

Radio Replacement

Document #: 647025

Click on a link
 tab to jump to
 that page

Cover
 Page

Before
 You Begin

Remove
 & Install

Wire
 New Radio

Mount
 New Radio

Publication, Duplication, or Retransmission Of This Document Not Expressly Authorized In Writing By The Install Doctor Is Prohibited. Protected By U.S. Copyright Laws. © 1997,1998,1999,2000.

Factory Radios



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.

New Radio



Document Revision History

11/99 Document Creation

Note:

These installation instructions are for Nissan 300Z's that do NOT have a BOSE radio installed from Nissan.

Radio Replacement

Document #: 647025

Click on a link tab to jump to that page

Cover Page

Before You Begin

Remove & Install

Wire New Radio

Mount New Radio

Publication, Duplication, or Retransmission Of This Document Not Expressly Authorized In Writing By The Install Doctor Is Prohibited. Protected By U.S. Copyright Laws. © 1997,1998,1999,2000.

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

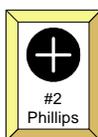
Parts Needed For This Radio Install

Parts REQUIRED for the install	Description
Snap on in dash wire harness	Nissan 1985-1994 harness
Antenna adapter	Nissan "diversity" adapter

Optional parts for this install

None

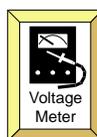
Tools Needed To Complete This Install



Hand tools needed to remove radio



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

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

Radio Replacement

Document #: 647025

Click on a link
tab to jump to
that page

Cover
Page

Before
You Begin

Remove
& Install

Wire
New Radio

Mount
New Radio

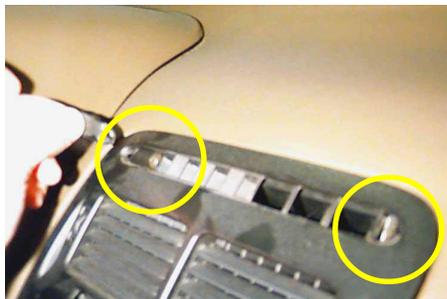
Publication, Duplication, or Retransmission Of This Document Not Expressly Authorized In Writing By The Install Doctor Is Prohibited. Protected By U.S. Copyright Laws. © 1997,1998,1999,2000.

▶ Remove Factory Radio

**STEP 1:**

To remove the radio, the plastic dash panel surrounding the radio must be removed. Directly above the radio is a plastic cover snapped into the plastic dash panel. This plastic cover (approximately 7" x 3/4") has a snap at each end. With a flat head screwdriver, pry up the plastic cover at one end until it unsnaps from the plastic dash panel.

Locate and remove two (2) phillips screws that were hidden under the plastic cover.

**STEP 2:**

Now move to the top of the plastic dash panel. At the top right and left corners are two (2) plastic covers also snapped into the plastic dash panel. Unsnap both of these plastic covers.

Locate and remove two (2) phillips screws that were hidden under the 2 plastic covers.

**STEP 3:**

When all 4 screws have been removed, the dash plastic dash panel can be pull from the center of the dash. Pull the dash off. You will notice that the bottom of the dash has wires attached to the rear of the digital clock mounted to the bottom of the plastic dash panel. You do not have to disconnect the wires attached to the clock so you can set the plastic dash panel off to the passenger side of the dash and leave the plastic dash panel hanging by the wires attached to the clock.

**STEP 4:**

The radio is attached to either a pocket below the radio or a speaker box located in the same location by metal brackets on each side of the radio/pocket assembly. To remove the radio you will have to remove the screws that secure the metal brackets to the dash. Locate and remove six (6) phillips screws securing the metal brackets to the dash (2 below the pocket/speaker and 4 secure the sides of the radio - 2 on each side of the radio).

Once all 6 screws have been removed, pull the radio/pocket assembly out of the dash.

Unplug the black plastic cable plugged into the rear of the Nissan radio. Unplug 2 white connectors plugged into the rear of the Nissan radio. Unplug any other connectors attached to the radio/pocket assembly. The radio should now be able to be completely removed from the vehicle.



Cover Page

Before You Begin

Remove & Install

Wire New Radio

Mount New Radio

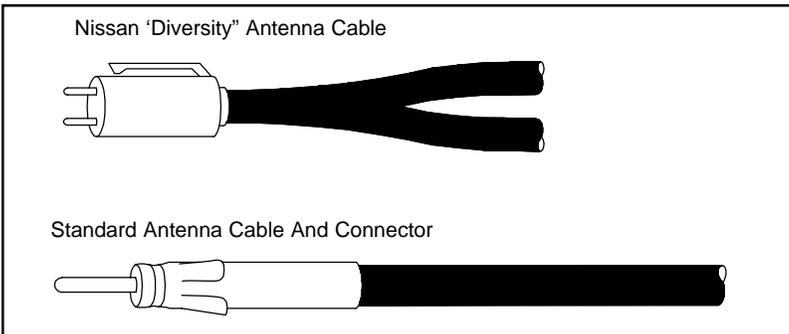
Publication, Duplication, or Retransmission Of This Document Not Expressly Authorized In Writing By The Install Doctor Is Prohibited. Protected By U.S. Copyright Laws. © 1997,1998,1999,2000.

