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Before
You Begin

Remove
& Install

Wire
New Radio

Mount
New Radio

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Factory Radio



Other Documents Available For This Vehicle:

No documents available at this time

New Radio

and dash installation kit



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

02/2000 Document Creation

Radio Replacement

Document #: 460053

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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

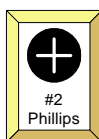
Parts Needed For This Radio Install

Parts REQUIRED for the install	Description
Dash installation kit	Multi purpose General Motors
Snap on wire harness adapter	GM 1989 and newer
Antenna Adapter	GM Antenna Adapter

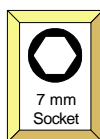
Optional parts for this install

None

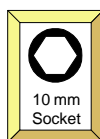
Tools Needed To Complete This Install



#2 Phillips



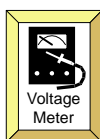
7 mm Socket



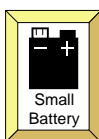
10 mm Socket



Solder/ Crimper



Voltage Meter



Small Battery



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

Intermediate

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

Radio Replacement

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► Remove Factory Radio



STEP 1:

Locate and remove three (3) phillips screws located above the radio and dash instrument displays which secure the top of the plastic dash panel.



STEP 2:

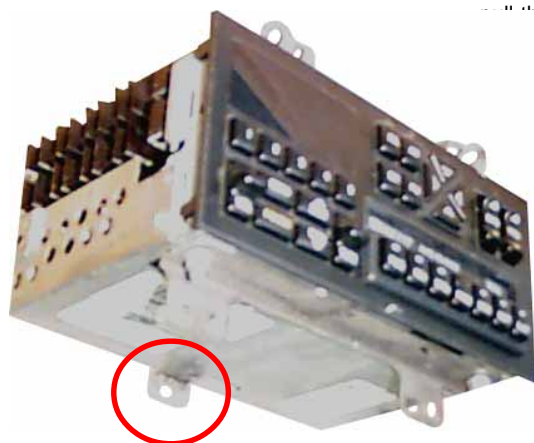
Once the screws securing the plastic dash panel have been removed, the dash panel can be pulled off of the main dash assembly.

You must first remove the top of the dash panel. Insert the tip of a flat head screwdriver between the top of the plastic dash panel and the softer main dash panel. Gently pry the top of the plastic dash panel out. Once the top of the plastic dash panel is lifted out, continue to pry the rest of the plastic dash panel off.



STEP 3:

Once the plastic dash panel has been removed, the bolt screws securing the radio become visible. Locate and remove four (4) 7mm bolt screws that secure the radio. (2) at the top of the radio, (2) at the bottom of the radio.



NOTE:

The GM Delco radio is secured to the dash with four (4) 7mm bolt screws at the front of the radio (2 on top and 2 on bottom).

However, there is a 5th hidden 7mm bolt screw at the bottom rear of the radio that is not visible by looking at the radio. Because the dash is angled, it is hard to see this bolt screw. At the bottom of the radio, locate a small, square opening. This is the access opening for this bolt screw and you will have to insert a socket extension into this hole to remove it.



STEP 4:

Once all (5) bolt screws have been removed, the radio can be pulled out of the dash.

NOTE: since the dash is angled, and the top of the dash overhangs the radio, pulling the radio out of the dash may be difficult. The top front face of the radio may hit the overhang of the main dash. The radio can be removed but you will probably have to pull firmly so the front of the radio clears from the overhang of the main dash.

Unplug the black cable plugged into the rear of the radio. Unplug the white plastic wire harness connector snapped into the rear of the radio.

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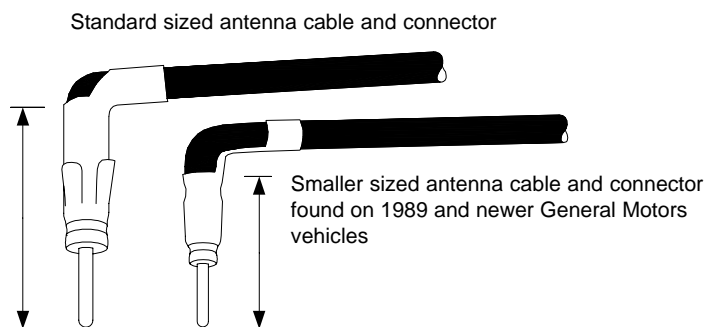
Mount
New Radio

