

Radio Replacement

Document #: 890001

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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 additional documnets 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**

- 01/2000 Document Creation  
02/2000 Radio Removal Updated

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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

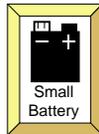
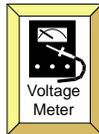
Parts REQUIRED for the install	Description
Snap on wire harness adapter	VW 1987 to 1999 Wire Harness Adapter
VW Antenna Adapter	** see instructions for details

#### Optional parts for this install

"Shafted" radios need a radio installation kit for 'DIN' dash openings

### Tools Needed To Complete This Install

VW Radio Removal  
"Tool" or "Keys"  
(See Instructions for a  
detailed description)



#### 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:

The Volkswagen radio is snapped into the vehicle's dash. These snaps are attached to each side of the radio and need to be pushed inward toward the radio to allow the radio to slide forward out of the dash. You will have to insert a very thin, yet strong piece of metal into the vertical rectangular holes on each side of the radio. Slide the metal keys into the holes then pull the radio forward out of the dash. You can call a local VW dealer and ask for these radio removal tools or keys.

**For more information on how to remove the radio, see the diagram below.**



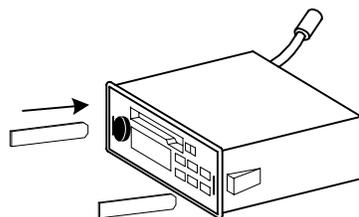
### STEP 2:

Pull the radio from the dash. Unplug the antenna cable from the rear of the radio. Unplug the black and brown wire harness connectors from the rear of the radio.

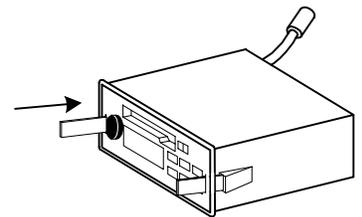
## Removing VW Radios Using Thin, Flat Removal Keys

Insert the thin, flat keys into the vertical slots as shown in the diagram.

The metal must be very thin (approximately 1/32" to 1/16" thick) or it will not fit into the vertical opening.



In order for the radio to be removed, clips attached to the side of the radio must be moved inward so the radio can slide out of the dash. Inserting the keys will automatically push the clips towards the radio. When the keys are firmly inserted, grab the radio and pull it forward out of the dash.



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► **Wiring The New Radio**

Move to: **Wire New Radio Section**

► **Mounting The Radio**

Move to: **Mounting New Radio Section**



Volkswagon Antenna Cable  
which will not fit the new radios  
antenna cable plug.



Standard antenna cable and  
connector needed for the new radio

You will need to purchase a "VW  
antenna adapter" when installing a new  
radio into this vehicle.

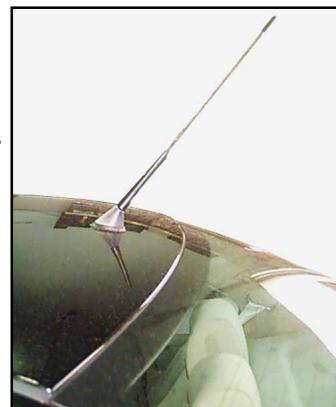
As seen in the diagram to the left, the  
VW antenna cable connector is  
completely different than the antenna  
cable connector for the new radio. If  
you do NOT have a roof mount antenna,  
you will need the "basic" "VW antenna  
adapter". If you have a roof mount  
antenna, please read below.

**NOTE:**

Does your VW have a roof mount antenna?  
These roof mount antennas are traditionally  
"amplified" antennas with built in electronics  
to amplify the antenna reception. This poses  
problems when installing a new radio.

You will need to purchase a specialty VW  
antenna adapter designed for VW amplified  
antennas. These antenna adapters have  
built in electronics to the rear of the adapter  
to "turn on" VW amplified antenna.

In the diagram below, you will notice a small  
wire attached to the antenna adapter. This  
wire is a power wire that must be connected  
to (+) 12 Volts to activate the VW roof mounted amplified antenna. For best  
results, connect this wire to the new radios "power antenna" wire or "remote  
on" wire.



Antenna adapter style needed for VW vehicles with  
"powered" antennas (usually roof mount antennas)

## ▶ Completing The Radio Installation



**STEP 1:**

For 'DIN' radios: slide the 'DIN' sleeve into the hole in the vehicles dash. Secure the sleeve by bending the tabs on the sleeve behind the plastic of the dash.

For 'shafted' radios: mount the shafted radio to the radio installation kit. Slide the kit/radio assembly into the hole in the dash. Depending upon the type and style of installation kit you will need to secure the kit to the vehicles dash. The installation kit should have instructions detailing how that particular kit should be secured into the a vehicles dash. The kit may simply snap into the opening in the dash, or there may be small tabs on each side that need to be pushed outward to secure the kit more firmly to the dash.



