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Before  
You Begin

Remove  
& Install

Wire  
New Radio

Mount  
New Radio

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## Factory Radio



## 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  
02/2000 Photo Update

## 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

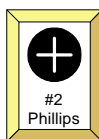
## Parts Needed For This Radio Install

Parts REQUIRED for the install	Description
Snap on in dash wire harness	Toyota wire harness

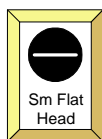
### Optional parts for this install

None

## Tools Needed To Complete This Install

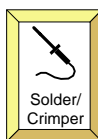


#2  
Phillips

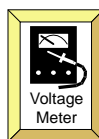


Sm Flat  
Head

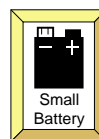
Hand tools needed  
to remove radio



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

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

**Installation Note:** This vehicle may have an external amplifier powering the speakers, not the amplifier inside the radio. This can create problems when installing a new replacement radio. There are several different methods of installing a new radio into this vehicle if there is an amplifier. If this vehicle does have an amplifier in the vehicle, The Install Doctor will show you the best method of dealing with the amplifier in the vehicle. This document shows you the extensive steps to remove the auto makers radio, find and bypass the amplifier in the vehicle if it exists, and then connect and mount the new replacement radio. This document will show you how to look for and verify if your vehicle has an amplifier.

## ► Remove Factory Radio



### STEP 1:

Insert the tip of a small flat head screwdriver between the plastic dash panel surrounding the gear shift area and the body of the center dash. Gently pry the plastic dash panel up to unsnap it from the body of the center dash. With your hands pull the plastic dash panel and unsnap it completely from the body of the center dash assembly. Set the plastic dash panel aside away from the dash.



### STEP 2:

Hidden behind the plastic dash panel just removed are two (2) phillips screws securing the bottom of the plastic dash panel surrounding the radio and air conditioner controls. Locate and remove both phillips screws.

### STEP 3:

Once the screws securing the bottom of the dash panel have been removed, the top of the plastic dash panel can then be unsnapped from the dash. With your hands, gently pull the dash panel until it unsnaps completely from the dash. Pull the plastic dash panel and move it aside. There will be wires and connectors attached to the rear of the plastic dash panel. You do NOT need to disconnect these connectors. As seen in the photo above, there will be enough slack in the wires to allow you to pull the dash panel and set it off to the side, away from the radio.

The radio and the screws securing the radio should now be visible. The radio and pocket below the radio are attached together by metal brackets on each side of the radio. Locate and remove four (4) phillips screws securing the brackets attached to the sides of the radio/pocket assembly. Pull the radio/pocket assembly to remove it from the dash.

Unplug the antenna cable from the rear of the radio. Disconnect 2 white connectors from the rear of the radio. The radio/pocket assembly can now be completely removed from the dash.

## How To Check To See If Your Vehicle Has An Amplifier

Vehicle with amp



Vehicle without amp



Once the plastic dash panel has been removed, look below the air conditioner controls for a silver colored metal box (as seen in the photo). If there is a box below the air conditioner controls, there is an amplifier in the vehicle. If there is no box, you do not have an amplifier in the vehicle.

If you do have an amplifier, read the Installation Note below. The wires needed to connect the new radio are located below the amplifiers box.

If you do NOT have an amplifier, the wires needed to connect the new radio are the wires disconnected from the auto makers factory radio.

**Installation Note:** If your vehicle does have an amplifier, The Install Doctor recommends disconnecting the amplifier and use the amplifier inside the new radio to power the speakers in your vehicle. Since the amplifier is located below the radio, you can unplug the connectors at the amplifier and route the wires up to the radio. These wires can then be used to connect the new radio.



Located directly under the amplifier box is a blue plastic connector (you will not be able to see the blue connector but you can reach under the amplifier and pull the connector forward so you can see it as we did in the photo). Connected to the blue connector are 2 white connectors which are actually the connectors of the radios wire harness. In a vehicle without the amplifier, these 2 white connectors would be plugged into the rear of the auto makers radio. When the amplifier is added, these 2 white connectors are routed down to the amplifier and snap into the blue connector under the amplifier.

