

Factory Radio



New Radio and radio installation kit



Other Documents Available For This Vehicle:

No additional documnets available at this time

Adobe Acrobat Reader Printing Tips:

1) Select "FILE" then "PRINT" and select your printer.

- 2) In the print options box do the following:
 - A) Locate check box "Shrink to Fit". Place check in box.
 - B) Locate box "Print Quality". Select highest print dpi allowed by printer.
 - C) If print quality listed is not as high as that printers normal quality, press the "SETUP.." button. In the next screen, press the "PROPERTIES" button and set the printers print quality to the highest print dpi allowed.

Document Revision History

09/99 Document Creation 01/2000 Wiring Update

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Overview Of This Radio Install

What Section To Go To
Remove & Install
Wire New Radio
Mount New Radio
Remove & Install

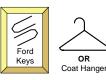
Parts Needed For This Radio Install

Parts REQUIRED for the install	Description
Snap on in dash wire harness	** Please read instructions first
Radio dash installation kit	1999 Ford F150/Expedition kit

Optional parts for this install

None

Tools Needed To Complete This Install



Hand tools needed to remove radio

Solder/ Crimper

Accessory tools needed to test and wire the new radio

PLUS: Wire ties or electrical tape: to neatly bundle and organize your wires for a professional appearance.

Installation Difficulty Ratings

Small

Battery

Easy. No advanced skills or specialty tools needed. **Basics**. Simple tools required. Installs quickly.

Intermediate. Requires knowledge of tools, or disassembly of panels.

Advanced. Requires advanced tools, or extra time.

Difficult. Involves modifying or cutting of the installation area. Advanced tools and/or skills required. Best if performed by experienced installers.

TOOL TIPS:

Small Battery: use a battery to test speaker wires. Touching the (+) positive and (-) negative baterry leads to a pair of speaker will cause the speaker to make a "Pop" sound indicating that pair of wires goes to that speaker. **Voltage Meter**: <u>Always</u> check +12 Volt power wires for voltage before making wire connections. These wires will fluctuate between 10 and 14 Volts. **Solder Iron or Crimp Tool**: make wire to wire connections using either a solder iron and electrical tape, OR plastic crimp terminals found at most hardware or auto parts stores.

Do It Yourselfers

Basics

Professional Installer

Basics

Support Information If You Need Help

Supplemental information if you need help

Document Title	Document #
Basic DC electronics for automotive applications	999001
Wire splicing: soldering vs. crimping	999004
Why use radio installation kits	999005
Mounting your radio to an installation kit	999007
Why use an optional snap on wire harness	999008
Wiring your new radio using a wire harness	999009
Testing wires when installing a new radio	999013

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Remove Factory Radio





STEP 1:

The plastic dash panel surrounding the radio must be removed. This dash panel simply unsnaps by pulling. With your hands, grab one corner and pull until the plastic dash panel completely pulls away from the main body of the dash. The Ford radio is snapped into the vehicles dash. With the proper tool, known as Ford radio removal keys, the Ford radio can be pulled forward out of the dash. A clothes hanger can be used instead of actual Ford radio removal keys. Cut the clothes hanger and bend 2 pieces in a 'U' shape. For more information on how to remove the radio, see the diagram below.

STEP 2:

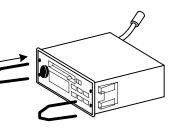
Pull the radio from the dash. Unplug the antenna cable from the rear of the radio. Unplug the plastic wire harness connector from the

rear of the radio.

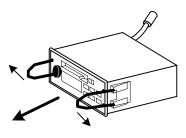
(Some Expeditions/Navigators may have a Ford amplifier in the vehicle. This is the step you will be able to tell)

Removing Ford Radios Using "U" Shaped Removal Keys

Insert the "U" shaped keys into the holes as shown in the diagram. Coat hangers can be cut and bent into shape for a quick, cheap replacement or alternative when Ford keys are not available.



In order for the radio to be removed, clips attached to the side of the radio must be moved inward so the radio can slide out of the dash. Insert the keys and push each key out, away from the radio. The ends of the keys will press into the clips. While pushing the keys outward, pull and the radio should slide forward out of the dash.



Mounting The Radio

Move to: Mounting New Radio Section



This is one style of radio installation kit specifically designed for 1999 and newer body style Ford F150's, Expeditions, and Navigators.

Wiring The New Radio

Move to: Wire New Radio Section

Ford Expeditions

Your Ford may have the Ford Premium Sound System installed in it from the factory. This means the speakers in the vehicle are actually powered by a Ford amplifier instead of the amplifier inside the radio (the amp is located away from the radios dash location). The "Wire New Radio" section will detail wiring for both standard Ford radios and the wiring for Premium Sound System radios. The only way to tell the difference between a standard Ford radio and the Ford Premium Sound System is to pull the radio and look at the wire harness connectors plugged into the rear of the Ford factory radio. You will be able to see the 2 different sets of wire harnesses in the "Wire New Radio" section.

