

Click on a link  
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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

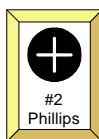
## Parts Needed For This Radio Install

Parts REQUIRED for the install	Description
Snap on wire harness adapter	Toyota 87 and newer harness
Kit Pocket below radio for Toyota radios which had an optional CD player mounted below the original Toyota radio (read instructions first)	

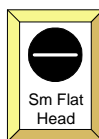
### Optional parts for this install

None

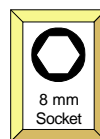
## Tools Needed To Complete This Install



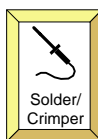
#2  
Phillips



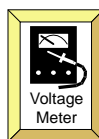
Sm Flat  
Head



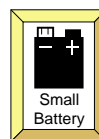
8 mm  
Socket



Solder/  
Crimper



Voltage  
Meter



Small  
Battery



### 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.

Hand tools needed  
to remove radio

Accessory tools needed to test and  
wire the new radio

**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:

With your hands, gently lift up and unsnap the plastic panel surrounding the gear shift area.



### STEP 1:

Once the plastic panel has been removed, locate and remove two (2) phillips screws at the very bottom of the ashtray/cigarette lighter area that were originally hidden underneath the plastic panel just removed.



### STEP 3:

The dash panel surrounding the radio can now be removed.

**WARNING:** Unsnap the TOP of the plastic panel first, as seen in the photo above. If you try to pull of the dash panel by starting at the bottom, the top of the plastic dash panel may crack.

To unsnap the top of the plastic dash panel, insert a flat head screwdriver above the top of the plastic panel in order to grab it with your hands.



### STEP 4:

The radio is secured to the pocket/optional CD player below the radio by metal brackets on each side of the radio. These metal brackets also secure the radio/pocket assembly to the dash. Locate and remove four (4) 8mm bolts / phillips screws that secure the brackets to the dash.



### STEP 5:

Pull the radio/pocket assembly out of the dash. Unplug the black cable plugged into the rear of the radio. Unplug 2 white plastic wire harness connectors plugged into the rear of the radio.

Move to the **"Wire New Radio Section"**.

## ► Wiring The New Radio

Move to: **Wire New Radio** Section

## ► Mounting The Radio

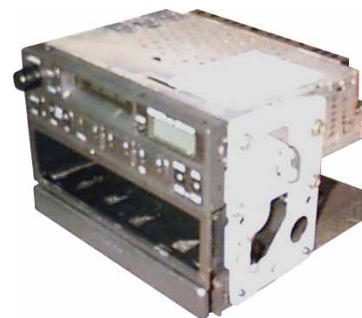
Move to: **Mounting New Radio** Section

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.

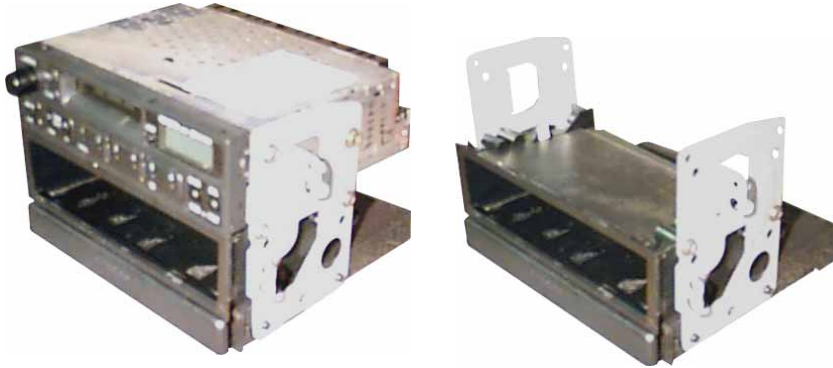
Toyota radio with optional  
Toyota CD player below radio



Standard Toyota radio with  
pocket/tray below radio



## ▶ 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.

**Installation TIP:** If your vehicle had the optional Toyota CD player mounted below the Toyota radio instead of a pocket/tray The Install Doctor STRONGLY recommends removing the CD player and mounting either a Toyota pocket or optional kit pocket below the radio. Toyota pockets can be purchased at a local Toyota dealership and the optional kit pocket can be purchased from a local car stereo installation shop.



### 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.



### STEP 3:

Insert and mount the radio/pocket assembly back into the dash. Plug the antenna cable into the rear of the new radio. Make sure all power and speaker wire connections to the new radio have been completed and all connectors for the new radio have been plugged in.

Secure the metal brackets securing the radio/pocket assembly with the same 4 screws that had originally secured the original radio.



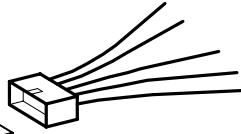
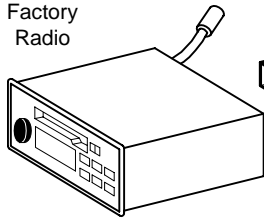
### STEP 4:

Reattach the plastic dash panel back onto the main dash.