**STEP 2:**

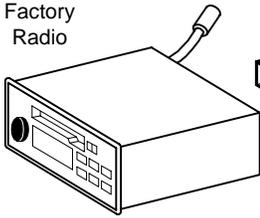
Plug the black antenna cable into the rear of the new radio. Make sure the power and speaker wire connections for the new radio have been completed and all connectors to the new radio have been plugged into the rear of the new radio. Slide the radio into the 'DIN' sleeve.

**The installation is now complete.**

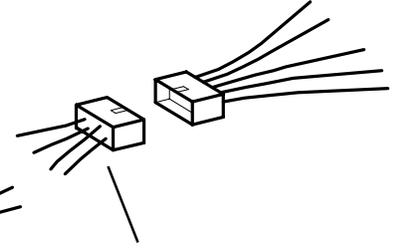
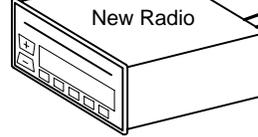


► **Step By Step Wiring**

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

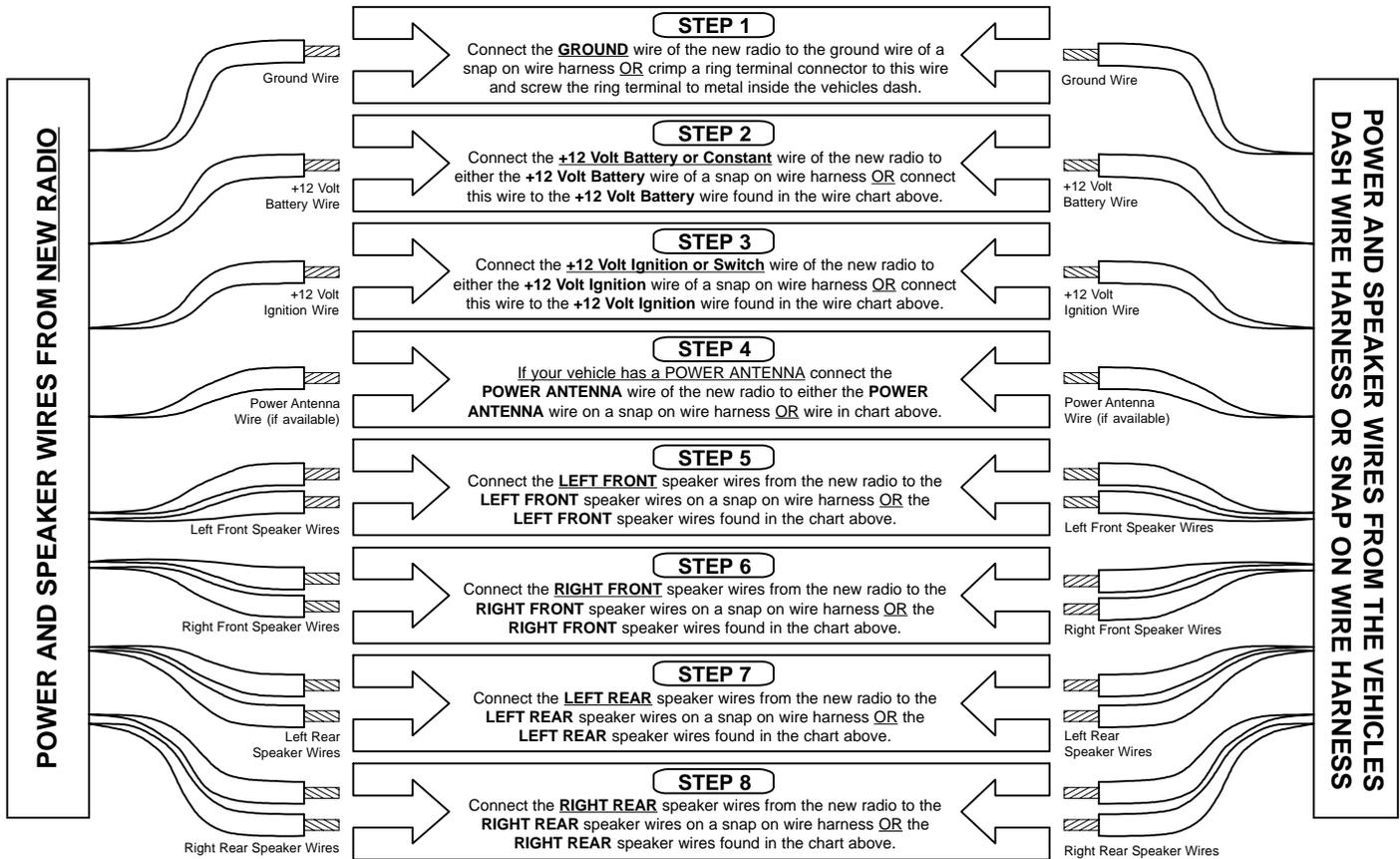
(Note: the radio shown is for display purposes and may not be similar in size or dimensions than the auto makers factory radio in your vehicle)

