



## Instructions Specifically Developed for Installation by Dealer Technicians

<b>Description:</b>	<b>iPod Adapter Premium 7 plus (Satellite Radio equipped vehicles only) MY 2005-2009</b>
<b>Part Number:</b>	<b>1K0 051 510 A</b>
<b>Fitment:</b>	<b>PASSAT 2005.5+ (w/ premium 7 radios)</b>
<b>Quantity:</b>	<b>1 each</b>
<b>Supplier:</b>	<b>Volkswagen Genuine Accessories</b>
<b>Publish Date:</b>	<b>July 17, 2009</b>

### **Note:**

- Before starting, make sure painted and trim surfaces are protected to avoid scratching during installation process of the items. Use proper surface protection covers and work attire that are free of dirt and grease.
- A competent workshop should install the Original iPod adapter. Special tools and accompanying literature specific to the car are required for fitting it. Incorrect fitting may lead to damage to the vehicle or adapter.
- The Original iPod adapter is intended to be connected to VW original satellite radios.
- You can fit this iPod adapter with satellite radio only. It is not possible to operate both systems at the same time.
- The following procedure shows the work steps on a sample vehicle. They should be carried out similarly on all vehicles. The adapter box can be fit in place on the vehicle model.
- The work to be performed described in these fitting instructions may change due to model servicing schedules. For example, changes to the writing colors or even fitting sites should not be discounted. For this reason always consult the relevant up-to-date wiring diagram or the current vehicle repair manual.



## WARNING:

Read entire instructions thoroughly before starting

Improper installation procedures can cause serious personal injury.

- Installation should be performed only by a qualified technician.
- Read all instructions thoroughly before starting.
- Observe all safety precautions when working under a vehicle.
- Beware of sharp edges.
- Always wear safety glasses to help protect eyes.
- Always wear protective gear as gloves and use caution when using hand tools. Read entire instructions thoroughly before starting.

## iPod Components



**iPod adapter, iPod plug, Interface wire harness  
\*(iPod not included)**

## Tools Required for Installation





**Step #01** Remove instrument panel passenger side end cover



**Step #02** Remove the glove compartment (see dash removal)



**Step #03** Disconnect front and rear sill trim, kick panel and reposition to allow access under carpet



**Step #04** Fold down the passenger side rear seat.



**Step #05** Remove the 3 retainer pins located inside the trunk on the under side of the rear deck.



**Step #06** Remove the passenger side rear trunk liner panel and tray.

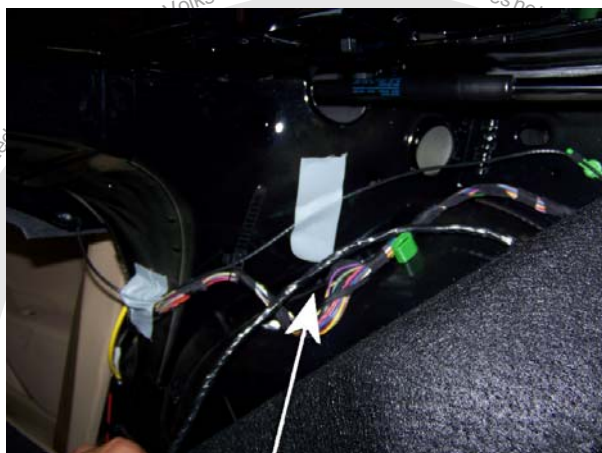




**Step #07** Remove the two black connectors from the satellite radio control module. Insert the matching connectors from the iPod harness into the satellite radio control module. Insert the connectors removed from the satellite radio control module into the matching connectors of the iPod harness. Secure the harness using a supplied wire tie.



**Step #08** Route the wire harness along the dotted line (behind the trunk liner) as indicated by the image above.



**Step #09** Pull the trunk liner back to expose the routed wire harness, and secure the harness with wire ties. Place the trunk liner back into place. Replace the passenger side rear trunk liner panel and tray.



**Step #10** Continue the wire harness around the trunk opening under the carpet. Route the harness in behind the rear passenger side seat support. Place the carpet back and replace the three retainers pins removed from the trunk liner.



**Step #11** Place the wire harness down under the carpet edge from the rear seat, down the side of the vehicle to the front kick panel.

**⚠️ Note:** Place the wire harness behind the seatbelt assembly. Failure to do so could result malfunction of the harness or seatbelt.



