

Radio Replacement

Document #: 356045

Click on a link
tab to jump to
that page

Cover
Page

Before
You Begin

Remove
& Install

Wire
New Radio

Mount
New Radio

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Factory Radio



Other Documents Available For This Vehicle:

No additional documents available at this time

New Radio



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

12/99 Document Creation

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Click on a link
tab to jump to
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Cover
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Overview Of This Radio Install

Step	What Section To Go To
Remove old radio from dash	Remove & Install
Wire the new radio	Wire New Radio
Mount the new radio	Mount New Radio
Finishing the installation	Remove & Install

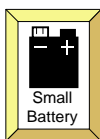
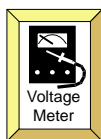
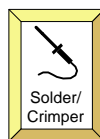
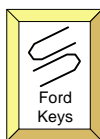
Parts Needed For This Radio Install

Parts REQUIRED for the install	Description
Snap on wire harness adapter	** Please read instructions first

Optional parts for this install

None

Tools Needed To Complete This Install



TOOL TIPS:

Small Battery: use a battery to test speaker wires. Touching the (+) positive and (-) negative battery 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: Always 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.

Hand tools needed
to remove radio

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

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.

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

► Remove Factory Radio



STEP 1:

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.



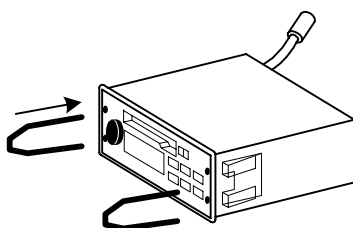
STEP 2:

Pull the radio from the dash. Unplug the antenna cable from the rear of the radio. Unplug the 2 wire harness connectors from the rear of the radio.

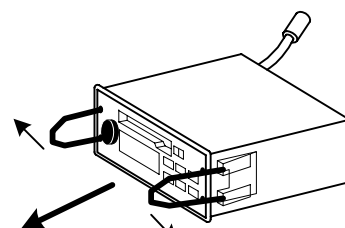
(This vehicle may have a Ford amplifier in the vehicle. This is the step you will be able to tell.)

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.



► Wiring The New Radio

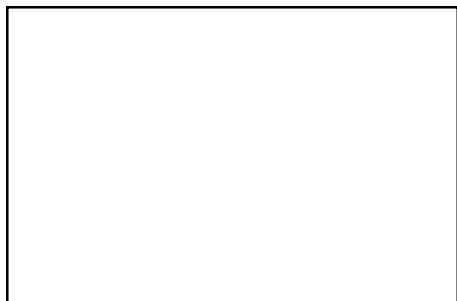
Move to: [Wire New Radio](#) Section

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 hidden 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 the standard Ford radio and the wiring for Premium Sound System radio. 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.

► Mounting The Radio

Move to: [Mounting New Radio](#) Section

▶ Completing The Radio Installation



STEP 1:

Slide the new radios installation sleeve into the opening in the dash. Secure the sleeve.

More information can be found in the "**Mount New Radio**" section.



STEP 2:

Plug the antenna cable into the new radio. Make sure all power and speaker wires for the new radio have been properly connected and plug in any connectors to the rear of the new radio. Slide the new radio into the installation sleeve.



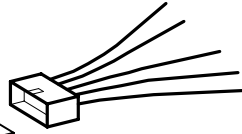
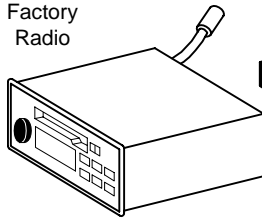
The Installation Is Now Complete

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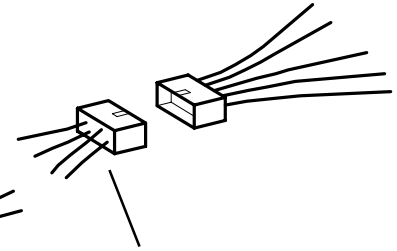
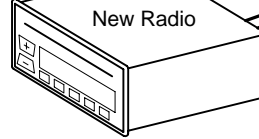
Step By Step Wiring

Page 1 of 3

Auto Makers
Factory
Radio



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



Optional (STRONGLY
RECOMMENDED) Snap On Wire
Harness That Splices Into The
Wires Of The New Radio

