



Instructions Specifically

Description:	Tiguan Side Steps
Fitment:	2010+ Tiguan
Option Code:	TTS
Version Number:	1.0
Part Number:	5N0 071 691 6M7
Quantity:	1 Set
Supplier:	VW Zubehoer
Publish Date:	April 21, 2010
Installation:	Level 3



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.

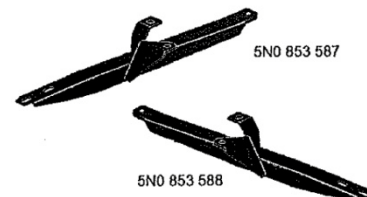
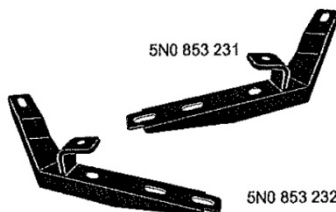
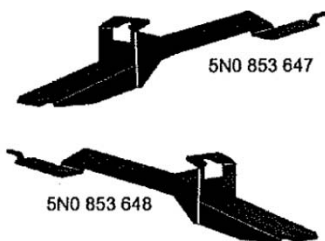


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Parts Contained in This Kit:



 M10x30 4x	 M10x20 4x	 M10 8x	 M10 8x	 M8 2x	 M10 4x	 M8x70 1x
 M8x70 2x	 M8x20 2x	 M8 2x	 M8 2x	 M10x70 1x	 M8 2x	 M10 2x
 M8x30 12x	 M8 14x	 M8 14x	 M10 2x	 M8 1x	 M10 1x	
 M10 2x	 M8 2x			 1x		



5N0 071 691 6M7 – Side Steps



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Attention

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 free of dirt and grease.



WARNING:

During the installation process, close all doors, and remove the keys from the ignition. If you must open a door, trunk lid, etc., during the installation process, close the areas as soon as you are complete with the application in that area. Failure to do so could result in significant battery drain, and/or battery failure in the vehicle.

Tools Required for Installation



13 and 17mm Wrench



Utility Knife



Torque Wrench



Socket Set



Flat Head Screwdriver



Reciprocating Saw

*May substitute Dremel tool/cut off wheel if necessary



Note:

Verify that the tools are in good working order and free of debris, prior to use.



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Step #01

Side Step Installation:

Remove the cover panels on the left and right vehicle underside. The panels are attached on both sides with 10mm plastic bolts.



Note:

You do not need to remove the body cover for this installation.



Note:

Place the cover panels in a clean place for reinstallation later.



Step #02

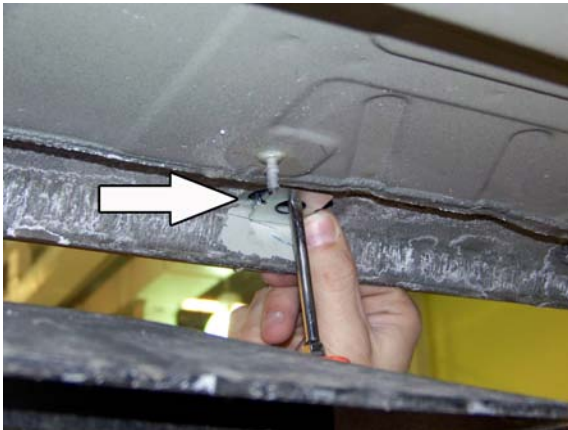
Side Step Installation – DS:

Remove the center body plug on the inner edge of the pinch weld area.





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Step #03

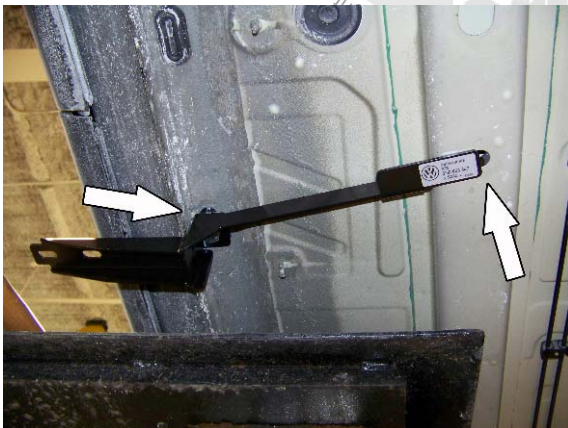
Side Step Installation – DS:

Place the M10 tilt bolt unit into the opening in the bottom of the vehicle that was created after removing the body plug. To lock the tilt bolt into place, slide a screw driver into the opening and tilt the threaded portion around to lock the clip to the inside of the body.



