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Before
You Begin

Remove
& Install

Wire
New Radio

Mount
New Radio

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Factory Radios

With Pocket Below Radio



Double 'DIN' Radio - No Pocket



New Radio



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

09/99 Document Creation
12/99 Photo Updates
02/2000 Updated

Double 'DIN' Style Radios Instead Of A Radio With A Pocket Below The Radio:

The Install Doctor **STRONGLY recommends** that you convert your radio assembly over to the use of a pocket below the new radio. You can purchase an original pocket from a Nissan dealership or you can purchase a radio installation kit pocket from a local installation shop which is designed as an aftermarket equivalent to the Nissan pocket.

Using a pocket eliminates the need to use a radio installation kit to mount a new radio into this vehicle and keeps the appearance that the new radio was installed by the automaker.

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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 |

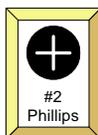
Parts Needed For This Radio Install

| Parts REQUIRED for the install | Description |
|--------------------------------|-----------------------------|
| Snap on in dash wire harness | Nissan 95 and newer harness |
| Antenna adapter | Nissan "diversity" adapter |

Optional parts for this install

None

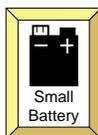
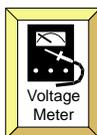
Tools Needed To Complete This Install



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

Basics

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 |

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▶ Remove Factory Radio



STEP 1:

The plastic dash panel surrounding the radio and air conditioner controls must be removed before removing the radio.

Locate and remove two (2) **Phillips screws** located on the bottom of the plastic dash panel. (these screws will not be visible unless you look up at the bottom of the plastic panel)



STEP 2:

When both screws have been removed, the dash can then be unsnapped from the main dash.

Pull the bottom of the dash until the dash panel begins to unsnap, then continue up the panel until the plastic panel has separated from the main dash.

Unplug 2 connectors attached to the rear of the cigarette lighter. Unplug 2 connectors from the rear of the hazard and defrost switches. (if your vehicle has a rear window wiper switch on the lower left of the plastic dash panel, you can swing the dash panel off to the left so you can gain access to the radio - as seen in the photo above)



STEP 3:

Once the plastic panel is removed, the radio and screws securing the radio can now be seen.

The radio is secured to the pocket below the radio by metal brackets on each side of the radio/pocket assembly. To remove the radio/pocket assembly locate and remove four (4) **Phillips screws**, 2 on each side of the radio/pocket assembly.

Once the screws are removed, pull the radio/pocket assembly out of the dash.

Unplug 2 white connectors plugged into the rear of the radio. Unplug the single black cable plugged into the rear of the radio.

Once all connectors have been unplugged, pull the radio/pocket assembly completely out of the dash.

Double 'DIN' Style Radios Instead Of A Radio With A Pocket Below The Radio:

The Install Doctor **STRONGLY recommends** that you convert your radio assembly over to the use of a pocket below the new radio. You can purchase an original pocket from a Nissan dealership or you can purchase a radio installation kit pocket from a local installation shop which is designed as an aftermarket equivalent to the Nissan pocket.

Using a pocket eliminates the need to use a radio installation kit to mount a new radio into this vehicle and keeps the appearance that the new radio was installed by the automaker.

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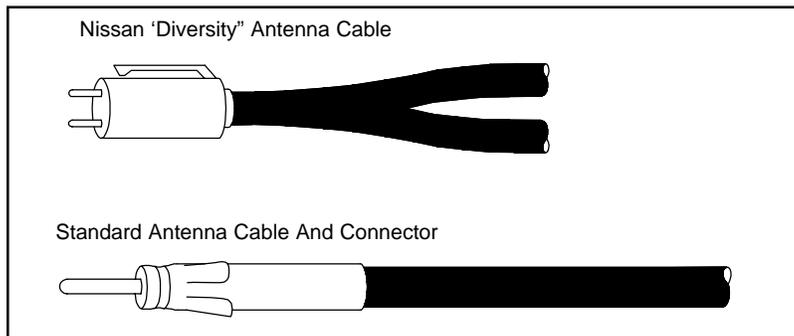
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► Wiring The New Radio

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

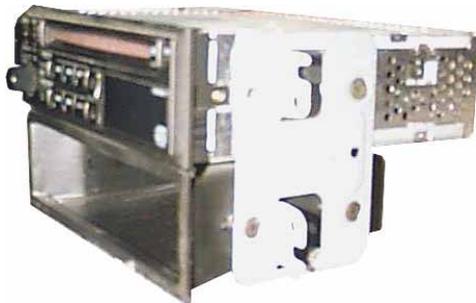
Move to: [Mounting New Radio](#) Section

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

This information is shown in more detail in the **"Mounting New Radio"** section

Nissan radio attached to the metal brackets and pocket below the radio



STEP 1:

As shown in the **"Mount New Radio"** section, unscrew the Nissan radio from the brackets and pocket below the radio, leaving the pocket attached to the brackets.

