



Instructions Specifically Developed for Installation by Dealer Technicians

Document :07-09-26 UCF

Description:	Fog Lamps
Part Number:	3C0052185N
Fitment:	Passat 2005.5+
Quantity:	1 each
Supplier:	Votex GmbH
Publish Date:	November 1, 2007



Note:

Before starting installation, make sure painted surfaces and trim are protected to help prevent scratching and other damage during installation process of the items. Use appropriate surface protection covers and work clothes that are free of dirt, grease and hard or sharp objects



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.



WARNING:

The engine compartment of any motor vehicle is a potentially dangerous area and can cause serious personal injury. Hot vehicle components can cause serious burns.

- When working in an area of the vehicle that is hot, always let components cool down before starting installation.
- Always use extreme caution when doing any work in the engine compartment. Always follow commonly accepted safety practices and use common sense. Never risk personal injury.
- Always let the engine cool down completely before carefully opening the engine compartment. Hot components will burn skin on contact.

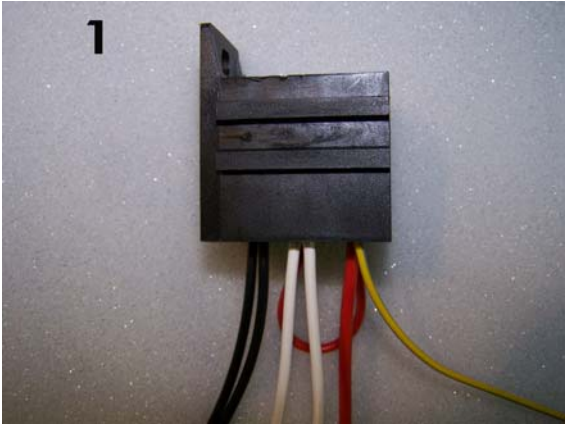

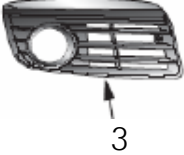


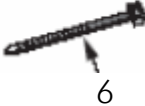








WARNING:

Working on the batteries or the electrical system in your vehicle can result in serious acid burns, fires or electrical shock. Always read and heed the following Warnings and safety precautions before working on the batteries or the electrical system.

- Before working on the electrical system, always switch off the ignition and all electrical consumers and disconnect the negative (-) cable from the batteries.
- Always keep children away from acid and batteries.
- Always wear eye protection. Never let battery acid or lead particles contact your eyes, skin and clothing.
- Sulfuric acid is very corrosive and can cause damage to unprotected skin and blindness. Always wear protective gloves and eye protection. To reduce your risk of injury, never tilt the batteries, as this could spill acid through the vents and may burn you.
- When disconnecting the batteries from the vehicle electrical system, always disconnect the negative cable (-) first and then the positive cable (+).
- Always avoid fires, sparks, open flame and smoking. Always avoid generating sparks and electrostatic charges when handling cables and electrical equipment. Never short circuit the battery poles. High energy sparks can cause serious personal injury.
- Always switch off all electrical consumers before reconnecting the batteries. Reconnect the positive cable (+) first and then the negative cable (-). Never reverse the polarity of the connections. This could cause a fire.

Fog Lamp Installation Kit

    	<p>COLOR CODES</p> <table border="1"> <tr> <td>BK</td> <td>Black</td> </tr> <tr> <td>RD</td> <td>Red</td> </tr> <tr> <td>BL</td> <td>Blue</td> </tr> <tr> <td>YE</td> <td>Yellow</td> </tr> <tr> <td>BR</td> <td>Brown</td> </tr> <tr> <td>W</td> <td>White</td> </tr> </table>       	BK	Black	RD	Red	BL	Blue	YE	Yellow	BR	Brown	W	White
BK	Black												
RD	Red												
BL	Blue												
YE	Yellow												
BR	Brown												
W	White												
<p>#1 – Wire Harness/Relay Block #2 – Right Fog Lamp #3 – Fog Lamp Cover (ordered separately) #4 – Fog Lamp Cover (ordered separately) #5 – Left Fog Lamp Relay (not shown)</p>	<p>#6 – Tie Wraps (10) #7 – Bolt (1) #8 – Washer (1) #9 – Nut (1) #10 – Mounting Screws (6) #11 – Nut M5 (1) #12 – Heat Shrinkable Nylon Crimp (2)</p>												



Note:

The multiple function switch for parking and running lights (headlight switch) needs to be updated to a multiple switch for side lights, headlights and fog lights (headlight switch with fog lights). **(P/N 1KO 941 431AA-REH Not included in Kit).** The vented Fog Lamp Covers (Items 3 & 4) need to be ordered separately. **(P/N 3C0 853 665A 9B9 Left side, P/N 3C0 853 666A 9B9 Right side.)** Refer to ETKA for current and superseded part numbers.

