

Radio Replacement

Document #: 869029

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Cover
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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

New Radio

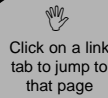


Adobe Acrobat Reader Printing Tips:

- 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

02/2000 Document Creation



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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

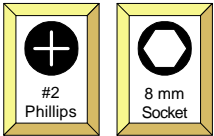
Parts Needed For This Radio Install

Parts REQUIRED for the install	Description
Snap on wire harness	1987 and newer Toyota

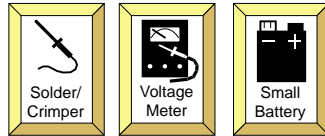
Optional parts for this install

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

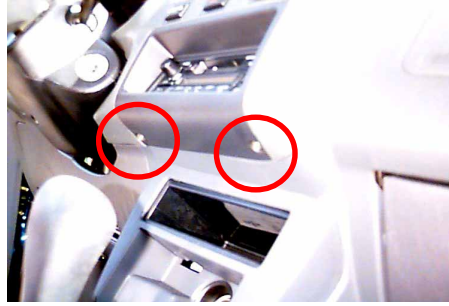
Basics

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

▶ Remove Factory Radio



STEP 1:

The radio is secured to the frame of the vehicles dash with screws located behind the plastic dash panel surrounding the radio.

This plastic dash panel is secured at the bottom with two (2) **phillips screws** and snaps at the top of the plastic panel. Locate and remove both phillips screws at the bottom of the plastic dash panel.

STEP 2:

Once the screws at the bottom of the plastic dash panel have been removed, lift the bottom of the plastic panel and pull outward. The top is snapped into the rest of the dash assembly. Gently pull the dash panel until the snaps at the top unsnap. Once they unsnap, pull the plastic panel away.



STEP 3:

The radio is held in with four (4) **phillips screws / 8 mm bolts**. Remove the screw/bolts. Pull the radio forward.

Unplug the black cable, and (2) white plastic wire harness connectors from the rear of the radio.

▶ Wiring The New Radio

Move to: **Wire New Radio** Section

▶ Mounting The Radio Options

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 Toyota radio in this vehicle. More information is available in the **Mounting New Radio** section.



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► Completing The Radio Installation



STEP 1:

Plug the antenna cable into the rear of the new radio. Make sure all wiring to the new radio has been completed and connect any connectors into the rear of the new radio. Insert the new radio into the dash opening and align the metal brackets to their mounting locations. Secure the radio with the same (4) phillips screws / 8mm bolts that had originally secured the auto makers factory radio.



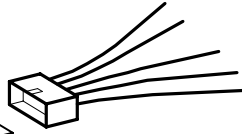
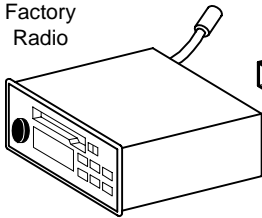
STEP 2:

Reattach the plastic dash panel surrounding the radio. Secure the bottom of the plastic dash panel with the (2) phillips screws removed earlier.

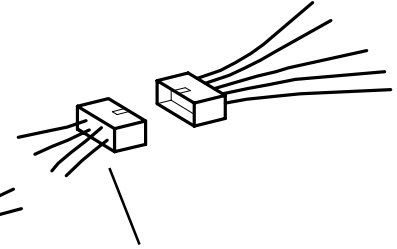
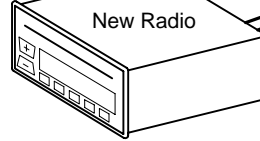
The radio installation is now complete.

► **Step By Step Wiring**

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

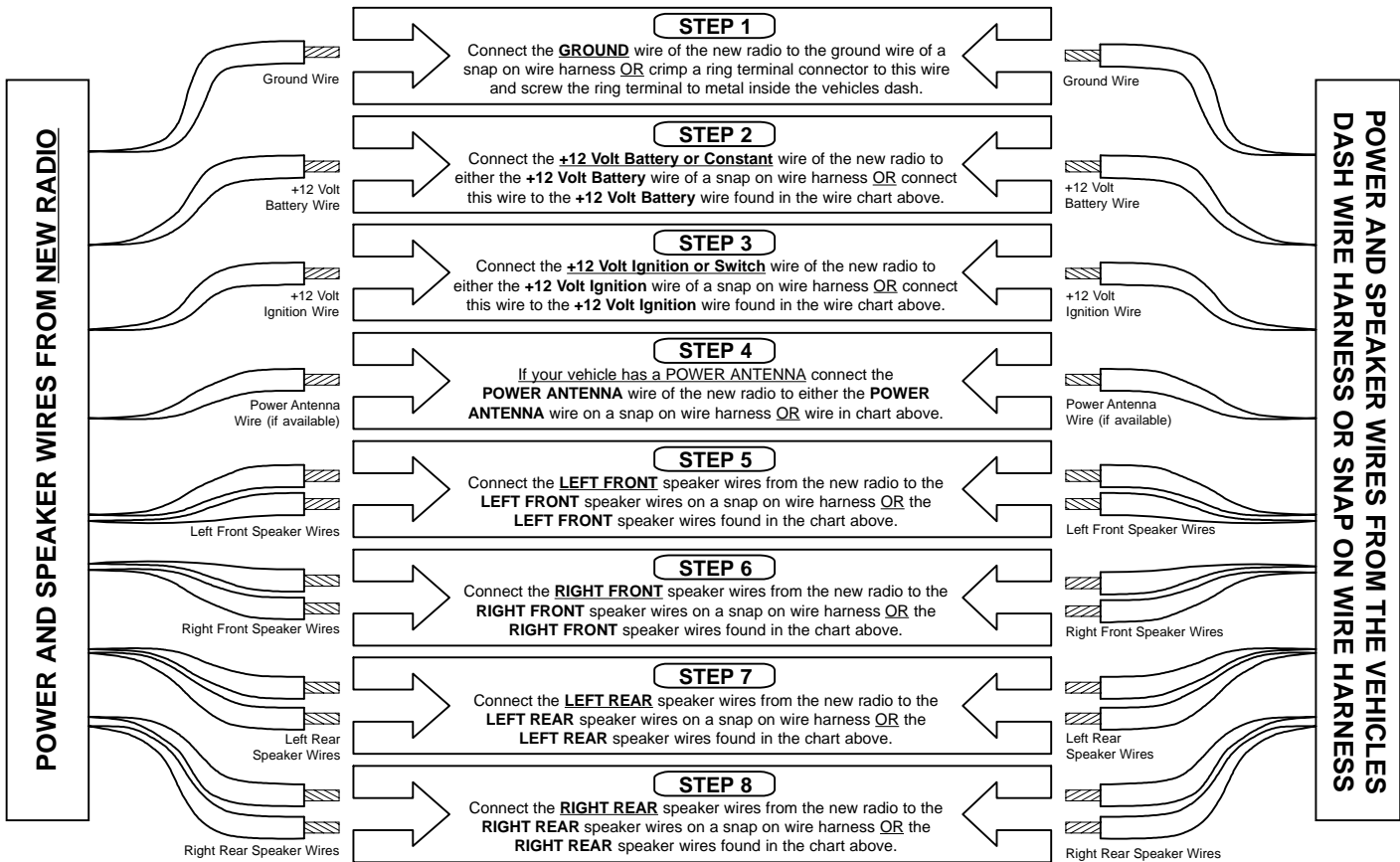
(Note: the radio shown is for display purposes and may not be similar in size or dimensions than the auto makers factory radio in your vehicle)

