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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

Factory Radio

with dash radio 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

12/99 Document Creation
01/2000 Updated

Radio Replacement

Document #: 460021

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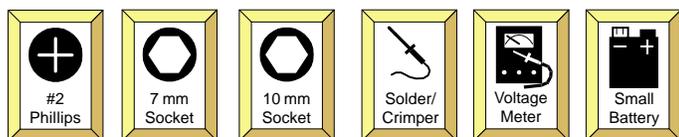
Overview Of This Radio Install

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 in dash wire harness	General Motors 1989 & newer
General Motors 1989 and newer antenna adapter	
4 small washers	

Tools Needed To Complete This Install



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.

! 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.

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 OEM 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:

Locate and remove five (5) phillips screws that secure the top of the plastic panel that surrounds the radio. These screws are located above the dash instruments.



STEP 2:

Once the screws have been removed, the entire plastic dash panel can be pulled from the main dash assembly. The best place to start is the top right corner above the radio. With your hands, pull the dash until it begins to separate from the main dash assembly.



STEP 3:

Continue to pull the dash until the left side unsnaps from the main dash assembly. The left side of the dash contains the headlight switch which will prevent you from completely removing the dash panel.



STEP 4:

The plastic dash panel can be set up on top of the main dash assembly as seen in the photo above. There should be enough wiring attached to the headlight switch to allow you to set the plastic dash panel on top of the main dash assembly.

The radio should now be visible.



STEP 5:

The radio is secured to the dash by a bracket attached to the bottom of the radio. This bracket is screwed into the dash with two (2) 7 mm bolt screws.

Locate and remove both screws. The radio can now be pulled out of the dash.

Pull the radio out of the dash. Unplug the black cable plugged into the rear of the radio. Unplug the plastic wire harness connector from the rear of the radio.

Note: You will need the bracket attached to the bottom of the GM radio when installing the new radio.

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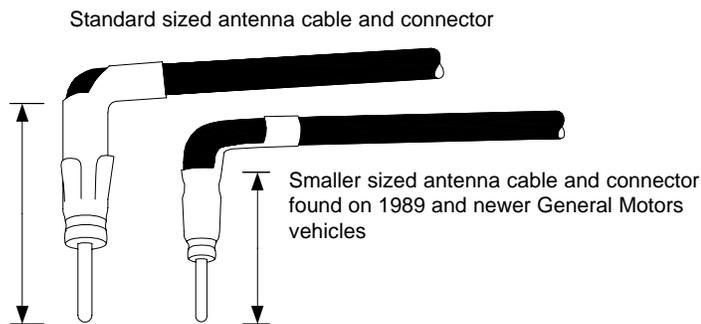
Mount
New Radio

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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 To A Kit

Move to: **Mounting New Radio** Section

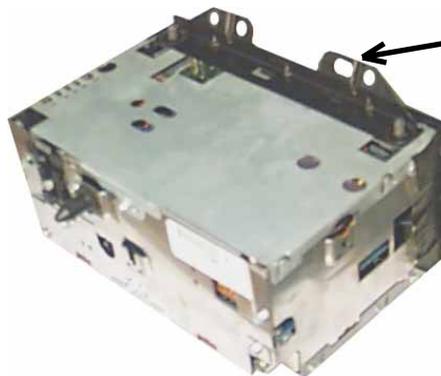
The Install Doctor recommends removing the bracket attached to the bottom of the GM radio and mounting this bracket directly to the radio installation kit.

This radio mounts differently in this particular vehicle than in other General Motors vehicles. Most GM radios are mounted to the dash of the vehicle by brackets at the top and bottom of the radio. This vehicle only uses a single bracket at the bottom of the radio to mount the radio. This also means, if you follow the instructions from The Install Doctor, that the radio installation kit used to mount the new replacement radio will also be mounted to the dash of the vehicle with only this single bracket.

There is **ONE IMPORTANT MODIFICATION** that you need to perform when mounting the lower plastic bracket to the radio installation kit. GM radio installation kits are about 1/8 inch shorter in height than the GM radio installed in this vehicle. This normally does not matter, but because the GM radio was only mounted to the dash with only one bracket at the bottom of the radio, the radio installation kit must be raised the 1/8 inch difference. To do this, you will need to add 2 washers between the bottom of the radio installation kit and the bracket attached to the bottom of the installation kit, raising the kit up from the bracket the necessary 1/8 inch. This modification will center the radio installation kit into the opening of the dash panel which surrounds the radio. Without this modification the radio installation kit will sit lower in the opening of the dash panel and not look centered.

This is shown in detail in the **“Mounting New Radio”** section.

Bottom of GM Radio



The bottom bracket is secured to the radio with two (2) 10 mm bolts.

