Factory Radio

Other Documents Available For This Vehicle:

No additional documents 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 printer’s normal quality, press the “SETUP…” button. In the next screen, press the “PROPERTIES” button and set the printer’s print quality to the highest print dpi allowed.

Document Revision History

12/99 Document Creation
Overview Of This Radio Install

<table>
<thead>
<tr>
<th>Step</th>
<th>What Section To Go To</th>
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<tr>
<td>Remove old radio from dash</td>
<td>Remove &amp; Install</td>
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<tr>
<td>Wire the new radio</td>
<td>Wire New Radio</td>
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<tr>
<td>Mount the new radio</td>
<td>Mount New Radio</td>
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<td>Finishing the installation</td>
<td>Remove &amp; Install</td>
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Parts Needed For This Radio Install

<table>
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<th>Parts REQUIRED for the install</th>
<th>Description</th>
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<tr>
<td>Snap on wire harness adapter</td>
<td>** Please read instructions first</td>
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Optional parts for this install

None

Tools Needed To Complete This Install

- **Ford Keys**
- **Solder/Crimper**
- **Voltage Meter**
- **Small Battery**
- **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.

Support Information If You Need Help

- **Document Title**
  - 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

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**
Radio Replacement
Document #: 356045

Remove Factory Radio

STEP 1:
The Ford radio is snapped into the vehicle’s 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 into a ‘U’ shape.

For more information on how to remove the radio, see the diagram below.

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.

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.)

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

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.
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


**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.

**Power and Speaker Wire Wires From The Vehicles DASH Wire Harness Or Snap On Wire Harness**

**STEP 1**

Connect the GROUND wire of the new radio to the ground wire of the vehicles dash. OR wire in chart above.

**STEP 2**

Connect the +12 Volt Battery Wire of the new radio to either the +12 Volt Battery Wire OR connect this wire to the +12 Volt Battery Wire in the chart above.

**STEP 3**

Connect the +12 Volt Ignition Wire of the new radio to either the +12 Volt Ignition Wire OR connect this wire to the +12 Volt Ignition Wire in the chart above.

**STEP 4**

If your vehicle has a POWER ANTENNA connect the POWER ANTENNA wire of the new radio to either the POWER ANTENNA wire in the chart above.

**STEP 5**

Connect the LEFT FRONT speaker wires from the new radio to the LEFT FRONT speaker wires on a snap on wire harness OR the LEFT FRONT speaker wires found in the chart above.

**STEP 6**

Connect the RIGHT FRONT speaker wires from the new radio to the RIGHT FRONT speaker wires on a snap on wire harness OR the RIGHT FRONT speaker wires found in the chart above.

**STEP 7**

Connect the LEFT REAR speaker wires from the new radio to the LEFT REAR speaker wires on a snap on wire harness OR the LEFT REAR speaker wires found in the chart above.

**STEP 8**

Connect the RIGHT REAR speaker wires from the new radio to the RIGHT REAR speaker wires on a snap on wire harness OR the RIGHT REAR speaker wires found in the chart above.
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 Mustang 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.

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

**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. **
Ford Radio Wire & Color Code Information

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.

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)

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.
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.

‘DIN’ radio opening in the dash

‘DIN’ cage for new radio

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.