New radio attached to the metal brackets and pocket below the radio



STEP 2:

Insert and attach the new radio into the brackets. Depending upon the radio, you may be able to use these screws with the new radio, if not the new radio should have 4 screws packaged with it to allow you to mount the radio to brackets.

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STEP 3:

Once the new radio has been attached to the brackets and pocket, you can insert the radio/pocket assembly back into the dash.

Plug the Nissan antenna adapter into the cable that was unplugged from the rear of the Nissan radio.

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

Insert the radio/pocket assembly back into the dash and secure the brackets with the same screws that had originally secured the auto makers factory radio.



STEP 4:

Reattach the plastic dash panel that surrounds the radio. Reconnect all connectors that had been attached to the rear of the plastic panel. Secure the lower part of the plastic dash panel with the 2 phillips screws at the bottom of the plastic dash panel.

The installation is now complete.

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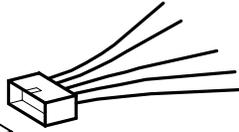
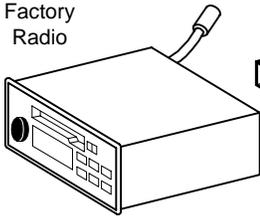
Mount
New Radio

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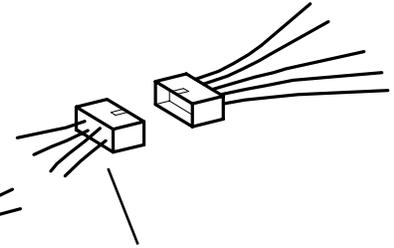
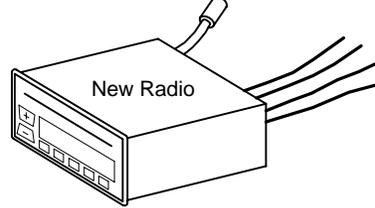
Step By Step Wiring