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F150 - Ford Expedition - Ford Navigator - Lincoln

1999



Remove

& Install

Radio Replacement Document #: 356017

Click on a link tab to jump to that page

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THE

Cover

Page

Before

You Begin

Completing The Radio Installation



NOTE:

Once the radio is removed, you will notice the rectangular opening in the dash where the original radio was mounted. You will need to adapt this opening over to accept a new replacement radio. Depending upon your radio installation kits design the kit should snap into this rectangular opening



STEP 1:

Mount the kit to the opening in the dash.



Wire

New Radio

Mount

New Radio

STEP 2:

Once the radio installation kit is securely mounted to the opening in the dash, mount and secure the radio to the installation kit.

Plug in the antenna cable into the rear of the new radio. Make sure all wiring for the new radio has been completed and connect any connectors to the new radio now.



STEP 3:

Reattach the plastic dash panel that surrounds the radio.

The Installation Is Now Complete

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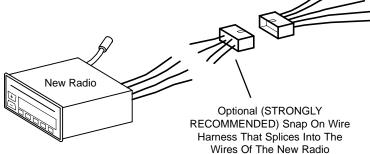


Wire Harness Inside Vehicles Dash Which Plugs Into The Rear Of The Factory Radio

(Note: the radio shown is for display purposes and may not be similar in size or dimensions than the auto makers factory radio in your vehicle)

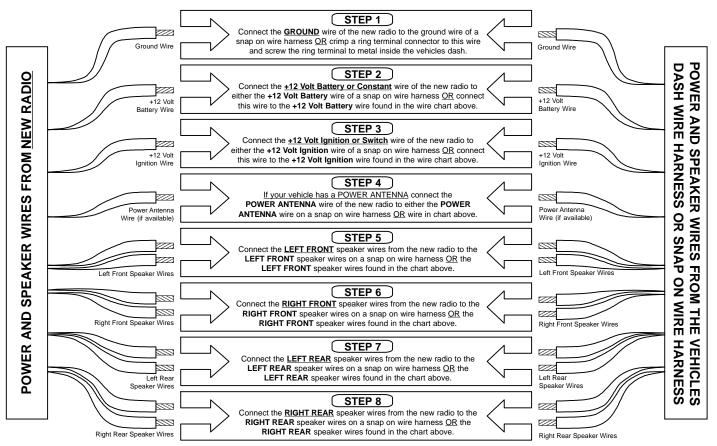
Supplemental information if you need help

Document Title	Document #
Testing wires when installing a new radio	999013
Why use an OEM snap on wire harness	999008
Wiring your new radio using a wire harness	999009
Wire splicing: soldering vs. crimping	999004



Wiring Instructions:

The power and speaker wires needed to connect the new radio are attached to the connector of the wire harness located inside the vehicles dash. The Install Doctor **STRONGLY** recommends using an optional snap on wire harness that is specifically designed to snap into the vehicles dash wire harness connector. This will keep you from cutting the vehicles wires. This optional snap on wire harness will have wires on the opposite side of the connector that will allow you to splice these wires to the new radios wires. The only other option is to cut off the vehicles dash wire harness connector and splice the new radios wires directly to these wires. The optional snap on wire harness takes all the guess work out of trying to figure out what each wire is in the vehicles dash wire harness. The optional snap on wire is.



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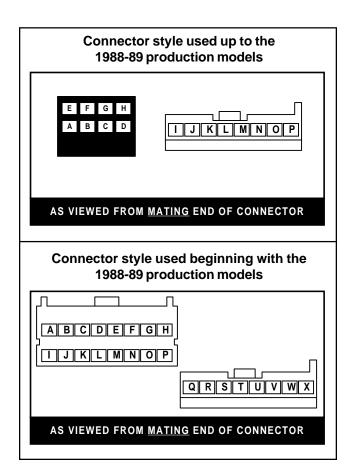


Radio Wire & Color Code Information

If Your Vehicle Has A Ford Premium Sound System Radio (Expeditions/Navigators)

Page 2 of 3

This vehicle uses has a 2 pc wire harness. The black connector is the input to the vehicles separate amplifer. The second plug contains all necessary power wires.