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► Wiring The New Radio

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

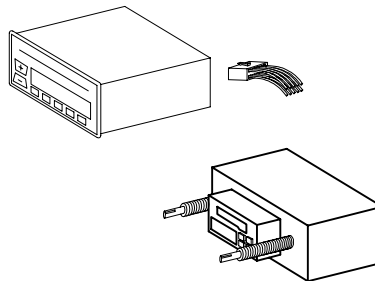
General Motors vehicles manufactured after 1989 have a smaller antenna connector than standard antenna cables. When you install a new radio, this smaller GM antenna cable will not fit properly into the antenna plug on the new radio. You will need an adapter called a **GM antenna adapter** to convert this smaller sized GM antenna cable over to the standard size antenna needed for the new radio.



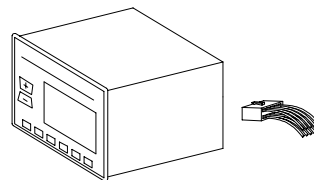
► Mounting The Radio

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

Single 'DIN' and "Shafted" style radios require the use of a radio installation kit to mount the radio.



Double 'DIN' or '1-1/2' 'DIN' style radios are designed to install into GM vehicles without the use of a kit.



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▶ Completing The Radio Installation



STEP 1:

Follow the instruction in the "Mount New Radio" section to secure the new radio to an in-dash radio installation kit.

Plug the antenna cable into the rear of the new radio. Make sure all wire connections for the new radio have been completed and plug in any connectors into the rear of the new radio.

Mount the kit/radio assembly into the dash and secure it to the dash.



STEP 2:

Reattach the upper dash panel and secure the panel with the (3) phillips screws removed earlier.

The installation is now complete.

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Before You Begin

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Wire New Radio

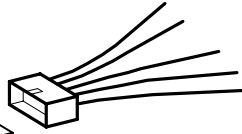
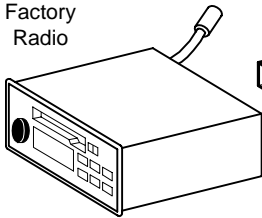
Mount New Radio

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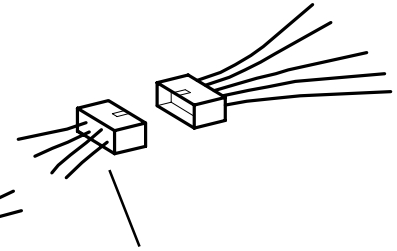
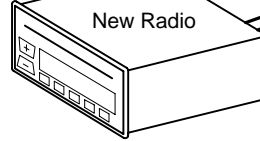
Step By Step Wiring