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Auto Makers
Factory
Radio



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



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

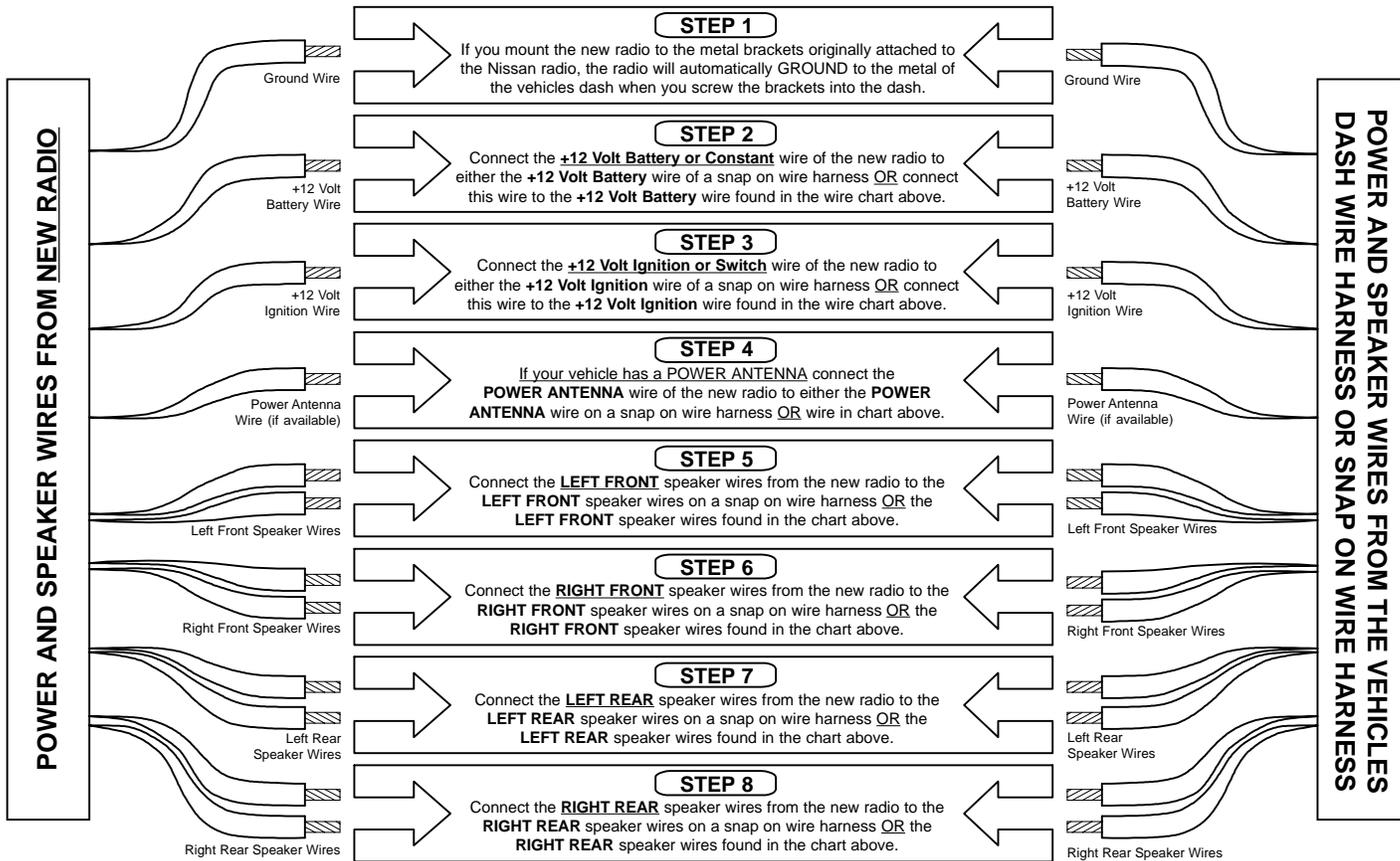
(Note: the radio shown is for display purposes and may not be similar in size or dimensions than the auto makers factory radio in your vehicle)

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.



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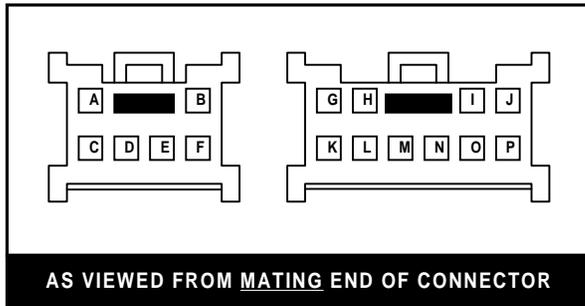
Wire
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▶ Radio Wire & Color Code Information

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

| Pin | What It Is | Typical Nissan In Dash Wire Color | Typical New Radio Equivalent Wire Color |
|-----|----------------------------|--|---|
| A | Right Rear Speaker (+) | Orange | Purple |
| B | Amplifier Turn On Wire | | Blue or Blue w/ White |
| C | Right Rear Speaker (-) | Black w/ Pink Stripe | Purple w/ Black Stripe |
| D | Left Rear Speaker (+) | Lite Green | Green |
| E | Left Rear Speaker (-) | Black w/ Yellow Stripe | Green w/ Black Stripe |
| F | Amp Ground Wire | connect this wire to the radios ground wire | |
| G | +12 Volt Ignition Wire | Green w/ Red Stripe | Red |
| H | | Do Not Use | |
| I | Right Front Speaker (+) | Brown | Gray |
| J | Left Front Speaker (+) | Blue | White |
| K | Ground Wire (if available) | metal brackets on radio | Black |
| L | | Do Not Use | |
| M | +12 Volt Battery Wire | Red w/ Yellow Stripe | Yellow |
| N | Power Antenna Wire | | Blue |
| O | Right Front Speaker (-) | Black w/ Red Stripe | Gray w/ Black Stripe |
| P | Left Front Speaker (-) | Black w/ White Stripe | White w/ Black Stripe |

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. **

Wiring Note:

Most Nissan Pathfinders will have an additional amplifier connected to the Nissan stereo. This amplifier will power the speakers inside the vehicle instead of the amplifier inside the radio.