Note:

You will hear an audible "click" when the tilt bolt seats in the body chassis.



Step #04

Side Step Installation – DS:

Place the pointed tip of the middle side bracket (part # 5N0 853 647 - DS) into the inner frame rail of the vehicle. Place a M10 x 30 bolt, lock washer, and standard washer into the outer hole location of the bracket and thread into the tilt bolt. Torque the bolt to specifications.



Attention

Torque the M10 x 30 bolt to 40Nm

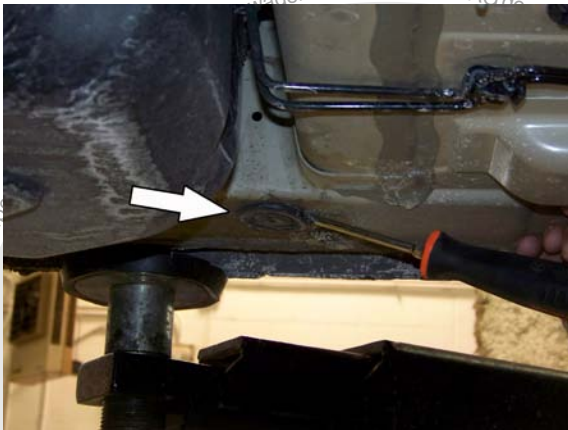


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Step #05
Side Step Installation – DS:

Remove the rear outer body plug on the outer pinch weld area.



Step #06
Side Step Installation – DS:

Remove the larger body plug on the rear of the vehicle, near the gas tank.



Step #07
Side Step Installation – DS:

Place a tilt bolt into the location and lock into place.



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Step #08

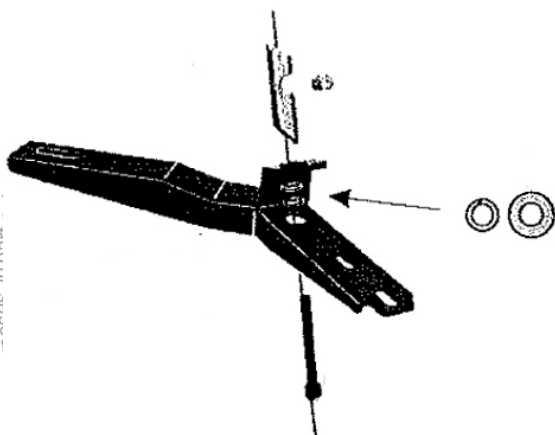
Side Step Installation – DS:

Place a M8 x 70 bolt assembly into the bracket (part # 5N0 853 231 - DS).



Note:

See step # 09 for assembly of the M8 x 70 bolt for the side bracket



Step #09

Side Step Installation – DS:

To assemble the M8 x 70 assembly, follow the steps below:

1. Place a M8 x 70 bolt through the bottom of the bracket.
2. Place a lock washer on the bolt from the top.
3. Place a washer onto the bolt from the top.
4. Place a pivoted thread into the tilt lock.
5. Thread the tilt lock onto the bolt.



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Step #10
Side Step Installation – DS:

Place the threaded tilt bolt into the outer hole on the rear of the vehicle (plug removed in step # 05).
Tighten the bolt hand tight.



Step #11
Side Step Installation – DS:

Thread a M10 X 30, with a lock washer and standard washer, into the inner tilt lock (placed in step # 07).
Torque to specifications.



Attention

Torque the inner M10 x 30 bolt to 40Nm.

Torque the outer M8 x 70 bolt to 22Nm.