Page 1 of 2

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

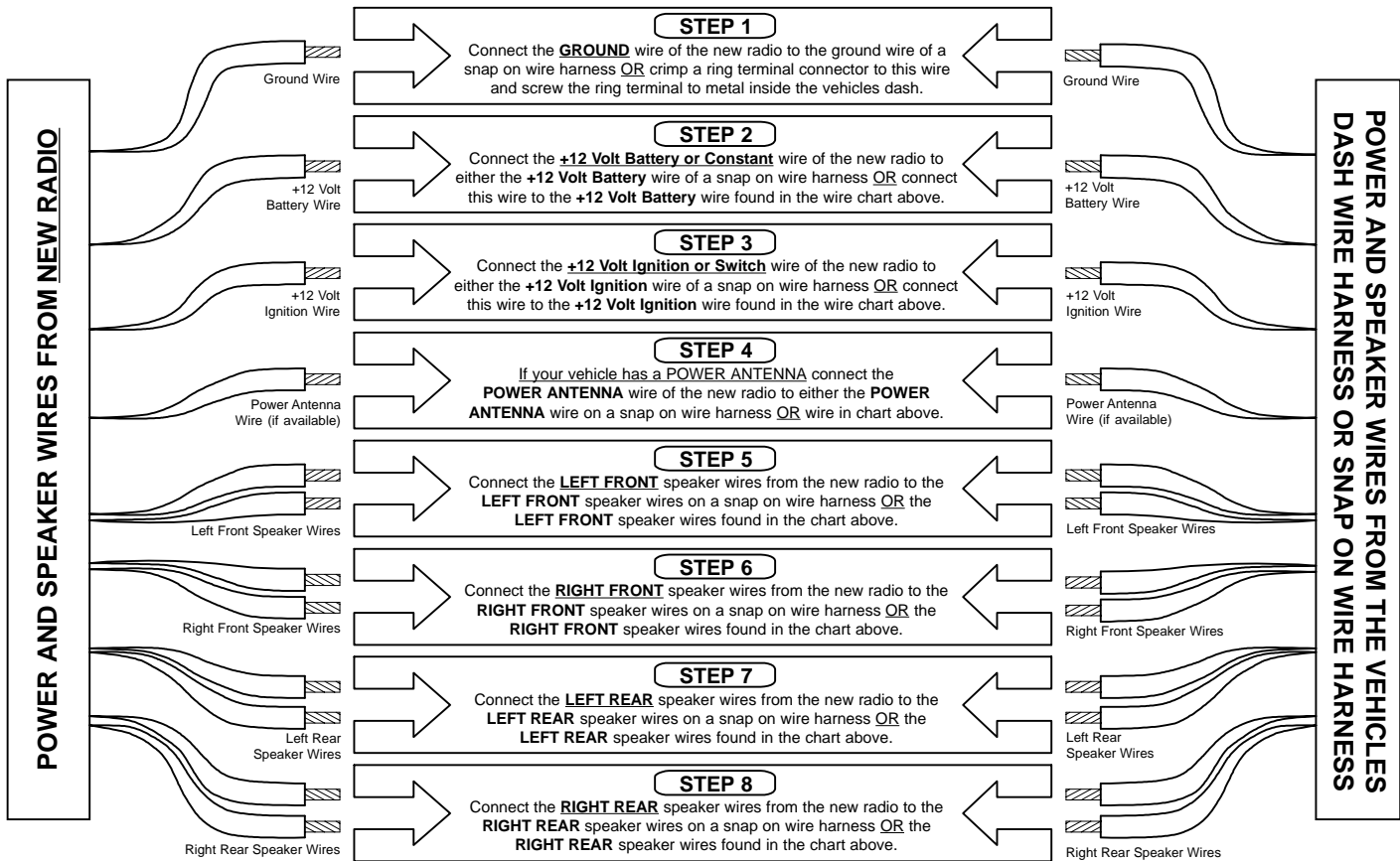
(Note: the radio shown is for display purposes and may not be similar in size or dimensions than the auto makers factory radio in your vehicle)

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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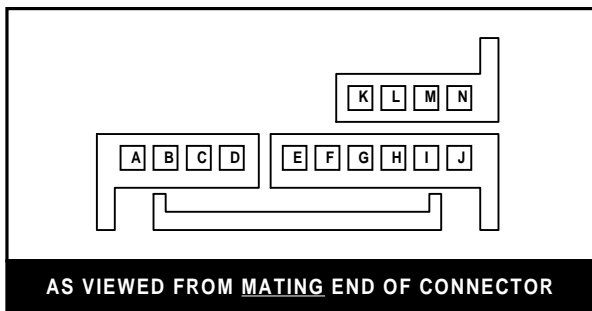
Mount
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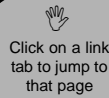
▶ Radio Wire & Color Code Information

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Factory in-dash wire harness that snaps into the factory radio



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



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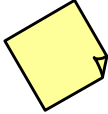
Remove & Install

Wire New Radio

Mount New Radio

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▶ Mounting A Radio To A Dash Kit



NOTE:

Before you begin: The radio installation kit needed for this vehicle is shown below in pictorial form. There are many manufacturers of General Motors dash installation kits available. Each manufacturer produces slightly different variations of the same kit. But for our purposes, there are (2) two different styles of kits for all General Motors vehicles. Why two styles? The reason is that General Motors uses an abnormal size radio in their vehicles. New replacement radios are thinner but deeper, whereas General Motors radios are taller but less deep. This causes a problem with installing the new replacement radio. The new radio might be too deep to fit in the dash. Thus, kit manufacturers produce kits for General Motors vehicles that extend the front face out of the dash to allow new radios to fit. One style is a one piece design where the extension depth is not adjustable. The second style allows the installer to adjust the depth by using snaps built into the kit. The Install Doctor recommends a one piece design for many reasons.

