

## Factory Radio



## New Radio and dash installation kit



with dash installation kit  
and kit pocket in place of original radio display



## 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
12/99	Photo Update

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Cover Page

Before You Begin

Remove & Install

Wire New Radio

Mount New Radio

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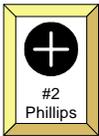
## Overview Of This Radio Install

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

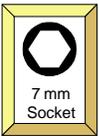
## Parts Needed For This Radio Install

Parts REQUIRED for the install	Description
Dash installation kit	GM Buick Regal <b>ONLY</b> kit
Snap on in dash wire harness	GM 1989 and newer harness
Antenna Adapter	GM 1989 and newer adapter
2 or 3 foot antenna extension cable	
12-15 foot of speaker wire	

## Tools Needed To Complete This Install

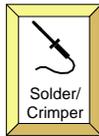


#2 Phillips

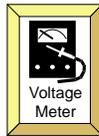


7 mm Socket

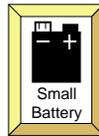
Hand tools needed to remove radio



Solder/ Crimper



Voltage Meter



Small Battery

Accessory tools needed to test and wire the new radio



### 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.

**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

Advanced

## 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

## ► Remove Factory Radio

### ! INSTALLATION NOTE:

The original radio installed in the dash from General Motors is really a display unit only. This display unit is connected via wires to the actual radio (in this type of design, the actual radio is also commonly called the "brain") which is located down in the lower dash, hidden below the glove box in front of the passengers seat. The power and speaker wires needed to install the new replacement radio are also located with this hidden "brain". But, the new radio will be installed in the center console approximately 2-3 feet away from the hidden radio "brain".

- 1) The Install Doctor **STRONGLY** recommends using a snap on wire harness adapter for this install. Since the location for the replacement radio is 2-3 feet from the hidden brain it will be necessary to add 2-3 feet of wire onto each wire of the snap on wire harness to adjust the difference. **(See the following pages for this information)**
- 2) The antenna cable is also located at hidden "brain". You will have to purchase a 2 or 3 foot antenna cable extension and a General Motors antenna adapter (see following pages). You will attach the GM antenna adapter to the antenna cable at the hidden "brain", plug the 2-3 foot antenna cable extension into the antenna adapter, and then route the antenna extension up the center of the dash where the new radio will be mounted.



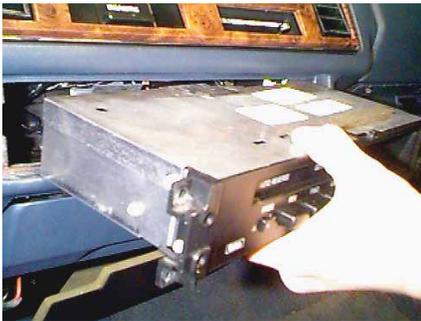
**STEP 1:**

Locate the radio cassette player and pocket in the center of the dash. The cassette player and pocket must be removed. Unsnap the rectangular plastic dash panel surrounding the cassette player and pocket area. The plastic should unsnap by pulling gently. You may need a small flat head screwdriver to start an edge.



**STEP 2:**

Once the rectangular plastic dash panel has been unsnapped, the mounting screws which secure the cassette player and pocket should be visible. Locate and remove four **(4) 7mm bolts** that secure the cassette player and pocket. Two (2) bolts will be located to the left of the cassette player, two (2) bolts will be located to the right of the pocket.



**STEP 3:**

Once the bolts are removed, the cassette player and pocket should now be free to be removed. The cassette player and pocket are joined together and will remove as one unit. Pull firmly to remove the cassette player/pocket unit from the dash.

Once it has been pulled out of the dash, you will notice two (2) plastic connectors containing wires plugged into the rear of the back of the cassette player. Unplug both connectors. You should now be able to completely remove the cassette player/pocket unit from the dash. Set aside, you will no longer need this unit.

**Note:** the two connectors unplugged will not be used to install the new radio.

# Buick Regal

General Motors

Radio Replacement  
Document #: 460011

1988  
thru 1992

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Before  
You Begin

Remove  
& Install

Wire  
New Radio

Mount  
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### STEP 4:

The ACTUAL radio is a small metal box hidden underneath the dash below the glove box. You must remove a plastic panel below the glove box to gain access to this hidden "brain" unit. Look UP at the bottom of the dash on the passengers side of the vehicle. A black plastic dash panel faces down to the carpet and covers the very bottom of the dash panel. This panel is secured to the dash with (3) or (4) 7mm bolt screws at the front of the panel. Locate and remove these screws and the black plastic panel should drop down as shown in the photo above.