Tools Required for Fog Lamp Installation



Note:

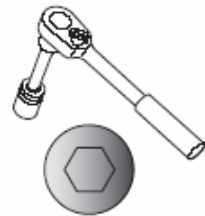
Always wear protective gear and use caution when using hand tools throughout the installation process.



Screwdriver (Phillips)



Screwdriver (Flat)



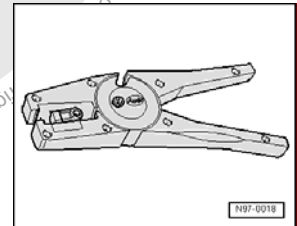
Socket Wrench



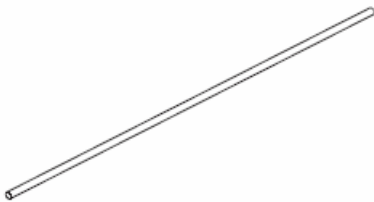
Drill Motor



Heat gun



Wire Cutter/stripper



Rigid Piece of Wire



Protective Tape



Electrical Tape



Torx Bits



6mm Drill Bit



Step #01 **Fog Lamp Installation**

Note radio codes



Step #02 **Fog Lamp Installation**

Remove the battery cover. (Left arrow)
Remove fuse box cover. (Right arrow)



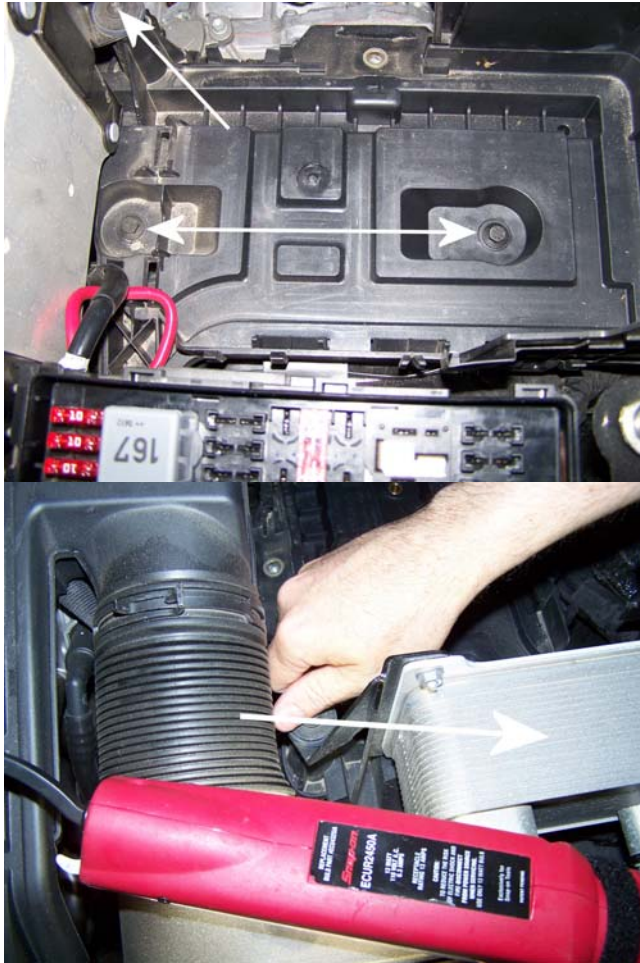
Step #03 **Fog Lamp Installation**

Remove plastic battery surround cover.



Step #04 **Fog Lamp Installation**

Disconnect Positive and Negative battery cables. Remove battery hold down bolt and plate.

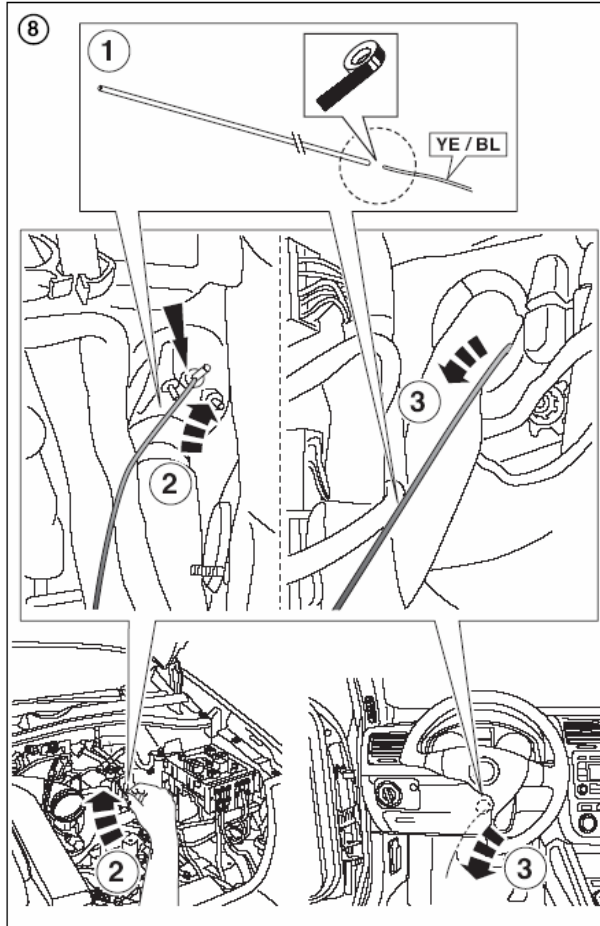


Step #05

Fog Lamp Installation

Remove battery tray bolts.