There is very little slack in the wires connected to the blue plastic connector so you will have very little room in which to unplug the 2 white connectors from the blue plastic connector. Unplug both white connectors and pull the wire harness bundles attached to the connectors and route the connectors to the left of the amplifier, up to the radio where these 2 white connectors will be used to connect to the new radio (adding a snap on wire harness as shown in the **“Wire New Radio”** section is strongly recommended)

### ► Wiring The New Radio

Move to: **Wire New Radio** Section

Regardless whether you have a standard radio or had an amplifier in the vehicle, the wiring steps shown on the following pages are the same. If you did have an amplifier, disconnecting the white connectors from the blue connector below the amplifier converted your vehicle back to the same wiring as the standard radios wiring.

### ► 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:

The radio is secured to the brackets of the radio/pocket assembly with four (4) phillips screws / 8mm bolts, 2 on each side of the radio.

Remove all 4 screws and pull the radio out of the brackets.

**NOTE:** notice that the face of the radio is flush or level with the pocket below it. This is important to remember when mounting the new radio in latter steps.



### STEP 2:

The new replacement radio can be inserted into the brackets in the same location that the auto makers factory radio was mounted.

This information is shown in more detail in the "**Mount New Radio**" section at the end of this document.

### If Your Toyota Radio Had The Toyota CD Player Option Installed Below The Radio Instead Of A Pocket/Tray:

This Toyota CD player will not work when installing a new radio. The Install Doctor **STRONGLY** recommends that you remove the Toyota CD player below the radio and convert the opening to a pocket.

You can purchase a pocket from a Toyota dealership or you can purchase a radio installation kit pocket from an installation shop which is the equivalent to a Toyota pocket.

Converting the opening over to using a pocket is the best method to install a new radio into this vehicle.



### STEP 3:

Plug the antenna cable into the rear of the new radio. Make sure all wire connections to the new radio have been completed and plug in any connectors to the rear of the new radio.

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



### STEP 4:

Reattach the plastic dash panel that surrounds the radio and air conditioner controls. Secure the bottom of the plastic dash panel with the same 2 screws that had originally secured the bottom of the panel. Reattach the lower plastic dash panel that surrounds the gear shift.

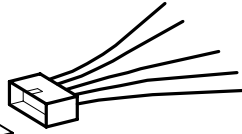
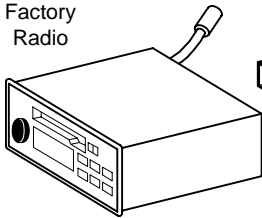
**The Installation Is Now Complete**

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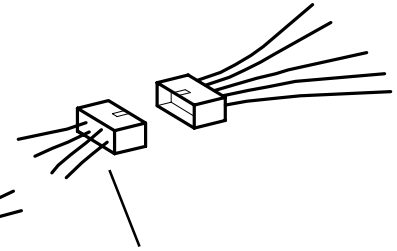
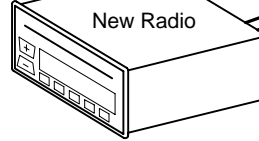
## Step By Step Wiring

