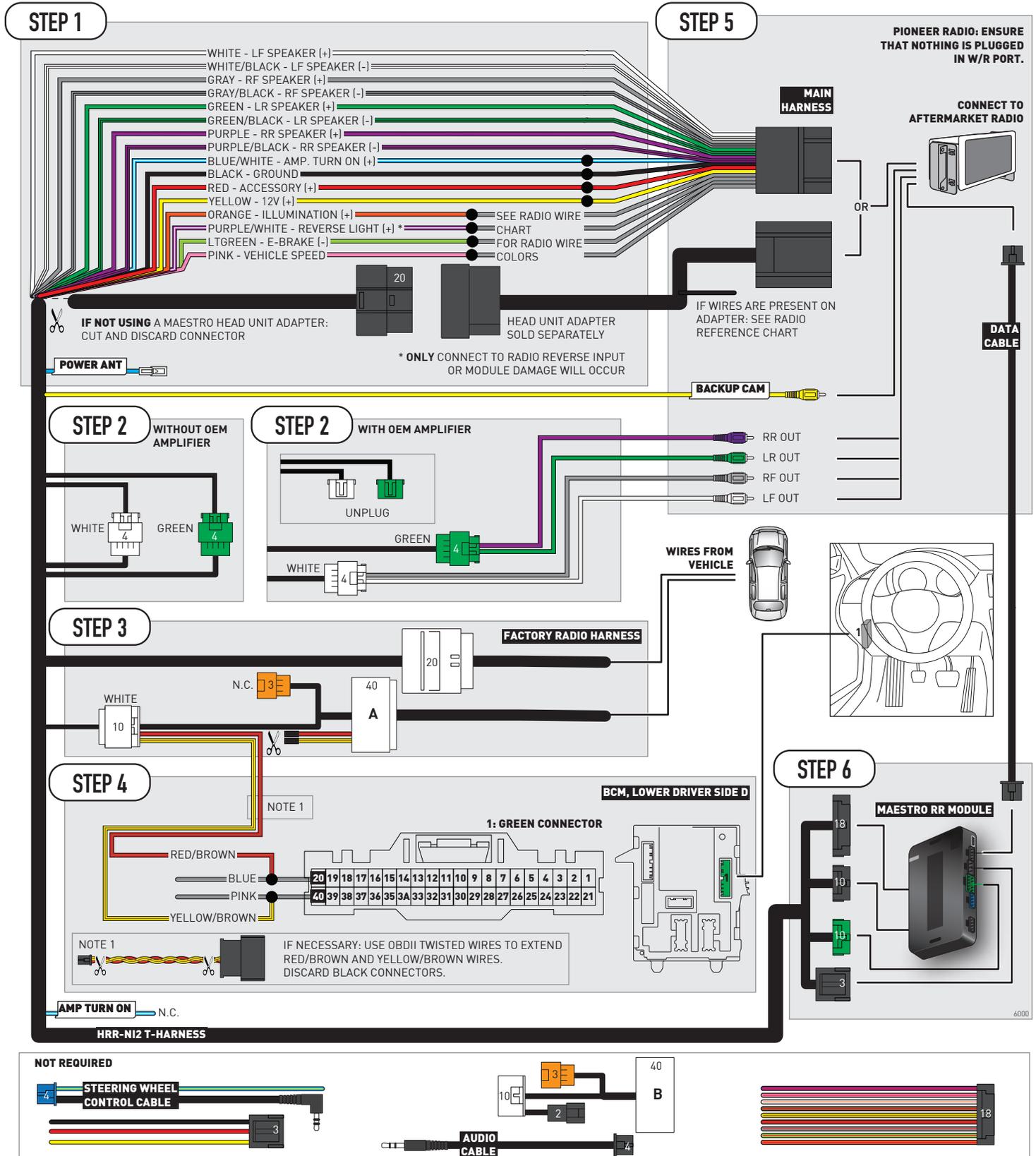
- Connect all the harnesses to the Maestro RR module then test your installation.

360 CAMERA CONTROLS (with vehicle in reverse)

SEEK UP - change view

SEEK DOWN - change view

WIRING DIAGRAM



RADIO WIRE REFERENCE CHART

NI2 T-harness 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
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A
Power Antenna	(+)	Blue	Blue	Blue	Blue/White	Blue or Blue/White

Head unit adapter wiring (optional accessory, sold separately)

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

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

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

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

MODULE DIAGNOSTICS



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

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

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	<p>Ensure OBDII connector is securely attached to the OBDII connector of the vehicle.</p> <p>If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the RED/BROWN wire is on PIN 6 and the YELLOW/BROWN wire is connected to PIN 14 of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options.</p> <p>Reset the RR.</p>
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The steering wheel controls or accessory power are not working.	<p>Verify module has been programmed.</p> <p>Turn vehicle off, unplug all RR connections and hold the button while plugging all connectors back in. Release the button when the LED on module flashes rapidly RED. Ensure all connectors are fully seated and turn the vehicle back on.</p> <p>CAN connections may require wiring to another location so ensure the correct vehicle guide is being followed.</p> <p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p> <p>If LED is blinking RED TWICE, refer to the step above for troubleshooting.</p>

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Remove the factory radio

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- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-NI2 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-NI2 T-harness and match the wire functions.

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

STEP 2

- Plug in the 4-pin white connectors.
- Plug in the 4-pin green connectors.

STEP 3

- Plug in the 10-pin white connector from cable A to NI2 main harness.
- Connect both the 20-pin and 40-pin connectors of HRR-NI2 T-harness to the factory radio harness.
- Cut red/brown and yellow/brown wires on cable A near the 40-pin connector. Tape up the 40-pin side of the cut wires.

STEP 4

- Extend the othe side of the red/brown and yellow/brown wires to BCM 40-pin green connector (refer to diagram).
- Connect red/brown wire to blue or purple/blue wire, pin 20.
- Connect yellow/brown wire to pink or purple/pink wire, pin 40.

STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup cam cable into the aftermarket radio (if equipped).
- Plug the Data cable to the data port of the aftermarket radio.

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

STEP 6

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

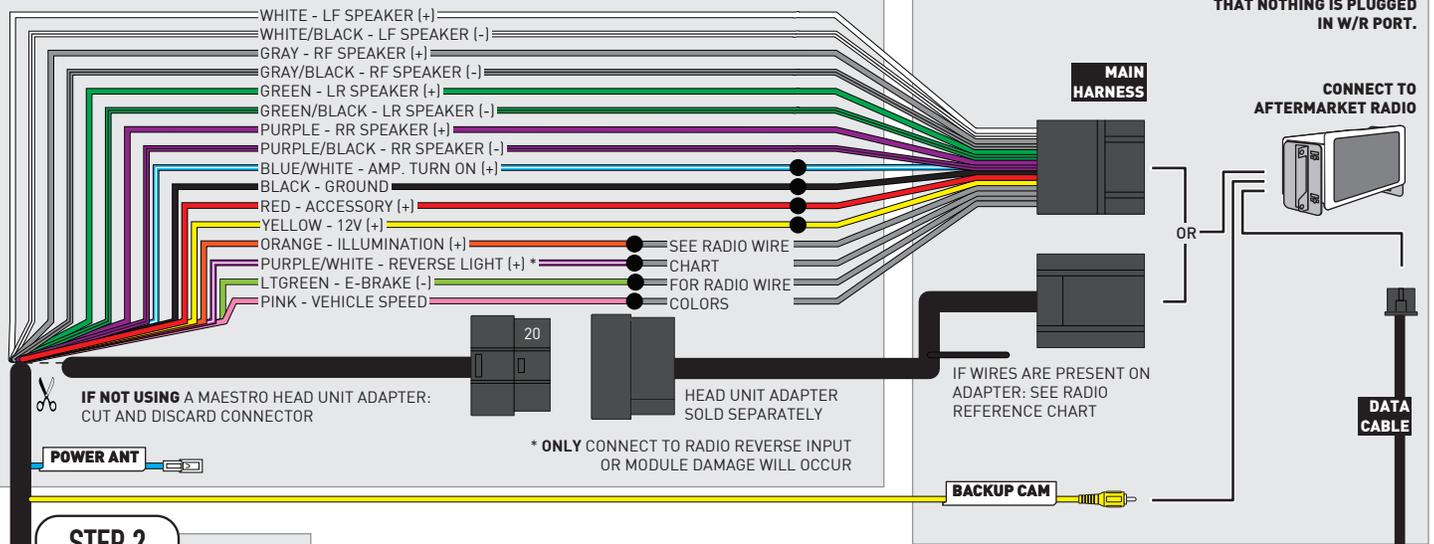
360 CAMERA CONTROLS (with vehicle in reverse)

SEEK UP - change view

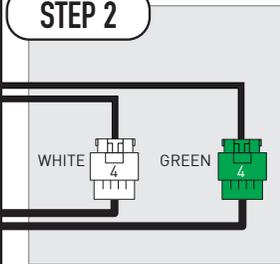
SEEK DOWN - change view

WIRING DIAGRAM

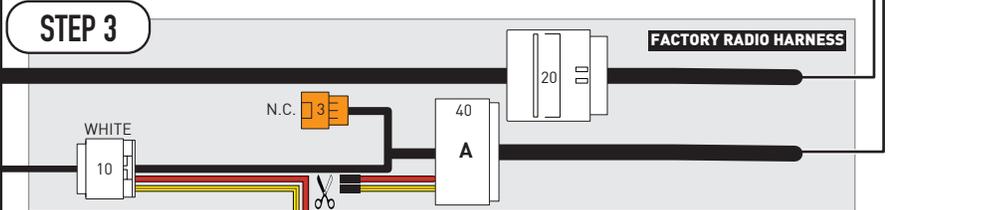
STEP 1



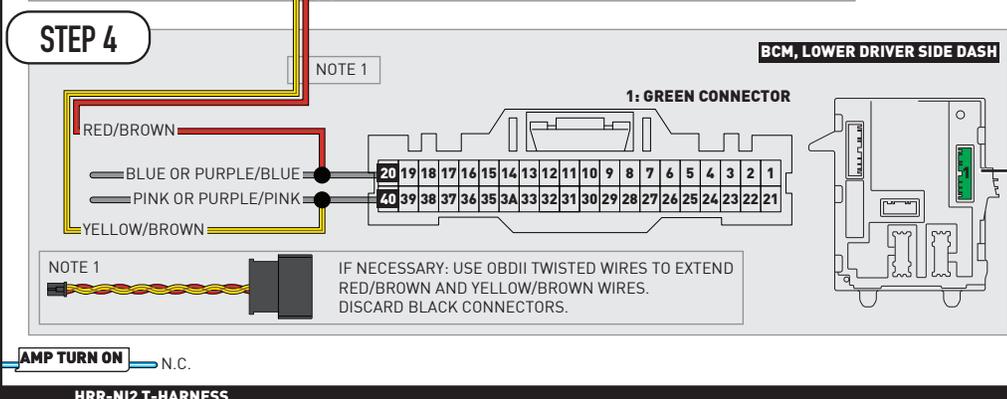
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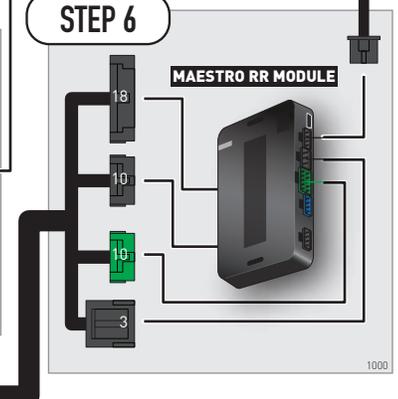
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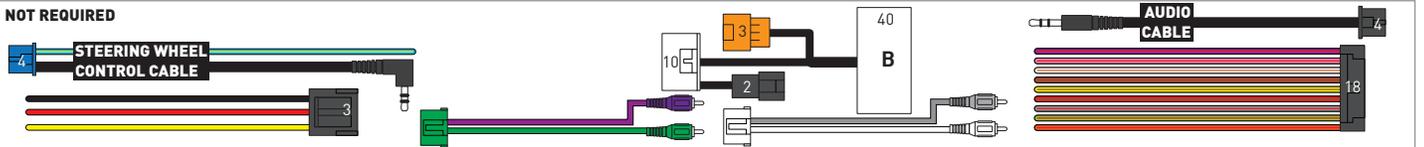
STEP 4



STEP 6



NOT REQUIRED



RADIO WIRE REFERENCE CHART

NI2 T-harness 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
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A
Power Antenna	(+)	Blue	Blue	Blue	Blue/White	Blue or Blue/White

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

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E-Brake	(-)	LtGreen	LtGreen
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2020

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STEP 2

- Plug in the 4-pin white connectors.
- Plug in the 4-pin green connectors.