The Install Doctor recommends "integrating" into this Nissan amplifier when wiring the new replacement radio. This means that the Nissan amplifier will power the speakers in the vehicle instead of the amplifier inside the new replacement radio.

To "integrate" into the Nissan amplifier you will simply wire the new radio just as you would if there was no amplifier in the vehicle. The only difference in the wiring is that you will need to activate or turn on the amplifier when the new radio turns on. In order to turn on the Nissan amplifier, two wires in the wire harness connector in the dash need to be connected to the new radio.

These two wires are located on the smaller of the two white connectors of the radio wire harness located in the dash. One of these wires is a (+) 12 Volt wire which connects to the new radios power antenna turn on wire (some new radios may actually have an amplifier turn on wire in addition to a power antenna turn on wire). This wire will tell the Nissan amplifier to turn on and off when the new radio turns on and off. The second wire, also located on the smaller of the two white connectors, is a (-) Ground wire for the Nissan amplifier. This wire needs to be connected to the new radios Ground wire.

If you follow The Install Doctors installation procedures and mount your new radio to the metal brackets originally mounted to the Nissan radio, you will actually ground the radio through the metal brackets when the brackets are screwed into the dash. Connecting the Nissan amps ground wire to the new radios ground wire will ground the amp as well through the metal brackets. This method is probably the best method to connect and turn on the Nissan amplifier and does not require alot of additional wiring.



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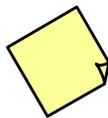
Remove & Install

Wire New Radio

Mount New Radio

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▶ Mounting A Radio



NOTE:

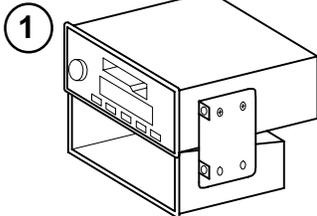
Before you begin: The best method to mount a new radio in this vehicle is to unscrew the auto makers factory radio from the brackets attached to the radio and screw the new radio into these brackets just as the factory radio was. This keeps the vehicle looking as stock from the factory as possible and 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:

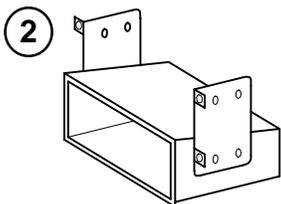
| Document Title | Document # |
|--|------------|
| Why use radio installation kits | 999005 |
| Mounting your radio to an installation kit | 999007 |
| Radio security | 999010 |



Auto makers original radio with attached pocket below the radio

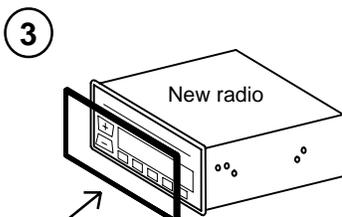
1 Remove the auto makers factory radio/pocket assembly from the vehicle. Remove the screws/bolts securing the radio to the brackets which are also attached to the sides of the pocket below the radio.

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.

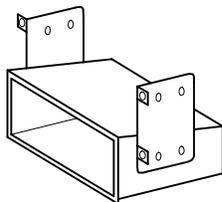


2 Remove the auto makers factory radio, but leave the brackets attached to the pocket.

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.

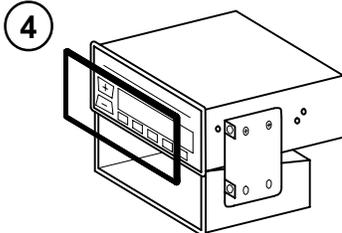


New radios removable trim ring surrounds the face of the radio

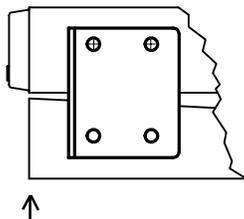


On the side of the new ‘DIN’ radio should be pre-drilled holes to allow you to screw the new radio into the brackets. Most car radio manufacturers design their radios with many holes on the side of the radio so the radio can be mounted to many different kinds of bracket/pocket configurations.

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.



New radio attached to the auto makers pocket and brackets



Line up like this

A common **mistake** when mounting your new radio to the auto makers radio bracket and pocket is selecting the wrong holes on the side of the new radio.

The new radio body, **NOT THE FACE PLATE**, should line up with the pocket below the radio. Most new radio manufacturers design their radios with a face that protrudes out from the body of the radio. The most common mistake is to mount the new radio with the protruded face lined up level with the pocket below the radio, not the new radios body.