

Radio Replacement

Document #: 890005

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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

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

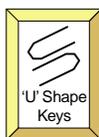
► Parts Needed For This Radio Install

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

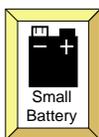
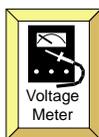
Optional parts for this install

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

► Tools Needed To Complete This Install



OR
Coat Hanger



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 vehicles dash. With the proper tool, known as VW radio removal keys, the VW radio can be pulled forward out of the dash. A clothes hanger can be used instead of actual VW radio removal keys. Cut the clothes hanger and bend 2 pieces in the shape as shown in the photos above.

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

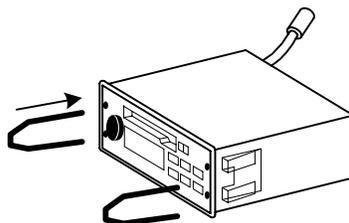


STEP 2:

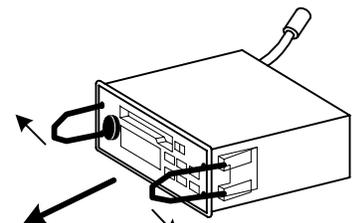
Pull the radio from the dash. Unplug the antenna cable from the rear of the radio. Unplug the black and brown wire harness connectors from the rear of the radio.

Removing VW Radios Using "U" Shaped Removal Keys

Insert the "U" shaped keys into the holes as shown in the diagram. Coat hangers can be cut and bent into shape for a quick, cheap replacement or alternative when VW keys are not available.



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. Insert the keys and push each key out, away from the radio. The ends of the keys will press into the clips. While pushing the keys outward, pull and the radio should slide 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.

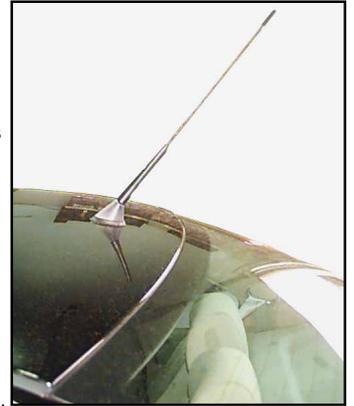
As seen in the diagram to the left, the
VW antenna cable connector is
completely different than the antenna
cable connector for the new radio. If
you do NOT have a roof mount antenna,
you will need the "basic" "VW antenna
adapter". If you have a roof mount
antenna, please read below.

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.



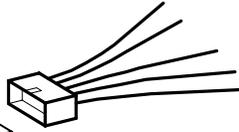
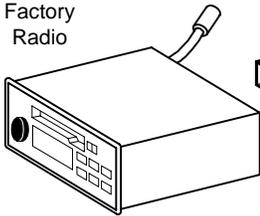
STEP 2:

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.

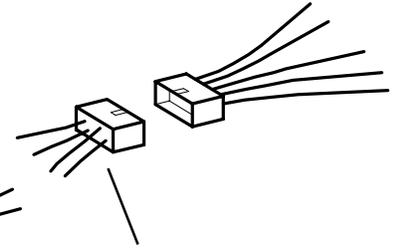
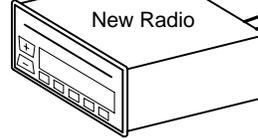
The installation is now complete.

► **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

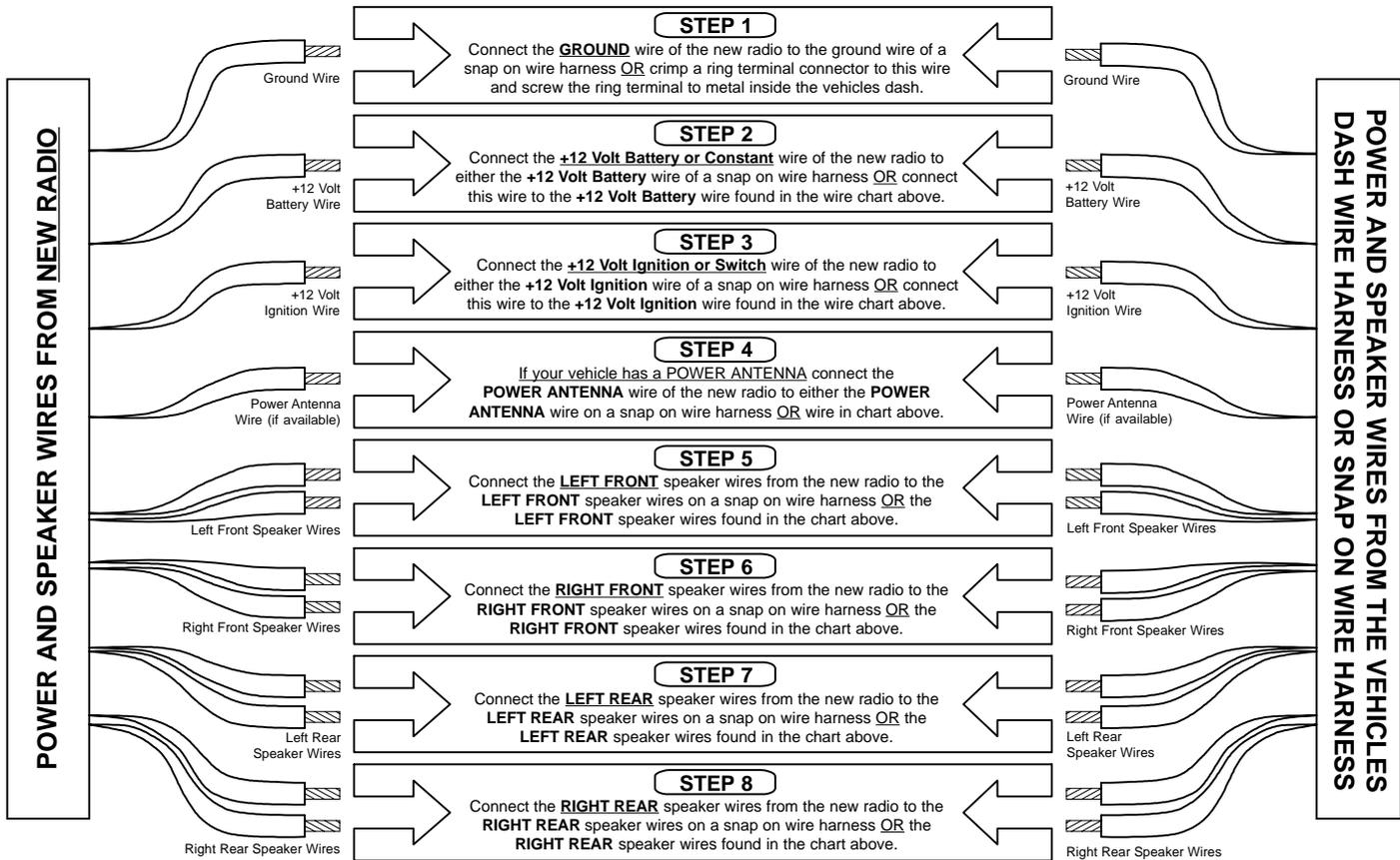
(Note: the radio shown is for display purposes and may not be similar in size or dimensions than the auto makers factory radio in your vehicle)