STEP 3

- Plug in the 10-pin white connector from cable A to NI2 main harness.
- Connect both the 20-pin and 40-pin connectors of HRR-NI2 T-harness to the factory radio harness.
- Cut red/brown and yellow/brown wires on cable A near the 40-pin connector. Tape up the 40-pin side of the cut wires.

STEP 4

- Extend the othe side of the red/brown and yellow/brown wires to BCM 40-pin gray connector (refer to diagram).
- Connect red/brown wire to purple/blue wire, pin 26.
- Connect yellow/brown wire to purple/pink wire, pin 27.

STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup cam cable into the aftermarket radio (if equipped).
- Plug the Data cable to the data port of the aftermarket radio.

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

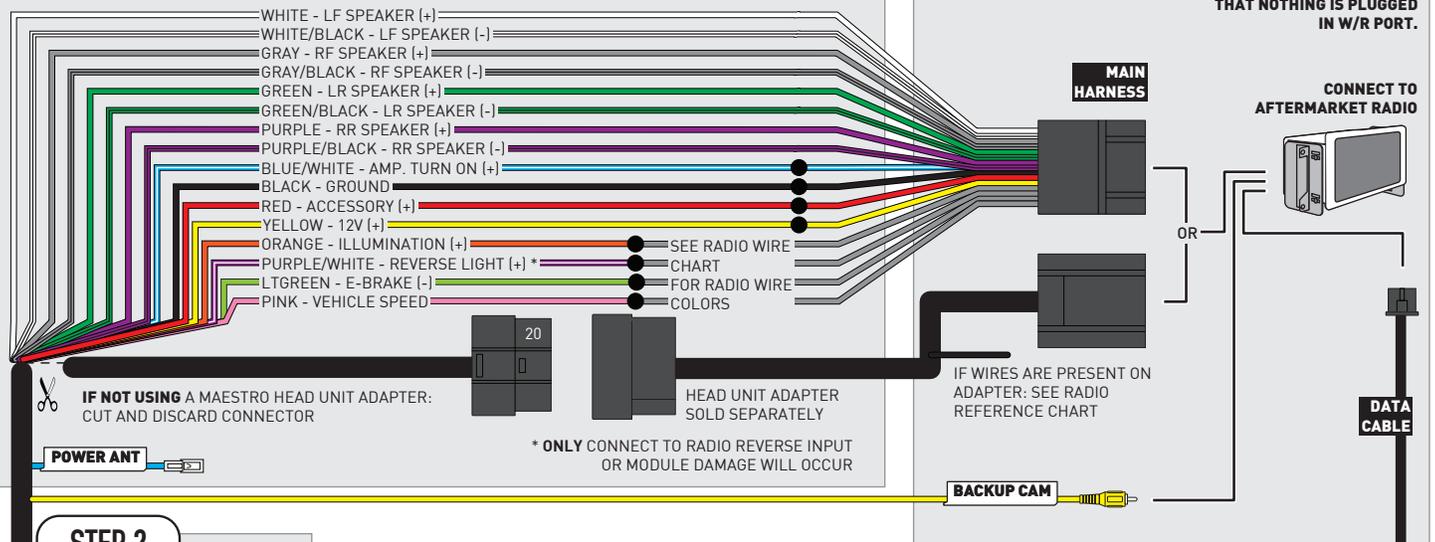
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SEEK UP - change view

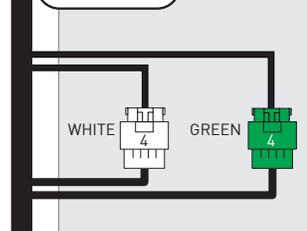
SEEK DOWN - change view

WIRING DIAGRAM

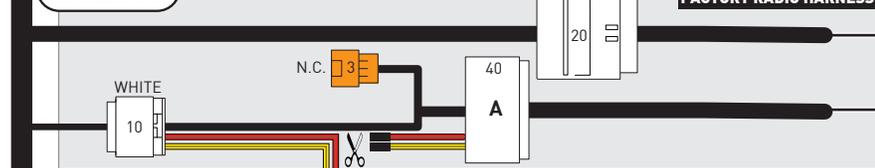
STEP 1



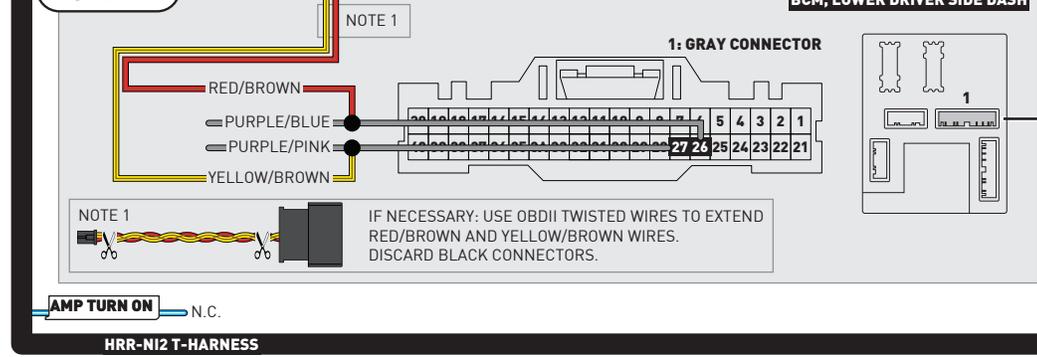
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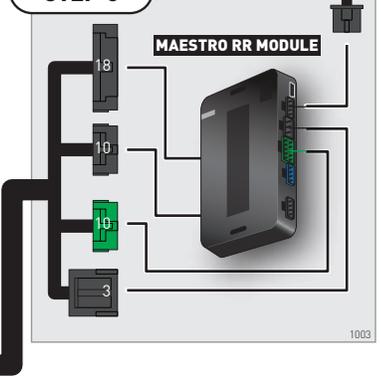
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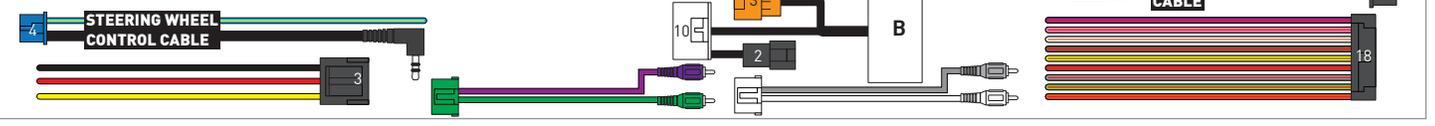
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Illumination	(+)	Orange	N/A	Orange/White	Orange/White	Orange
Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A
Power Antenna	(+)	Blue	Blue	Blue	Blue/White	Blue or Blue/White

Head unit adapter wiring (optional accessory, sold separately)

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

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

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

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

MODULE DIAGNOSTICS



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

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

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	<p>Ensure OBDII connector is securely attached to the OBDII connector of the vehicle.</p> <p>If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the RED/BROWN wire is on PIN 6 and the YELLOW/BROWN wire is connected to PIN 14 of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options.</p> <p>Reset the RR.</p>
Backup camera is not displayed.	<p>If radio doesn't switch to camera input, ensure purple/white from the NI2 harness is connected ONLY to radio reverse input wire. Do not power a camera off it.</p> <p>If radio switches to blank image, verify yellow "BACK UP CAMERA" RCA is connected to the correct input. Most radios have a yellow "R CAM" or "CAM" input. Pioneer models may use a brown "BC IN" input.</p>
The light on the Maestro is blinking RED TWICE and the radio IS turning on.	<p>Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty.</p> <p>Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.</p>
The light on the Maestro is blinking RED TWICE but the radio is NOT turning on.	<p>If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well.</p> <p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p>
The steering wheel controls or accessory power are not working.	<p>Verify module has been programmed.</p> <p>Turn vehicle off, unplug all RR connections and hold the button while plugging all connectors back in. Release the button when the LED on module flashes rapidly RED. Ensure all connectors are fully seated and turn the vehicle back on.</p> <p>CAN connections may require wiring to another location so ensure the correct vehicle guide is being followed.</p> <p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p> <p>If LED is blinking RED TWICE, refer to the step above for troubleshooting.</p>

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.

2020

NISSAN SENTRA (USA)
WITHOUT NAV WITH BOSE

RETAINS STEERING WHEEL CONTROLS, VEHICLE SETTINGS, AND MORE!



PRODUCTS REQUIRED

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iDataLink Maestro HRR-NI2 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-NI01-DS

ADDITIONAL RESOURCES

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OPTIONAL ACCESSORIES

K40
ELECTRONICS
ESCORT

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

HEAD UNIT ADAPTER:
ACC-HU-PI01, SON1, KEN1, KEN2, ALP1

WELCOME

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

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

NEED HELP?

 1 866 427-2999

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Module Diagnostics	6
Troubleshooting Table	7

INSTALLATION INSTRUCTIONS P1/1

STEP 1

Remove the factory radio

If using head unit adapter (sold separately), connect HRR-NI2 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-NI2 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-NI2 T-harness and match the wire functions.

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

STEP 2

- Unlug the HRR-NI2 4-pin white and 4-pin green connectors.
- Connect the HRR-NI2 4-pin white to 4-pin white connector with RCAs. Connect the 4-pin green to 4-pin green connector with RCAs.
- Connect the RCAs to the radio outputs: white/left front, gray/right front, green/left rear, purple/right rear.

STEP 3

- Plug in the 10-pin white connector from cable A to NI2 main harness.
- Connect both the 20-pin and 40-pin connectors of HRR-NI2 T-harness to the factory radio harness.
- Cut red/brown and yellow/brown wires on cable A near the 40-pin connector. Tape up the 40-pin side of the cut wires.

STEP 4

- Extend the othe side of the red/brown and yellow/brown wires to BCM 40-pin gray connector (refer to diagram).
- Connect red/brown wire to purple/blue wire, pin 26.
- Connect yellow/brown wire to purple/pink wire, pin 27.

STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup cam cable into the aftermarket radio (if equipped).
- Plug the Data cable to the data port of the aftermarket radio.