### STEP 5:

Once the black plastic panel has been removed, you can look UP into the dash where you will see a bunch of electronics and wires as shown in the photo above. You should see a silver box with 2 inch long fins on the left side (the box is outlined in the photo above).

**This box is the main radio or "brain" and all the wires needed to install your new radio are plugged into this box. These wires need to be unplugged.**

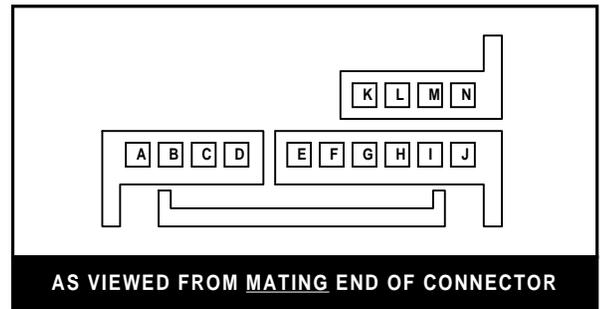


### STEP 6:

Take your hand and place it on the rear of the metal box. Move your hand around until you feel (1) connector and (1) cable plugged into the box. Unplug both the plastic connector and the cable plugged into the back of the box. (as seen in the photo above)

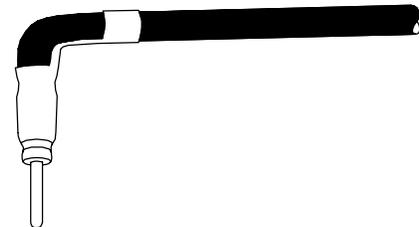
**To confirm you unplugged the correct connector and cable, The Install Doctor provides below a pictorial of each so you can verify that you have the correct connector and cable.**

The connector plugged into the rear of the metal box



AS VIEWED FROM MATING END OF CONNECTOR

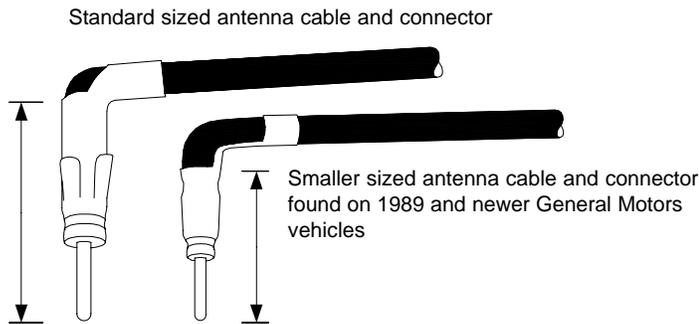
The cable plugged into the rear of the metal box  
(The is the cable to the vehicles antenna)



## ► Wiring The New Radio

Move to: **Wire New Radio** Section

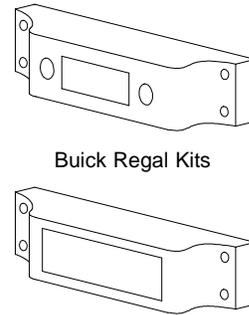
General Motors vehicles manufactured after 1989 have a smaller antenna connector than standard antenna cables. When you install a new radio, this smaller GM antenna cable will not fit properly into the antenna plug on the new radio. You will need an adapter called a **GM antenna adapter** to convert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



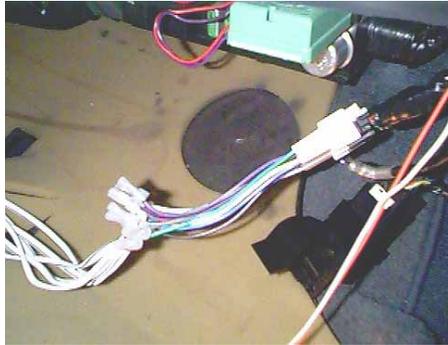
## ► Mounting The Radio

Move to: **Mounting New Radio** Section

This radio requires a custom designed radio installation kit specifically designed to fit into the dash of this vehicle. Other versions of General Motors radio installation kits will not work with this vehicle.



## ▶ Completing The Radio Installation



### STEP 1:

Complete the wiring of the replacement radios power and speaker wires to the snap on wire harness by adding approximately 2-3 feet of extension wires between the radios power and speaker wires and the wires of the snap on wire harness. Insert the snap on wire harness and the added 2-3 feet of wires into the center dash opening where the General Motors cassette/pocket unit was originally installed. Once the snap on wire harness has been inserted into the dash, route the snap on wire harness down to the location of the hidden "brain" where the snap on wire harness will snap into the connector that you had unplugged from the rear of the metal box (hidden brain).