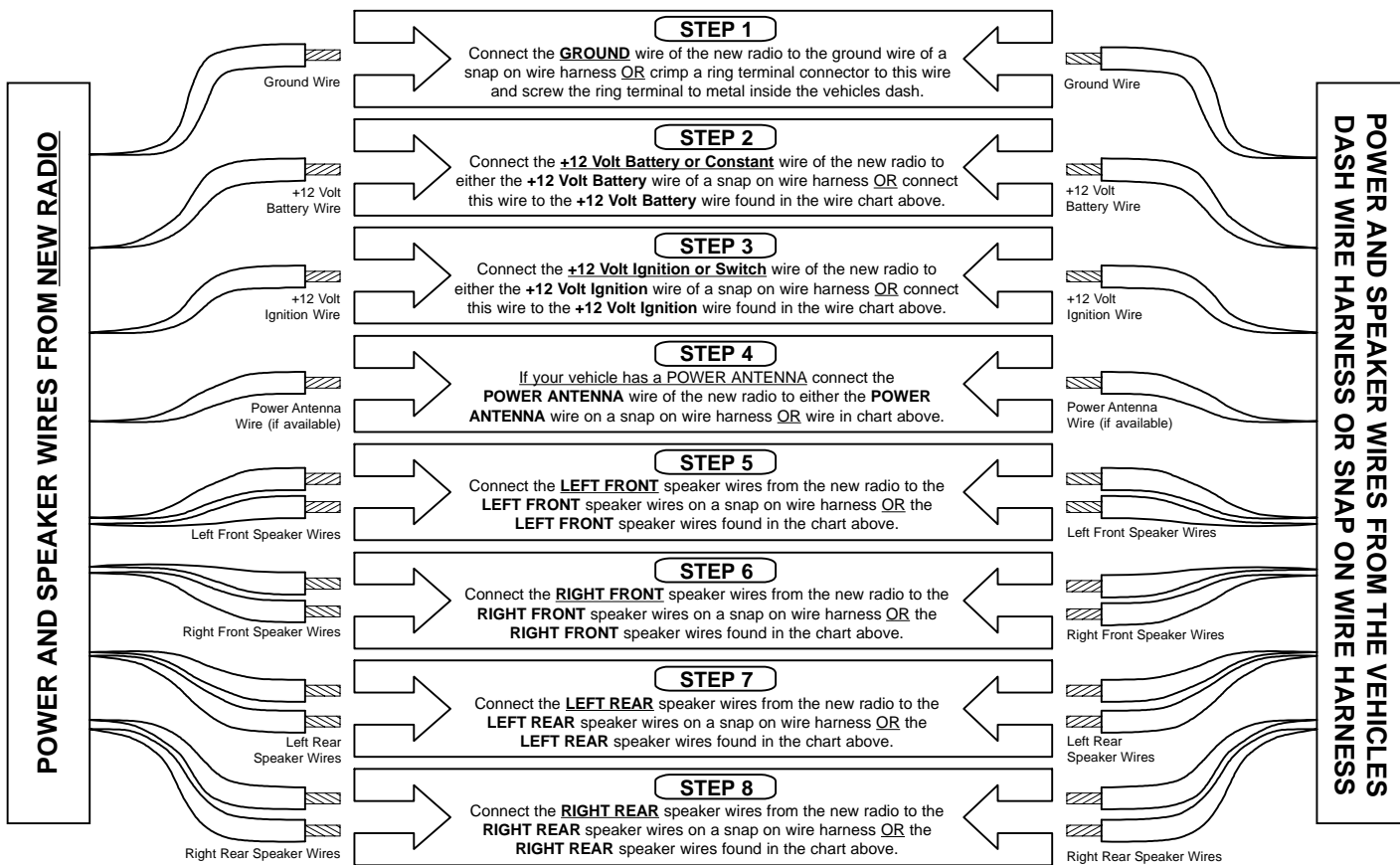
(Note: the radio shown is for display purposes and may not be similar in size or dimensions than the auto makers factory radio in your vehicle)

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 harness tell you what each wire is.

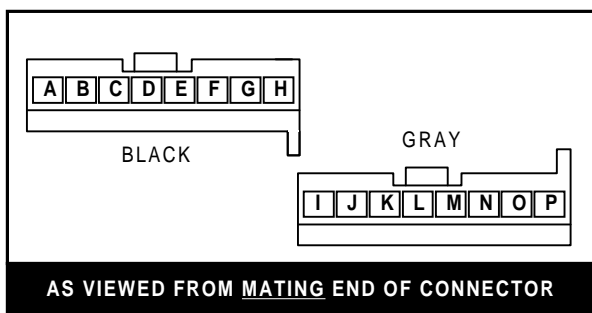


▶ Radio Wire & Color Code Information Page 2 of 3

Ford Mustang Radio Wire Harness Configurations

The Ford radio in your vehicle uses a separate Ford amplifier that powers the speakers instead of the Ford radio powering the speakers. This creates problems when installing a new replacement radio into the vehicle. However, Ford Mustangs are designed with the standard radio wire harness connectors located directly behind the radio. Typically, these standard connectors are located away from the radio if there is a Ford amplifier in the vehicle. But, with these connectors accessible behind the radio, installing a new radio into this vehicle is relatively easy. The Install Doctor will show you both wire harness configurations and let you decide which wire harness to connect to and the advantages to each method.

