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Before
You Begin

Remove
& Install

Wire
New Radio

Mount
New Radio

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Factory Radio



New Radio

and dash installation kit



Other Documents Available For This Vehicle:

No 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

07/99 Document Creation
09/99 Revised
01/2000 Updated

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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

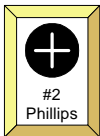
Parts Needed For This Radio Install

Parts REQUIRED for the install	Description
Dash installation kit	Multi purpose General Motors
Snap on in dash wire harness	General Motors 1978 thru 1988

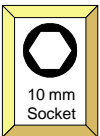
Optional parts for this install

None

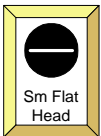
Tools Needed To Complete This Install



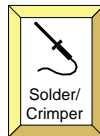
#2 Phillips



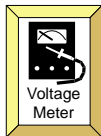
10 mm Socket



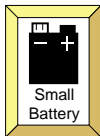
Sm Flat Head



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

Advanced

Professional Installer

Intermediate

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:

Open the astray below the air conditioner control. Locate and remove two **(2) 7mm bolt screws** that secure the long, narrow dash panel that runs the width of the interior of the vehicle.



STEP 2:

The far ends of the long, narrow dash panel are secured with one **(1) 7mm bolt screw** on each end of the panel. But, these screws are hidden behind the air conditioner vents located at the ends of the long, narrow dash panel. The air conditioner vents must be removed to gain access to the 7mm bolt screws. With a thin flat head screwdriver you can remove the air vents. The air vents are snapped into the long, narrow dash panel and can be removed by inserting the tip of the flat head screwdriver between the end of the air vent and the edge of the dash panel and gently pry the air vent until the end pops free. Once one end is popped free, the other end of the air vent should pull out.

Note: only the far air vent on each side needs to be removed. All other air vents stay attached to the long, narrow dash panel.



STEP 3:

At the steering wheel, the long, narrow dash panel is covered with a circular plastic/rubber covering surrounding the steering wheel column. To remove this covering simply pull the circular covering gently to unsnap it from the long, narrow dash panel and the lower dash panel. This circular covering should be completely removed and set aside.



STEP 4:

You should now be able to remove the long, narrow dash panel. The best way to remove the panel is to start on the passenger side and pull gently to free the dash panel from the main dash board. Move to the left side of the steering wheel and pull to remove the left side of the panel from that side of the dash.

Once the long, narrow dash panel has been separated from the main dash board, lift it up over the steering wheel and set it aside.

Tip: the long panel should be set outside of the vehicle on level ground to prevent it from damage.



STEP 5:

You can now remove the upper dash panel that surround the radio and instrument display. This panel is held in with phillips screws at the top and bottom of the panel.

Radio Replacement

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STEP 6:

Locate and remove all phillips screws that secure the bottom of this dash panel.



STEP 7:

Locate and remove the phillips screws that secure the upper part of this dash panel. These screws will be visible by looking up at the overhanging dash above the radio and instrument display.

The upper dash panel can now be removed. Pull gently to remove the upper dash panel from the main dash board.



STEP 8:

Once the upper dash panel has been removed, the radio should be visible. The radio is secured to the dash with four (4) 7mm bolt screws. Remove these screws. Pull the radio to remove it from the dash. Unplug the antenna cable from the rear of the radio. Unplug all connectors attached to the rear of the radio. The radio can now be completely removed from the dash.

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► Wiring The New Radio

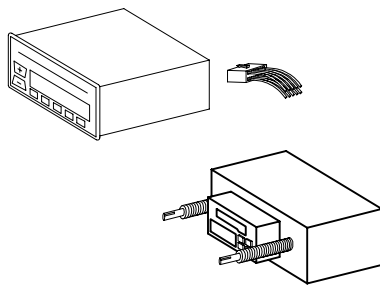
Move to: [Wire New Radio](#) Section

► Mounting The Radio

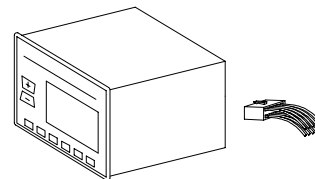
Move to: [Mounting New Radio](#) Section

Installation Note: Choosing the correct radio installation kit design is critical when installing a new radio in this vehicle. Many General Motors vehicles are designed with air conditioning ducts located directly behind the radio. Because of this, there is not enough depth to mount a new radio to the dash. When selecting a radio dash kit, choose a General Motors dash kit that extends the face of the radio out of the dash. Most General Motors kits are already designed with this feature. (see “**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.