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

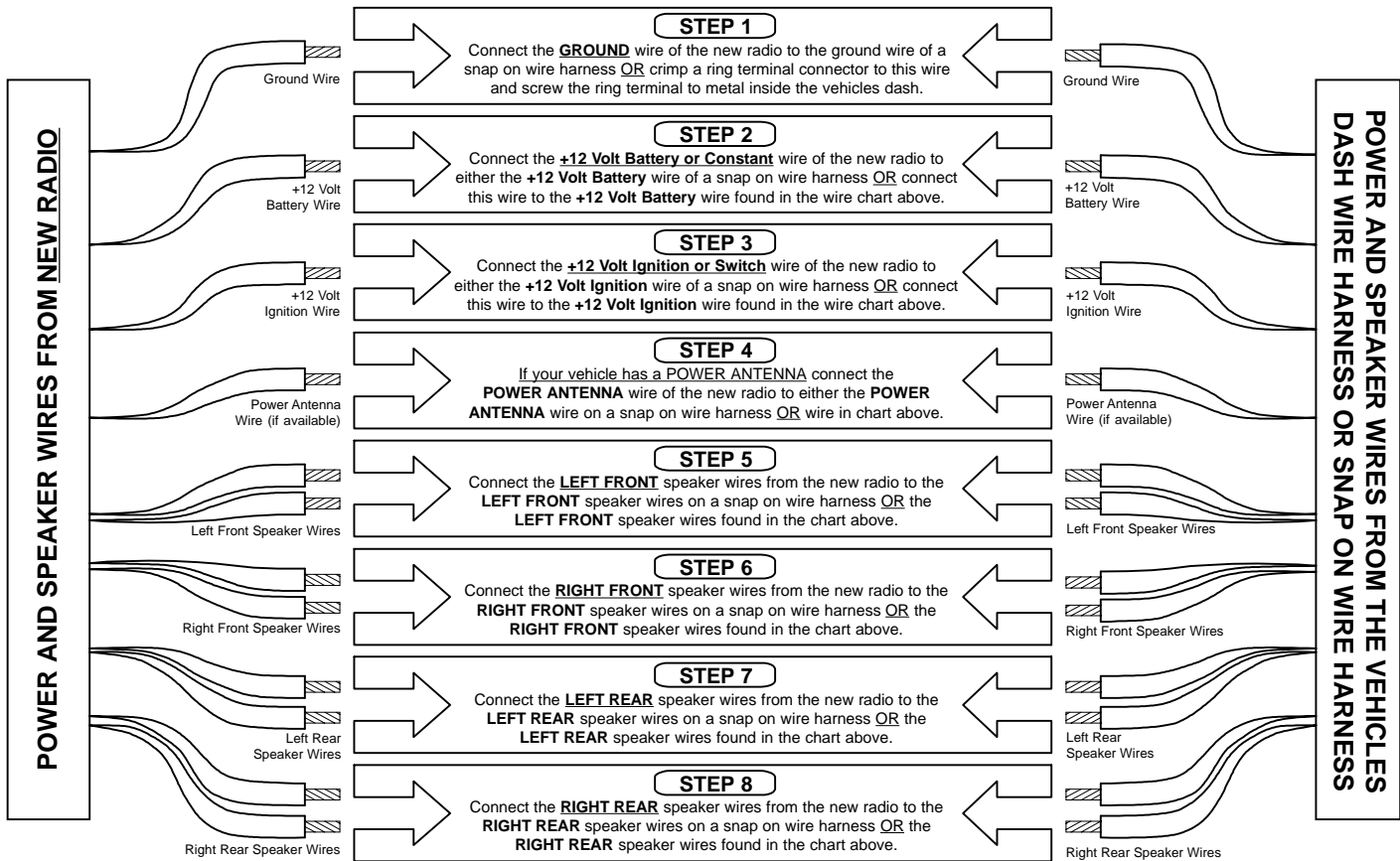
(Note: the radio shown is for display purposes and may not be similar in size or dimensions than the auto makers factory radio in your vehicle)

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

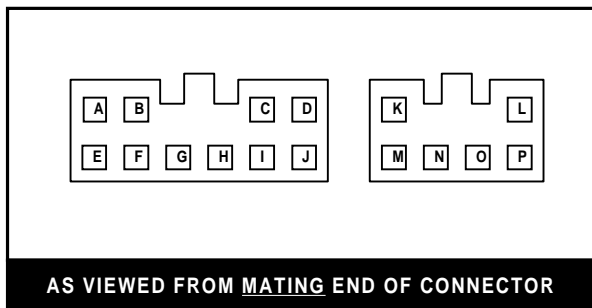
## Wiring Instructions:

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.