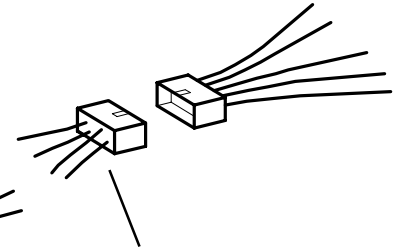
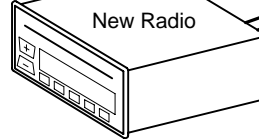
## The Installation Is Now Complete

## 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

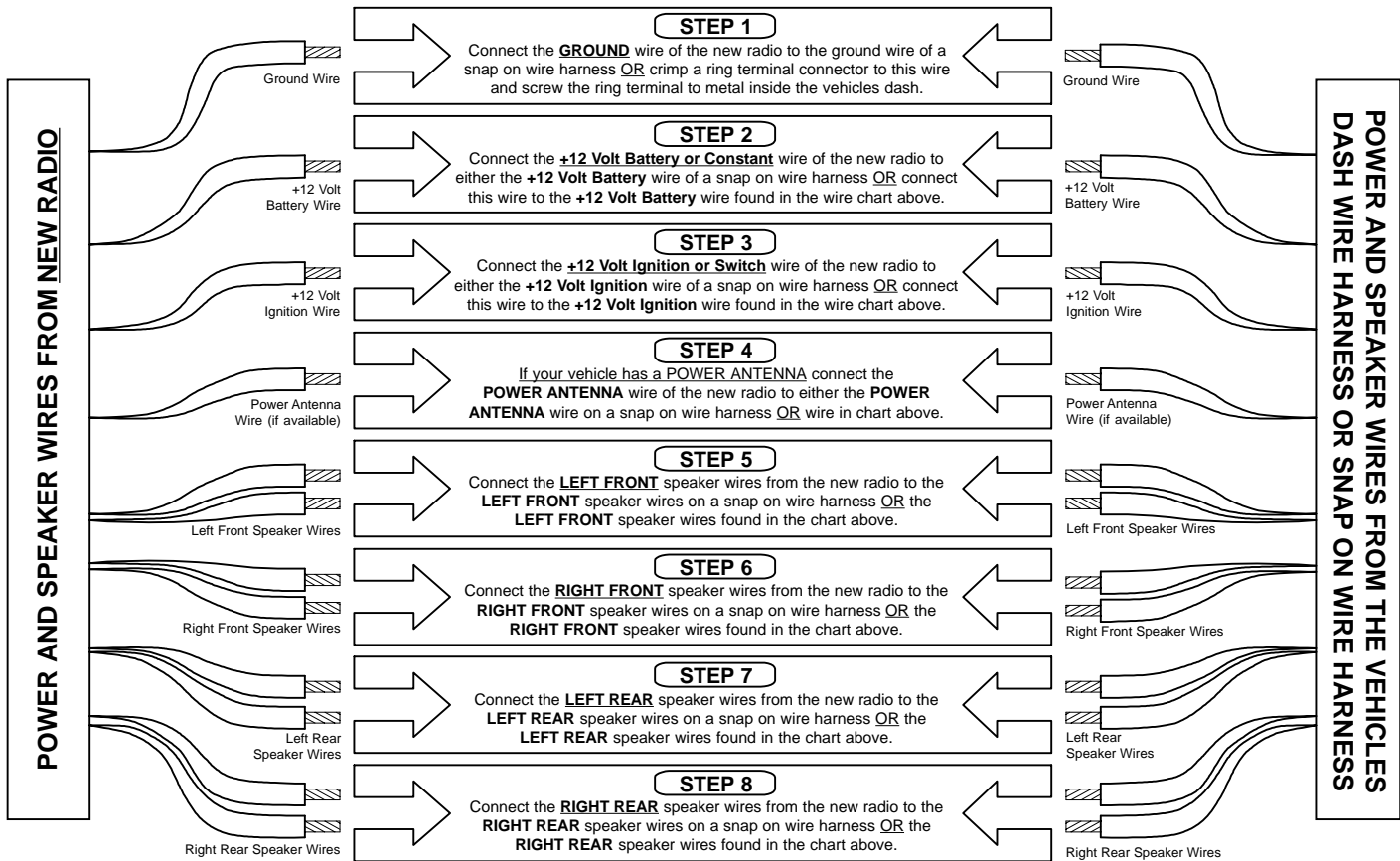
(Note: the radio shown is for display purposes and may not be similar in size or dimensions than the auto makers factory radio in your vehicle)

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

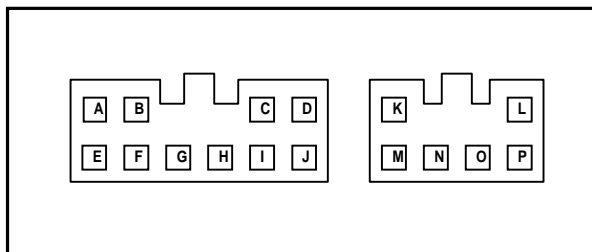
## Wiring Instructions:

