



HOW TO USE THIS INSTALL GUIDE

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

WARNING

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



INSTALL GUIDE

2019-2022 FORD RANGER WITH MYFORD 4.3 INCH SCREEN WITHOUT AMP

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!



PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface iDatalink Maestro HRR-F02 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-FOR02C-DS

ADDITIONAL RESOURCES

Maestro RR2 Programmable Outputs Guide

OPTIONAL ACCESSORIES



Click here for: Radar Installation Guides

HRN-ANT-SAT1, HRN-ANT-SAT2 ACC-VID1

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

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



WELCOME

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

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

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

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NEED HELP?



1 866 427-2999



maestro.support@idatalink.com



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INSTALLATION INSTRUCTIONS P1/1

STEP 1

Remove the factory radio

If using head unit adapter (sold separately), connect HRR-F02 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-F02 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-F02 T-harness and match the wire functions.

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

STEP 2

- Locate vehicle's SYNC module harness in the center dash. Connect the 54-pin adapter harness to the vehicle.
- Connect the backup camera RCA to the 2-pin yellow connector.

STEP 3

• Connect the factory radio harness to the HRR-F02 T-harness.

STEP 4

- Connect the screen harness to the HRR-F02 12-pin connector (B).
- Connect the yellow 2-pin connector to the HRR-F02 backup camera cable.
- Connect the white 2-pin connector to the white 2-pin connector of HRR-F02 main harness.

STEP 5

- Connect HRR-F02 2-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 6

- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio camera/BC video input.

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

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

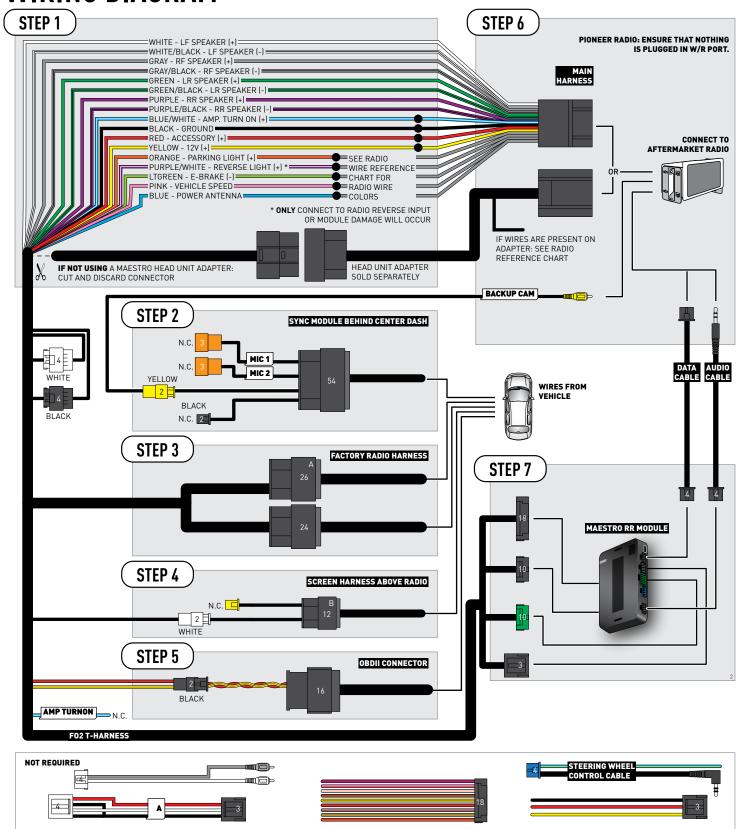
STEP 7

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

2



WIRING DIAGRAM





RADIO WIRE REFERENCE CHART

| F02 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.