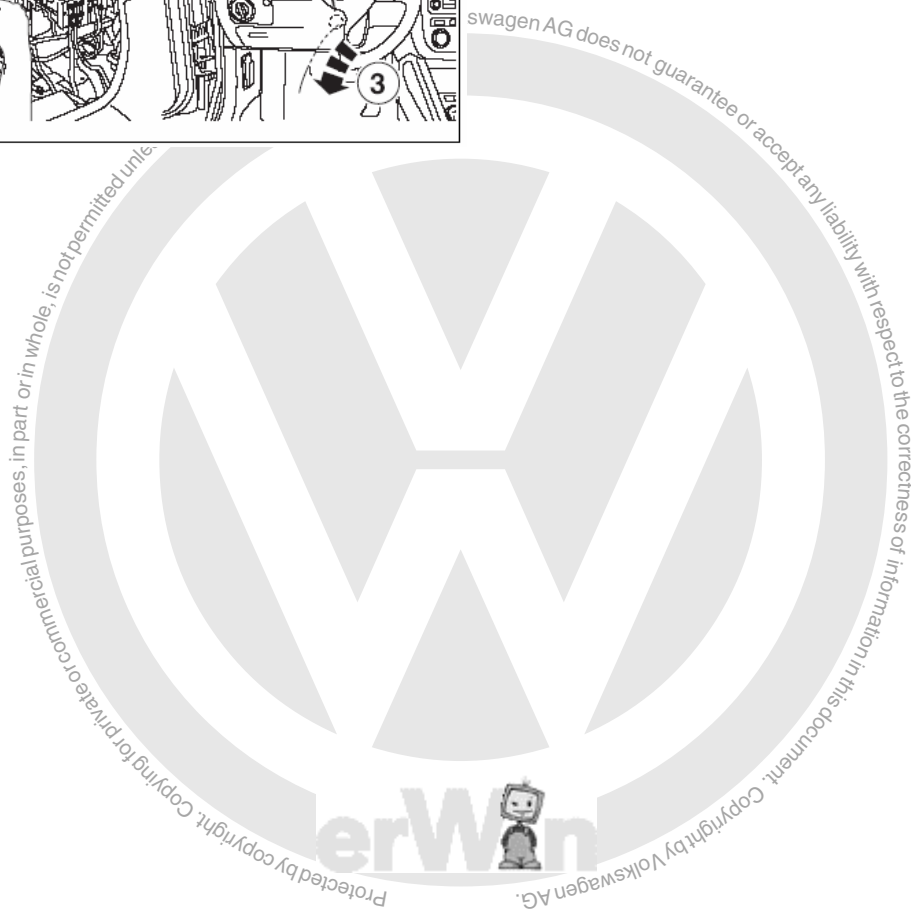
If the vehicle is equipped with a auxiliary transmission cooler it can be gently moved to the side. It does not have to be removed.

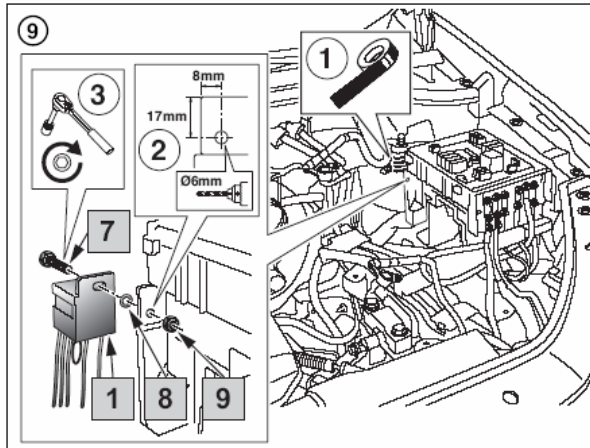


Step #06

Fog Lamp Installation

Connect Yellow/Blue wire to metal rod with tape and route through grommet from engine compartment into drivers' foot well.