▶ Wiring The New Radio

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

Required Nissan Antenna Adapter

Nissan vehicles use an odd antenna connector designed specifically for Nissan radios only. This antenna connector will not fit into a new radio. You will need a **Nissan "diversity" antenna adapter** which converts the odd antenna connector over to a standard connector that will fit into your new radio.



▶ Mounting The Radio

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

The Install Doctor **STRONGLY** recommends purchasing a 'DIN' radio for this vehicle. 'DIN' radios are a direct replacement for the radio in this vehicle. More information is available in the **"Mounting New Radio"** section.

▶ Completing The Radio Installation



STEP 1:

Once the new radio has been mounted to the metal brackets you are now ready to mount the radio assembly back into the dash.

Plug the Nissan Diversity Antenna Adapter into the Nissan antenna in the dash of the vehicle. Plug the other end of the adapter into the rear of the new radio. Make sure all wire connections have been completed and plug in any connectors for the new radio into the rear of the new radio.



STEP 2:

Reattach the plastic dash panel surround the radio. Secure the plastic dash panel with the same 4 screws that had been removed during the removal of the plastic dash panel. Snap all 3 plastic covers back onto the plastic dash panel.

The Installation Is Now Complete

Click on a link
tab to jump to
that page

Cover
Page

Before
You Begin

Remove
& Install

Wire
New Radio

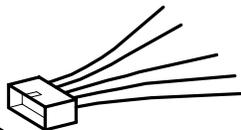
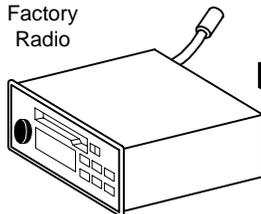
Mount
New Radio

Publication, Duplication, or Retransmission Of This Document Not Expressly Authorized In Writing By The Install Doctor Is Prohibited. Protected By U.S. Copyright Laws. © 1997,1998,1999,2000.

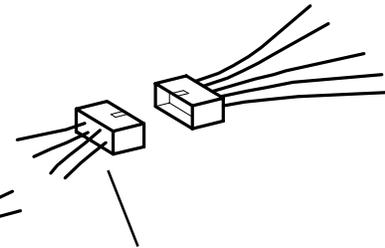
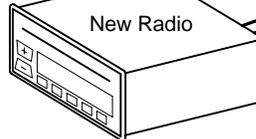
Step By Step Wiring

Page 1 of 2

Auto Makers
Factory
Radio



Wire Harness Inside Vehicles
Dash Which Plugs Into The
Rear Of The Factory Radio



Optional Snap On Wire Harness
(Strongly Recommended) That
Splices Into The Wires Of The
New Radio