Ford Radio Wire Harness Connectors That Plug Into "Standard" Or "Basic" Ford Radios (Vehicles That Do NOT Have A Ford Amplifier In The Vehicle)



These connectors contain all necessary power and speaker wires which need to be connected to the new radio. If you see these two connectors plugged into the rear of your Ford radio, your vehicle does NOT have a Ford amplifier in the vehicle. These are standard Ford wire harness connectors.

If you purchase a "wire harness adapter" to aid in the wiring of your new radio this wire harness adapter design is the standard wire harness adapter found at any install shop and does not require any special wiring to make your new radio work.

Pin	What It Is	Typical Ford In Dash Wire Color	"Typical" New Radio Equivalent Wire Color
A	Right Rear Spkr (-)	Dark Brown w/ Pink Stripe	Purple w/ Black Stripe
B	Right Rear Spkr (+)	Tan w/ Green Stripe	Purple
C	Right Front Spkr (-)	Green w/ Orange Stripe	Gray w/ Black Stripe
D	Right Front Spkr (+)	White / Green Stripe	Gray
E	Left Rear Spkr (-)	Tan w/ Yellow Stripe	Green w/ Black Stripe
F	Left Rear Spkr (+)	Tan w/ White Stripe	Green
G	Left Front Spkr (-)	Lite Blue w/ White Stripe	White w/ Black Stripe
H	Left Front Spkr (+)	Orange w/ Green Stripe	White
I	Amplifier Turn On	Do Not Use For This Vehicle	
J	Power Antenna Turn On	Do Not Use For This Vehicle	
K	Ground Wire	Black w/ Green Stripe	Black
L		Do Not Use For This Vehicle	
M	Dash Light Dimmer Wire		Orange (if available)
N	+12 Volt Ignition Wire	Thin Black Wire	Red
O		Do Not Use For This Vehicle	
P	+12 Volt Battery Wire	Green w/ Black Stripe	Yellow

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.

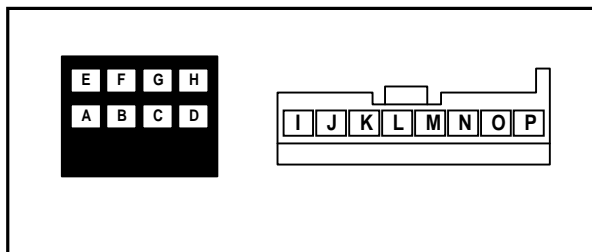
** The wire colors listed in the chart above are typical for Ford vehicles during these years but may not be the exact colors for this vehicle. This is another reason to use a snap on wire harness adapter. **

▶ Radio Wire & Color Code Information Page 3 of 3

Ford Radio Wire Harness Connectors That Plug Into Ford Radios Connected To Ford Amplifiers

(Vehicles That Do Have A Ford Amplifier In The Vehicle)

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



AS VIEWED FROM MATING END OF CONNECTOR

DO NOT CUT THE WIRES OF THE BLACK CONNECTOR

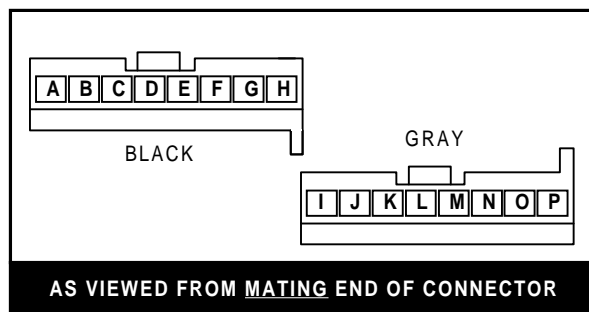
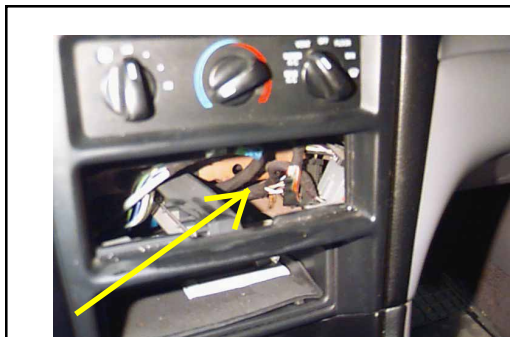
The Install Doctor **STRONGLY** recommends using a snap on "integration" wire harness which will safely and easily allow you to connect a new radio to the existing wires of the Ford radio system.