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

STEP 6

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

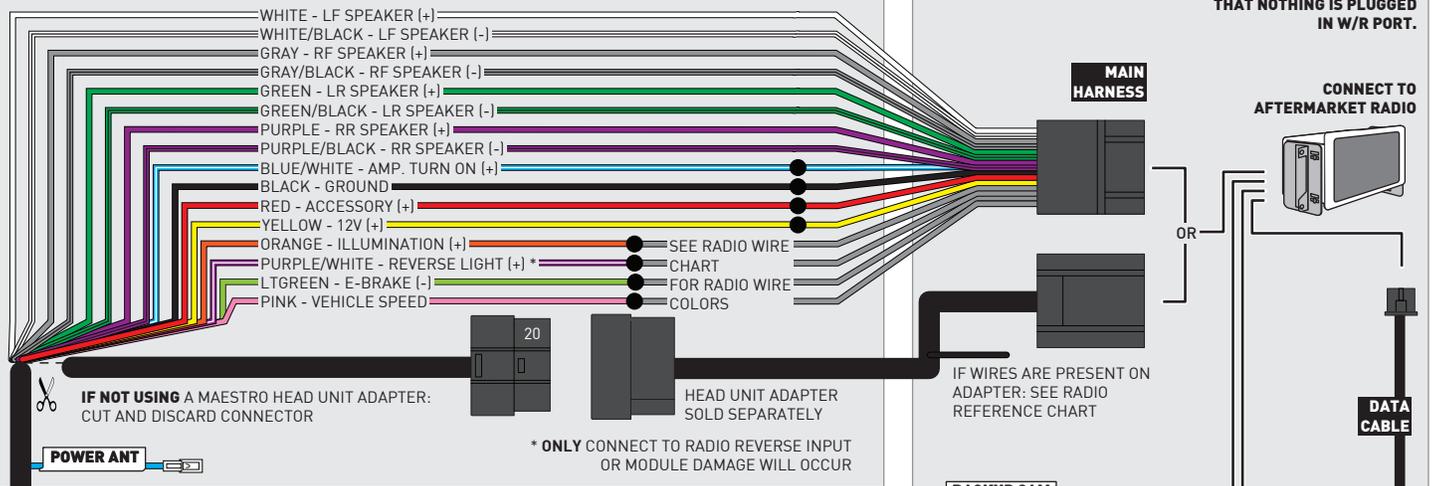
360 CAMERA CONTROLS (with vehicle in reverse)

SEEK UP - change view

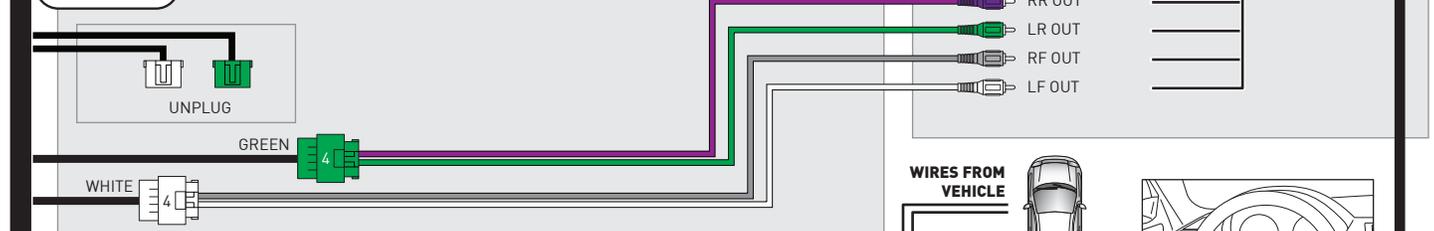
SEEK DOWN - change view

WIRING DIAGRAM

STEP 1



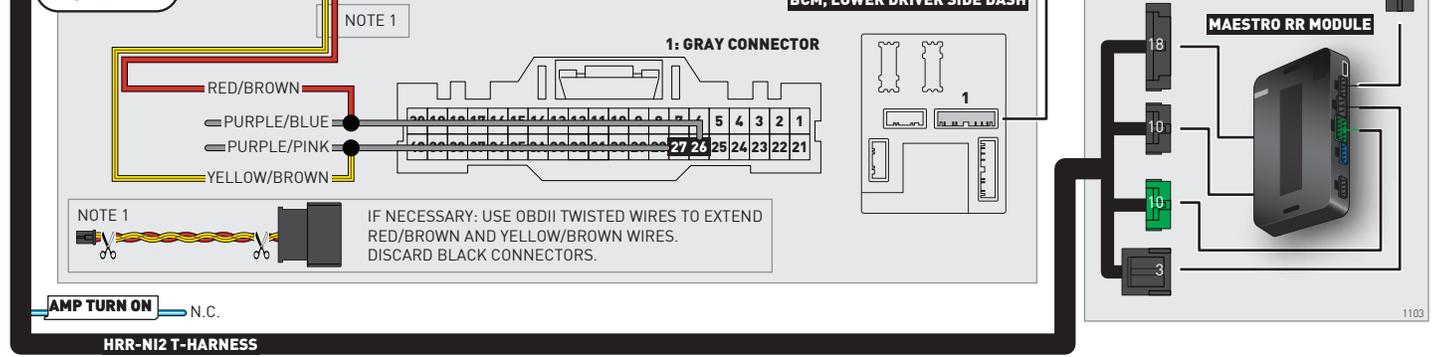
STEP 2



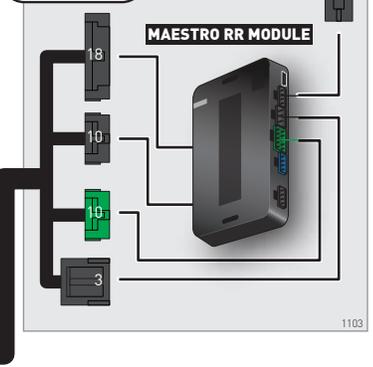
STEP 3



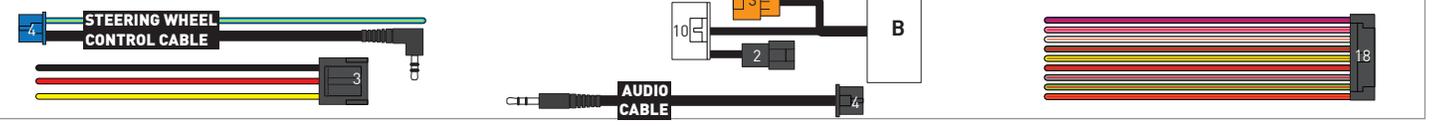
STEP 4



STEP 6



NOT REQUIRED



RADIO WIRE REFERENCE CHART

NI2 T-harness 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
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A
Power Antenna	(+)	Blue	Blue	Blue	Blue/White	Blue or Blue/White

Head unit adapter wiring (optional accessory, sold separately)

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

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

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

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

MODULE DIAGNOSTICS



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

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

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	<p>Ensure OBDII connector is securely attached to the OBDII connector of the vehicle.</p> <p>If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the RED/BROWN wire is on PIN 6 and the YELLOW/BROWN wire is connected to PIN 14 of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options.</p> <p>Reset the RR.</p>
Backup camera is not displayed.	<p>If radio doesn't switch to camera input, ensure purple/white from the NI2 harness is connected ONLY to radio reverse input wire. Do not power a camera off it.</p> <p>If radio switches to blank image, verify yellow "BACK UP CAMERA" RCA is connected to the correct input. Most radios have a yellow "R CAM" or "CAM" input. Pioneer models may use a brown "BC IN" input.</p>
The light on the Maestro is blinking RED TWICE and the radio IS turning on.	<p>Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty.</p> <p>Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.</p>
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The steering wheel controls or accessory power are not working.	<p>Verify module has been programmed.</p> <p>Turn vehicle off, unplug all RR connections and hold the button while plugging all connectors back in. Release the button when the LED on module flashes rapidly RED. Ensure all connectors are fully seated and turn the vehicle back on.</p> <p>CAN connections may require wiring to another location so ensure the correct vehicle guide is being followed.</p> <p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p> <p>If LED is blinking RED TWICE, refer to the step above for troubleshooting.</p>

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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2019

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HEAD UNIT ADAPTER:
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INSTALLATION INSTRUCTIONS P1/1

STEP 1

Remove the factory radio

If using head unit adapter (sold separately), connect HRR-NI2 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-NI2 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-NI2 T-harness and match the wire functions.

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

STEP 2

- Unlug the HRR-NI2 4-pin white and 4-pin green connectors.
- Connect the HRR-NI2 4-pin white to 4-pin white connector with RCAs. Connect the 4-pin green to 4-pin green connector with RCAs.
- Connect the RCAs to the radio outputs: white/left front, gray/right front, green/left rear, purple/right rear.

STEP 3

- Plug in the 10-pin white connector from cable A to NI2 main harness.
- Connect both the 20-pin and 40-pin connectors of HRR-NI2 T-harness to the factory radio harness.

STEP 4

- Plug the harnesses into the aftermarket radio.
- Connect the backup cam cable into the aftermarket radio (if equipped).
- Plug the Data cable to the data port of the aftermarket radio.

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

STEP 5

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

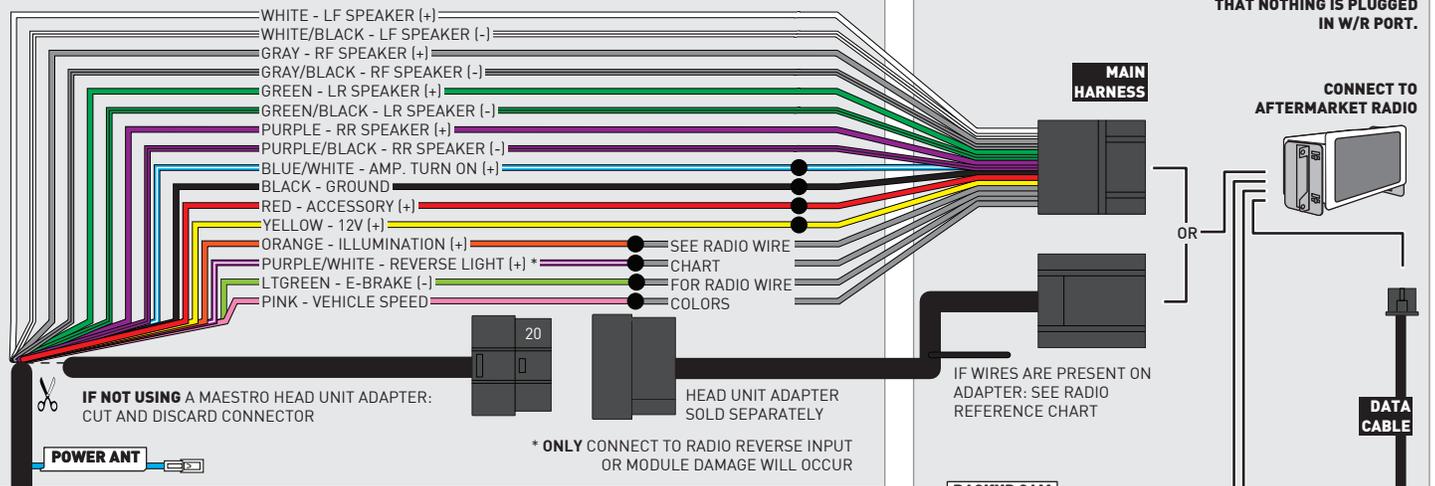
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SEEK UP - change view

