

# VOLKSWAGEN 1985-2006 Golf

## PRECAUTIONS

**Warning:** Acid has strong corrosive properties. If batteries are handled inappropriately, there is a risk that personal injury may result from exposure to harmful electrolyte influences. Therefore, suitable remedies for acid damage must be kept readily available. Soapy water would be a suitable remedy.

**Warning:** If electrolyte drips out from the battery, skin can be burned by acid, and the vehicle may be affected by acid erosion and corrosion. It is a possibility that safety-related vehicle components can be damaged.

**Warning:** The gas resulting from charging and partially after charging is explosive. In extreme cases, if the battery is handled inappropriately, the emitted gases may cause the battery to explode.

**Warning:** Producing sparks by sanding, welding, cutting and open flames, as well as smoking near a battery, is forbidden. Producing sparks through electrostatic discharge must also be avoided. Always touch the vehicle body before touching the battery.

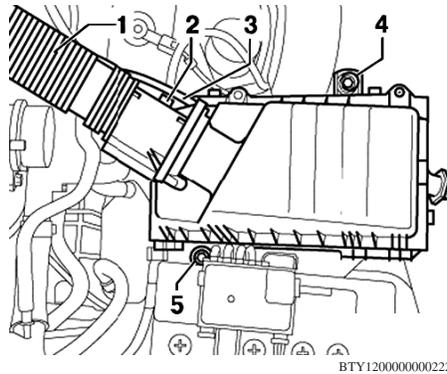
**Caution:** Only perform battery procedures in suitable and well-ventilated locations.

## BATTERY

### With Fastened Fuse Holder

#### REMOVAL

1. Record radio anti-theft code and station presets.
2. Turn off all lamps and accessories.
3. Turn ignition switch to OFF position.
4. Pull off intake hose (1), connector (2) and hose (3) from mass air-flow sensor, **Fig. 1**.
5. Remove air cleaner mounting bolts (4 and 5), **Fig. 1**.
6. Loosen battery ground terminal clamp fastener, and remove ground cable from battery.
7. Press fuse cover locking lugs together (arrows) and remove, **Fig. 2**.
8. Remove positive bus securing bolt (1) on positive terminal clamp, **Fig. 3**.
9. Remove securing bolts (A) and remove cables to fuses, noting installed positions, **Fig. 3**.
10. Disconnect electrical connection (2), **Fig. 3**.
11. Relieve tension on fuse holder mounting in direction of (arrow A), and release clip with screwdriver (in direction of arrow B), **Fig. 4**.
12. Lift fuse holder from battery.

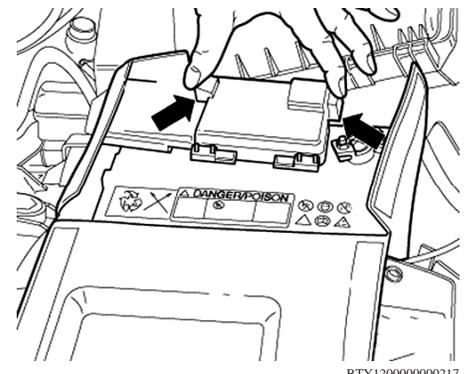


**Fig. 1** Air cleaner housing removal

13. Remove screws (arrows) and remove cover (1), **Fig. 5**.
14. Loosen battery positive terminal clamp fastener (arrow), and remove terminal from battery post, **Fig. 6**.
15. Remove battery heat shield cover, as required.
16. Remove bolt (arrow), and remove retaining bracket, **Fig. 7**.
17. Disconnect central gas vent hose from top cover, as required.
18. Carefully lift and remove battery from engine compartment.

#### INSTALLATION

1. Install battery so battery carrier lug (arrow) engages in foot strip cut out (1), **Fig. 8**. It must not be possible to move battery to lefthand or righthand sides.
2. Battery is inserted correctly when center cut out in foot strip aligns with threaded hole in battery carrier (arrows), **Fig. 9**.
3. On batteries with a hose for central venting, ensure that hose is not squashed or pinched. On batteries without a hose for central venting, ensure that opening on upper side of battery cover is not blocked.
4. Install hold down bracket with bolt, and **torque** to 18 ft. lbs.
5. Install battery heat shield cover, as required.
6. Install positive battery cable, and **torque** clamp to 53 inch lbs.
7. Fit fuse holder onto battery, and install positive bus onto securing pins on battery positive terminal.
8. Engage fuse holder clip in battery.
9. Tighten securing bolt (1) for positive bus on positive terminal clamp, **Fig. 3**.
10. Connect cables to strip fuses, and tighten securing bolts (A), **Fig. 3**.
11. Connect electrical connector (2), **Fig. 3**.
12. Install battery ground cable, and **torque** clamp to 53 inch lbs.