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

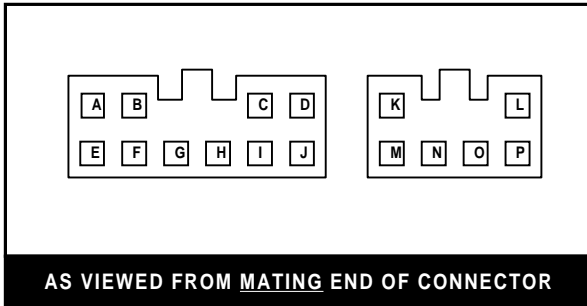
Wiring Instructions:

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.



▶ Radio Wire & Color Code Information

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



Pin	What It Is	Typical Toyota In Dash Wire Color	Typical New Radio Equivalent Wire Color
A	Right Front Speaker (+)	Green	Gray
B	Left Front Speaker (+)	Pink	White
C	+12 Volt Ignition Wire	Gray	Red
D	+12 Volt Battery Wire	Blue w/ Yellow Stripe	Yellow
E	Right Front Speaker (-)	Blue	Gray w/ Black Stripe
F	Left Front Speaker (-)	Purple	White w/ Black Stripe
G	Ground Wire	Black	Black
H	Power Antenna Wire 1		Blue (join wires 1 & 2
I	Power Antenna Wire 2		together to this blue wire)
J		Do Not Use	
K	Right Rear Speaker (+)	Red	Purple
L	Left Rear Speaker (+)	Black	Green
M	Right Rear Speaker (-)	White	Purple w/ Black Stripe
N		Do Not Use	
O		Do Not Use	
P	Left Rear Speaker (-)	Yellow	Green 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. **

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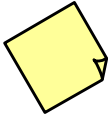
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NOTE:

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.

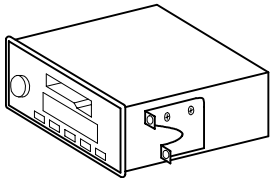
This method is called **“ISO” mounting a radio**. “ISO” mounting a radio has become a very common installation method for mounting new replacement radios. In order to “ISO” mount your radio, three things must exist:

- 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

1

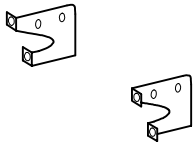


Auto makers original radio with metal brackets attached to the radio

Remove the auto makers factory radio from the vehicle. Remove the screws/bolts securing the radio to the brackets.

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.

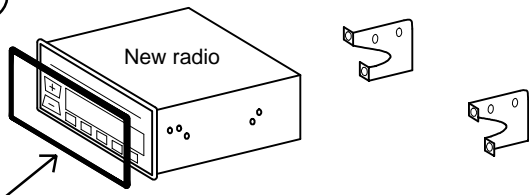
2



Remove the auto makers factory radio, but leave the brackets.

Tip: Before removing the brackets, carefully look at where the brackets attach to the radio. The brackets will attach to the new radio in exactly the same location and orientation.

3

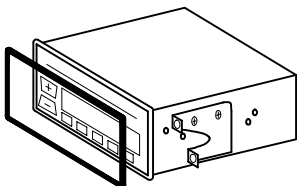


New radios removable trim ring surround the face of the radio

On the side of the new ‘DIN’ radio should be predrilled 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 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 new radio. This trim ring will most likely prevent the vehicles dash panel from securing properly back onto the dash.

4



New radio attached to the brackets originally attached to the factory radio

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

As stated above, the brackets should attach to the new radio in the exact same spot on the new radio. If you have problems aligning the brackets to the new radio, reattach the brackets back onto the auto makers factory radio to see where and how the brackets attach to that radio, then transfer that bracket to the new radio and the holes on the side of the new radio.