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**Before
You Begin**

**Remove
& Install**

**Wire
New Radio**

**Mount
New Radio**

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Factory Radio



New 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 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

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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	92 and newer Mazda 2 pc wire harness

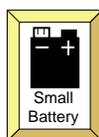
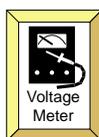
Optional parts for this install

None

► Tools Needed To Complete This Install



OR
Coat Hanger



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

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▶ Remove Factory Radio



STEP 1:

The Mazda radio is snapped into the vehicles dash. With the proper tool, known as Mazda radio removal keys, the Mazda radio can be pulled forward out of the dash. A clothes hanger can be used instead of actual Mazda radio removal keys. Cut the clothes hanger and bend 2 pieces into a "U" shape as shown in the photo above or the diagram below. For more information on how to remove the radio, see the diagram below.

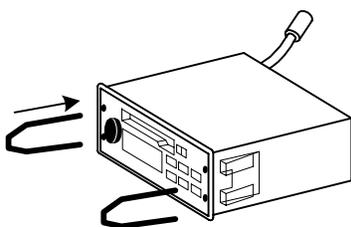
Note: Many Mazda radios have small rubber plugs that are inserted into the holes on the side of the radio. Before the radio removal keys can be inserted into the holes, these rubber plugs must be removed. A sharp pointed tool can be used to remove the rubber plugs.

STEP 2:

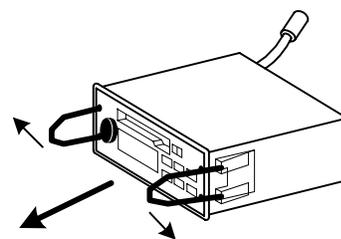
Pull the radio from the dash. Unplug the antenna cable from the rear of the radio. Unplug the 2 white wire harness connectors from the rear of the radio. Unplug the brown ground wire connector from the rear of the radio.

Removing Mazda 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 Mazda 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.



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► Wiring The New Radio

Move to: **Wire New Radio** Section

► Mounting The Radio

Move to: **Mounting New Radio** Section

► Completing The Radio Installation



STEP 1:

Insert the new radios 'DIN' cage into the opening in the dash. Bend the tabs of the cage behind the plastic of the dash panel to secure the 'DIN' cage in place.

This can be seen in more detail in the "**Mount New Radio**" section at the end of this document.



STEP 2:

Connect the antenna to the new radio. Make sure all power and speaker wire connections have been made and plug in any connectors to the rear of the radio.

Slide the new radio into the 'DIN' cage until the new radio snaps into the cage.

The installation is now complete

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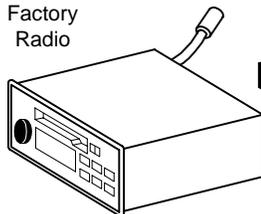
Wire
New Radio

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New Radio

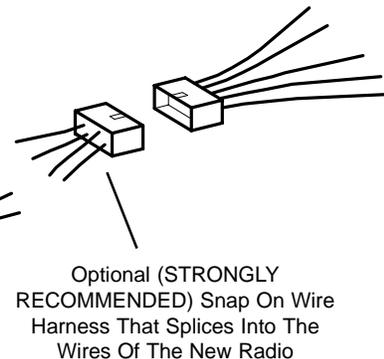
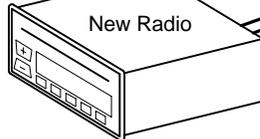
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Step By Step Wiring