► 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 the long, narrow dash panel in reverse order that they were remove.

The installation is now complete.

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Remove & Install

Wire New Radio

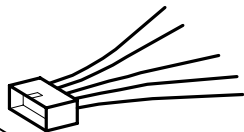
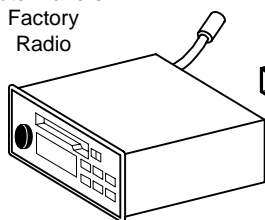
Mount New Radio

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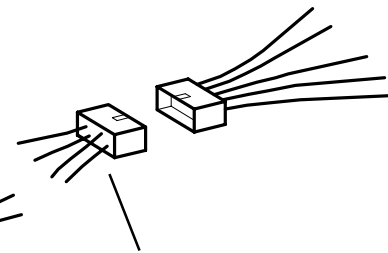
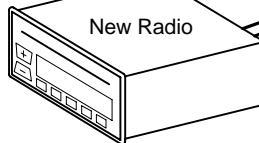
Step By Step Wiring

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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

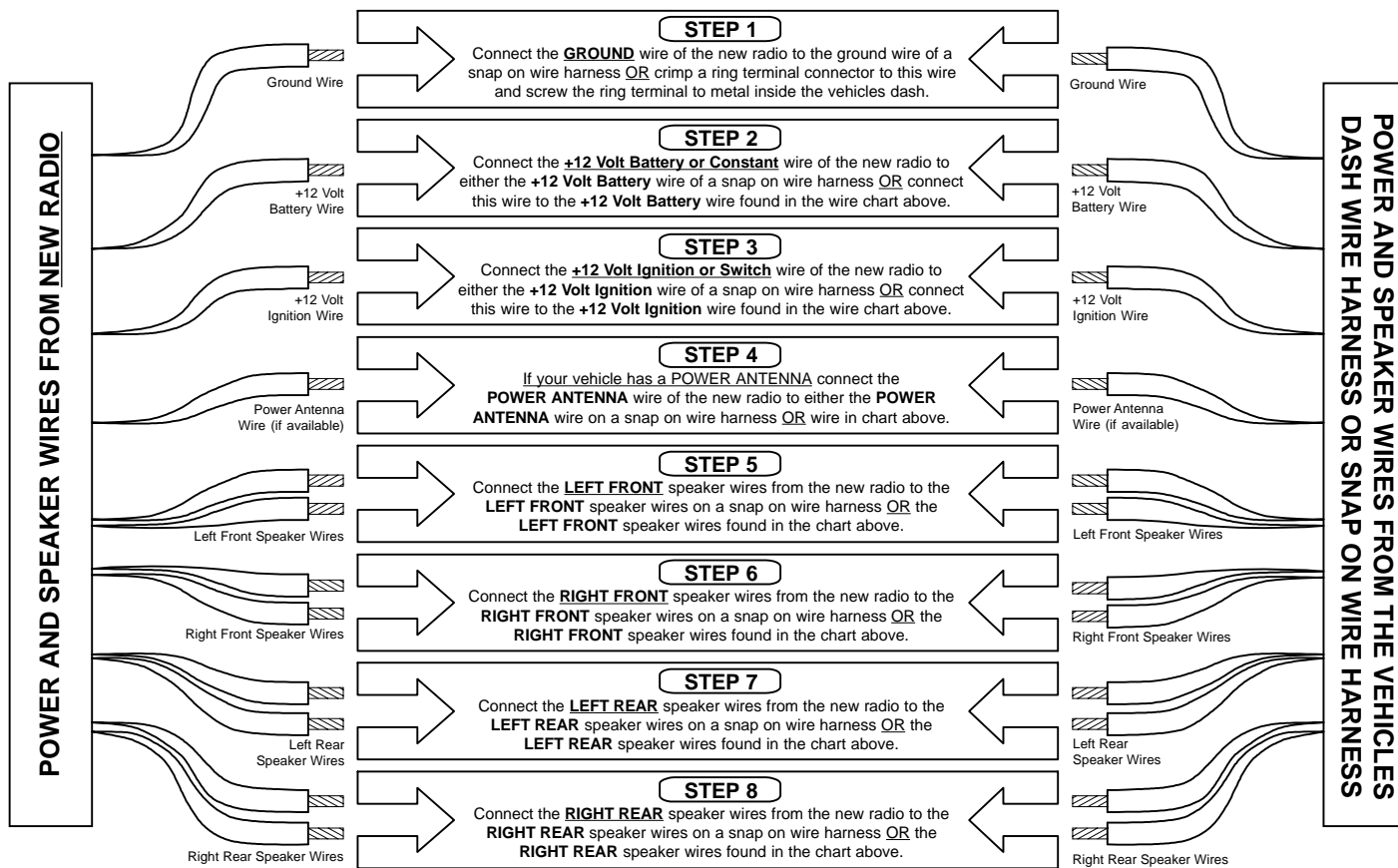
(Note: the radio shown is for display purposes and may not be similar in size or dimensions than the auto makers factory radio in your vehicle)