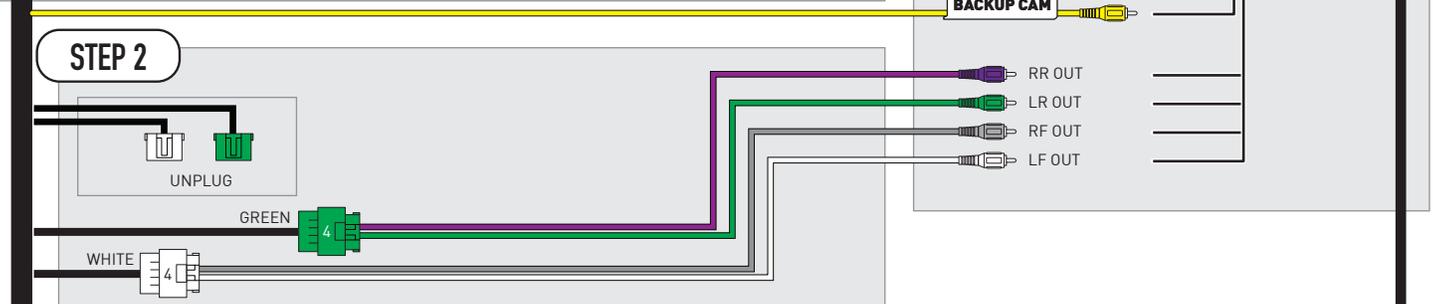
SEEK DOWN - change view

WIRING DIAGRAM

STEP 1

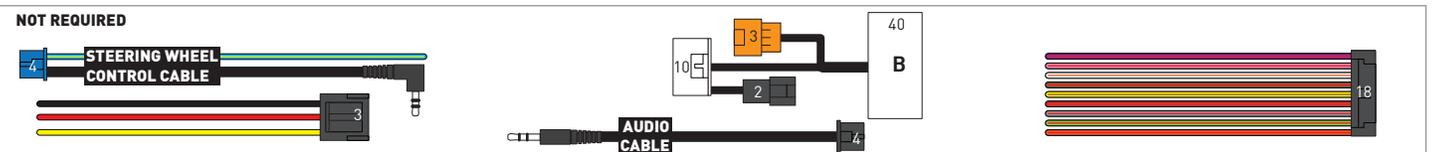
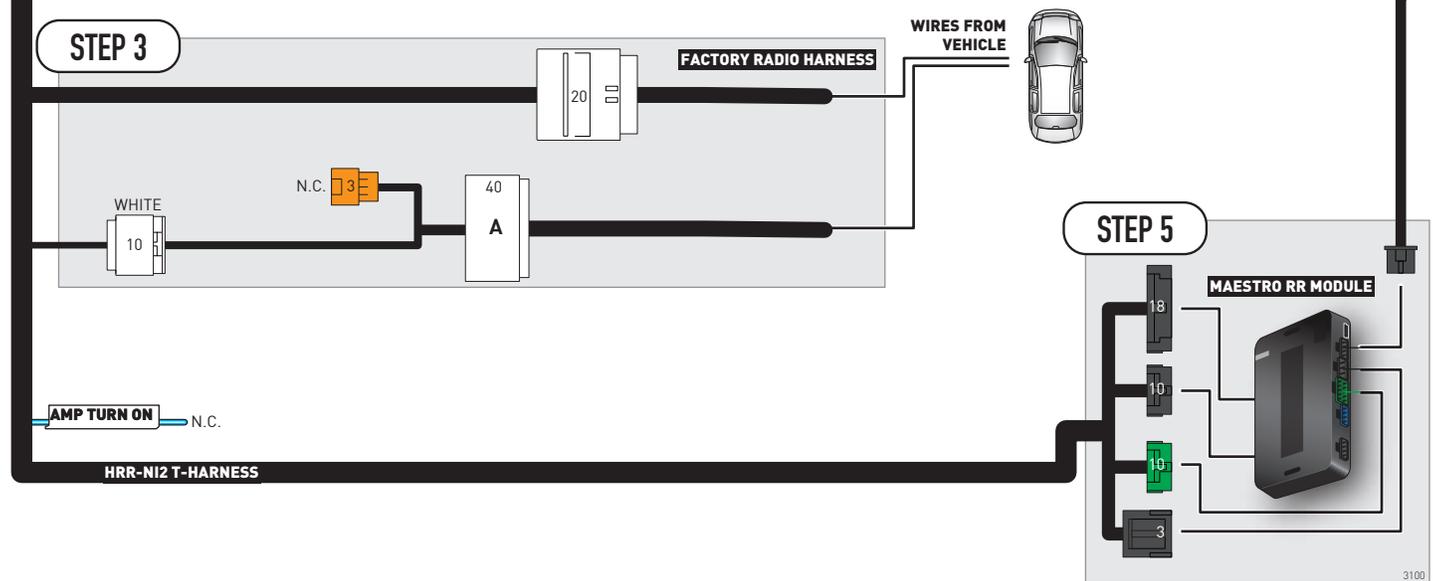


STEP 4



STEP 2

STEP 3



RADIO WIRE REFERENCE CHART

NI2 T-harness 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
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A
Power Antenna	(+)	Blue	Blue	Blue	Blue/White	Blue or Blue/White

Head unit adapter wiring (optional accessory, sold separately)

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

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

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

MODULE DIAGNOSTICS



LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
● or ●		RED or GREEN flashing	LED flashes 1 or more times, either red or green, when a steering wheel button is pressed : normal operation.
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PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	<p>Ensure OBDII connector is securely attached to the OBDII connector of the vehicle.</p> <p>If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the RED/BROWN wire is on PIN 6 and the YELLOW/BROWN wire is connected to PIN 14 of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options.</p> <p>Reset the RR.</p>
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The light on the Maestro is blinking RED TWICE and the radio IS turning on.	<p>Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty.</p> <p>Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.</p>
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Turn the key to the OFF position, then disconnect all connectors from the module.

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2019

NISSAN TITAN

7INCH TOUCHSCREEN WITH NAV

RETAINS STEERING WHEEL CONTROLS, VEHICLE SETTINGS, AND MORE!



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INSTALLATION INSTRUCTIONS P1/1

STEP 1

Remove the factory radio

If using head unit adapter (sold separately), connect HRR-NI2 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-NI2 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-NI2 T-harness and match the wire functions.

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

STEP 2

- Determine if the vehicle has a factory amplifier. Look for badges on the radio, door panels and dash that indicate the presence of an amplifier (ex: BOSE).

If the vehicle DOES NOT have a factory amplifier:

- Plug in the 4-pin white connectors.
- Plug in the 4-pin green connectors.

If the vehicle DOES have a factory amplifier:

- Unlug the HRR-NI2 4-pin white and 4-pin green connectors.
- Connect the HRR-NI2 4-pin white to 4-pin white connector with RCAs. Connect the 4-pin green to 4-pin green connector with RCAs.
- Connect the RCAs to the radio outputs: white/left front, gray/right front, green/left rear, purple/right rear.

STEP 3

- Plug in the 10-pin white connector from cable A to NI2 main harness.
- Connect both the 20-pin and 40-pin connectors of HRR-NI2 T-harness to the factory radio harness.
- Cut red/brown and yellow/brown wires on cable A near the 40-pin connector. Tape up the 40-pin side of the cut wires.

STEP 4

- Extend the othe side of the red/brown and yellow/brown wires to BCM 40-pin black connector (refer to diagram).
- Connect red/brown wire to blue wire, pin 20.
- Connect yellow/brown wire to pink wire, pin 19.

STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup cam cable into the aftermarket radio (if equipped).
- Plug the Data cable to the data port of the aftermarket radio.

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

STEP 6

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

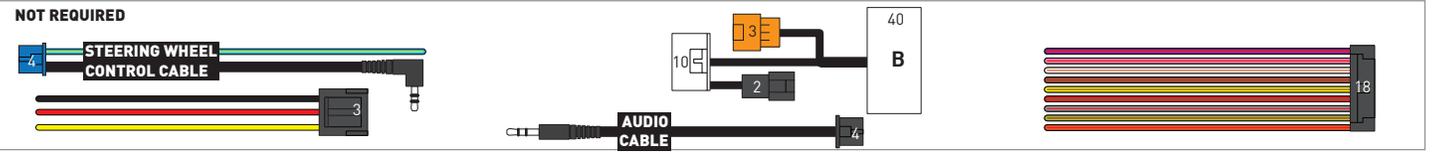
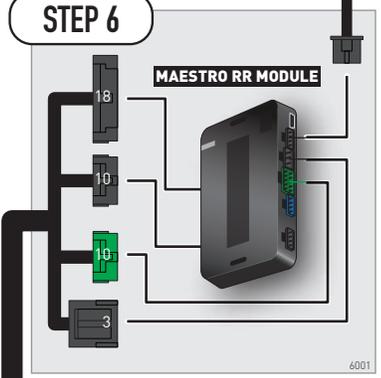
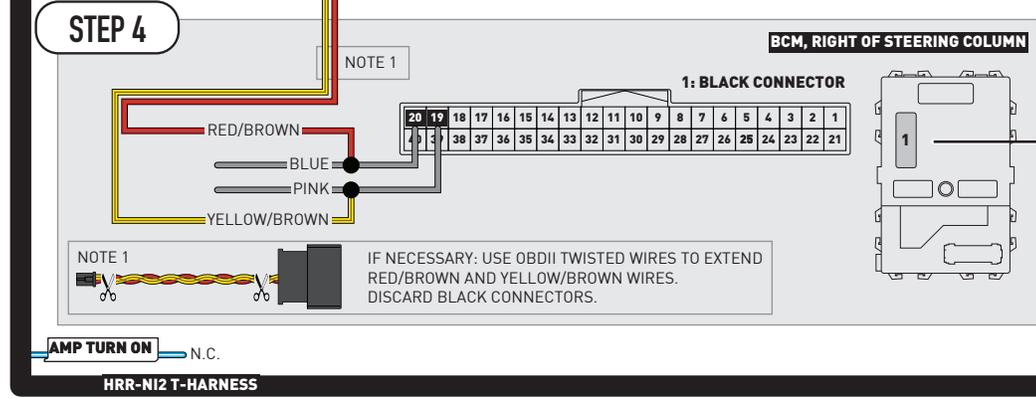
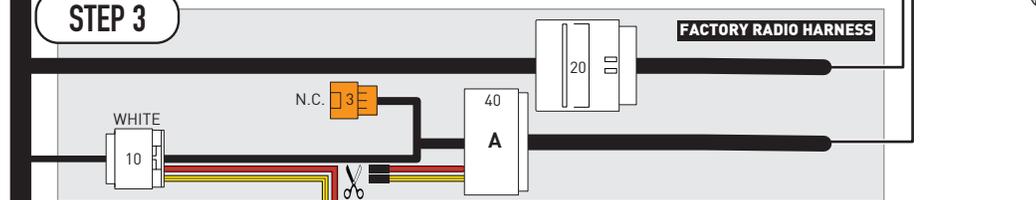
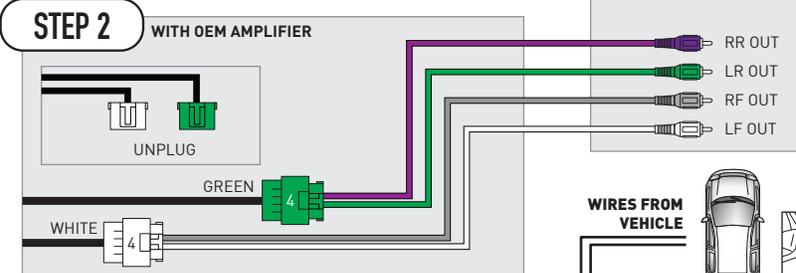
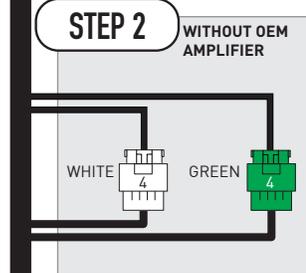
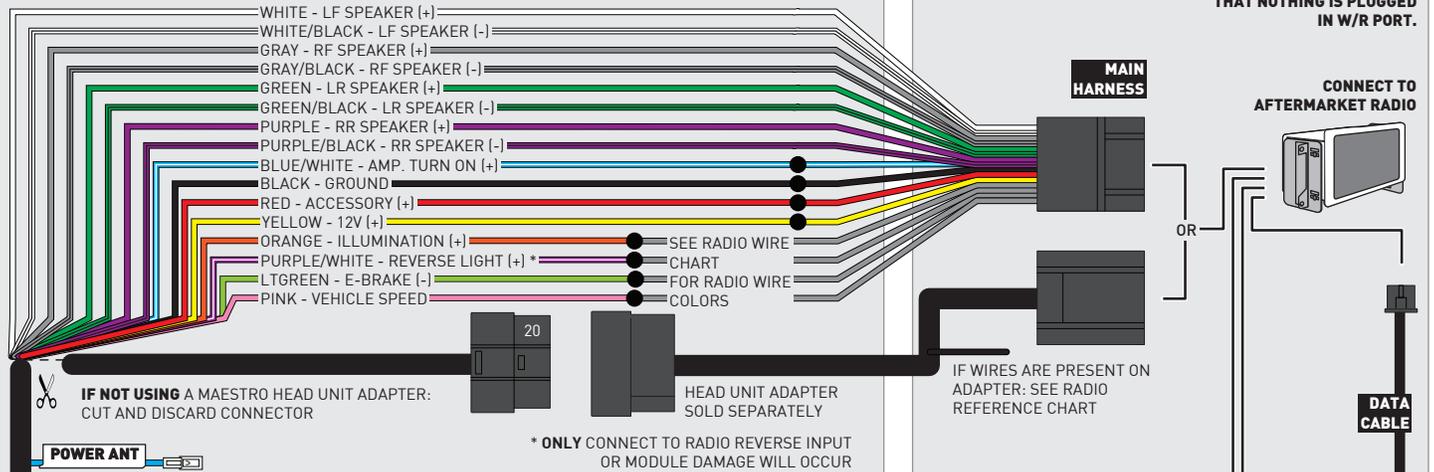
360 CAMERA CONTROLS (with vehicle in reverse)

SEEK UP - change view

SEEK DOWN - change view

WIRING DIAGRAM

STEP 1



RADIO WIRE REFERENCE CHART

NI2 T-harness 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
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A
Power Antenna	(+)	Blue	Blue	Blue	Blue/White	Blue or Blue/White

Head unit adapter wiring (optional accessory, sold separately)

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

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

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

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

MODULE DIAGNOSTICS



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

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

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	<p>Ensure OBDII connector is securely attached to the OBDII connector of the vehicle.</p> <p>If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the RED/BROWN wire is on PIN 6 and the YELLOW/BROWN wire is connected to PIN 14 of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options.</p> <p>Reset the RR.</p>
Backup camera is not displayed.	<p>If radio doesn't switch to camera input, ensure purple/white from the NI2 harness is connected ONLY to radio reverse input wire. Do not power a camera off it.</p> <p>If radio switches to blank image, verify yellow "BACK UP CAMERA" RCA is connected to the correct input. Most radios have a yellow "R CAM" or "CAM" input. Pioneer models may use a brown "BC IN" input.</p>
The light on the Maestro is blinking RED TWICE and the radio IS turning on.	<p>Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty.</p> <p>Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.</p>
The light on the Maestro is blinking RED TWICE but the radio is NOT turning on.	<p>If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well.</p> <p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p>
The steering wheel controls or accessory power are not working.	<p>Verify module has been programmed.</p> <p>Turn vehicle off, unplug all RR connections and hold the button while plugging all connectors back in. Release the button when the LED on module flashes rapidly RED. Ensure all connectors are fully seated and turn the vehicle back on.</p> <p>CAN connections may require wiring to another location so ensure the correct vehicle guide is being followed.</p> <p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p> <p>If LED is blinking RED TWICE, refer to the step above for troubleshooting.</p>

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.