## ▶ 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		<b>Do Not Use</b>	
K	Right Rear Speaker (+)	Red	Purple
L	Left Rear Speaker (+)	Black	Green
M	Right Rear Speaker (-)	White	Purple w/ Black Stripe
N		<b>Do Not Use</b>	
O		<b>Do Not Use</b>	
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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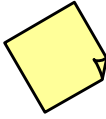
Before  
You Begin

Remove  
& Install

Wire  
New Radio

Mount  
New Radio

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### NOTE:

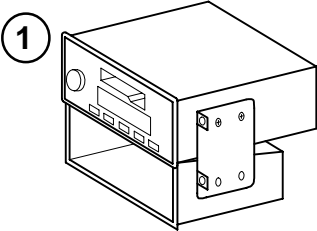
**Before you begin:** The best method to mount a new radio in this vehicle is to unscrew the auto makers factory radio from the brackets attached to the radio and screw the new radio into the brackets just as the factory radio was. This keeps the vehicle looking as stock from the factory as possible 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 new replacement radio. 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 pre-drilled into the side of the radio to allow the radio to be 'ISO' mounted
- 3) The radio must have a removable trim ring surrounding the face of the radio

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:

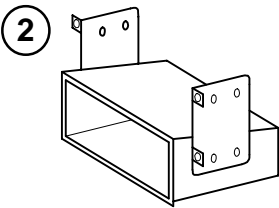
Document Title	Document #
Why use radio installation kits	999005
Mounting your radio to an installation kit	999007
Radio security	999010



Auto makers original radio with attached pocket below the radio

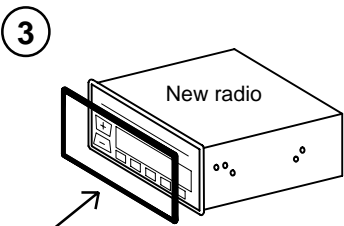
1 Remove the auto makers factory radio/pocket assembly from the vehicle. Remove the screws/bolts securing the radio to the brackets which are also attached to the sides of the pocket below the radio.

**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 phillips screwdriver into the phillips screws and firmly tap with a hammer to "break" the tension bond between the phillips screws and the metal chassis of the auto makers factory radio. Then attempt to unscrew the phillips screws.

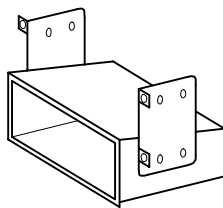


2 Remove the auto makers factory radio, but leave the brackets attached to the pocket.

**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.

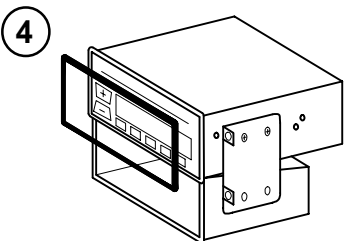


New radios removeable trim ring surround the face of the radio

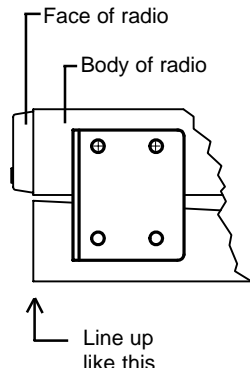


On the side of the new 'DIN' radio should be pre-drilled holes to allow you to 'ISO' mount the new radio into the brackets. Most car radio manufacturers design their radios with many holes on the side of the radio so the radio can be mounted to many different kinds of bracket/pocket configurations.

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



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 (or even faces that detach from the body). 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.

(if the radio does have a detachable face, and the front of the detachable face is lined up with the pocket there will be a large gap when the face is detached from the body. If the body is lined up with the pocket and the face is detached, the body will still be lined up with the pocket and there will be no gap.)