**Step #12** Carefully cut a slot in the passenger side kick panel matting (shown in the picture above) to allow for the wire harness to pass through the matting

**⚠️ Note:** Do not cut the wire harness under the matting. Lift the matting to make the cut.



**Step #13** Route the opposite end of the wire harness up the kick plate area of the passenger side. Secure the wire harness to existing wire harness using the supplied wire ties.

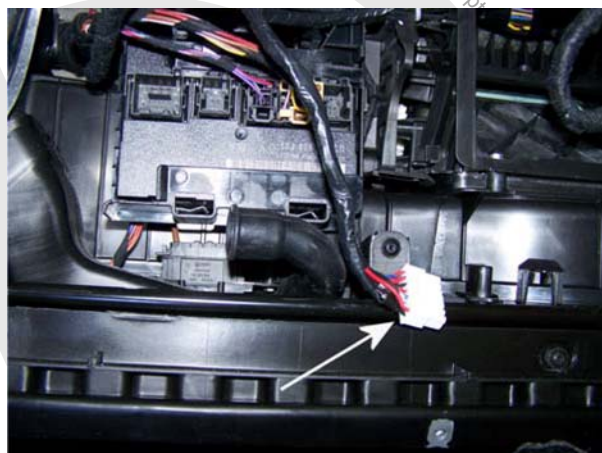


**Step #14** Route the wire harness following the existing OEM harness at the side kick panel and secure to the existing harness using supplied wire ties.

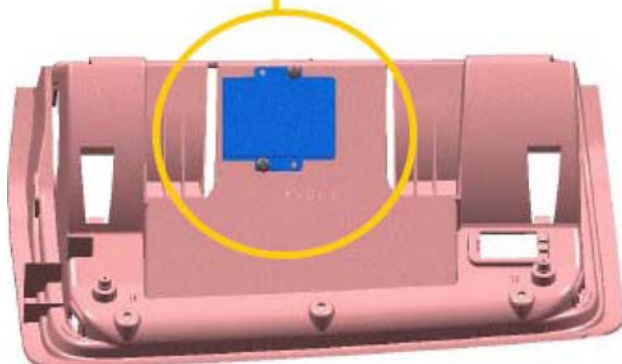
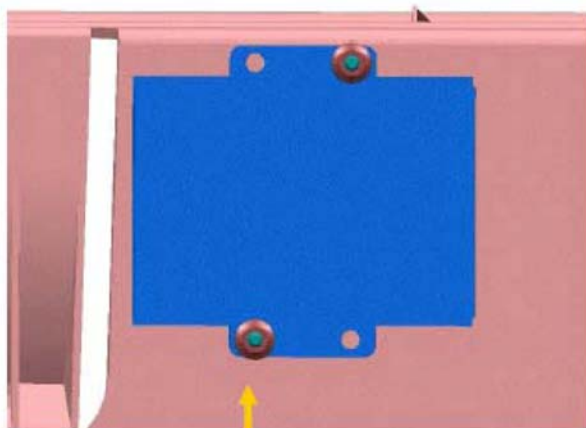




**Step #15** Route the iPod harness following the existing instrument panel wire harness into the instrument panel/glove compartment area and secure using supplied wire ties.



**Step #16** Ensure that there is enough wire harness remaining to allow it to enter the glove compartment after re-assembling.



**Step #17** Mount the iPod module on the top of the glove compartment housing in the area shown in the above image (step #25 will instruct on how to mount module).

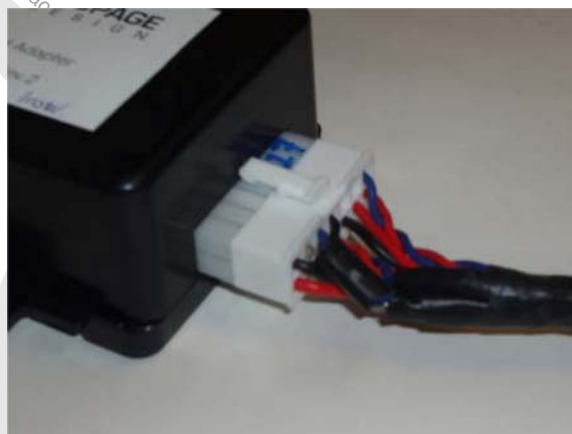


**Step #18** Scribe the hole locations of the module and drill holes using the 4mm drill bit and drill. Secure to glove compartment using the supplied hardware in the kit.



**Step #19** Insert iPod adaptor harness into module and route into the glove compartment through the hole in the top of the glove compartment.