2019

NISSAN TITAN

7INCH TOUCHSCREEN WITHOUT NAV

RETAINS STEERING WHEEL CONTROLS, VEHICLE SETTINGS, AND MORE!



PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro HRR-NI2 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-NI01-DS

ADDITIONAL RESOURCES

[Maestro RR2 Programmable Outputs Guide](#)

OPTIONAL ACCESSORIES

K40[™]
ELECTRONICS
ESCORT

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

HEAD UNIT ADAPTER:
ACC-HU-PI01, SON1, KEN1, KEN2, ALP1

WELCOME

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

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

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

NEED HELP?

 1 866 427-2999

 maestro.support@idatalink.com

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

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Wiring Diagram	4
Radio Wire Reference Chart	5
Module Diagnostics	6
Troubleshooting Table	7

INSTALLATION INSTRUCTIONS P1/1

STEP 1

Remove the factory radio

If using head unit adapter (sold separately), connect HRR-NI2 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-NI2 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-NI2 T-harness and match the wire functions.

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

STEP 2

- Plug in the 4-pin white connectors.
- Plug in the 4-pin green connectors.

STEP 3

- Plug in the 10-pin white connector from cable A to NI2 main harness.
- Connect both the 20-pin and 40-pin connectors of HRR-NI2 T-harness to the factory radio harness.
- Cut red/brown and yellow/brown wires on cable A near the 40-pin connector. Tape up the 40-pin side of the cut wires.

STEP 4

- Extend the othe side of the red/brown and yellow/brown wires to BCM 40-pin black connector (refer to diagram).
- Connect red/brown wire to blue wire, pin 20.
- Connect yellow/brown wire to pink wire, pin 19.

STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup cam cable into the aftermarket radio (if equipped).
- Plug the Data cable to the data port of the aftermarket radio.

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

STEP 6

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

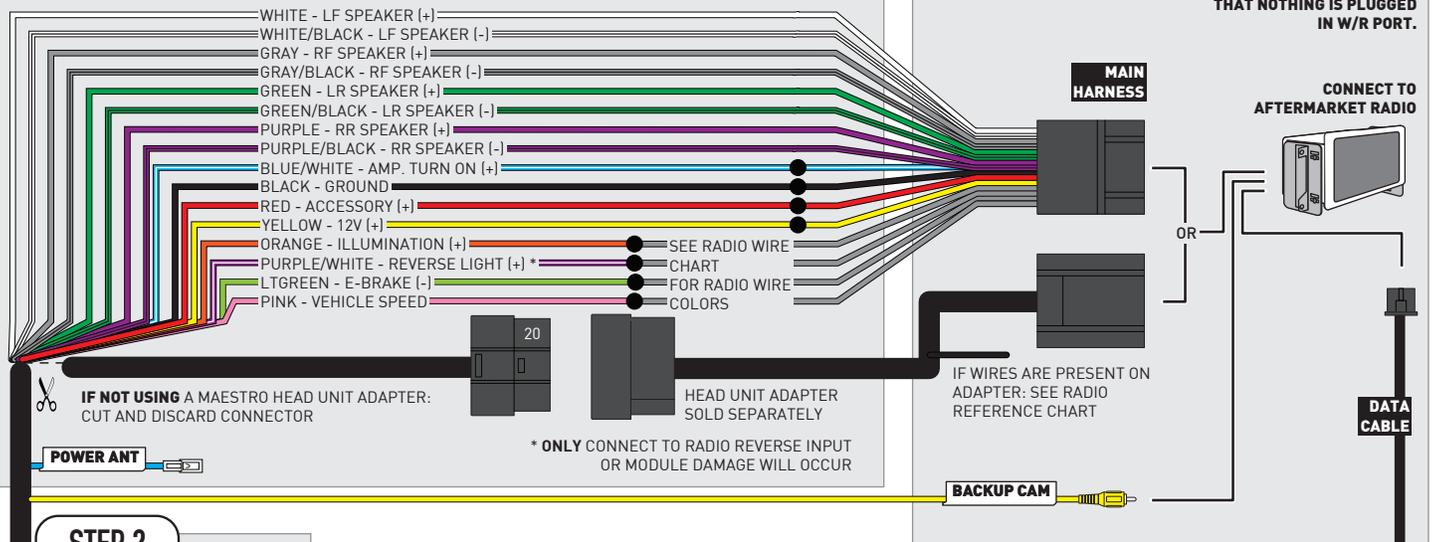
360 CAMERA CONTROLS (with vehicle in reverse)

SEEK UP - change view

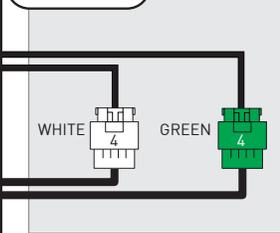
SEEK DOWN - change view

WIRING DIAGRAM

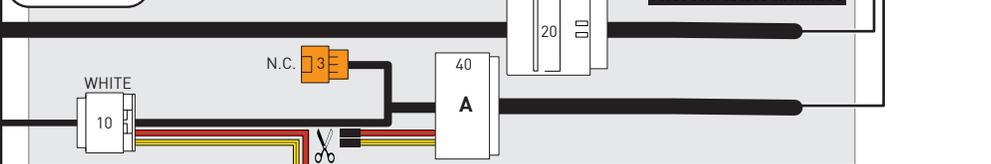
STEP 1



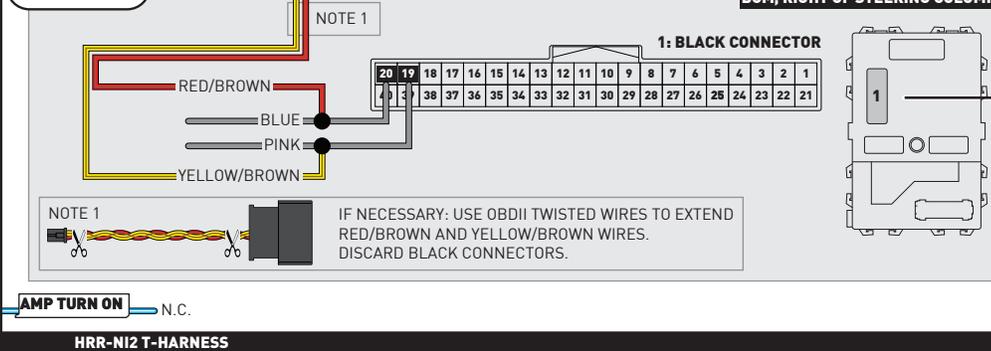
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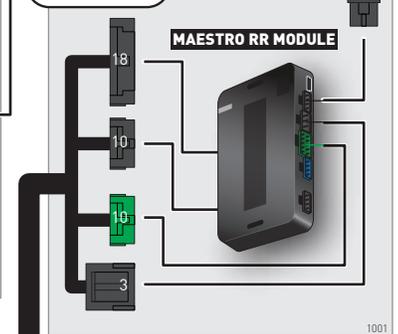
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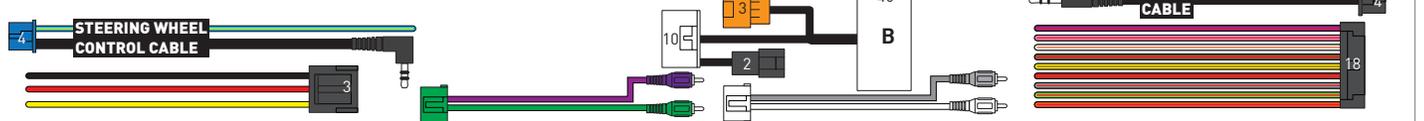
STEP 4



STEP 6



NOT REQUIRED



RADIO WIRE REFERENCE CHART

NI2 T-harness 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
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A
Power Antenna	(+)	Blue	Blue	Blue	Blue/White	Blue or Blue/White

Head unit adapter wiring (optional accessory, sold separately)

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

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

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

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

MODULE DIAGNOSTICS



LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
● or ●		RED or GREEN flashing	LED flashes 1 or more times, either red or green, when a steering wheel button is pressed : normal operation.
●		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do <u>NOT</u> use DEMO MODE.
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●		1 GREEN flash	After radio boots up : Normal operation.
	●	3 GREEN flashes	Bluetooth is activated. Turns off after one minute: Normal operation.
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VERIFY FLASH		Last flash information, steering control configuration, vehicle information.
WEBLINK		Software to program module.

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	<p>Ensure OBDII connector is securely attached to the OBDII connector of the vehicle.</p> <p>If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the RED/BROWN wire is on PIN 6 and the YELLOW/BROWN wire is connected to PIN 14 of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options.</p> <p>Reset the RR.</p>
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The light on the Maestro is blinking RED TWICE and the radio IS turning on.	<p>Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty.</p> <p>Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.</p>
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The steering wheel controls or accessory power are not working.	<p>Verify module has been programmed.</p> <p>Turn vehicle off, unplug all RR connections and hold the button while plugging all connectors back in. Release the button when the LED on module flashes rapidly RED. Ensure all connectors are fully seated and turn the vehicle back on.</p> <p>CAN connections may require wiring to another location so ensure the correct vehicle guide is being followed.</p> <p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p> <p>If LED is blinking RED TWICE, refer to the step above for troubleshooting.</p>

MAESTRO RR RESET PROCEDURE:

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2020-2021

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

STEP 2

- Plug in the 4-pin white connectors.
- Plug in the 4-pin green connectors.

STEP 3

- Plug in the 10-pin white connector from cable A to NI2 main harness.
- Connect both the 20-pin and 40-pin connectors of HRR-NI2 T-harness to the factory radio harness.
- Cut red/brown and yellow/brown wires on cable A near the 40-pin connector. Tape up the 40-pin side of the cut wires.