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MODULE DIAGNOSTICS





PROGRAMMING BUTTON

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

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



TROUBLESHOOTING TABLE

| PROBLEM | SOLUTION |
|--|--|
| Gauges do not work, radio shows OBD2 Error 1 or Error 2. | Ensure OBDII connector is securely attached to the OBD2 connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the RED/BROWN wire is on PIN 6 and the YELLOW/BROWN wire is connected to PIN 14 of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended. If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options. Reset the RR. |
| There is no sound from OEM sources like Sync. | Ensure the all black, 3-pin to 3.5mm audio cable is connected between the RR and the radio. It connects to the radio's Idatalink I/F port, or AUX input if no I/F port is present. |
| There is no image from the backup camera and/or the steering wheel controls do not work. | 4.3" MyFord vehicles – ensure the 12-pin connector from the 4.3" factory screen is connected to the 12-pin plug of the T harness. HRR-F02, verify both the white and yellow connectors from the 12-pin harness are connected to the main harness of the HRR-F02. 6.5" MyFord Touch vehicles – ensure the camera and steering wheel connections are made at the Sync plug as shown on the diagram. |
| The light on the Maestro is flashing RED ONCE . | There is no firmware on the module. Flash the RR module using Weblink Desktop and log in. Do NOT use DEMO MODE. |
| The light on the Maestro is blinking RED TWICE and the radio IS turning on. | Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty. Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number. |
| The light on the Maestro is blinking RED TWICE but radio is NOT turning on. | If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well. Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow. |

MAESTRO RR RESET PROCEDURE:

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

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

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

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

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

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



INSTALL GUIDE

2014-2018 FORD TRANSIT CONNECT WITH MYFORD TOUCH 6.5 INCH SCREEN

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!



PRODUCTS REQUIRED

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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-FO2 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-FO2 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-FO2 T-harness and match the wire functions.

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

STEP 2

• Connect the factory radio harness to the HRR-F02 T-harness.

STEP 3

To retain the backup camera and steering wheel controls:

- Connect the Sync module connector, located in center dash, to the HRR-F02 54-pin adapter.
- Connect the yellow 2-pin connector to the HRR-FO2 backup camera cable.
- Connect the black 2-pin connector to the black 2-pin connector of HRR-F02 main harness.
- Connect the white 2-pin connector from FO2 (B) cable to white 2-pin connector of HRR-F02 main harness. Cut and discard black 12-pin connector. Connect black/white wire to blue/white wire (Sync connector / pin 47), Connect purple/ red wire to gray/yellow wire (Sync connector / pin 46),

STEP 4

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

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

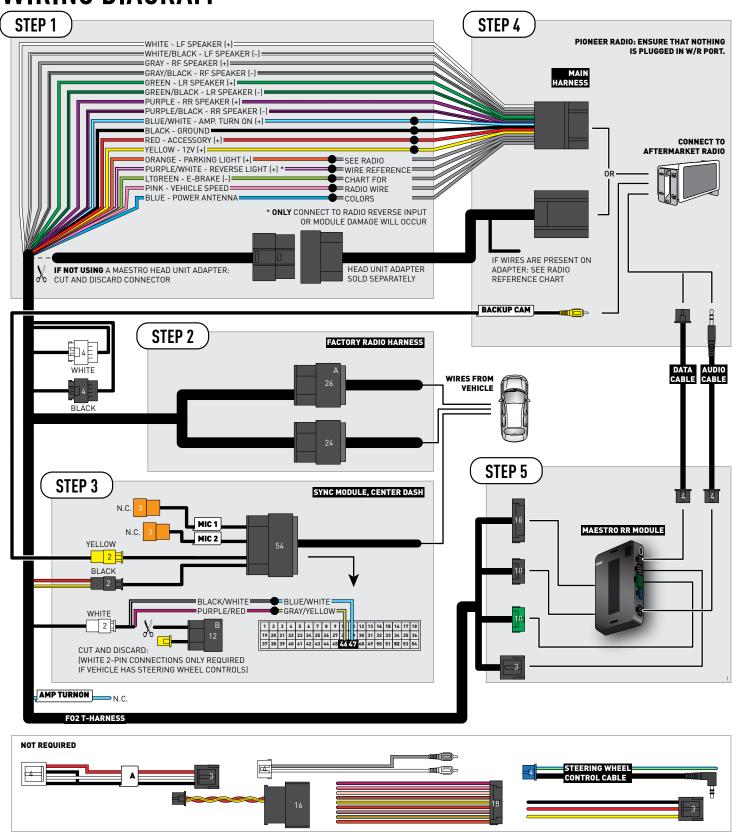
STEP 5

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

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WIRING DIAGRAM





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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 |
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MODULE DIAGNOSTICS



LED 2

Real II LED 1

— PROGRAMMING BUTTON

2

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