The cable which you had unplugged from the rear of the metal box is the vehicles antenna cable. However, General Motors vehicles typically produced after 1989 use a smaller antenna cable and will not fit the antenna plug on the new radio. You will have to purchase an antenna adapter called a General Motors antenna adapter which will plug into the antenna cable you unplugged from the rear of the metal box and convert the small connector of the cable in the vehicle over to a large connector which can then be plugged into the new radio.

Plug the antenna adapter into the antenna cable you unplugged from the rear of the metal box. Since this antenna cable is also 3 feet away from the center of the dash where the new radio will be located, you will have to plug in a 2-3 foot antenna cable extension into the GM antenna adapter and route the other end of the antenna cable to the center of the dash where it will be plugged in to the new radio.



### STEP 2:

#### Completed Installation

with the radio mounted to the dash installation kit which is secured to the dash with (4) screws.

### STEP 2:

Mount the new radio to the installation kit as shown in the "Mount New Radio" section.

Plug the end of the 2-3 foot antenna extension cable into the new radio. Make sure all wire connections for the new radio have been completed as shown in the "Wire New Radio" section. Plug in any connectors for the new radio into the rear of the new radio.

Slide the dash installation kit, with the new radio already mounted, into the opening in the dash. Secure the installation kit with the four (4) screws needed to secure the kit.



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Before You Begin

Remove & Install

Wire New Radio

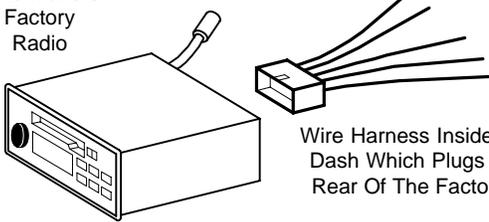
Mount New Radio

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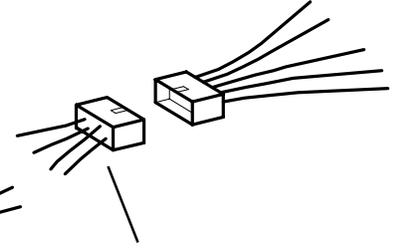
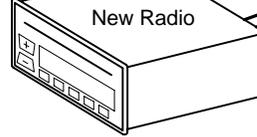
## Step By Step Wiring

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)

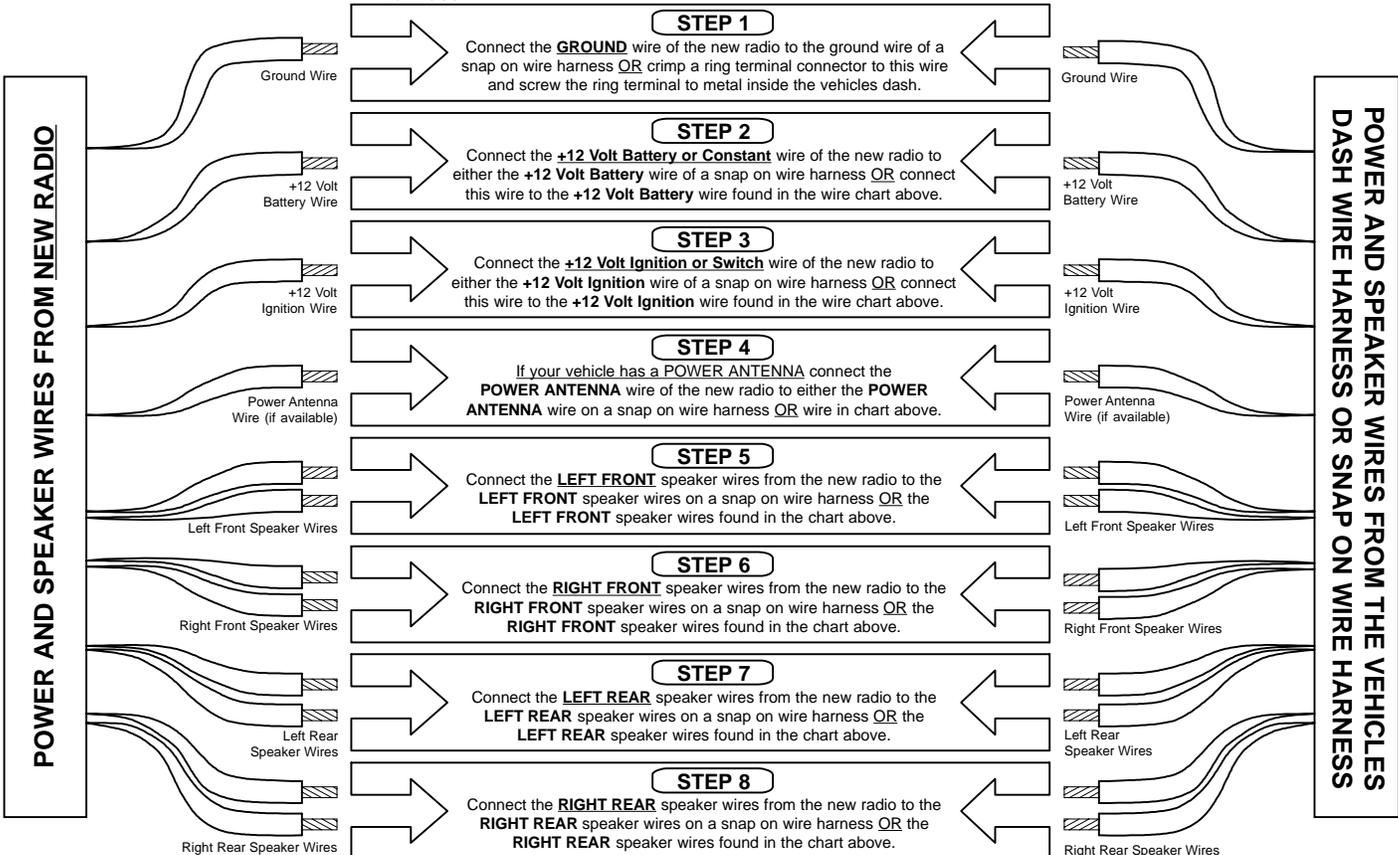
Supplemental information if you need help