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

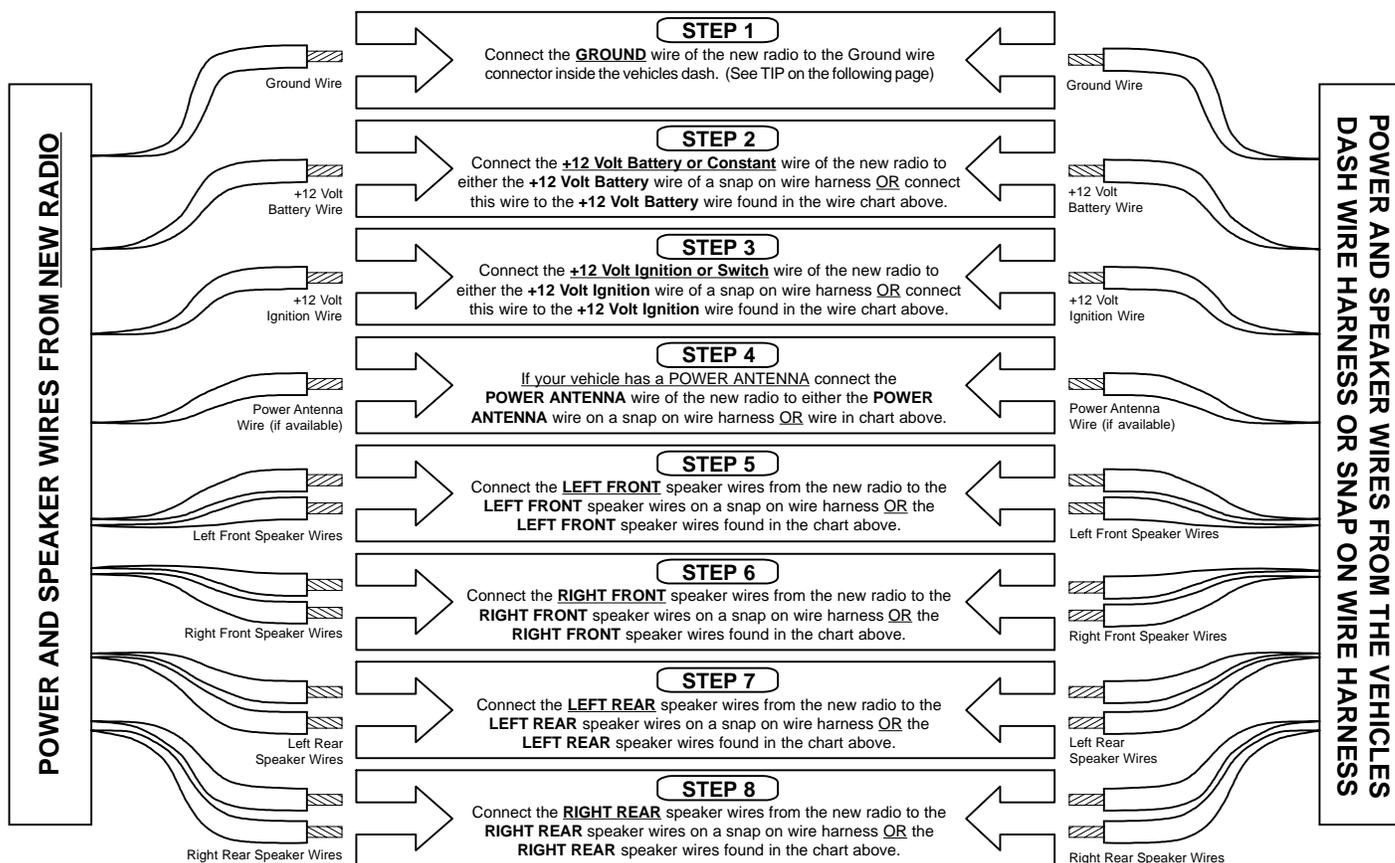
(Note: the radio shown is for display purposes and may not be similar in size or dimensions than the auto makers factory radio in your vehicle)

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 shows you what each wire is.