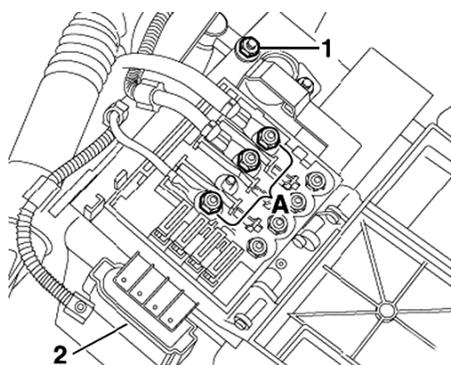
**Fig. 2** Fuse cover removal

13. Install cover (1) with screws (arrows), **Fig. 5**.
14. Reset all preset and theft codes previously recorded to radio.
15. Inspect any affected system or component such as clock, comfort adjustment, or compass for proper settings, and adjust as required.

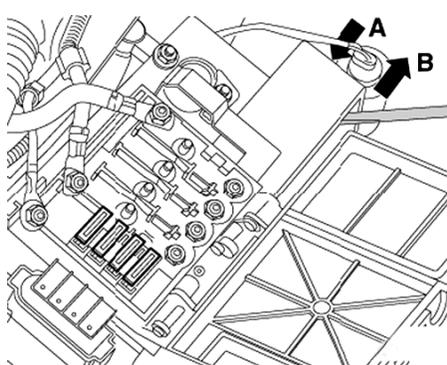
### With Clipped Fuse Holder

#### REMOVAL

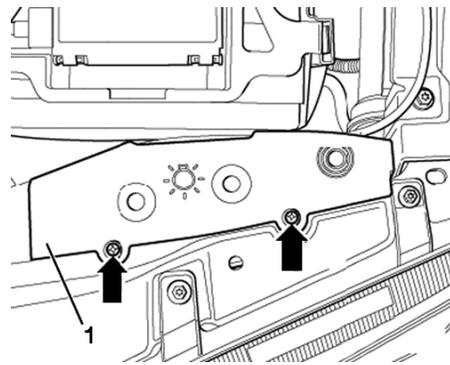
1. Record radio anti-theft code and station presets.
2. Turn off all lamps and accessories.
3. Turn ignition switch to OFF position.
4. Unclip battery positive cable from retainer (1), **Fig. 10**.
5. Press locking lugs together (2), and remove battery cover from battery, **Fig. 10**.
6. Loosen ground cable fastening clamp, and remove ground cable from battery.
7. Remove bolt (1) on positive terminal clamp, **Fig. 11**.
8. Lift fuse holder out of mounting (2) and slide fuse box out from mounting in direction of (arrow), **Fig. 11**.
9. Secure fuse holder to front hood support with elastic cord, as illustrated in **Fig. 12**.
10. Loosen battery positive terminal clamp fastener (arrow), and remove terminal from battery post, **Fig. 12**.
11. Remove screws (arrows) and remove cover (1), **Fig. 5**.
12. Remove battery heat shield cover, as required.
13. Unclip retaining frame for fuse holder (arrows), **Fig. 13**.
14. Remove bolt (2) and remove retaining bracket (3), **Fig. 13**.
15. Disconnect central gas vent hose from top cover, as required.
16. Carefully lift and remove battery from engine compartment.



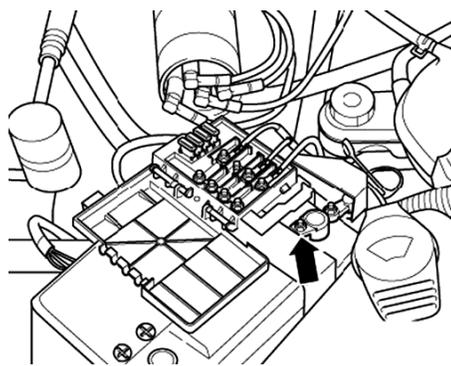
**Fig. 3 Fuse panel mounting bolt removal**