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- Extend the othe side of the red/brown and yellow/brown wires to BCM 40-pin black connector (refer to diagram).
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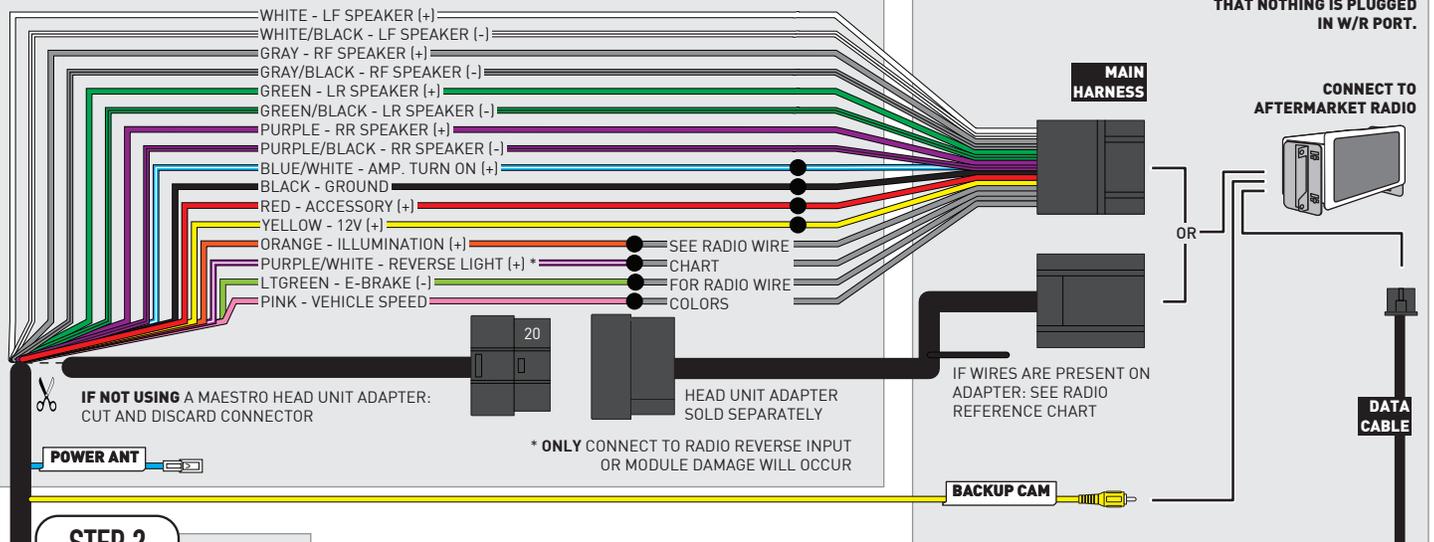
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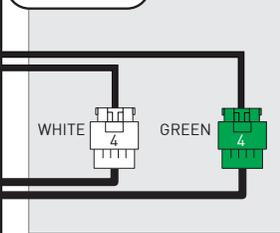
SEEK DOWN - change view

WIRING DIAGRAM

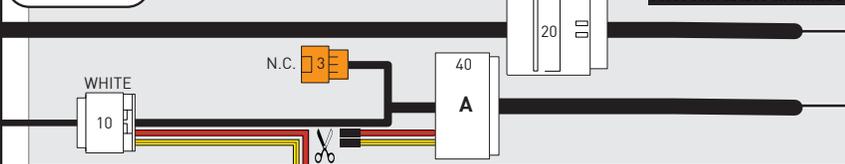
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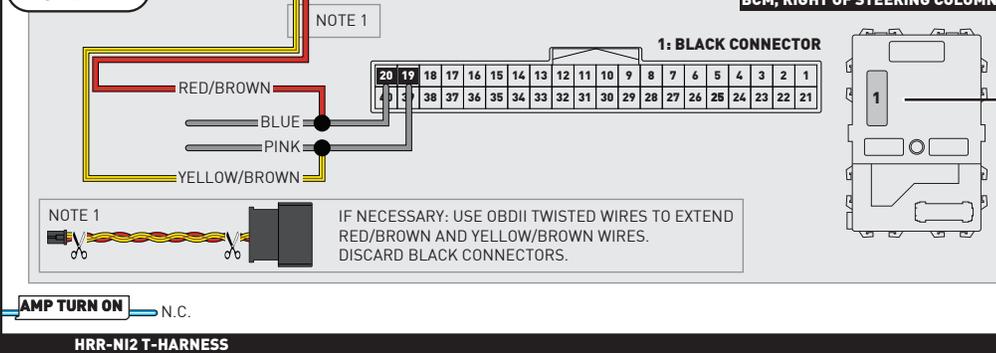
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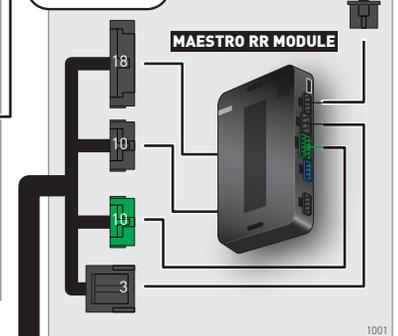
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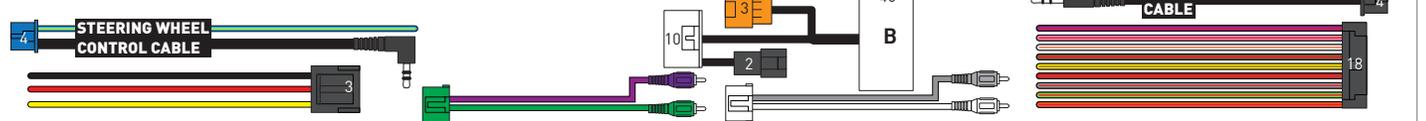
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STEP 6



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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.

2020-2021

NISSAN TITAN

9INCH MULTI-TOUCHSCREEN WITH NAV

RETAINS STEERING WHEEL CONTROLS, VEHICLE SETTINGS, AND MORE!



PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro HRR-NI2 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-NI01-DS

ADDITIONAL RESOURCES

[Maestro RR2 Programmable Outputs Guide](#)

OPTIONAL ACCESSORIES

K40[™]
ELECTRONICS
ESCORT

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

HEAD UNIT ADAPTER:
ACC-HU-PI01, SON1, KEN1, KEN2, ALP1

WELCOME

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

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

NEED HELP?

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Module Diagnostics	6
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INSTALLATION INSTRUCTIONS P1/1

STEP 1

Remove the factory radio

If using head unit adapter (sold separately), connect HRR-NI2 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-NI2 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-NI2 T-harness and match the wire functions.

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

STEP 2

- Determine if the vehicle has a factory amplifier. Look for badges on the radio, door panels and dash that indicate the presence of an amplifier (ex: BOSE).

If the vehicle DOES NOT have a factory amplifier:

- Plug in the 4-pin white connectors.
- Plug in the 4-pin green connectors.

If the vehicle DOES have a factory amplifier:

- Unplug the HRR-NI2 4-pin white and 4-pin green connectors.
- Connect the HRR-NI2 4-pin white to 4-pin white connector with RCAs. Connect the 4-pin green to 4-pin green connector with RCAs.
- Connect the RCAs to the radio outputs: white/left front, gray/right front, green/left rear, purple/right rear.

STEP 3

- Plug in the 10-pin white connector from cable A to NI2 main harness.
- Connect both the 20-pin and 40-pin connectors of HRR-NI2 T-harness to the factory radio harness.
- Cut red/brown and yellow/brown wires on cable A near the 40-pin connector. Tape up the 40-pin side of the cut wires.

STEP 4

- Extend the othe side of the red/brown and yellow/brown wires to BCM 40-pin black connector (refer to diagram).
- Connect red/brown wire to blue wire, pin 20.
- Connect yellow/brown wire to pink wire, pin 19.

STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup cam cable into the aftermarket radio (if equipped).
- Plug the Data cable to the data port of the aftermarket radio.

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

STEP 6

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

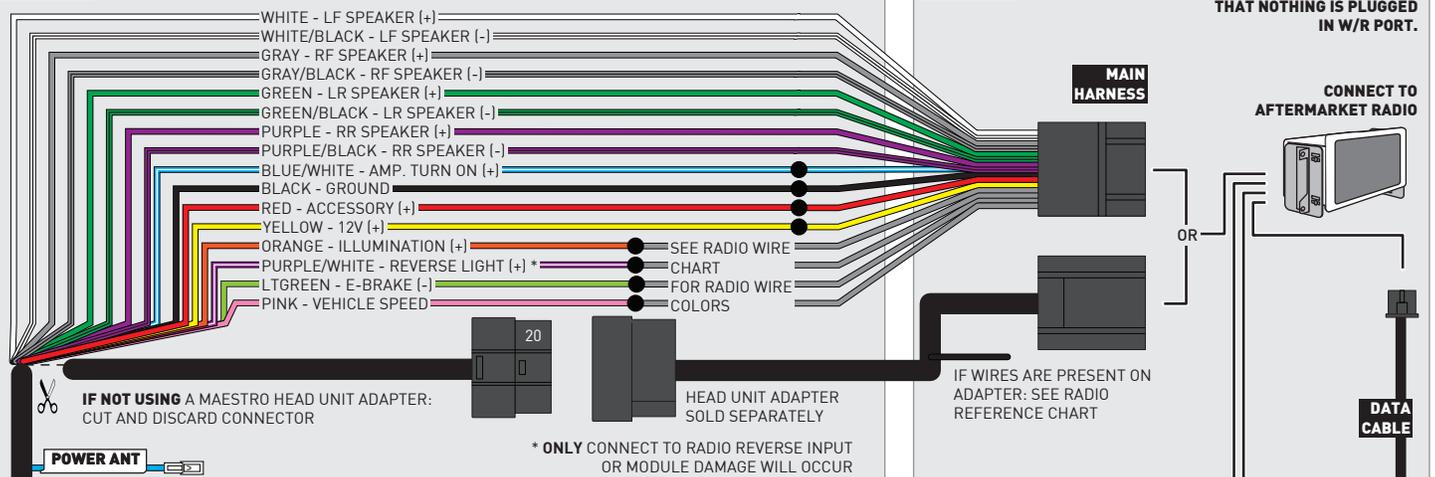
360 CAMERA CONTROLS (with vehicle in reverse)