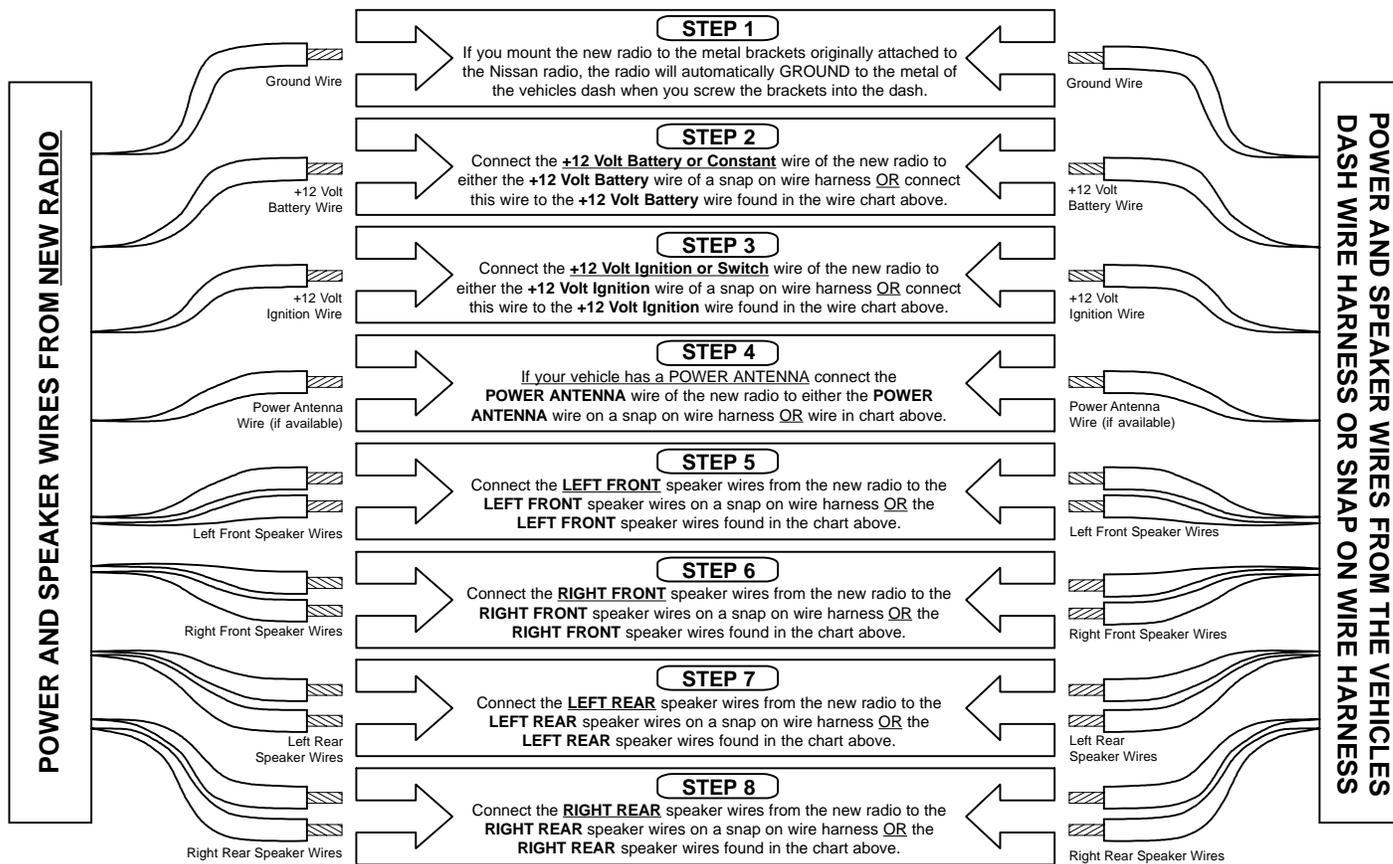
(Note: the radio shown is for display purposes and may not be similar in size or dimensions than the auto makers factory radio in your vehicle)

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.



Click on a link
tab to jump to
that page

Cover
Page

Before
You Begin

Remove
& Install

Wire
New Radio

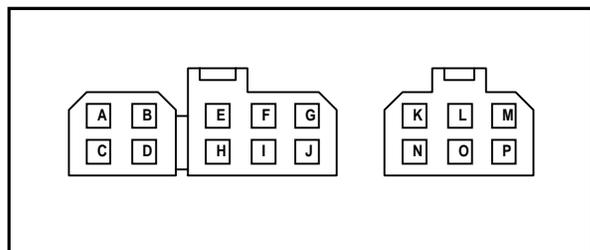
Mount
New Radio

Publication, Duplication, or Retransmission Of This Document Not Expressly Authorized In Writing By The Install Doctor Is Prohibited. Protected By U.S. Copyright Laws. © 1997,1998,1999,2000.

▶ Radio Wire & Color Code Information

Page 2 of 2

Factory in-dash wire harness (this vehicle has a 2 pc harness) that snaps into the factory radio



AS VIEWED FROM MATING END OF CONNECTOR

Pin	What It Is	Typical Factory Radio In Dash Wire Color	Typical New Radio Equivalent Wire Color
A	+12 Volt Ignition Wire	Blue	Red
B		Do Not Use	
C	Ground Wire	do not connect to this wire, see instructions	
D		Do Not Use	
E	+12 Volt Battery Wire	Red w/ Black Stripe	Yellow
F	Right Front Speaker (+)	Brown	Gray
G	Left Front Speaker (+)	Blue w/ White Stripe	White
H	Power Antenna Turn On		Blue
I	Right Front Speaker (-)	Brown w/ White Stripe	Gray w/ Black Stripe
J	Left Front Speaker (-)	Blue w/ Yellow Stripe	White w/ Black Stripe
K	Right Rear Speaker (+)	Blue	Purple
L	Left Rear Speaker (+)	Red	Green
M	Factory Amp Turn On	Lite Green	Blue Power Antenna Wire
N	Right Rear Speaker (-)	Pink	Purple w/ Black Stripe
O	Left Rear Speaker (-)	Dark Green	Green w/ Black Stripe
P		Do Not Use	

Note: using an optional snap on wire harness adapter will simplify the wiring. Most snap on wire harness adapters have already converted and color coded the wires from the auto makers in dash wire harness to match typical aftermarket radio wire colors.