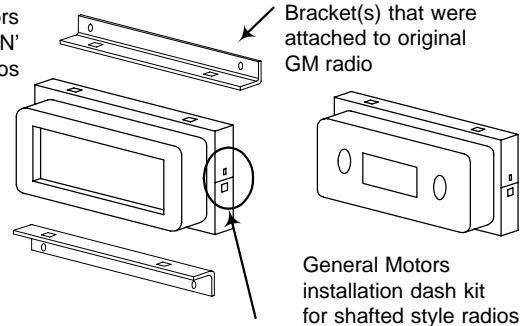
All information needed to complete the mounting of the new radio to the installation kit is included on this sheet. If you need additional help, please consult the following tech documents:

Document Title	Document #
Why use radio installation kits	999005
Mounting your radio to an installation kit	999007
Radio security	999010

For best results, use the brackets that were attached to the original General Motors radio by mounting them onto the installation kit.

Unbolt the mounting brackets from the General Motors radio. One bracket from the top, one bracket from the bottom. The new installation kit should be packaged with (4) nuts and bolts. Use these nuts and bolts to secure the brackets from the General Motors radio to the installation kit. This kit is designed to mount these brackets to the kit. The manufacturers of these kits have predrilled holes into the kits to allow direct mounting of these brackets. Make sure to align the brackets the same as they were mounted to the General Motors radio. To orient the kit properly, we need to find which side of the kit is the top and which side is the bottom. Look at the sides of the kit. Notice two screw holes. Notice one hole is bigger than the other. The proper positioning of the kit requires that the larger hole be BELOW the center of the kit. See drawing to right.

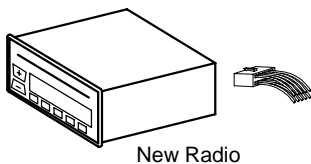
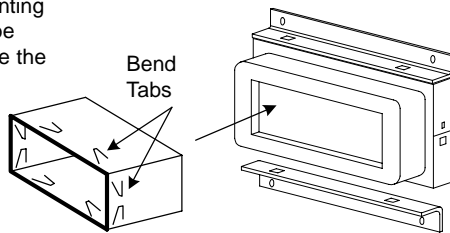
General Motors installation dash kit for 'DIN' (rectangular body style) radios



What you need to mount your radio

'DIN' Radios (Rectangular Body Style)

Slide the radios installation 'DIN' sleeve into the mounting kit. (some sleeves may be marked with "TOP" to note the top of the sleeve)

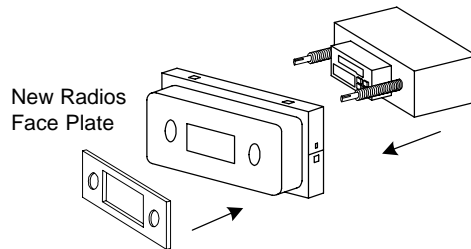


New Radio

Once the radios installation sleeve is completely slid into the kit, bend out the tabs on the installation sleeve behind the rear surface of the installation kit. The radios installation sleeve is secured to the installation kit by "sandwiching" the installation kit between the front lip and the bent tabs of the radios installation sleeve.

The radio slides into the 'DIN' sleeve after the sleeve is secured to the installation kit

Shafted Radios



Slide the radio through the backside of the installation kit. Slide the radios front face plate onto the front surface of the installation kit. Notice how much of the radios shafts are protruding past the front of the kit. You will need to remove the excess by adjusting the

depth of the new radios shaft spin nuts. Pull the radio out of the installation kit and spin on the nuts that are included with the radio. Slide the radio back into the installation kit. Adjust the nuts by spinning them forward or back to adjust the depth that the new radios shafts protrude out the front of the kit. To assure a "flush" and professional appearance, make sure that the new radios front face plate is flush with the new radios display box that is visible through the opening of the installation kit. Complete the installation by securing the front face plate with the remaining nuts provided with the new radio. The new radio is secured to the installation kit by "sandwiching" the installation kit between the new radios front face plate and the nuts spun onto the shafts of the radio behind the installation kit.



CAUTION:

Do not overtighten the spin nuts securing the front face plate. Tighten to secure the radio without cracking the plastic.



TIP:

If your radio manufacturer provides 6 spin nuts, use 4 to secure the radio to the installation kit and 2 to secure the front face plate.