**Note:** Ensure proper connections



**Step #20** Position the glove compartment housing near the instrument panel. Insert the connector from the harness into the iPod module. Connect the auxiliary jack and interior light connectors. Connect the A/C vent hose. Reinstall the glove compartment.

**Tip:** Follow steps 01 & 02 to re-install the glove compartment.

**Note:** Ensure proper connections



**Step #21** Reinstall the sill trim, kick panel, instrument panel side cover and a-pillar molding

**Tip:** Follow steps 3 & 4 to re-install these pieces.



**INSTALLATION COMPLETE**



## Final Fitting, All Vehicles

- Connect all the connectors and the aerial wire(s) to the satellite radio receiver.
- Check that all the wiring is securely connected and replace the radio/satellite receiver following the instructions in reverse order.
- Refit the vehicle glove compartment.
- Exterior bodywork; interior bodywork tasks; repair group 68; interior fittings; shelves; covers and trims; removing and fitting the glove compartment.
- Switch the ignition and check that the radio/receiver system, connector/player, and the iPod are functioning.



### iPod™ Function test

#### Features Explained

Features	Yes/No	Comments
Recharging the iPod Battery	Yes	With ignition on
Audio Mode Displayed	iPod	-
Playing all tracks stored in the iPod	Yes	-
Playlist	250 Playlists	-
Swapping between the playlists	Yes	You can navigate through songs and playlists using the cat/folder up/down arrow and track up and down
Radio displays Artists name	Yes (16 characters)	-
Radio displays songs name	Yes (16 characters)	-
Radio displays Playlist name	Yes (8 characters)	-
FFW or Reversing within track	No	Due to the SDARS commands
SCAN mode	Yes	-
Random Play	Yes	ISA by playlist "shuffle"



## Complete the following functionality checks:



### Tip: iPod needed for functionality test

- 1) Turn vehicle ignition on
- 2) Verify radio recognizes iPod interface and buttons function properly (display will indicate iPod on screen – Image 1)
- 3) Verify instrument panel indicates iPod interface (dash panel screen)
- 4) Verify iPod is charging with ignition in “on” position
- 5) Verify volume and track select of steering wheels buttons function (Image 2)
- 6) Verify radio and iPod shut off when ignition is in “off” position



Image 1



Image 2 – Track Buttons



## Cautions & Warnings

**Please read these WARNINGS and CAUTIONS before proceeding with maintenance and repair work. You must answer that you have read and you understand these WARNINGS and CAUTIONS before you will be allowed to view this information.**

- If you lack the skills, tools and equipment, or a suitable workshop for any procedure described in this manual, we suggest you leave such repairs to an authorized Volkswagen retailer or other qualified shop. We especially urge you to consult an authorized Volkswagen retailer before beginning repairs on any vehicle that may still be covered wholly or in part by any of the extensive warranties issued by Volkswagen.
- Disconnect the battery negative terminal (ground strap) whenever you work on the fuel system or the electrical system. Do not smoke or work near heaters or other fire hazards. Keep an approved fire extinguisher handy.
- Volkswagen is constantly improving its vehicles and sometimes these changes, both in parts and specifications, are made applicable to earlier models. Therefore, part numbers listed in this manual are for reference only. Always check with your authorized Volkswagen retailer parts department for the latest information.
- Any time the battery has been disconnected on an automatic transmission vehicle, it will be necessary to reestablish Transmission Control Module (TCM) basic settings using the VAG 1551 Scan Tool (ST).
- Never work under a lifted vehicle unless it is solidly supported on stands designed for the purpose. Do not support a vehicle on cinder blocks, hollow tiles or other props that may crumble under continuous load. Never work under a vehicle that is supported solely by a jack. Never work under the vehicle while the engine is running.
- For vehicles equipped with an anti-theft radio, be sure of the correct radio activation code before disconnecting the battery or removing the radio. If the wrong code is entered when the power is restored, the radio may lock up and become inoperable, even if the correct code is used in a later attempt.
- If you are going to work under a vehicle on the ground, make sure that the ground is level. Block the wheels to keep the vehicle from rolling. Disconnect the battery negative terminal (ground strap) to prevent others from starting the vehicle while you are under it.
- Do not attempt to work on your vehicle if you do not feel well. You increase the danger of injury to yourself and others if you are tired, upset or have taken medicine or any other substances that may impair you or keep you from being fully alert.
- Never run the engine unless the work area is well ventilated. Carbon monoxide (CO) kills.
- Always observe good workshop practices. Wear goggles when you operate machine tools or work with acid. Wear goggles, gloves and other protective clothing whenever the job requires working with harmful substances.
- Tie long hair behind your head. Do not wear a necktie, a scarf, loose clothing, or a necklace when you work near machine tools or running engines. If your hair, clothing, or jewelry were to get caught in the machinery, severe injury could result.
- Do not re-use any fasteners that are worn or deformed in normal use. Some fasteners are designed to be used only once and are unreliable and may fail if used a second time. This includes, but is not limited to, nuts, bolts, washers, circlips and cotter pins. Always follow the recommendations in this manual - replace these fasteners with new parts where indicated, and any other time it is deemed necessary by inspection.