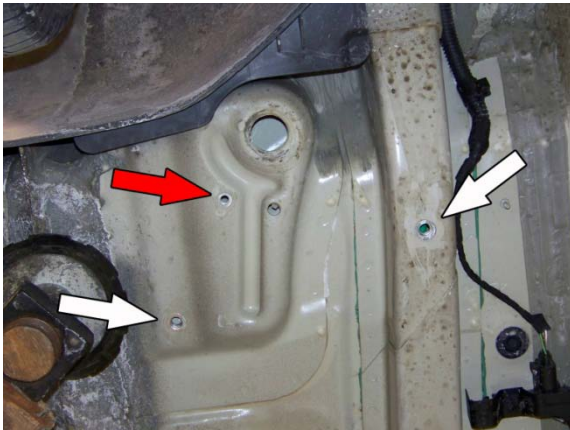


Step #12
Side Step Installation – DS:

Remove the front outer body plug.



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Step #13

Side Step Installation – DS:

Place two (2) M10 crush nuts into the inner and outer holes (white arrows in the image). Place one (1) M8 crush nut into the center front most whole (red arrows in the image). Secure the crush nuts in their locations.



Note:

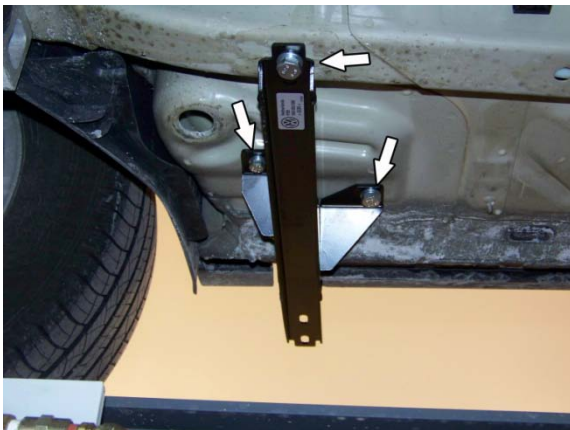
See step #14 for information on how to secure the crush nuts



Step #14

Side Step Installation – DS:

Thread the installation bolt into the nut. Place that through the bar, and thread the crush nut onto the other end of the bolt. Place the crush nut into the desired location and tighten the bolt to pull the crush nut securely into place.



Step #15

Side Step Installation – DS:

Install the bracket (part # 5N0 853 587 - DS) using two (2) M10 bolts with lock washers and standard washers, onto the inner and outer most holes. Secure the middle hole with a M8 bolt, lock washer and standard washer. Torque the bolts to specifications.



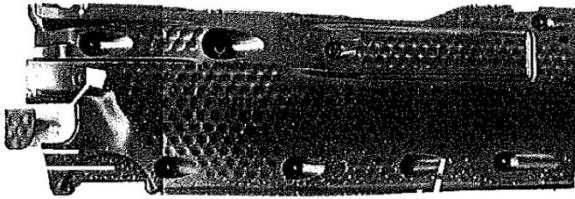
Attention

Torque the M10 x 30 bolt to 40Nm.

Torque the M8 x30 bolt to 22Nm.



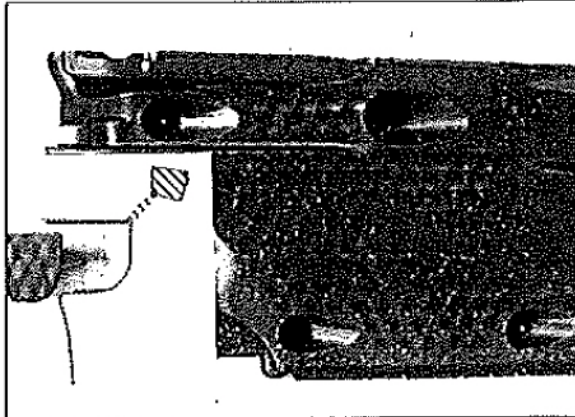
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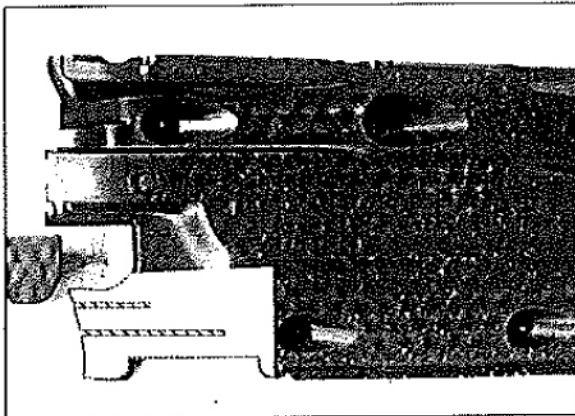
Step #16