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▶ Completing The Radio Installation



STEP 1:

Plug one end of the GM antenna adapter into the black antenna cable in the dash. Plug the other end of the GM antenna adapter into the rear of the new radio. Make sure all wire connections to the new radio have been completed and plug in any connectors into the rear of the new radio.

Slide the radio and kit into the opening in the dash. Secure the bottom mounting bracket attached to the installation kit with the same two (2) 7mm bolt screws that originally held in the original GM factory radio.



STEP 2:

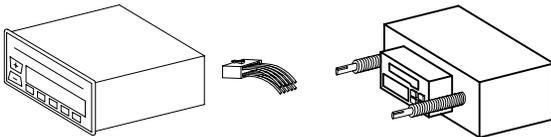
It is now time to test how the plastic dash panel surrounding the radio fits back onto the dash. This is the step you will be able to tell if the modifications to the bottom plastic bracket worked.

Reattach the plastic dash panel to the dash. What you want to look for is how the radio installation kit centers into the opening of the plastic dash panel.

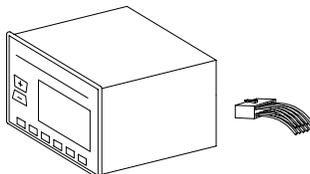
If you did NOT use washers to raise the radio installation kit 1/8 inch from the lower bracket, the bottom of the radio opening of the plastic dash panel may rub the bottom of the radio installation kit. Using the washers to raise the kit should give the kit the proper clearance from the bottom of the opening in the plastic dash panel.

The installation is now complete.

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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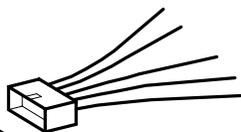
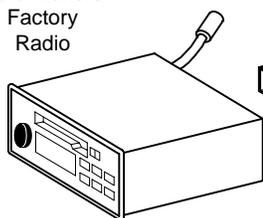
Mount New Radio

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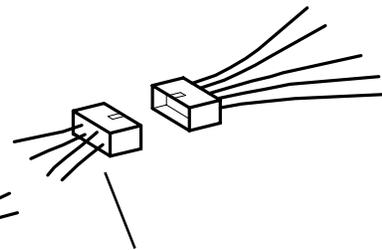
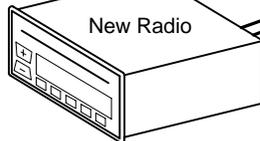
Step By Step Wiring

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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

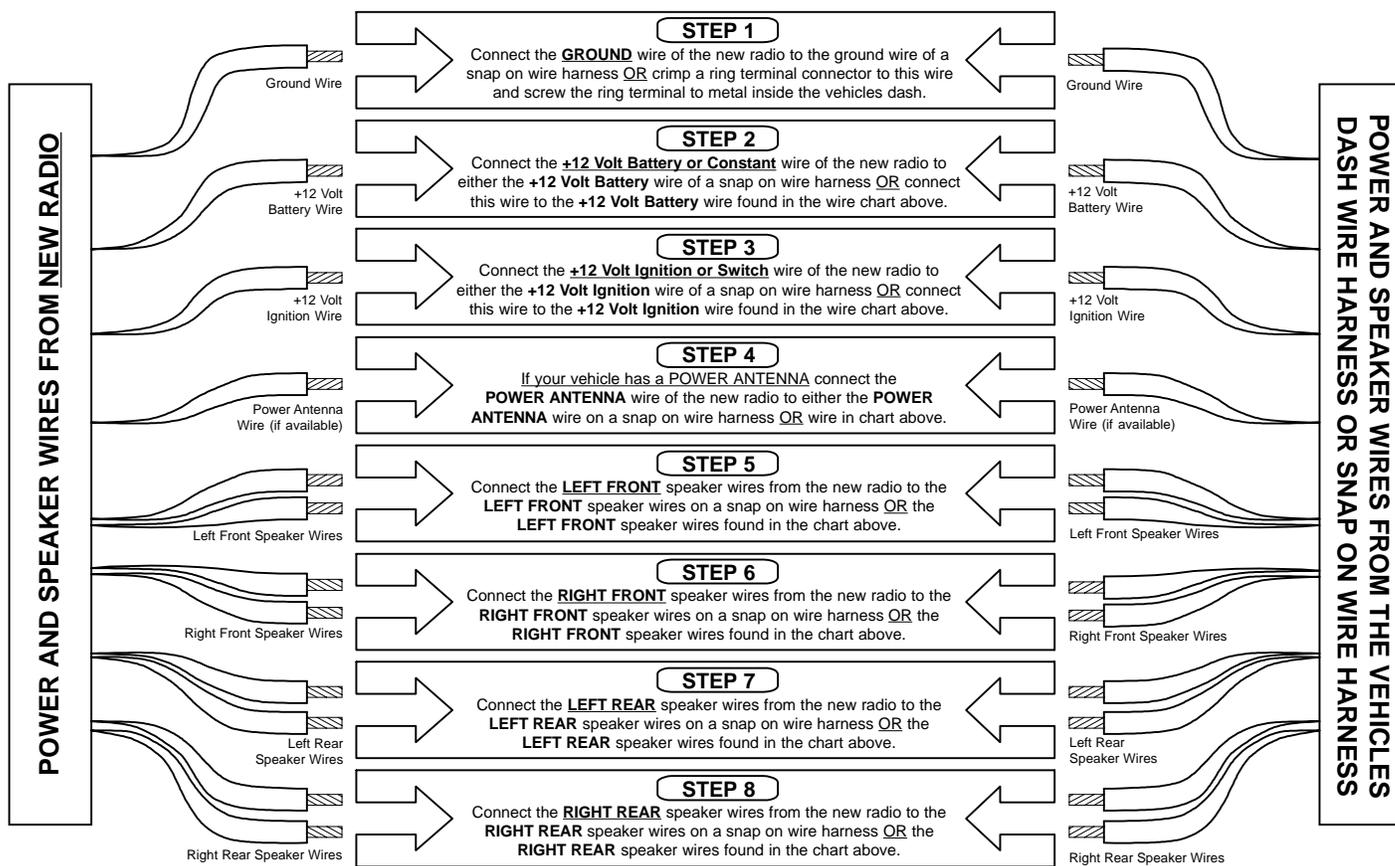
(Note: the radio shown is for display purposes and may not be similar in size or dimensions than the auto makers factory radio in your vehicle)