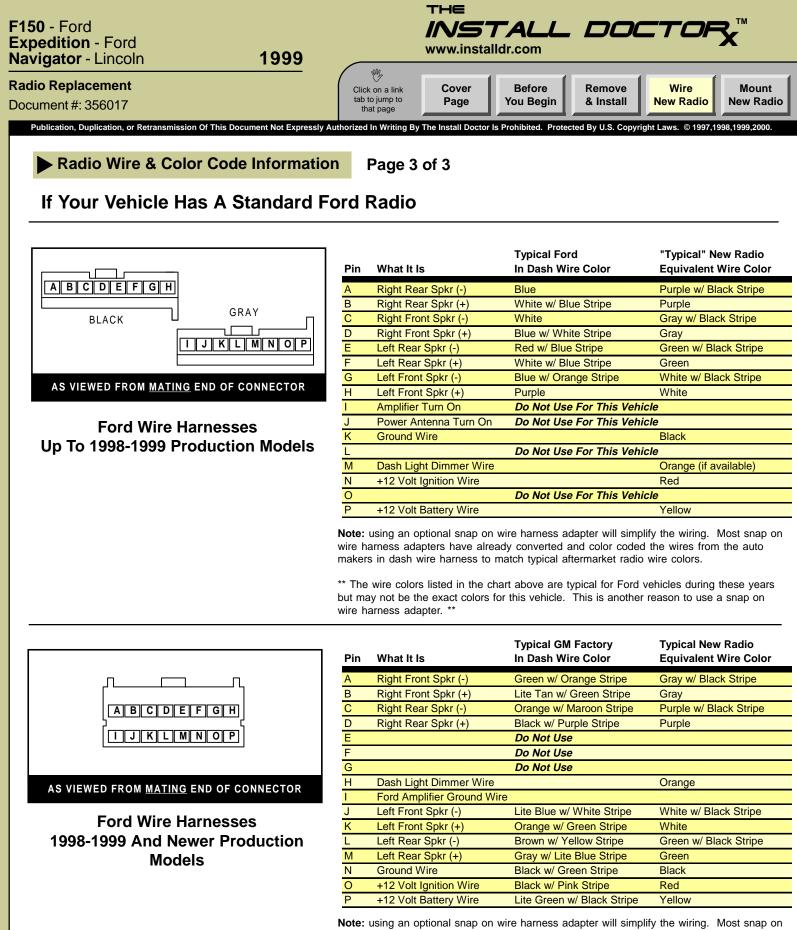
The Install Doctor STRONGLY recommends using a snap on "integration" wire harness adapter which will safely and easily allow you to connect a new radio to the existing wires of the Ford radio system.

The "integration" wire harness will have all necessary wires correctly labeled. This allows you to follow the instructions on the previous page. The Ford radio in your vehicle uses a separate Ford amplifer that powers the speakers instead of the Ford radio powering the speakers. This creates problems when installing a new replacement radio into the vehicle. At the radio, the wire harness inside the dash would normally have all necessary speaker and power wires to install the new radio. However, the speaker wires needed to install the new radio are plugged into the Ford Premium Sound System amplifer which is located away from the radio.

There are (2) options when installing a new radio you need to consider before installing your new radio, one of which is not recommended and requires extensive rewiring of every speaker in the vehicle.

Option 1: you can choose to "integrate" into the Ford amplifier. This is the simplest and easiest installation and for the majority of new replacement radios this is the BEST option. A Ford Integration Wire Harness is needed. This wire harness is very similar to a standard Ford radio snap on wire harness used to install radios in Ford vehicles with standard radios but the harness will have a small box attached to it which will allow you to splice the new radios speaker wires directly to the wires of the integration harness. Inside this box is electronics which will convert the new radios speaker wire outputs into the necessary low voltage signal to run the Ford amplifier. This means that the speakers in the vehicle are being powered by the Ford amplifier, not the amplifier inside the new radio. The information on this sheet is structured to use OPTION 1 to integrate into the original Ford amplifier. This has become the most accepted method of installing a new replacement radio in this type of Ford vehicle with the Premium Sound System.

Option 2: you can also choose to "bypass" the Ford amplifer in the vehicle and choose to power the speakers in the vehicle with the amplifier inside the new radio instead of the Ford amplifier. This is a 2 step process. You still have to wire the new radio at the dash, and you have to find the amplifier in the vehicle and add a jumper cable (included with the bypass wire harness) to the amplifier; unplugging the inputs and outputs of the amplifier and connecting them together with the jumper from the bypass wire harness. This method is only used for radios with more than 40 watts per channel output.



Note: using an optional snap on wire harness adapter will simplify the wiring. Most snap on wire harness adapters have already converted and color coded the wires from the auto makers in dash wire harness to match typical aftermarket radio wire colors.

** The wire colors listed in the chart above are typical for Ford vehicles during these years but may not be the exact colors for this vehicle. This is another reason to use a snap on wire harness adapter. **

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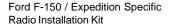


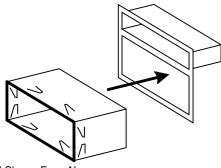
NOTE:

This vehicle requires a special kit designed specifically for Ford F-150's, Expeditions, and Navigators.

All information needed to complete the mounting of the new radio to the vehicles dash is included on this sheet. If you need additional help, please consult the following tech documents:

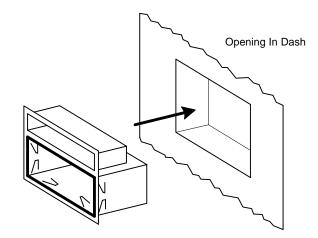
Document Title	Document #
Why use radio installation kits	999005
Mounting your radio to an installation k	kit 999007
Radio security	999010
'DIN' vs. Shafted radio - differences wi	th 999006





'DIN' Sleeve From New Replacement Radio

Slide The 'DIN' Sleeve From The New Radio Into The Kit And Bend Tabs On The Sleeve Behind The Rear Of The Kit To Secure The Sleeve To The Kit.



Push The Kit Into The Dash Opening Until It Snaps Into Place, Securing The Kit To The Dash.

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