Side Step Installation -DS:

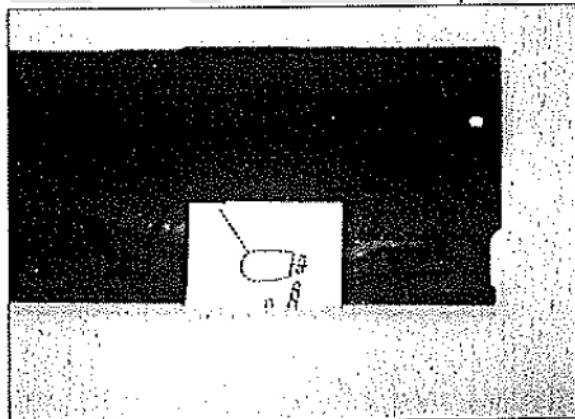
Using the templates (on the last page of this procedure, pages 13-15) mark the areas that need to be cut on the cover panels. With the areas marked, use a reciprocating saw, dremel tool or sharp box knife to make the cuts.



Front – Cut on bottom side of panel



Front – Cut on bottom side of panel



Rear – Cut on top side of panel



Attention

Use caution when cutting the panels. Only cut the areas that need to be cut.



Note:

Use a permanent marker to mark the areas that will need to be cut.



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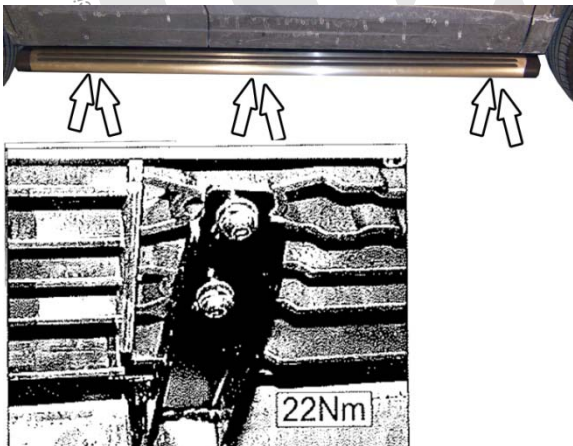
Step #17
Side Step Installation - DS:

Place the cover panel back onto the bottom side of the vehicle. Line up the brackets with the newly cut sections of the cover panel. Secure the panel in place with the eight (8) 10mm plastic nuts on the bottom of the cover panel.



Note:

Use caution when placing the cover panel back in place, so as not to bend, deform or break the panel.



Step #18
Side Step Installation - DS:

Place the side step onto the brackets of the vehicle. Using M8 x 30bolts, lock washers and standard washers, secure the side step to the brackets. Center the side steps with the side of the vehicle. Torque to specifications.



Note:

There are two (2) M8 x 30 bolt locations on each bracket to attach the side step to the vehicle.



Attention

Torque the M8 x 30 to 40Nm.



Step #19
Side Step Installation:

Repeat steps #02 thru #18 to complete the other side of the vehicle.



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Step #20

Side Step Installation:

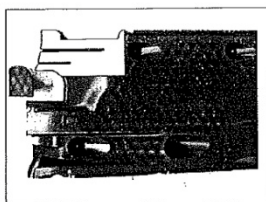
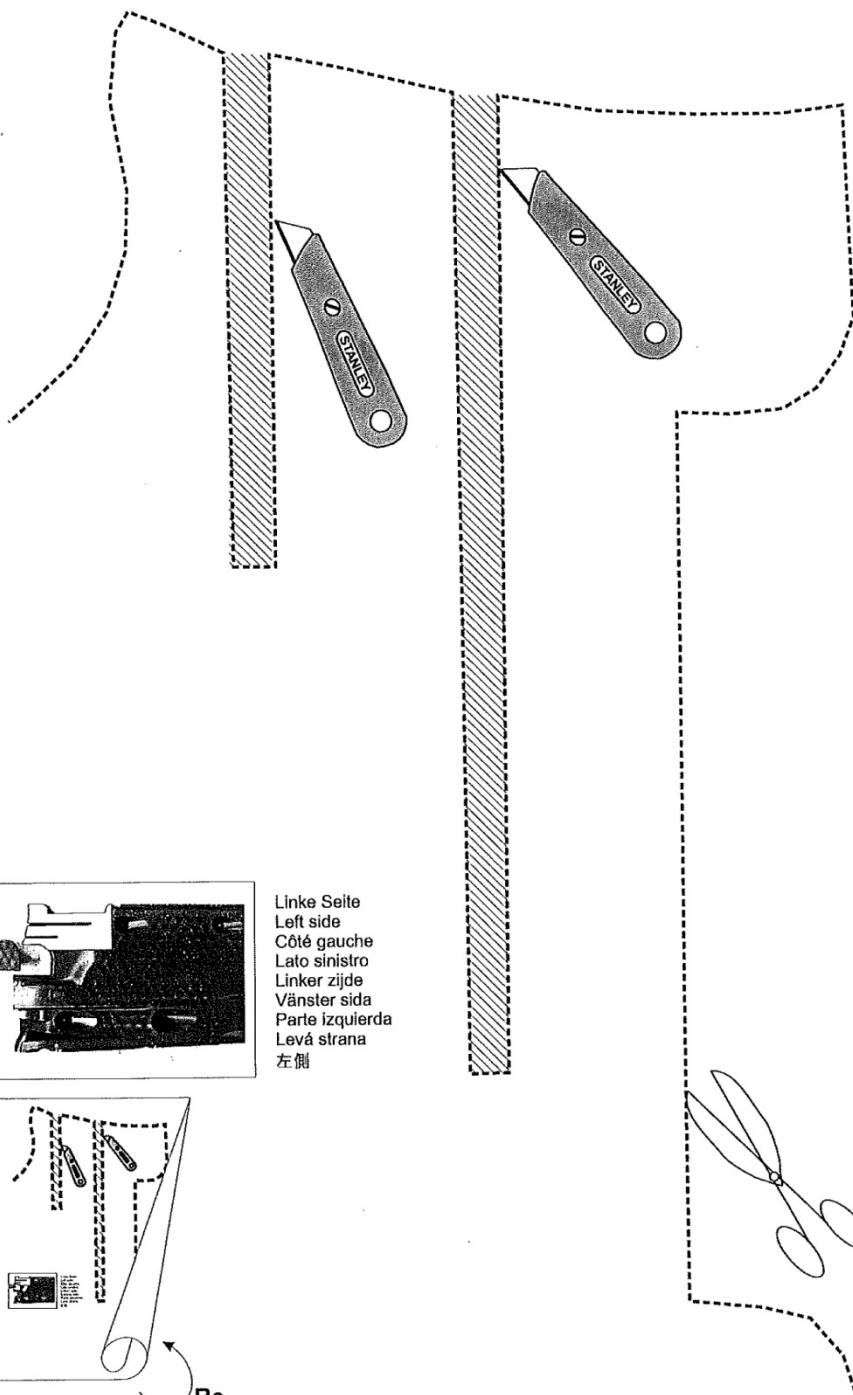
Verify the fitment of the side steps. Verify that they are centered with the vehicle, and firmly fastened.