** The wire colors listed in the chart above are typical for this vehicle manufacturer during these years but may not be the exact colors for this vehicle. This is another reason to use a snap on wire harness adapter. **

Note:

This is the same physical design of plastic wire harness connectors used on this same vehicle with the BOSE system installed. If your vehicle DOES have the BOSE system installed, the wiring listed in the chart above will NOT be the same. Although the connectors are the same, the BOSE system uses a completely different wiring method to connect to the speakers of the BOSE system.

Click on a link
tab to jump to
that page

Cover
Page

Before
You Begin

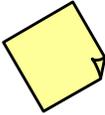
Remove
& Install

Wire
New Radio

Mount
New Radio

Publication, Duplication, or Retransmission Of This Document Not Expressly Authorized In Writing By The Install Doctor Is Prohibited. Protected By U.S. Copyright Laws. © 1997,1998,1999,2000.

▶ Mounting A Radio



NOTE:

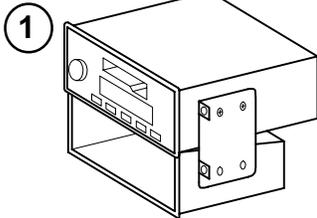
Before you begin: The best method to mount a new radio in this vehicle is to unscrew the auto makers factory radio from the brackets attached to the radio and screw the new radio into these brackets just as the factory radio was. This keeps the vehicle looking as stock from the factory as possible and means that you do not have to purchase an installation kit to mount the radio.

This method is called “ISO” mounting a radio. “ISO” mounting a radio has become a very common installation method for mounting new replacement radios. In order to “ISO” mount your radio, three things must exist:

- 1) The radio must be a ‘DIN’ style rectangular radio
- 2) The ‘DIN’ radio must have mounting holes predrilled into both sides of the radio to allow the radio to be secured with screws to the brackets originally attached to the factory radio.
- 3) The radio must have a removable trim ring surrounding the face of the radio

All information needed to complete an ‘ISO’ mounting of the new radio to the brackets originally attached to the factory radio is included on this page. If you are installing a “shafted” style radio or you will be using an installation kit to mount your new radio instead of the ‘ISO’ mounting method, you can find additional help in the following tech documents:

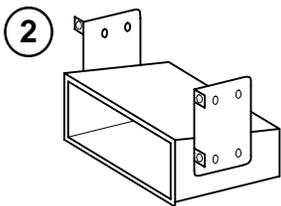
Document Title	Document #
Why use radio installation kits	999005
Mounting your radio to an installation kit	999007
Radio security	999010



Auto makers original radio with attached pocket below the radio

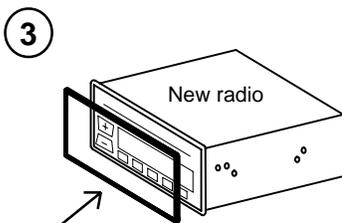
1 Remove the auto makers factory radio/pocket assembly from the vehicle. Remove the screws/bolts securing the radio to the brackets which are also attached to the sides of the pocket below the radio.

Removal Tip: some auto makers use phillips screws, some use 8 mm bolts with phillips screw cutouts in the top of the bolts. For best results use a socket to prevent stripping out the screws. If your radio has hard to remove phillips screws, insert the tip of the phillips screwdriver into each phillips screw and firmly tap with a hammer to loosen the tension bond between the phillips screws and the metal chassis of the auto makers factory radio. Then attempt to unscrew the phillips screws.

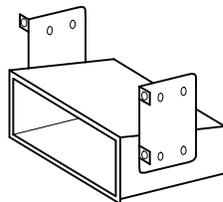


2 Remove the auto makers factory radio, but leave the brackets attached to the pocket.

What if you do not have a pocket? If the radio in your vehicle was a Double ‘DIN’ radio (or it did NOT have the pocket below the factory radio) The Install Doctor STRONGLY recommends that you convert your radio assembly over to use a pocket below the radio. You can purchase the pocket from a Nissan dealership or you can purchase a “multi” pocket radio installation kit that is designed to fit bracket-pocket applications such as this application. Once you have the pocket, secure the pocket to the metal brackets and you can avoid using radio installation kits to mount the new radio to the dash.



New radios removable trim ring surrounds the face of the radio



On the side of the new ‘DIN’ radio should be pre-drilled holes to allow you to screw the new radio into the brackets. Most car radio manufacturers design their radios with many holes on the side of the radio so the radio can be mounted to many different kinds of bracket/pocket configurations.

If you are going to mount your radio in this manner, you will probably have to remove the radios face trim ring around the face of the radio. This trim ring will most likely prevent the vehicles dash panel from securing properly back onto the dash.



Nissan radio attached to pocket/speaker below the radio by metal brackets on each side of the radio assembly.

Remove 2 screws on each side of the Nissan radio and remove the Nissan radio from the metal brackets.



Insert the new radio into the metal brackets and secure the new radio with either the same screws that had secured the Nissan radio or the new radio should be packaged with 4 screws.