SEEK UP - change view

SEEK DOWN - change view

WIRING DIAGRAM

STEP 1

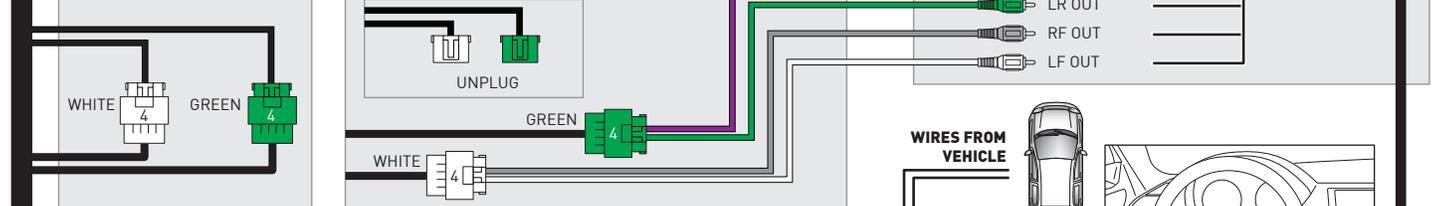


STEP 2

WITHOUT OEM AMPLIFIER

STEP 2

WITH OEM AMPLIFIER



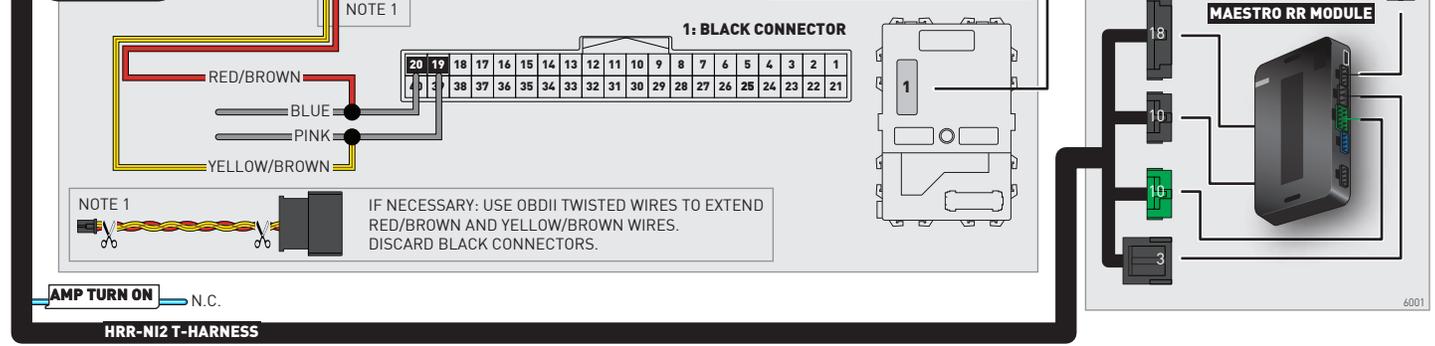
STEP 3

FACTORY RADIO HARNESS



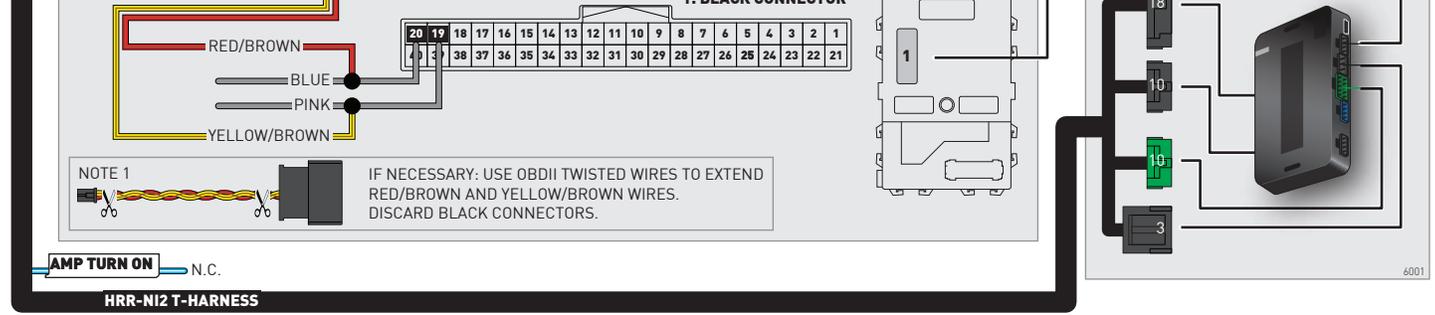
STEP 4

BCM, RIGHT OF STEERING COLUMN

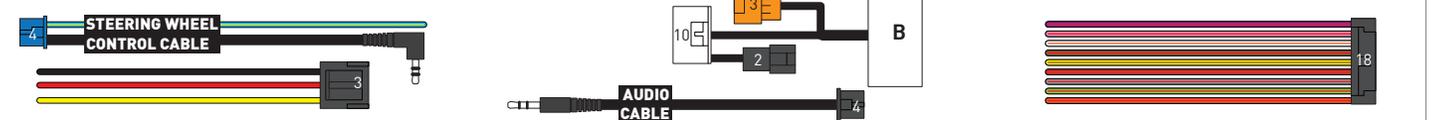


STEP 6

MAESTRO RR MODULE



NOT REQUIRED



RADIO WIRE REFERENCE CHART

NI2 T-harness 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
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A
Power Antenna	(+)	Blue	Blue	Blue	Blue/White	Blue or Blue/White

Head unit adapter wiring (optional accessory, sold separately)

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

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

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

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

MODULE DIAGNOSTICS



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

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

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	<p>Ensure OBDII connector is securely attached to the OBDII connector of the vehicle.</p> <p>If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the RED/BROWN wire is on PIN 6 and the YELLOW/BROWN wire is connected to PIN 14 of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options.</p> <p>Reset the RR.</p>
Backup camera is not displayed.	<p>If radio doesn't switch to camera input, ensure purple/white from the NI2 harness is connected ONLY to radio reverse input wire. Do not power a camera off it.</p> <p>If radio switches to blank image, verify yellow "BACK UP CAMERA" RCA is connected to the correct input. Most radios have a yellow "R CAM" or "CAM" input. Pioneer models may use a brown "BC IN" input.</p>
The light on the Maestro is blinking RED TWICE and the radio IS turning on.	<p>Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty.</p> <p>Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.</p>
The light on the Maestro is blinking RED TWICE but the radio is NOT turning on.	<p>If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well.</p> <p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p>
The steering wheel controls or accessory power are not working.	<p>Verify module has been programmed.</p> <p>Turn vehicle off, unplug all RR connections and hold the button while plugging all connectors back in. Release the button when the LED on module flashes rapidly RED. Ensure all connectors are fully seated and turn the vehicle back on.</p> <p>CAN connections may require wiring to another location so ensure the correct vehicle guide is being followed.</p> <p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p> <p>If LED is blinking RED TWICE, refer to the step above for troubleshooting.</p>

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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2020-2021

NISSAN VERSA

7INCH TOUCHSCREEN WITH CARPLAY OR ANDROID AUTO

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INSTALLATION INSTRUCTIONS P1/1

STEP 1

Remove the factory radio

If using head unit adapter (sold separately), connect HRR-NI2 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-NI2 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-NI2 T-harness and match the wire functions.

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

STEP 2

- Plug in the 4-pin white connectors.
- Plug in the 4-pin green connectors.

STEP 3

- Plug in the 10-pin white connector from cable A to NI2 main harness.
- Connect both the 20-pin and 40-pin connectors of HRR-NI2 T-harness to the factory radio harness.
- Cut red/brown and yellow/brown wires on cable A near the 40-pin connector. Tape up the 40-pin side of the cut wires.

STEP 4

- Extend the othe side of the red/brown and yellow/brown wires to BCM 40-pin connector (refer to diagram).
- Connect red/brown wire to blue wire, pin 4.
- Connect yellow/brown wire to pink wire, pin 3.

STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup cam cable into the aftermarket radio (if equipped).
- Plug the Data cable to the data port of the aftermarket radio.

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

STEP 6

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

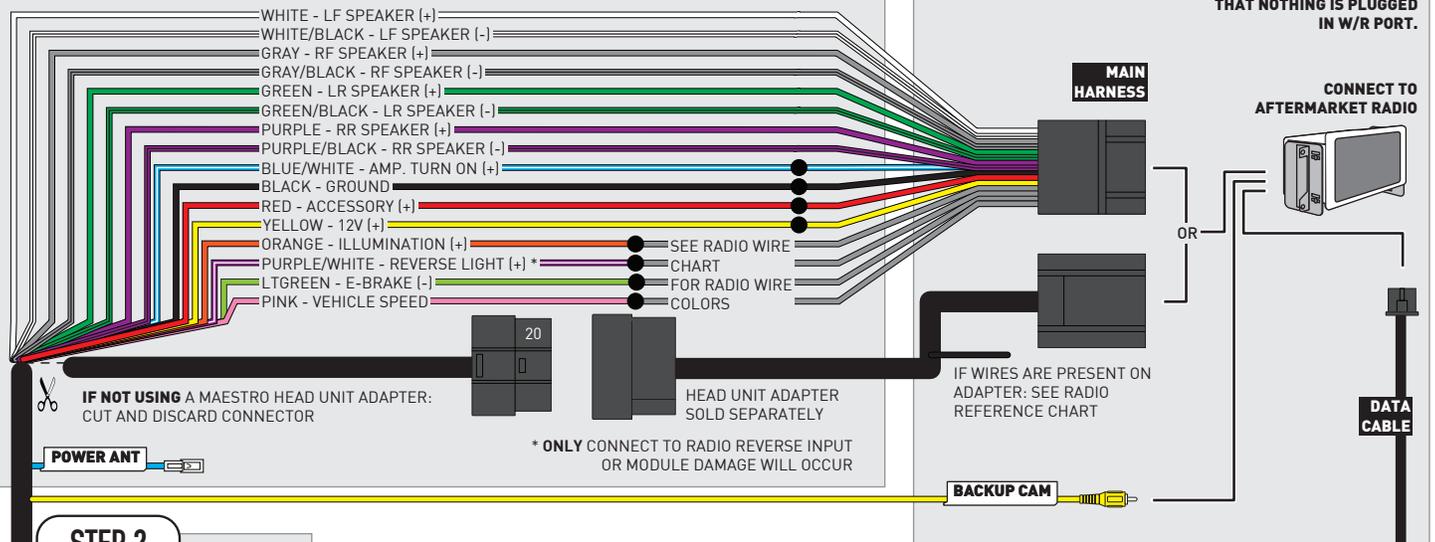
360 CAMERA CONTROLS (with vehicle in reverse)

SEEK UP - change view

SEEK DOWN - change view

WIRING DIAGRAM

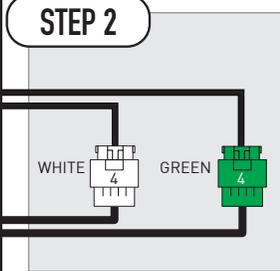
STEP 1



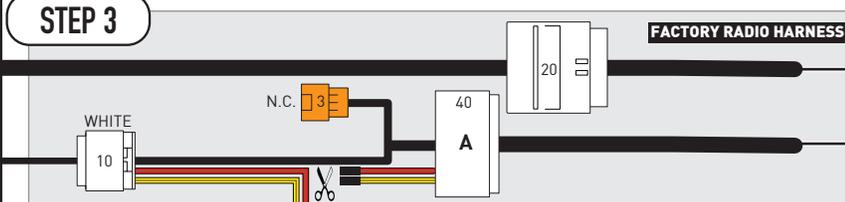
STEP 5

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

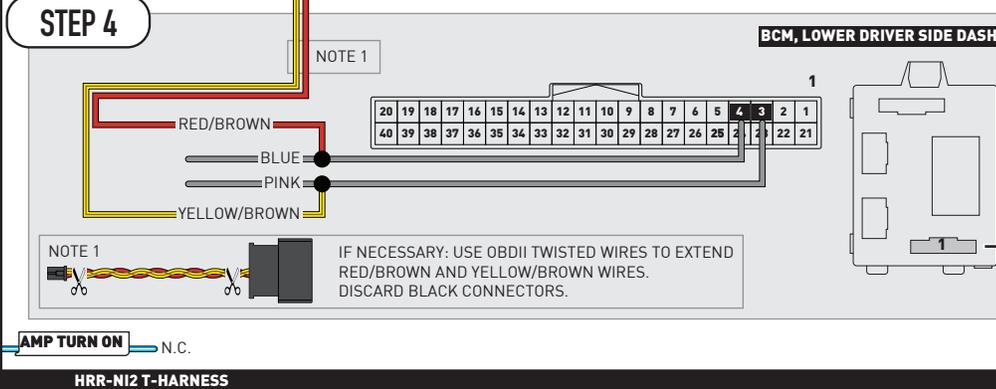
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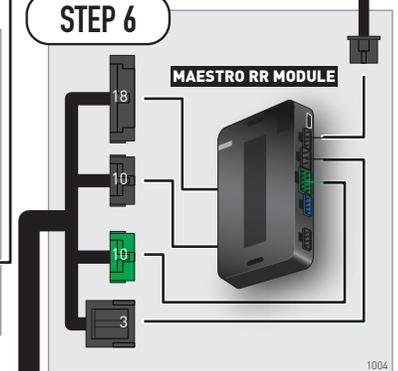
STEP 3



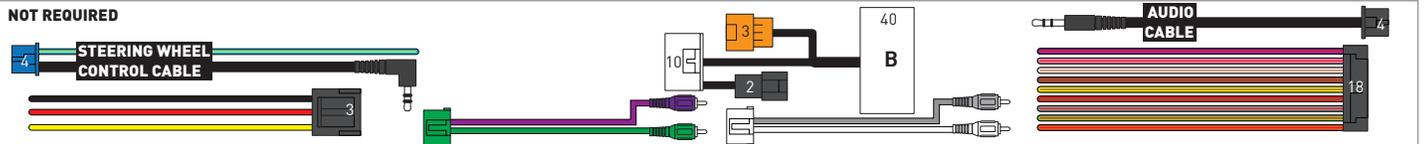
STEP 4



STEP 6



NOT REQUIRED



RADIO WIRE REFERENCE CHART

NI2 T-harness 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
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A
Power Antenna	(+)	Blue	Blue	Blue	Blue/White	Blue or Blue/White

Head unit adapter wiring (optional accessory, sold separately)

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

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

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

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MODULE DIAGNOSTICS



LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
● or ●		RED or GREEN flashing	LED flashes 1 or more times, either red or green, when a steering wheel button is pressed : normal operation.
●		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do <u>NOT</u> use DEMO MODE.
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PROBLEM	SOLUTION
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The steering wheel controls or accessory power are not working.	<p>Verify module has been programmed.</p> <p>Turn vehicle off, unplug all RR connections and hold the button while plugging all connectors back in. Release the button when the LED on module flashes rapidly RED. Ensure all connectors are fully seated and turn the vehicle back on.</p> <p>CAN connections may require wiring to another location so ensure the correct vehicle guide is being followed.</p> <p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p> <p>If LED is blinking RED TWICE, refer to the step above for troubleshooting.</p>

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

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

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

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Remove the factory radio

If using head unit adapter (sold separately), connect HRR-NI2 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-NI2 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-NI2 T-harness and match the wire functions.