The "integration" wire harness will have all necessary wires correctly labeled. **OR**, for Ford Mustangs, you can choose **NOT TO USE** these connectors. Read the message to the right.

Typically, these connectors are the only wire harness connectors available in the dash and The Install Doctor recommends purchasing a wire harness adapter designed to plug into these connectors which allow you to integrate into the new radio into the Ford amplifier in the vehicle. You may choose to do this if you like.

However, Ford Mustangs are designed with the wire harness connectors for the "basic" or "standard" Ford radio behind the radio. These wire harness connectors are jumpers that bypass the Ford amplifier in the vehicle. You can choose **NOT TO USE THE CONNECTORS** shown at the left and instead choose to use the connectors for the "basic" or "standard" radio instead.

Read the instructions at the photo below if you want to connect to the connectors for the "basic" or "standard" radio. (Again, this method will bypass the Ford amplifier in the vehicle. The option is yours. Many professional installers will choose to connect to the connectors which connect to the Ford amplifier while other professional installers will choose to connect the connectors for the "basic" or "standard" radio)



AS VIEWED FROM MATING END OF CONNECTOR

Once the Ford radio is removed, look into the opening in the dash. On the right side of the opening will be the connectors for the "standard" or "basic" Ford radio. Look for (1) black and (1) gray connector attached to the side wall on the right side of the opening.

Reach into the opening and unplug both connectors. Pull both connectors up and through the opening for the radio so that you can connect to these two connectors. Turn to the previous page which details wiring information for these 2 wire harness connectors.

Click on a link
tab to jump to
that page

Cover
Page

Before
You Begin

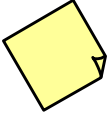
Remove
& Install

Wire
New Radio

Mount
New Radio

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► Mounting A Radio

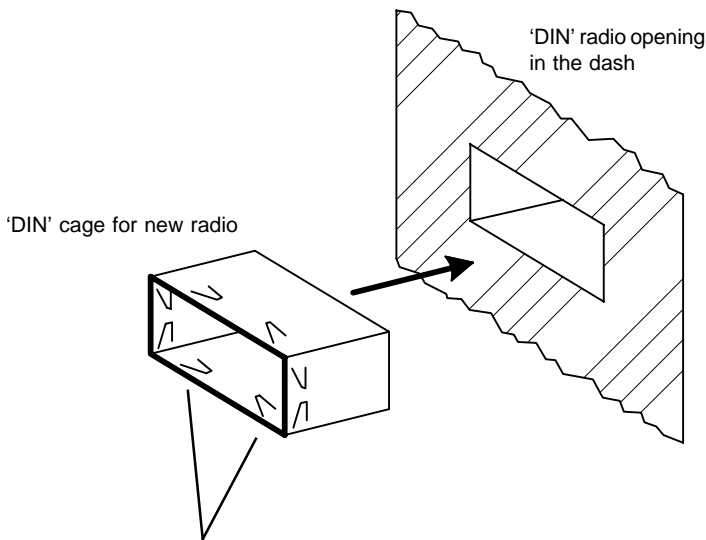


NOTE:

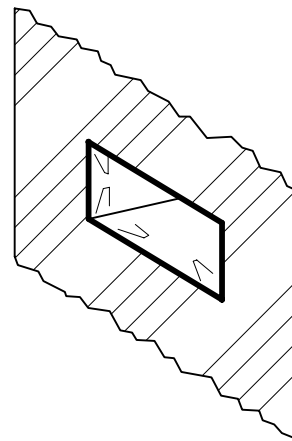
This vehicle does not require using a dash installation kit to mount a 'DIN' style radio. If you are installing a shafted radio, you will need a radio installation kit that converts the rectangular opening to mount the shafted radio.

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 kit	999007
Radio security	999010
'DIN' vs. Shafted radio - differences with	999006



When 'DIN' cage is inserted into the 'DIN' rectangular opening in the dash, bend these tabs behind the opening in the dash to secure the 'DIN' cage to the dash.



New radios 'DIN' cage slid into the 'DIN' opening of the dash with its tabs bent securing the cage to the dash.

The radio can now be slid into the 'DIN' cage which will snap to the radio securing the radio in place.