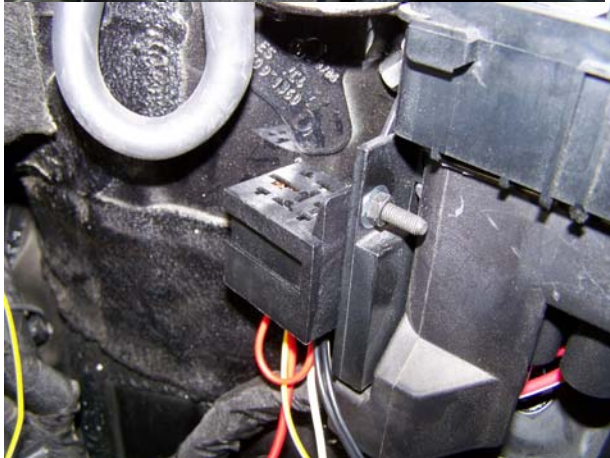
Step #07

Fog Lamp Installation

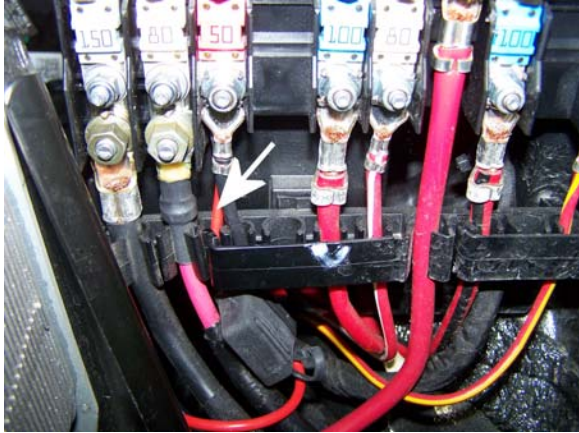
Protect surrounding area with tape.
Measure and mark as directed in diagram.



Drill a 6mm hole.



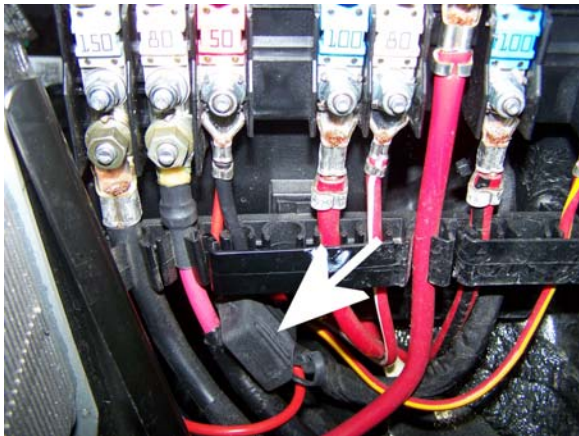
Mount relay terminal block with bolt, nut and washer.



Step #8

Fog Lamp Installation

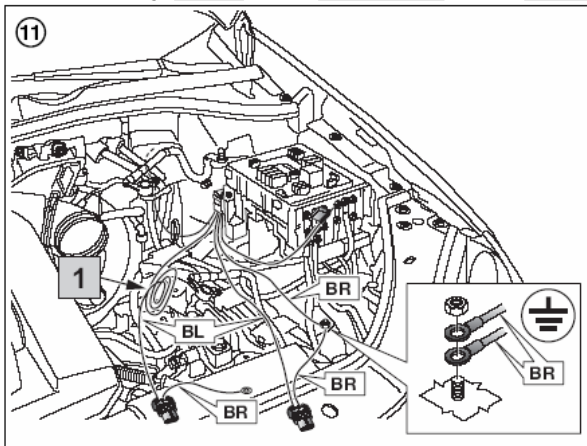
Route Red wire with inline fuse and connect to an *ignition fed* power terminal as shown. Install relay to relay block.



Step #8A

Fog Lamp Installation

For ease of future trouble shooting, advise customer of in-line fuse on the red wire near mounting eyelet.



Step #9

Fog Lamp Installation

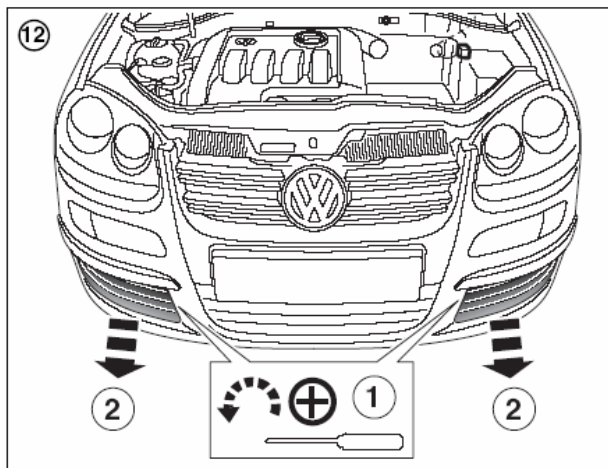
Route Brown wire from relay and left fog lamp connector and connect to ground stud on chassis as shown.



Drivers' side shown. Passenger side typical.