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:**

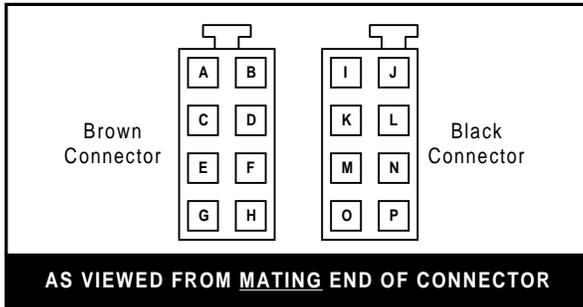
The power and speaker wires needed to connect the new radio are attached to the connector of the wire harness located inside the vehicles dash. The Install Doctor **STRONGLY** recommends using an optional snap on wire harness that is specifically designed to snap into the vehicles dash wire harness connector. 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.



Volkswagens with roof mount antennas need a special VW antenna adapter. Connect the power turn on wire of the antenna adapter to the new radios blue "power antenna" or "remote turn on" wire. **\*\* See the previous pages regarding this issue.**

▶ Radio Wire & Color Code Information

This vehicle uses has a 2 pc wire harness.



Pin	What It Is	Typical VW In Dash Wire Color	Typical New Radio Equivalent Wire Color
A	Right Rear Speaker (+)	Blue	Purple
B	Right Rear Speaker (-)	Tan w/ Blue Stripe	Purple w/ Black Stripe
C	Right Front Speaker (+)	Red	Gray
D	Right Front Speaker (-)	Tan w/ Red Stripe	Gray w/ Black Stripe
E	Left Front Speaker (+)	Blue w/ White Stripe	White
F	Left Front Speaker (-)	Tan w/ White Stripe	White w/ Black Stripe\
G	Left Rear Speaker (+)	Red w/ Green Stripe	Green
H	Left Rear Speaker (-)	Tan w/ Green Stripe	Green w/ Black Stripe
I	<b>Do Not Use</b>		
J	<b>Do Not Use</b>		
K	VW Amp Turn On Wire - Connect To New Radios	Blue	Blue Power Antenna Wire
L	+12 Volt Ignition Wire	Yellow w/ Red Stripe	Red
M	Power Antenna Turn On Wire - Connect To New Radios	Blue	Blue Power Antenna Wire
N	Dash Light Dimmer Wire	Gray w/ Blue Stripe	check for availability
O	+12 Volt Battery Wire	Thick Red w/ White Stripe	Yellow
P	Ground Wire	Thick Tan Wire	Black

**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 Ford vehicles 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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► **Mounting A Radio**

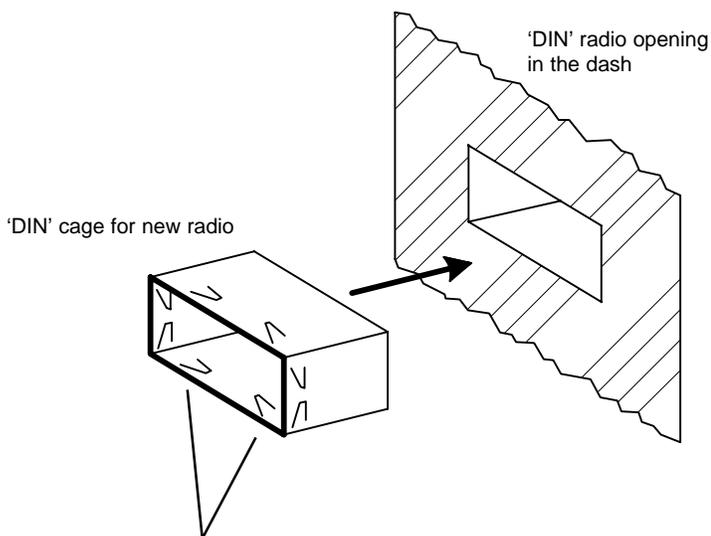


**NOTE:**

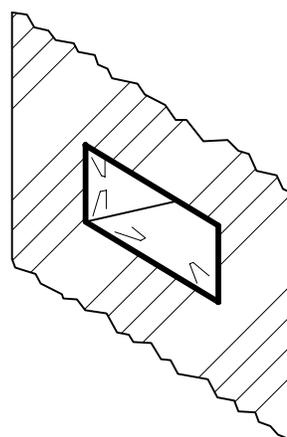
This vehicle does not require using a dash installation kit to mount a 'DIN' style radio. If you are installing a shafted radio, you will need a radio installation kit that converts the rectangular opening to mount the shafted radio.

All information needed to complete the mounting of the new radio to the vehicles dash 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
'DIN' vs. Shafted radio - differences with	999006



When 'DIN' cage is inserted into the 'DIN' rectangular opening in the dash, bend these tabs behind the opening in the dash to secure the 'DIN' cage to the dash.



New radios 'DIN' cage slid into the 'DIN' opening of the dash with its tabs bent securing the cage to the dash.

The radio can now be slid into the 'DIN' cage which will snap to the radio securing the radio in place.