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

## Page 2 of 2



AS VIEWED FROM MATING END OF CONNECTOR

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 together to this blue wire)
I	Power Antenna Wire 2		
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. \*\*

### Your Celica May Have A Hidden Toyota Amplifier Inside The Vehicle:

#### A Note About "Integrating" The New Replacement Radio Into The Toyota Amplifier:

(even if you dont know if your vehicle has an amplifier, the wiring is exactly the same)

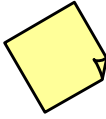
Pins 'H' and 'I' in the wire harness connector shown above typically control the vehicles power antenna. For vehicles with a Toyota amplifier in the vehicle, these 2 wires will also control the turning on/off of the amplifier when the radio turns on/off.

However, there is a certain problem with the design of some aftermarket radios. Most new radio manufacturers design their radios with a single "**remote on**" wire (blue or blue with a white stripe) also referred to as a "power antenna" wire. This wire is designed as a multi function wire that can be used to turn on/off either a power antenna or turn on/off an amplifier in the vehicle. BUT, some new radios have MULTIPLE "remote on" wires. These multiple remote on wires are dedicated specifically to a particular function: one wire is for a power antenna only, whereas a second wire may be used to turn on/off an amplifier only. These wires will be individually labeled noting what each wires function is.

**Why is this important?** If you are installing a new radio with multiple "remote on" wires you will need to choose the correct wire to connect to the power antenna wires (Pins 'H' and 'I') in the wire harness shown above.

If your new radio has multiple "remote on" wires and you connect the "power antenna only" remote on wire to Pins 'H' and 'I' the Toyota amplifier in the vehicle will turn on ONLY when the AM/FM radio is turned on (the radio will only turn on/off the power antenna through the "power antenna only" remote on wire when the AM/FM radio is turned on.) BUT, if you connect the new radios "amplifier only" remote on wire to Pins 'H' and 'I' the Toyota amplifier will operate all the time: radio, cassette, CD, etc. This "amplifier only" remote on wire operates during the entire time the new radio is in operation. The "power antenna only" remote on wire only operates while the AM/FM radio is turned on.

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**NOTE:**

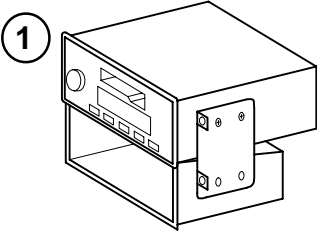
**Before you begin:** The best method to mount a new radio in this vehicle is to unscrew the auto makers factory radio from the brackets attached to the radio and screw the new radio into the brackets just as the factory radio was. This keeps the vehicle looking as stock from the factory as possible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

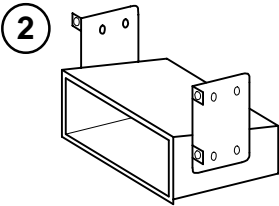
Document Title	Document #
Why use radio installation kits	999005
Mounting your radio to an installation kit	999007
Radio security	999010



Auto makers original radio with attached pocket below the radio

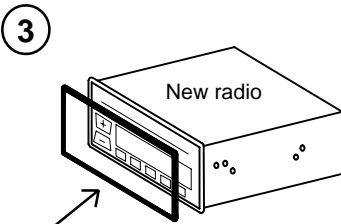
1 Remove the auto makers factory radio/pocket assembly from the vehicle. Remove the screws/bolts securing the radio to the brackets which are also attached to the sides of the pocket below the radio.

**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.

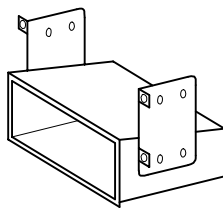


2 Remove the auto makers factory radio, but leave the brackets attached to the pocket.

**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.

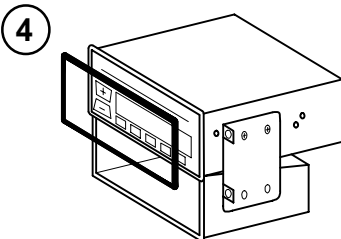


New radios removeable trim ring surround the face of the radio

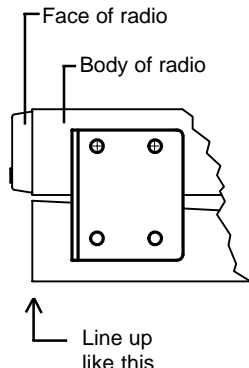


On the side of the new 'DIN' radio should be pre-drilled holes to allow you to 'ISO' mount the new radio into the brackets. Most car radio manufacturers design their radios with many holes on the side of the radio so the radio can be mounted to many different kinds of bracket/pocket configurations.

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.)