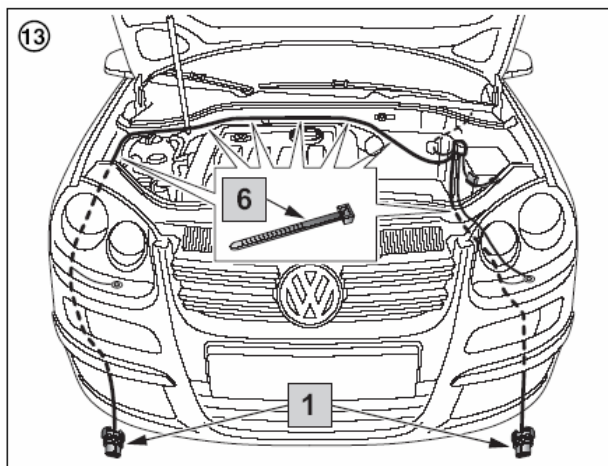


Note: Do not over tighten.



Step #10 Fog Lamp Installation

Remove lower grille covers.



Step #11 Fog Lamp Installation

Route long White wire along with long Black wire with fog lamp connectors as shown. The Black wire with the connector will go through fog lamp holes. Route the White wire to the high beam connector area. Route the wire using existing wire harness fasteners when possible. Secure wiring with tie wraps.



Step #12

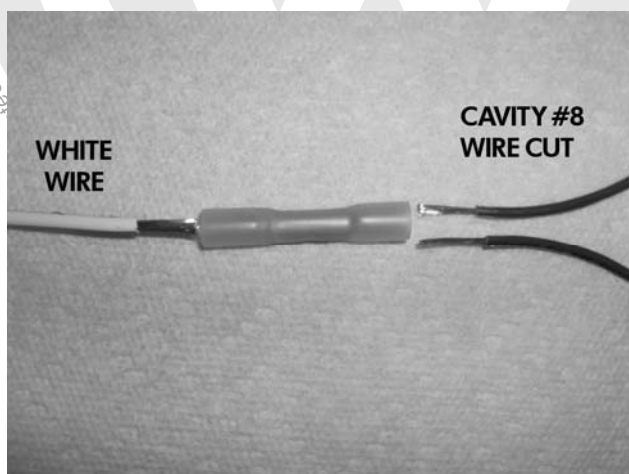
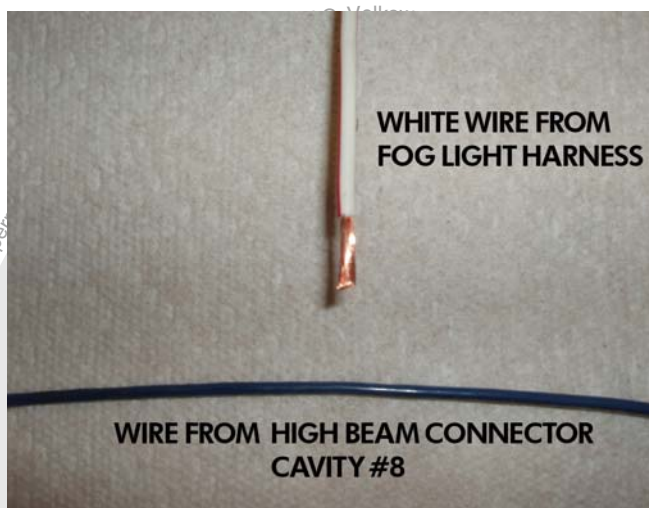
Fog Lamp Installation

Locate and isolate the wire that is coming out of Cavity #8 of the High Beam connector

Step #12A

Fog Lamp Installation

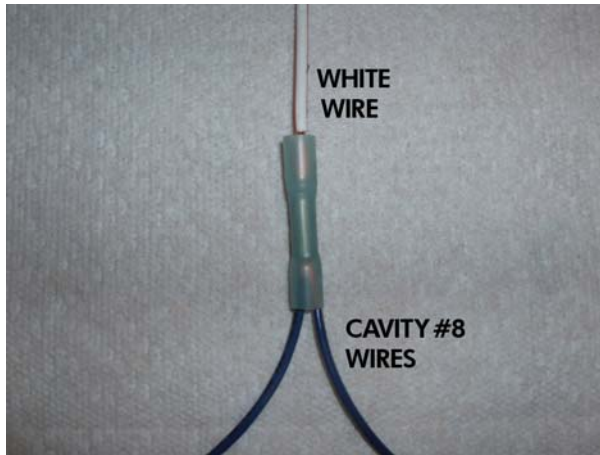
Position the white wire from the fog light harness in close proximity to the wire from cavity #8.



Step #12B

Fog Lamp Installation

Cut the Cavity #8 wire and strip the ends for insertion into the supplied connector. Strip the end of the white wire for insertion into the connector.