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:

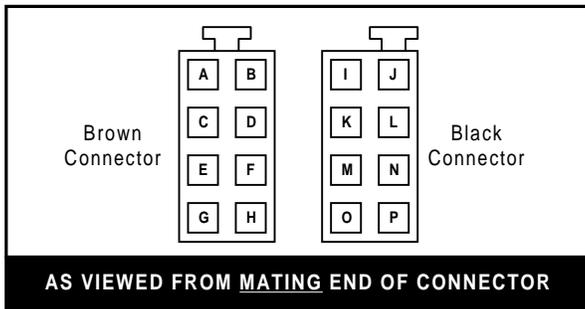
The power and speaker wires needed to connect the new radio are attached to the connector of the wire harness located inside the vehicles dash. The Install Doctor **STRONGLY** recommends using an optional snap on wire harness that is specifically designed to snap into the vehicles dash wire harness connector. 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 w/ Green Stripe	Purple
B	Right Rear Speaker (-)	Brown w/ Red Stripe	Purple w/ Black Stripe
C	Right Front Speaker (+)	Red w/ White Stripe	Gray
D	Right Front Speaker (-)	Brown w/ White Stripe	Gray w/ Black Stripe
E	Left Front Speaker (+)	Black	White
F	Left Front Speaker (-)	Brown w/ Blue Stripe	White w/ Black Stripe\
G	Left Rear Speaker (+)	Blue w/ Green Stripe	Green
H	Left Rear Speaker (-)	Brown w/ Red Stripe	Green w/ Black Stripe
I		Do Not Use	
J		Do Not Use	
K		Do Not Use	
L	+12 Volt Ignition Wire	Brown w/ Red Stripe	Red
M		Do Not Use	
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 Brown 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**

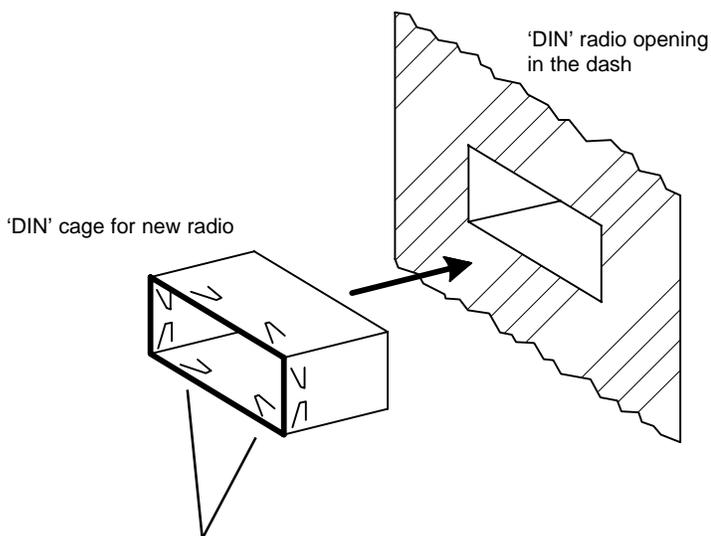


NOTE:

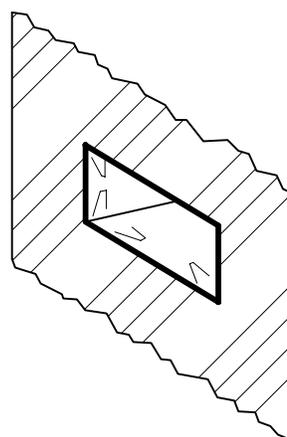
This vehicle does not require using a dash installation kit to mount a 'DIN' style radio. If you are installing a shafted radio, you will need a radio installation kit that converts the rectangular opening to mount the shafted radio.

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.