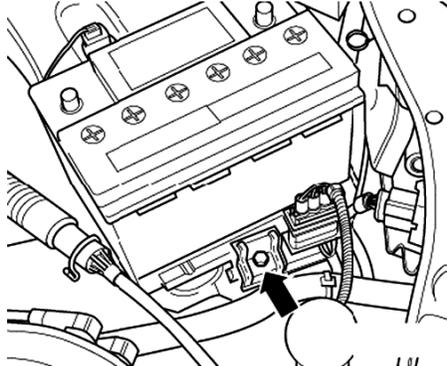
**Fig. 4 Fastened fuse holder removal**



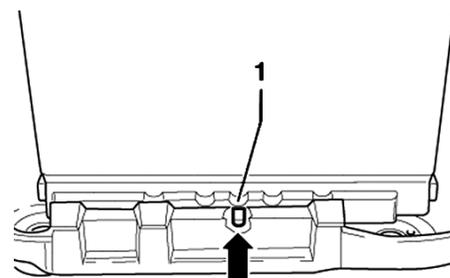
**Fig. 5 Battery cover removal**



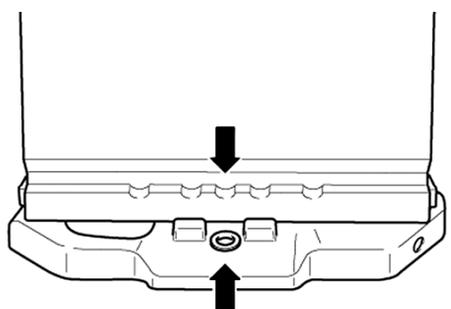
**Fig. 6 Positive cable removal**



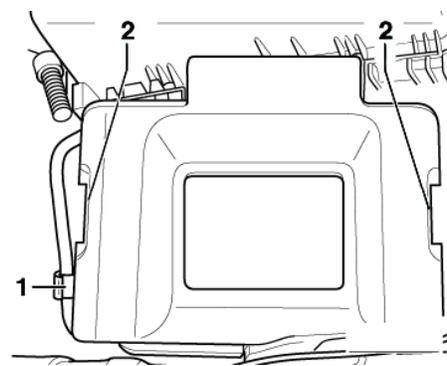
**Fig. 7 Battery removal**



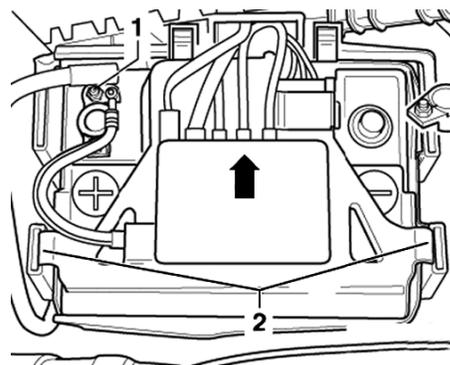
**Fig. 8 Battery installation**



**Fig. 9 Battery alignment**



**Fig. 10 Battery top cover removal**



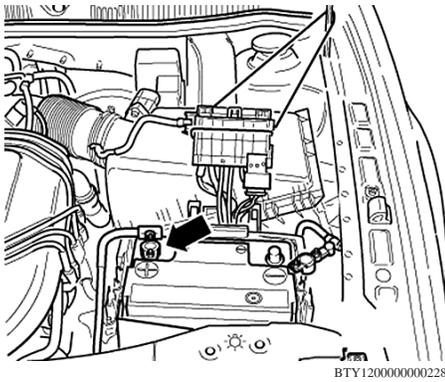
**Fig. 11 Clipped fuse holder removal**

## INSTALLATION

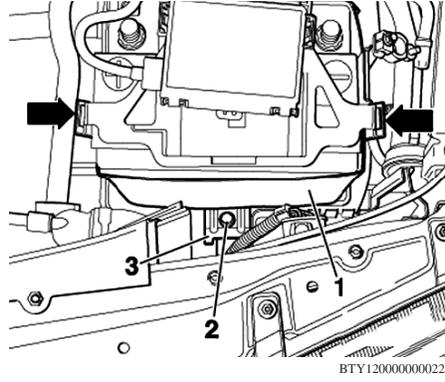
1. Install battery so battery carrier lug (arrow) engages in foot strip cut out (1), **Fig. 8**. It must not be possible to move battery to lefthand or righthand sides.
2. Battery is inserted correctly when center cut out in foot strip aligns with threaded hole in battery carrier (arrows), **Fig. 9**.
3. On batteries with a hose for central venting, ensure that hose is not

4. Install hold down bracket with bolt, and **torque** to 18 ft. lbs.
5. Install battery heat shield cover, as required.
6. Install positive battery cable, and **torque** clamp to 53 inch lbs.
7. Slide fuse holder and into mounting.

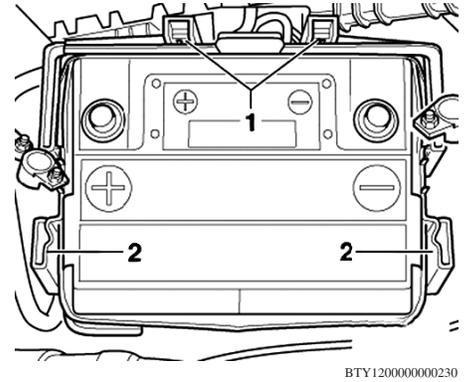
8. Clip fuse holder mountings into battery box (1 and 2), **Fig. 14**.
9. Install battery ground cable, and **torque** clamp to 53 inch lbs.
10. Install cover (1) with screws (arrows), **Fig. 5**.
11. Reset all preset and theft codes previously recorded to radio.
12. Inspect any affected system or component such as clock, comfort adjustment, or compass for proper settings, and adjust as required.



**Fig. 12 Fuse holder fastening**



**Fig. 13 Battery retaining bracket removal**



**Fig. 14 Clipped fuse holder installation**

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