Step #12C

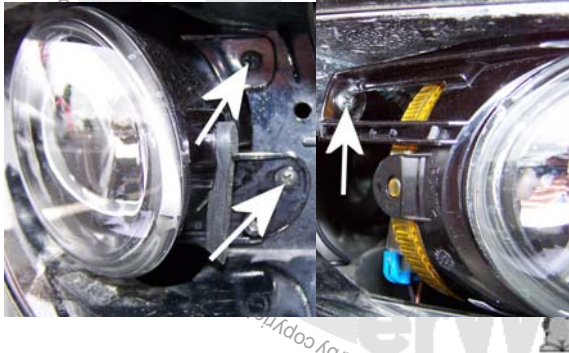
Fog Lamp Installation

Insert wires as shown and crimp connector. Using a suitable heat source apply heat to the connector to seal.



Note:

While applying heat, isolate the connector to prevent heat damage to other wires or components.

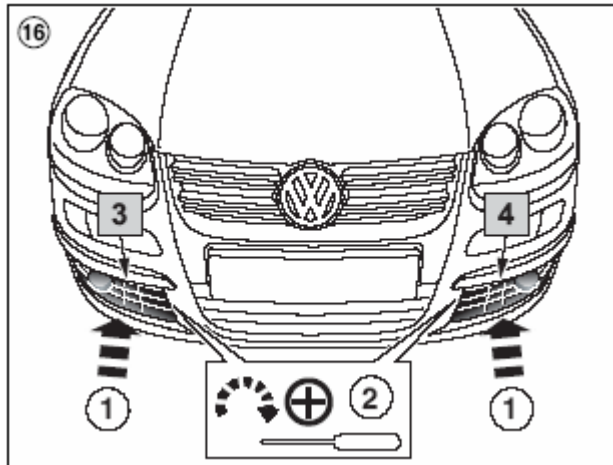


Step #13

Fog Lamp Installation

Connect wire harness connector to fog lamp.

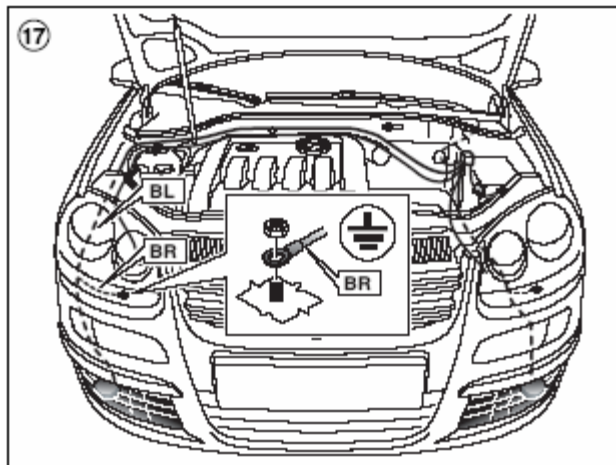
Position fog lamp assembly and attach with screws. Repeat on other side.



Step #14

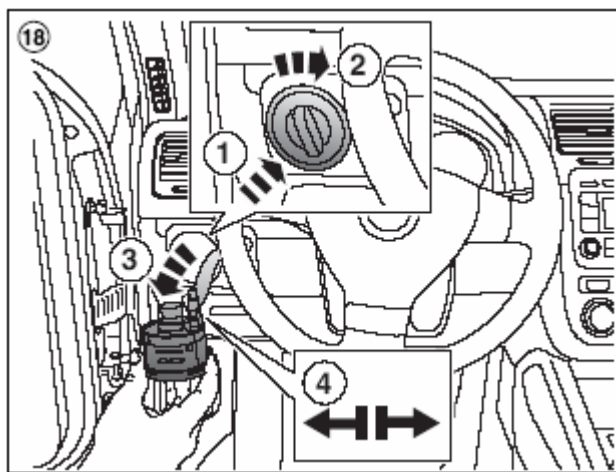
Fog Lamp Installation

Position new fog lamp covers and attach with screws.



Step #15 Fog Lamp Installation

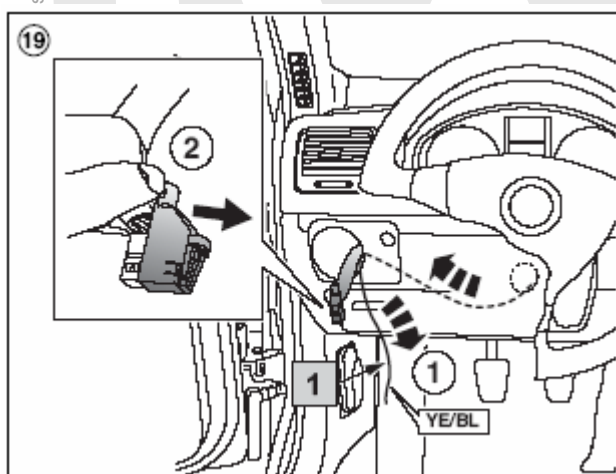
Connect Brown wire on right fog lamp connector and connect to ground stud on chassis as shown.