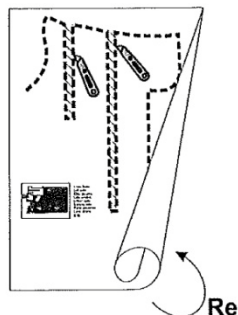


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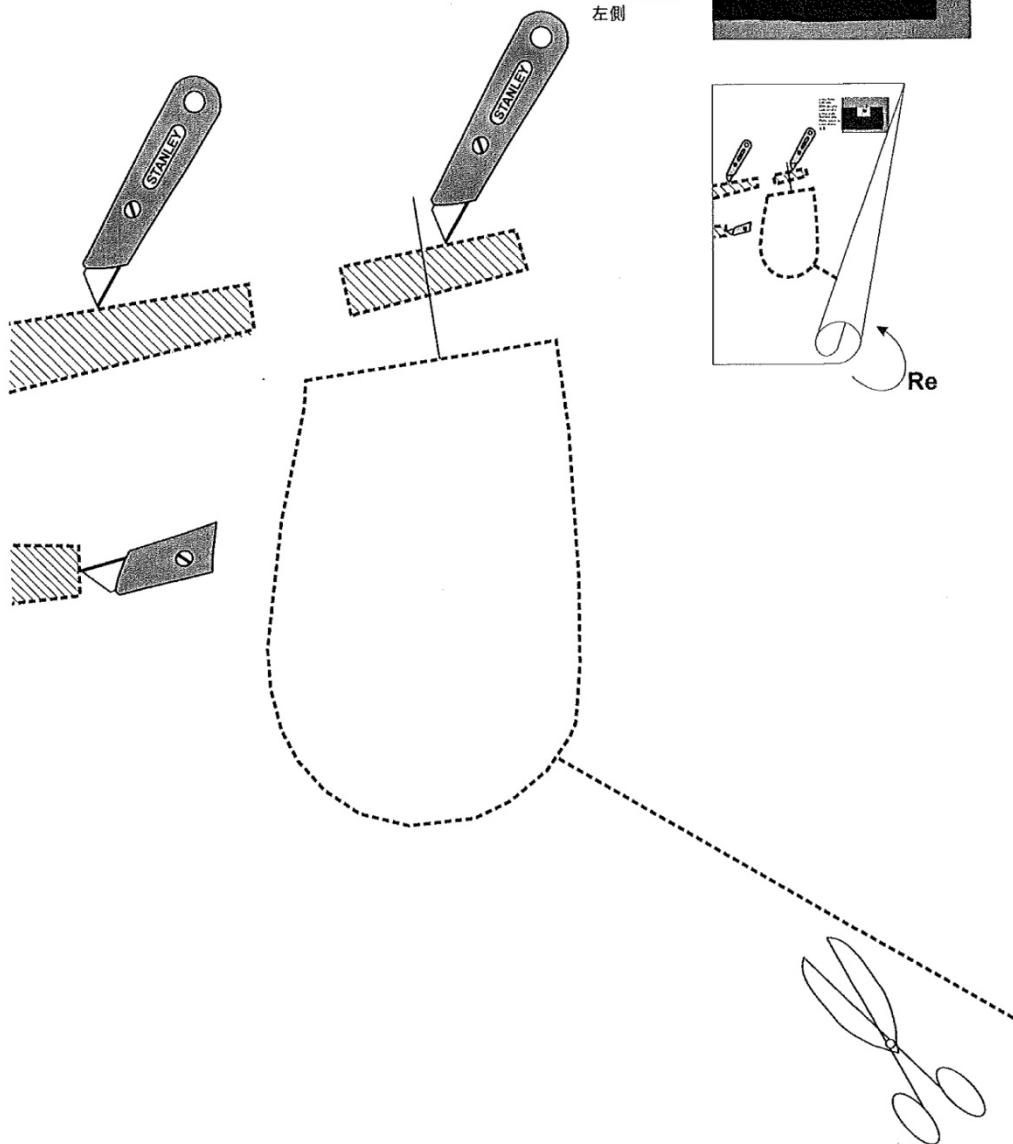
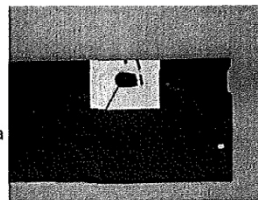