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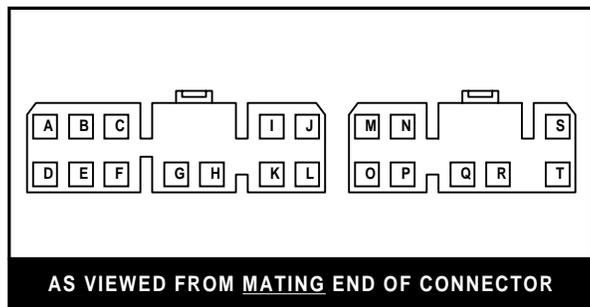
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▶ **Radio Wire & Color Code Information**

Factory in-dash wire harness (this vehicle has a 2 pc harness) that snaps into the factory radio + a single ground wire connector plugged into the a flat tab on the rear of the radio.



Pin	What It Is	Typical Factory Radio In Dash Wire Color	Typical New Radio Equivalent Wire Color
A	+12 Volt Ignition Wire	Blue w/ Black Stripe	Red
B	+12 Volt Battery Wire	Blue w/ Red Stripe	Yellow
C		do not use	
D		do not use	
E	Power Antenna Turn On	not available	Blue
F		do not use	
G		do not use	
H		do not use	
I	Left Front Speaker (+)	Purple	White
J	Right Front Speaker (+)	Orange	Gray
K	Left Front Speaker (-)	Blue w/ Orange Stripe	White w/ Black Stripe
L	Right Front Speaker (-)	White	Gray w/ Black Stripe
M	Left Rear Speaker (+)	White w/ Blue Stripe	Green
N		do not use	
O	Left Rear Speaker (-)	Black w/ Blue Stripe	Green w/ Black Stripe
P			
Q	Right Rear Speaker (+)	Blue w/ White Stripe	Purple
R	Right Rear Speaker (-)	Blue	Purple w/ Black Stripe
S		do not use	
T		do not use	

TIP: Crimp a **male tab spade** to the new radios ground wire. Slide it into the brown female tab spade connector that originally snapped into the tab on the rear of the factory radio.

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► Mounting A Radio

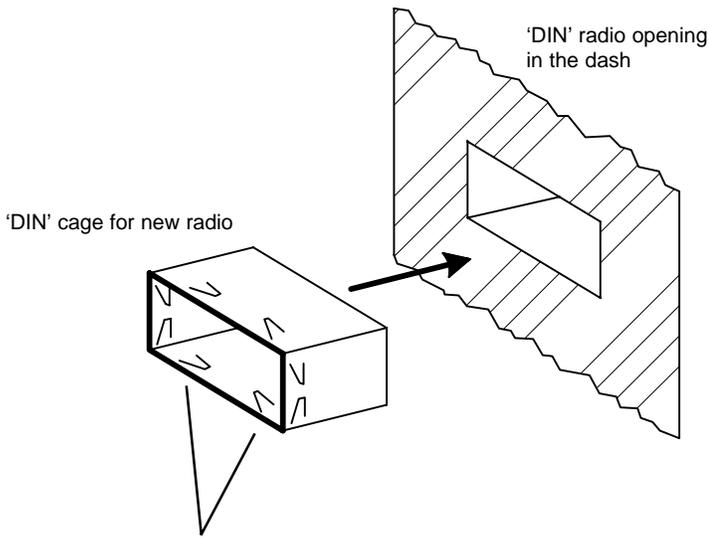


NOTE:

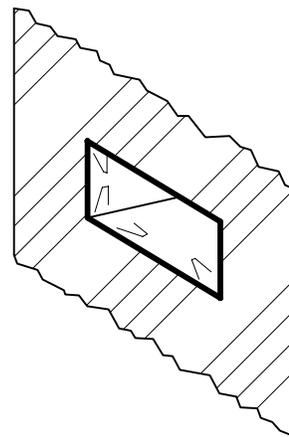
This vehicle does not require using a dash installation kit to mount a 'DIN' style radio. If you are installing a shafted radio, you will need a radio installation kit that converts the rectangular opening to mount the shafted radio.

All information needed to complete the mounting of the new radio to the installation kit 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



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.