Step #16 Fog Lamp Installation

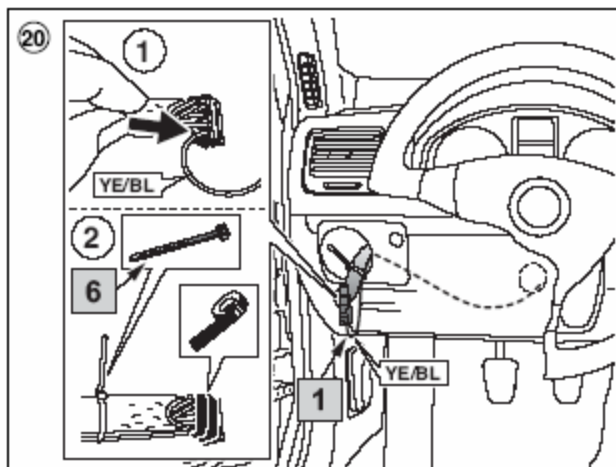
Press in head light switch and turn to the right to remove.
Pull out switch and disconnect from wire harness.

This switch will not be used with the fog light kit. Set aside.



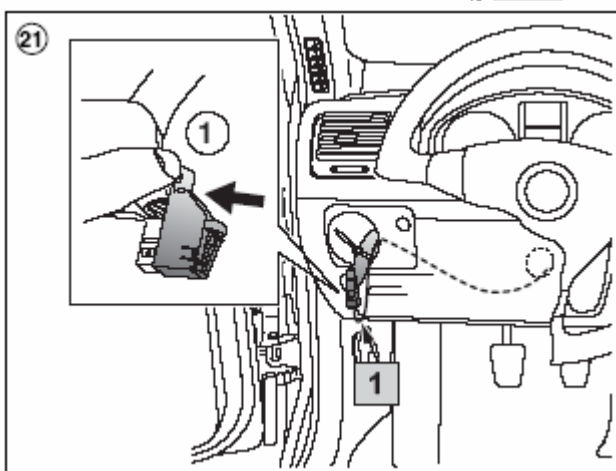
Step #17 Fog Lamp Installation

Route Yellow/Blue wire through switch hole.
Remove protective plastic cover.
Do not discard the plastic cover.



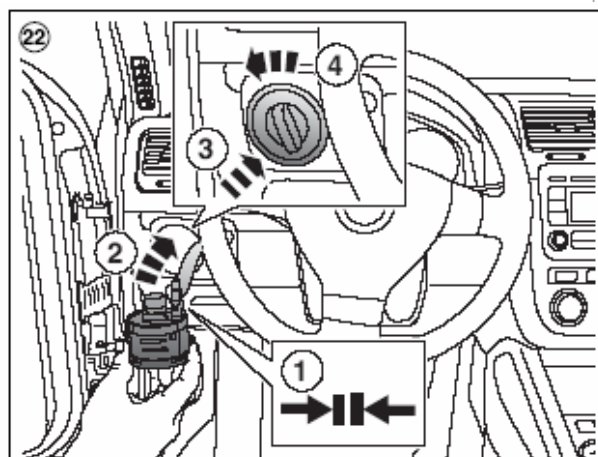
Step #18 Fog Lamp Installation

Install Yellow/Blue wire into empty connection contact cavity #5.
Secure wire with a tie wrap.
Wrap with electrical tape.



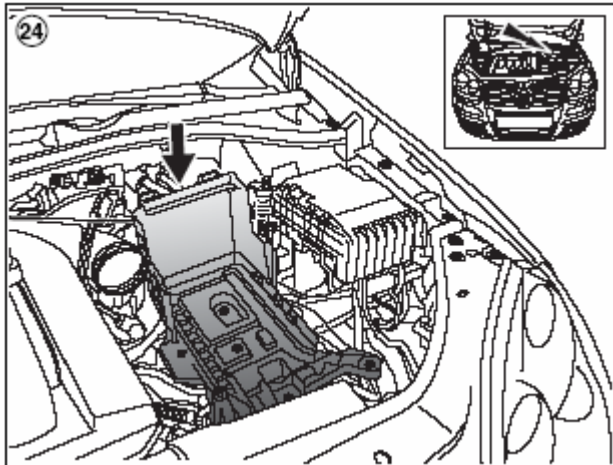
Step #19 Fog Lamp Installation

Reinstall plastic cover



Step #20 Fog Lamp Installation

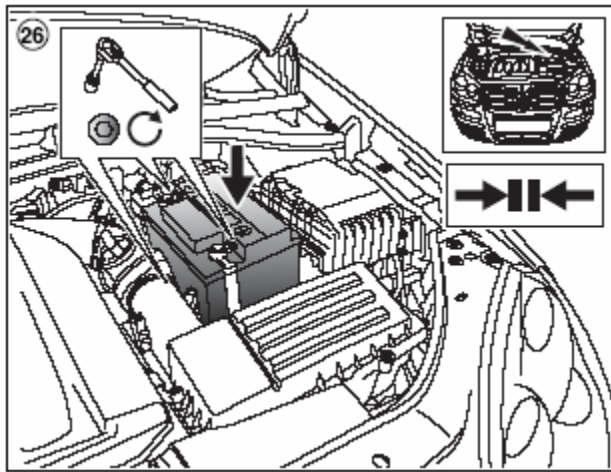
Connect headlight switch to wire harness.
Press in switch and turn to left to secure.