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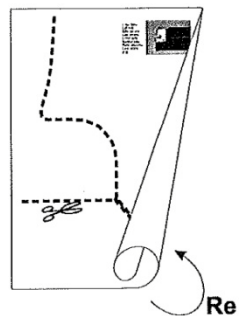
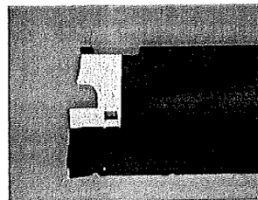
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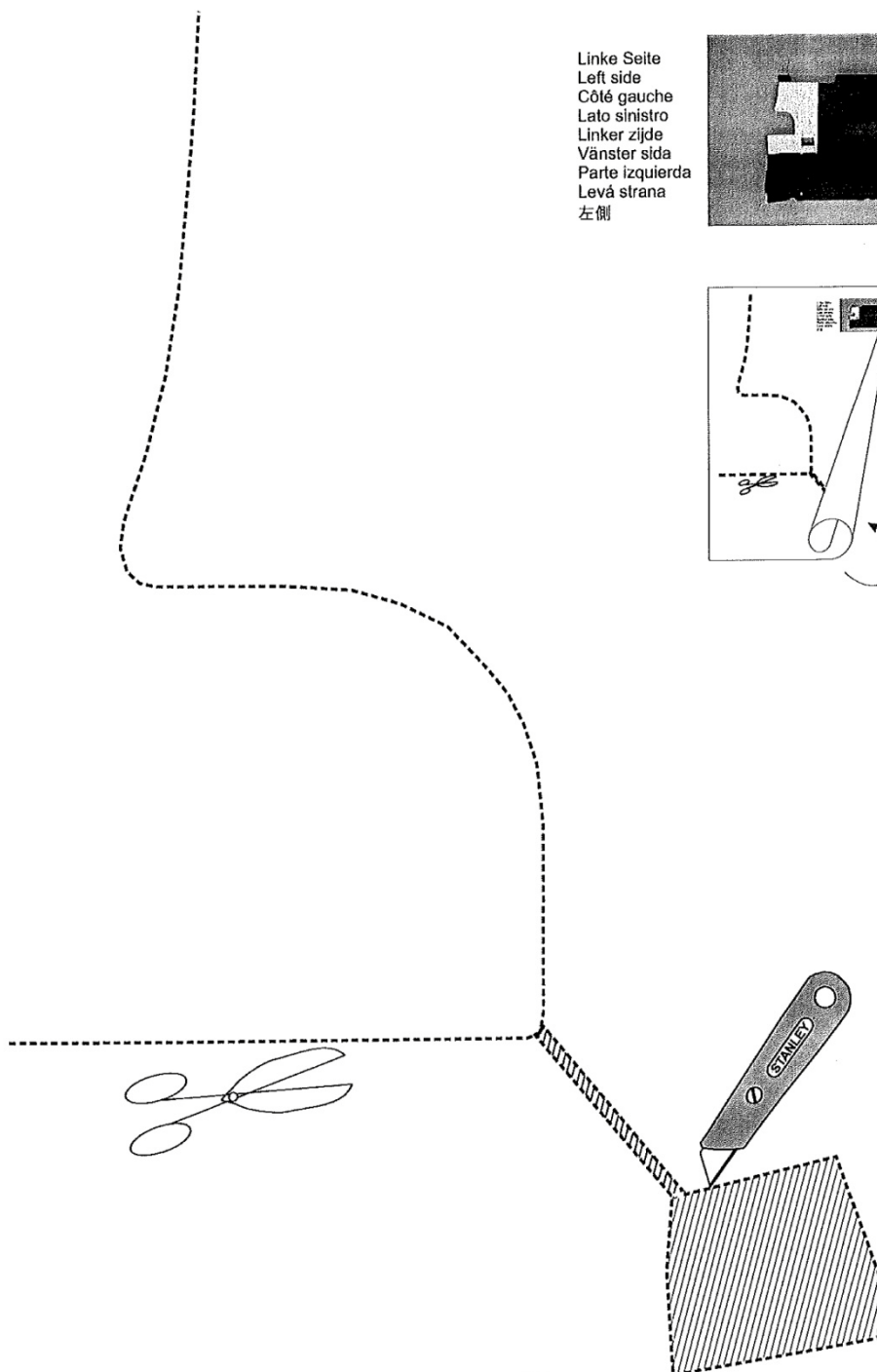


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Private or commercial purposes, in part or in whole, is not permitted.



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.