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

STEP 2

- Plug in the 4-pin white connectors.
- Plug in the 4-pin green connectors.

STEP 3

- Plug in the 10-pin white connector from cable B to NI2 main harness.
- Connect both the 20-pin and 40-pin connectors of HRR-NI2 T-harness to the factory radio harness.
- Cut red/brown and yellow/brown wires on cable B near the 2-pin connector. Discard the 2-pin connector.

STEP 4

- Extend the othe side of the red/brown and yellow/brown wires to BCM 40-pin connector (refer to diagram).
- Connect red/brown wire to blue wire, pin 4.
- Connect yellow/brown wire to pink wire, pin 3.

STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup cam cable into the aftermarket radio (if equipped).
- Plug the Data cable to the data port of the aftermarket radio.

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

STEP 6

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

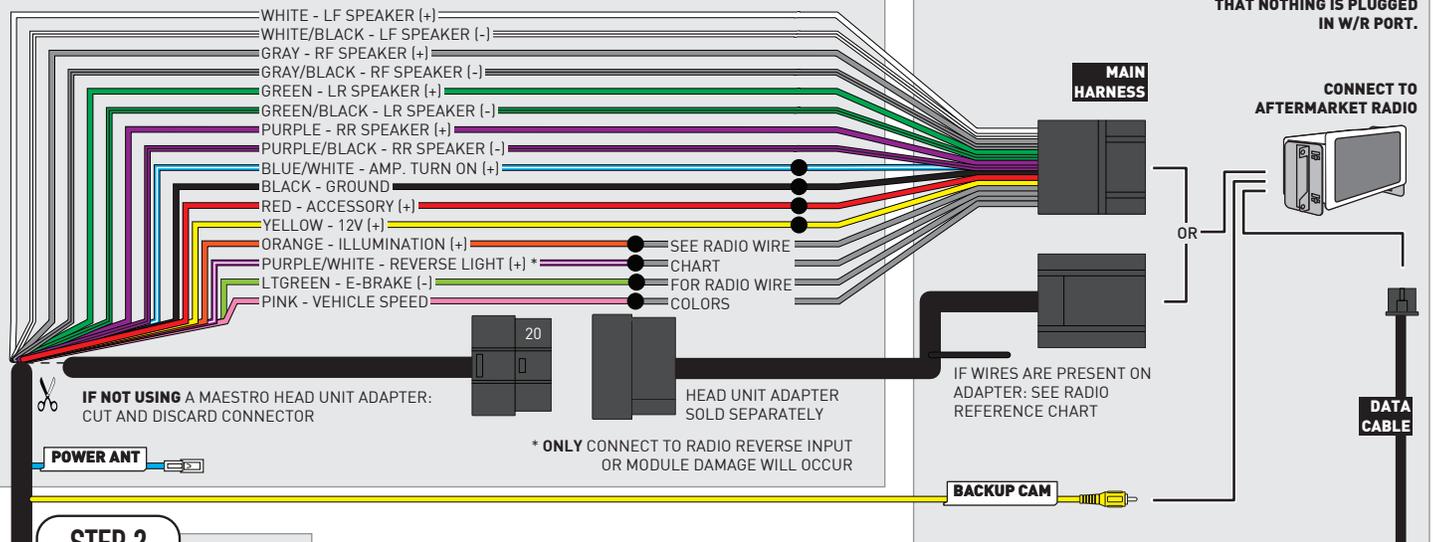
360 CAMERA CONTROLS (with vehicle in reverse)

SEEK UP - change view

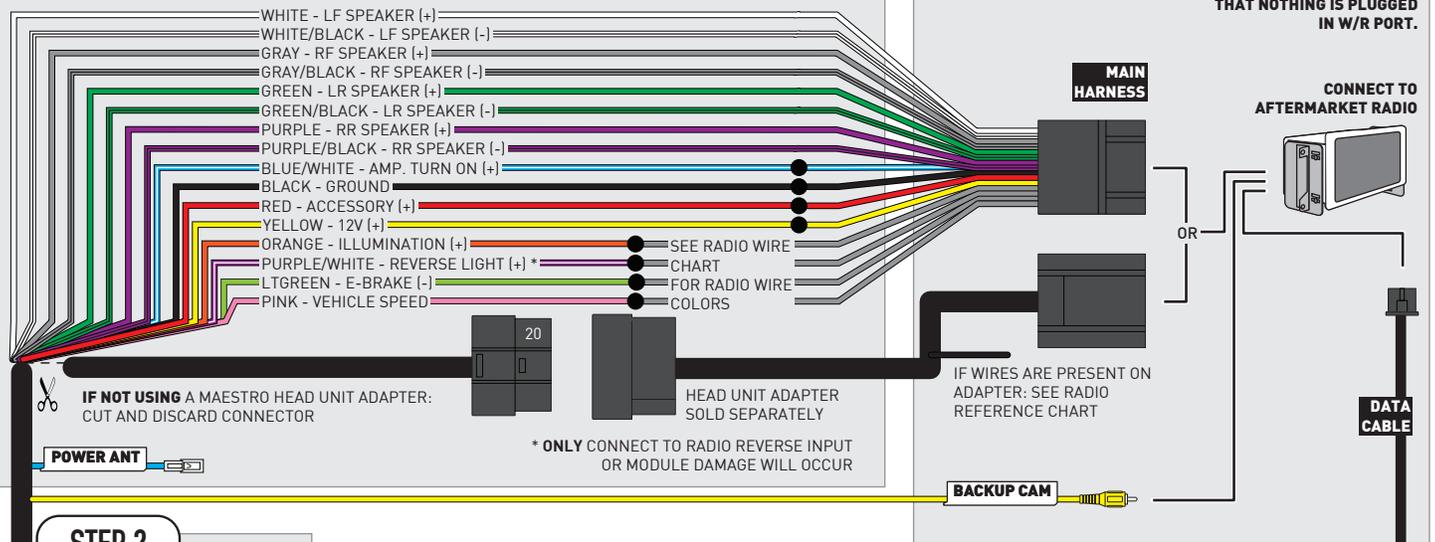
SEEK DOWN - change view

WIRING DIAGRAM

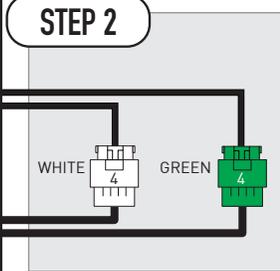
STEP 1



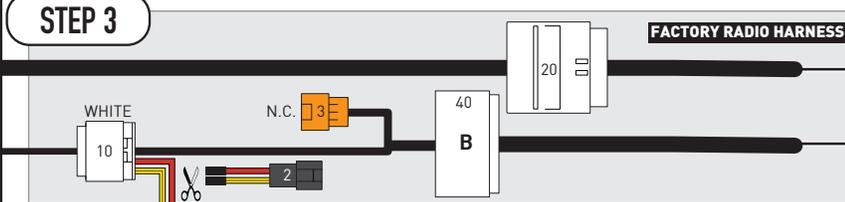
STEP 5



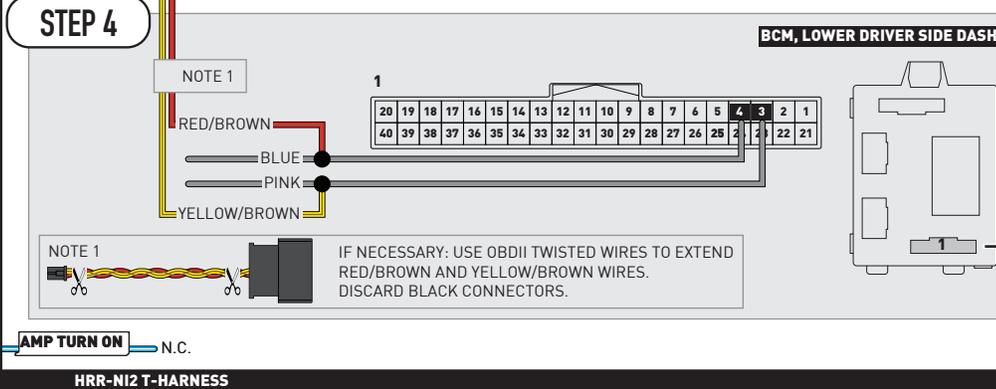
STEP 2



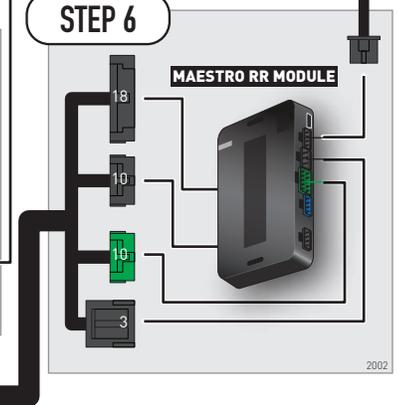
STEP 3



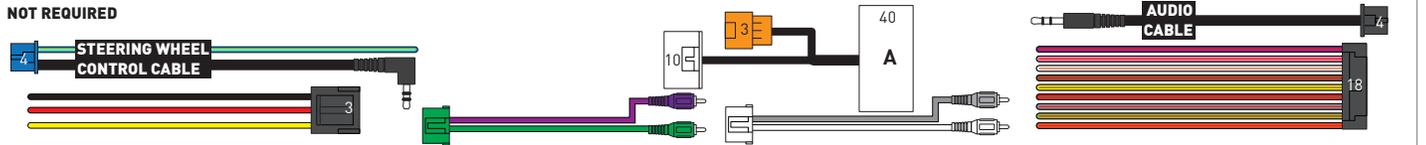
STEP 4



STEP 6



NOT REQUIRED



RADIO WIRE REFERENCE CHART

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Illumination	(+)	Orange	N/A	Orange/White	Orange/White	Orange
Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A
Power Antenna	(+)	Blue	Blue	Blue	Blue/White	Blue or Blue/White

Head unit adapter wiring (optional accessory, sold separately)

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

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

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

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

MODULE DIAGNOSTICS



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

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

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	<p>Ensure OBDII connector is securely attached to the OBDII connector of the vehicle.</p> <p>If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the RED/BROWN wire is on PIN 6 and the YELLOW/BROWN wire is connected to PIN 14 of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options.</p> <p>Reset the RR.</p>
Backup camera is not displayed.	<p>If radio doesn't switch to camera input, ensure purple/white from the NI2 harness is connected ONLY to radio reverse input wire. Do not power a camera off it.</p> <p>If radio switches to blank image, verify yellow "BACK UP CAMERA" RCA is connected to the correct input. Most radios have a yellow "R CAM" or "CAM" input. Pioneer models may use a brown "BC IN" input.</p>
The light on the Maestro is blinking RED TWICE and the radio IS turning on.	<p>Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty.</p> <p>Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.</p>
The light on the Maestro is blinking RED TWICE but the radio is NOT turning on.	<p>If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well.</p> <p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p>
The steering wheel controls or accessory power are not working.	<p>Verify module has been programmed.</p> <p>Turn vehicle off, unplug all RR connections and hold the button while plugging all connectors back in. Release the button when the LED on module flashes rapidly RED. Ensure all connectors are fully seated and turn the vehicle back on.</p> <p>CAN connections may require wiring to another location so ensure the correct vehicle guide is being followed.</p> <p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p> <p>If LED is blinking RED TWICE, refer to the step above for troubleshooting.</p>

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.