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.



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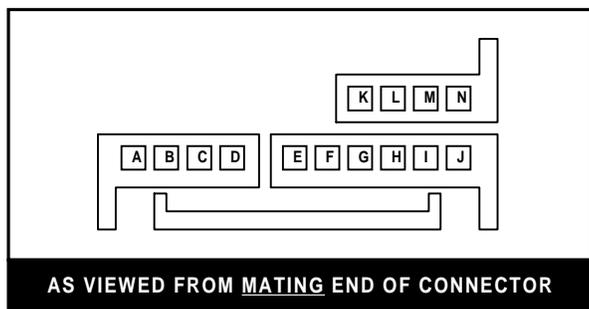
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▶ Radio Wire & Color Code Information

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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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▶ 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:

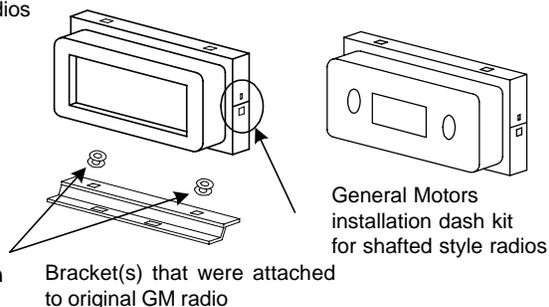
Document Title	Document #
Why use radio installation kits	999005
Mounting your radio to an installation kit	999007
Radio security	999010

For best results, use the bracket that was attached to the bottom of the General Motors radio by mounting it onto the installation kit.

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

Unbolt the mounting bracket from the bottom of the General Motors radio. 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 the bracket to the kit. The manufacturers of these kits have pre-drilled holes into the kits to allow direct mounting of these brackets. Make sure to align the bracket the same as it was 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.

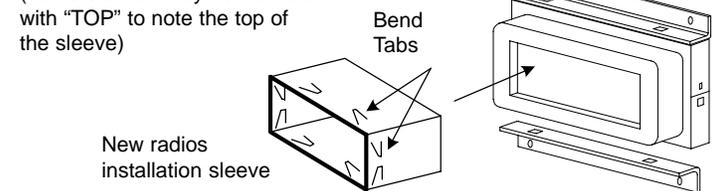
**** For this vehicle, add 2 washers for each bolt between the bottom of the installation kit and the bottom plastic bracket before attaching the bracket to the installation kit.**



What you need to mount your radio

'DIN' Radios (Rectangular Body Style)

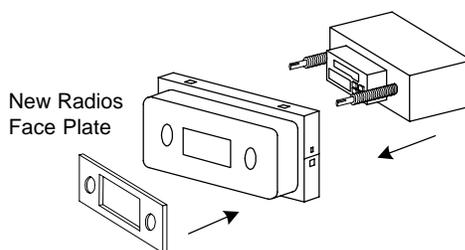
Slide the radios installation sleeve into the mounting kit. (some sleeves may be marked with "TOP" to note the top of the sleeve)



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.

Radio slides into sleeve after sleeve is mounted to the installation kit

Shafted Radios



Slide the radio through the backside of the installation kit. Slide the radio front face plate onto the front surface of the installation kit. Notice how much of the radio 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.