# Cautions & Warnings

- Illuminate the work area adequately but safely. Use a portable safety light for working inside or under the vehicle. Make sure the bulb is enclosed by a wire cage. The hot filament of an accidentally broken bulb can ignite spilled fuel or oil.
- Friction materials such as brake pads and clutch discs may contain asbestos fibers. Do not create dust by grinding, sanding, or by cleaning with compressed air. Avoid breathing asbestos fibers and asbestos dust. Breathing asbestos can cause serious diseases such as asbestosis or cancer, and may result in death.
- Finger rings should be removed so that they cannot cause electrical shorts, get caught in running machinery, or be crushed by heavy parts.
- Before starting a job, make certain that you have all the necessary tools and parts on hand. Read all the instructions thoroughly; do not attempt shortcuts. Use tools that are appropriate to the work and use only replacement parts meeting Volkswagen specifications. Makeshift tools, parts and procedures will not make good repairs.
- Catch draining fuel, oil or brake fluid in suitable containers. Do not use empty food or beverage containers that might mislead someone into drinking from them. Store flammable fluids away from fire hazards. Wipe up spills at once, but do not store the oily rags, which can ignite and burn spontaneously.
- Use pneumatic and electric tools only to loosen threaded parts and fasteners. Never use these tools to tighten fasteners, especially on light alloy parts. Always use a torque wrench to tighten fasteners to the tightening torque listed.
- Keep sparks, lighted matches, and open flame away from the top of the battery. If escaping hydrogen gas is ignited, it will ignite gas trapped in the cells and cause the battery to explode.
- Be mindful of the environment and ecology. Before you drain the crankcase, find out the proper way to dispose of the oil. Do not pour oil onto the ground, down a drain, or into a stream, pond, or lake. Consult local ordinances that govern the disposal of wastes.
- The air-conditioning (A/C) system is filled with a chemical refrigerant that is hazardous. The A/C system should be serviced only by trained automotive service technicians using approved refrigerant recovery/recycling equipment, trained in related safety precautions, and familiar with regulations governing the discharging and disposal of automotive chemical refrigerants.
- Before doing any electrical welding on vehicles equipped with anti-lock brakes (ABS), disconnect the battery negative terminal (ground strap) and the ABS control module connector.
- Do not expose any part of the A/C system to high temperatures such as open flame. Excessive heat will increase system pressure and may cause the system to burst.
- When boost-charging the battery, first remove the fuses for the Engine Control Module (ECM), the Transmission Control Module (TCM), the ABS control module, and the trip computer. In cases where one or more of these components is not separately fused, disconnect the control module connector(s).
- Some of the vehicles covered by this manual are equipped with a supplemental restraint system (SRS), that automatically deploys an airbag in the event of a frontal impact. The airbag is operated by an explosive device. Handled improperly or without adequate safeguards, it can be accidentally activated and cause serious personal injury. To guard against personal injury or airbag system failure, only trained Volkswagen Service technicians should test, disassemble or service the airbag system.



## Cautions & Warnings

- Do not quick-charge the battery (for boost starting) for longer than one minute, and do not exceed 16.5 volts at the battery with the boosting cables attached. Wait at least one minute before boosting the battery a second time.
- Never use a test light to conduct electrical tests of the airbag system. The system must only be tested by trained Volkswagen Service technicians using the VAG 1551 Scan Tool (ST) or an approved equivalent. The airbag unit must never be electrically tested while it is not installed in the vehicle.
- Some aerosol tire inflators are highly flammable. Be extremely cautious when repairing a tire that may have been inflated using an aerosol tire inflator. Keep sparks, open flame or other sources of ignition away from the tire repair area. Inflate and deflate the tire at least four times before breaking the bead from the rim. Completely remove the tire from the rim before attempting any repair.
- When driving or riding in an airbag-equipped vehicle, never hold test equipment in your hands or lap while the vehicle is in motion. Objects between you and the airbag can increase the risk of injury in an accident.

**I have read and I understand these Cautions and Warnings.**