Step #22

Fog Lamp Installation

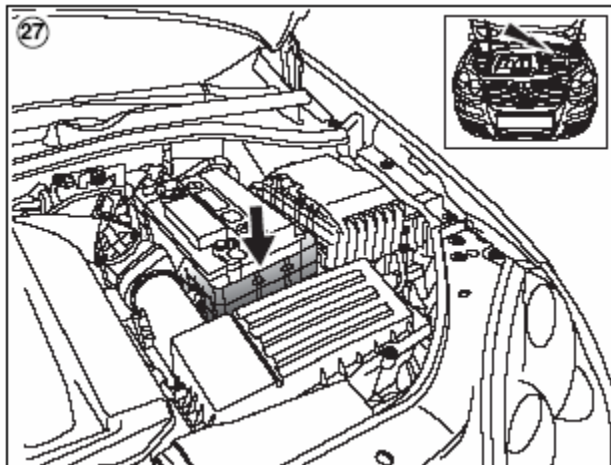
Install battery tray.



Step #23

Fog Lamp Installation

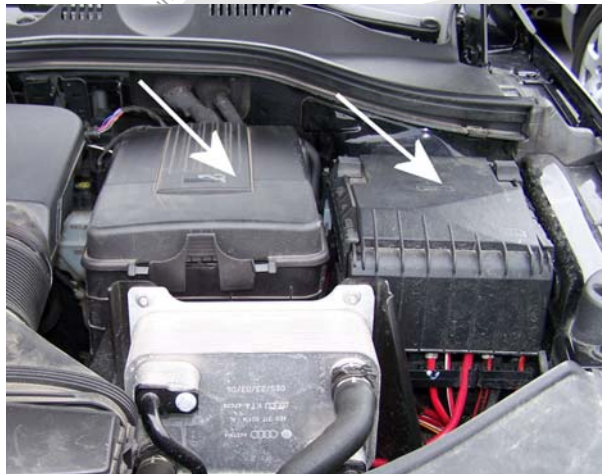
Install Positive and Negative battery cables.
Install battery hold down plate and bolt.



Step #24

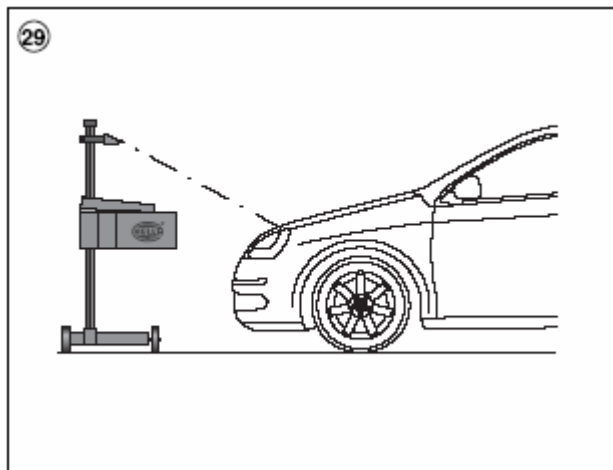
Fog Lamp Installation

Install battery plastic surround cover.



Step #25 Fog Lamp Installation

Install battery cover.
Install fuse box lid.

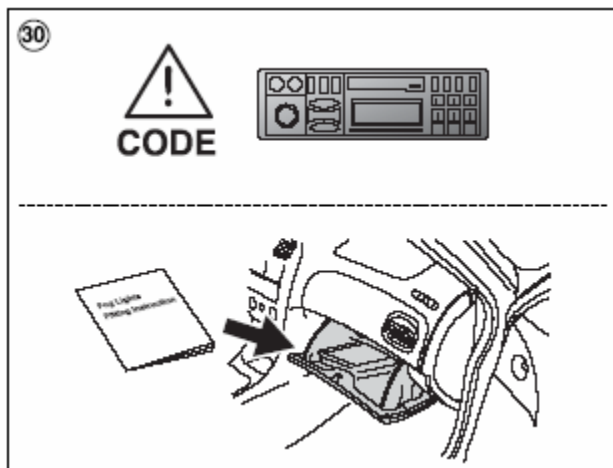


Step #26 Fog Lamp Installation

Check that the fog lamps are functioning properly.



Quality Check



Step #38 Fog Lamp Installation

Reprogram radio if necessary.



Installation Complete

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.