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 shows you what each wire is.



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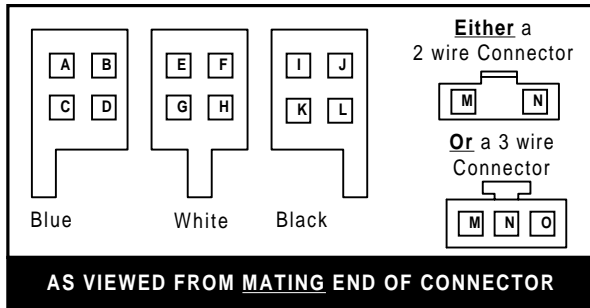
Mount New Radio

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▶ Radio Wire & Color Code Information

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Factory in-dash wire harness (this vehicle has a 3 or 4 pc harness) that snaps into the factory radio



Depending upon the wire harness adapter you purchase, your wire harness adapter may or may NOT include the smaller 4th connector which contains the (+) 12 Volt Battery wire.

If your wire harness adapter does NOT contain the 4th connector, you will need to splice your new radios (+) 12 Volt Battery wire directly to the (+) 12 Volt Battery wire on the 4th connector.

The best method is NOT to cut the wire. Find the correct wire and strip off 1/4" of the wires insulation approximately 1 inch behind the plastic connector. Splice the wires and cover the splice with electrical tape.

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

Radio Replacement

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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.

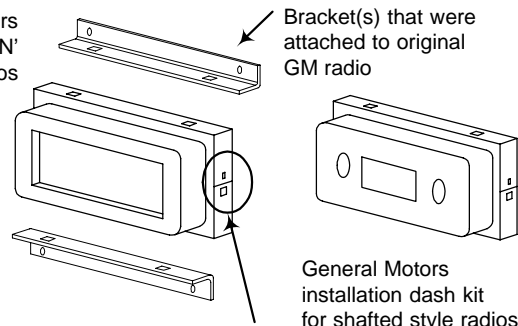
All information needed to complete the mounting of the new radio to the installation kit is included on this sheet. If you need additional help, please consult the following tech documents:

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.

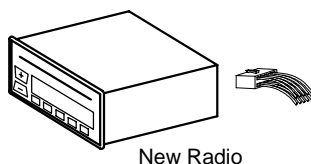
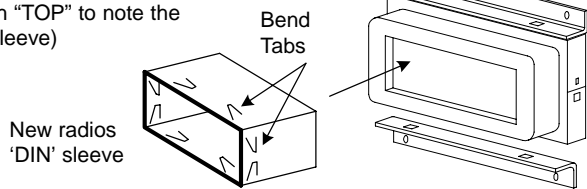
General Motors installation dash kit for 'DIN' (rectangular body style) radios



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)

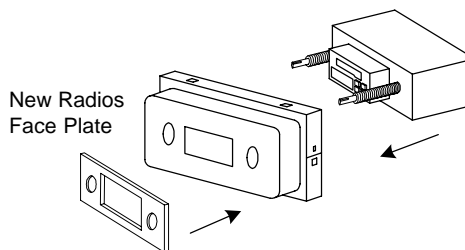


New Radio

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.