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.

For this vehicle, you will be adding about 2-3 feet of wire between the wires of the new radio and the wires of the snap on wire harness



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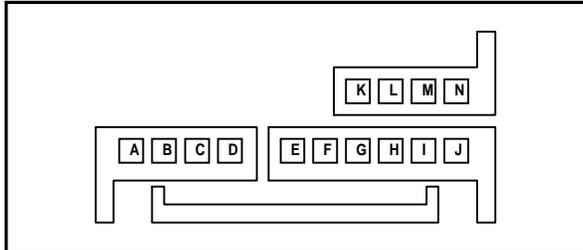
Mount  
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## ▶ Radio Wire & Color Code Information

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



AS VIEWED FROM MATING END OF CONNECTOR

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. This kit is SPECIFICALLY designed for this particular vehicle. No other variations of General Motors radio installation kits will work.

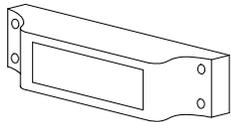
All information needed to complete the mounting of the new radio to the installation kit is included on this sheet. If you need additional help, please consult the following tech documents:

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

### Follow the instructions below for your type of radio

#### 'DIN' Radios (Rectangular Body Style)

##### What you need to mount your radio

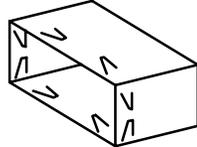


Installation dash kit for 'DIN' (rectangular body style) radios

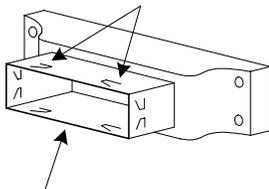
New 'DIN' Radio



New radios 'DIN' installation sleeve



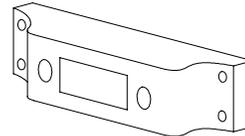
When the 'DIN' installation sleeve is fully inserted and the front edge or lip is seated against the front face of the installation kit, bend the tabs of the installation sleeve behind the rear surface of the installation kit to secure the installation sleeve. Bending the tabs secures the sleeve to the kit.



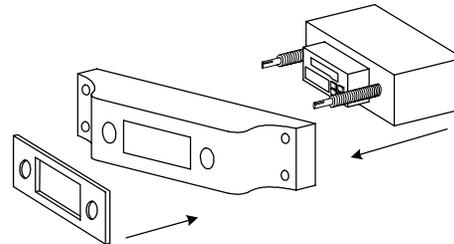
Front edge or lip of the 'DIN' installation sleeve. Slide the 'DIN' installation sleeve into the mounting kit until the front edge or lip meets the installation kit.

**The radio slides into the 'DIN' sleeve after the sleeve has been secured to the installation kit**

#### Shafted Radios



Installation dash kit for shafted style radios



New Radios Face Plate

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

protruding past the front of the kit. You will need to remove the excess by adjusting the depth of the new radio's 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 radio's shafts protrude out the front of the kit. To assure a "flush" and professional appearance, make sure that the new radio's front face plate is flush with the new radio's 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 radio's 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.