



Description

Trailer Hitch including electrical kit

Part Number

7L0 092 101 U

Fitment

Description

Touareg

Application

04>

Supplier

Votex GmbH

Published date:

Revision 1

12-02-03

Sections:

Page 1 Installation

Page 16 Appendix A – Installer Notes

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Caution:

Maximum total trailer weight 7,700 lbs. braked, 1,650 lbs. unbraked, maximum tongue weight 616 lbs. Requires optional genuine accessory hitch, may require additional equipment depending upon trailer size. Never use using a weight-distributing or lead hitch on the Touareg. For important general information about safe towing, read "Towing a Trailer – Being Equipped for Safety" published by NHTSA (www.nhtsa.dot.gov/cars/problems/equipment/towing/Towing.pdf).

Read entire instructions thoroughly before starting. Installation should be preformed only by qualified person. Observe all safety precautions when working beneath vehicle. Beware of sharp edges. Always wear safety glasses for eye protection.

Trailer hitches are safety related parts. They must be fitted to the vehicle by skilled staff.

Trailer hitches damaged due to an accident, bottoming or crashing must be replaced.

Any modifications e.g. as bending, machining, welding etc. are not allowed.

In case of modifications warranty will be voided.

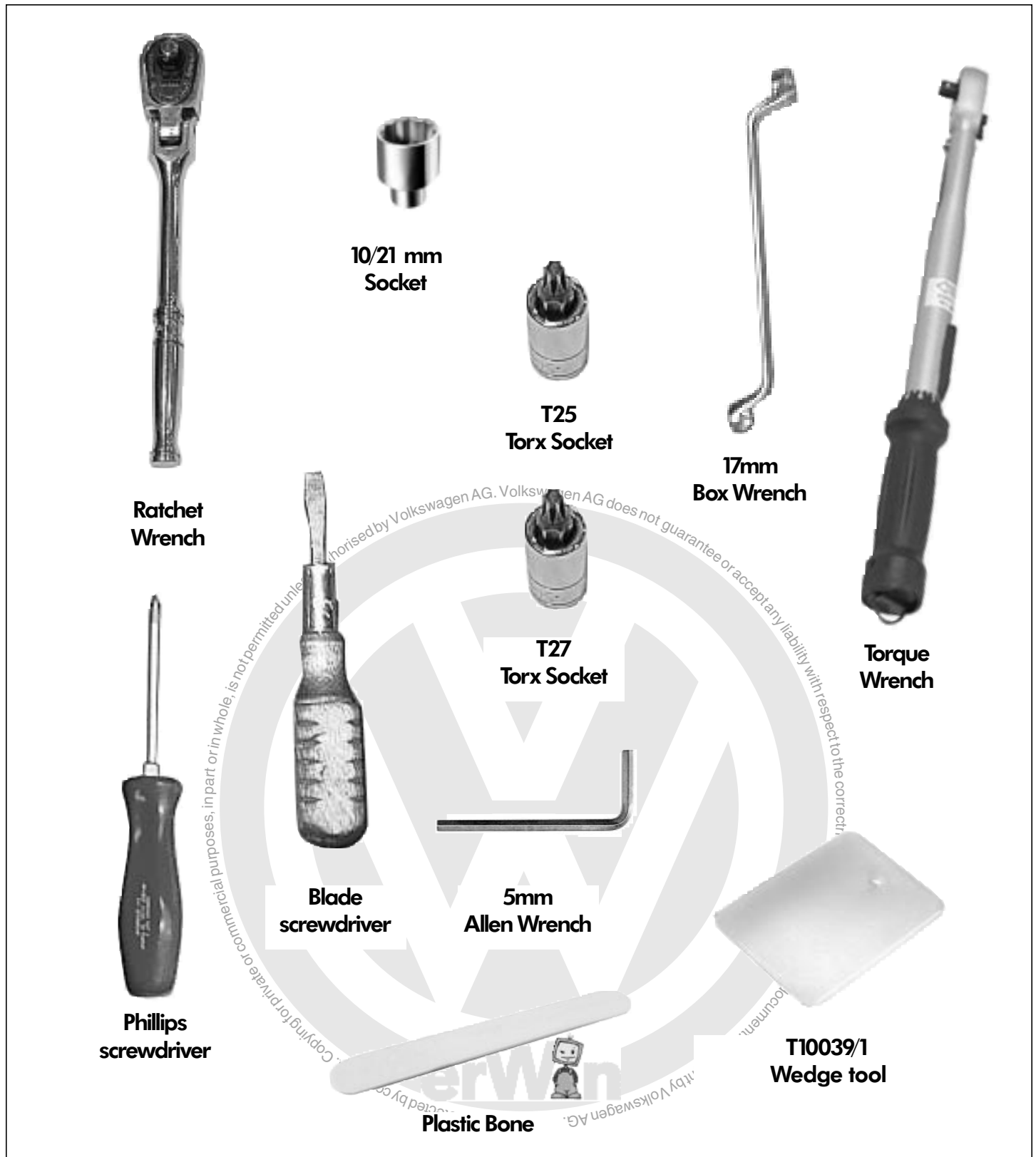


Part Number: **7L0 092 101 U**
Description: **Trailer Hitch**
Including Electrical Kit

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Fitments: **Touareg**

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Tools Required for Trailer Hitch Installation



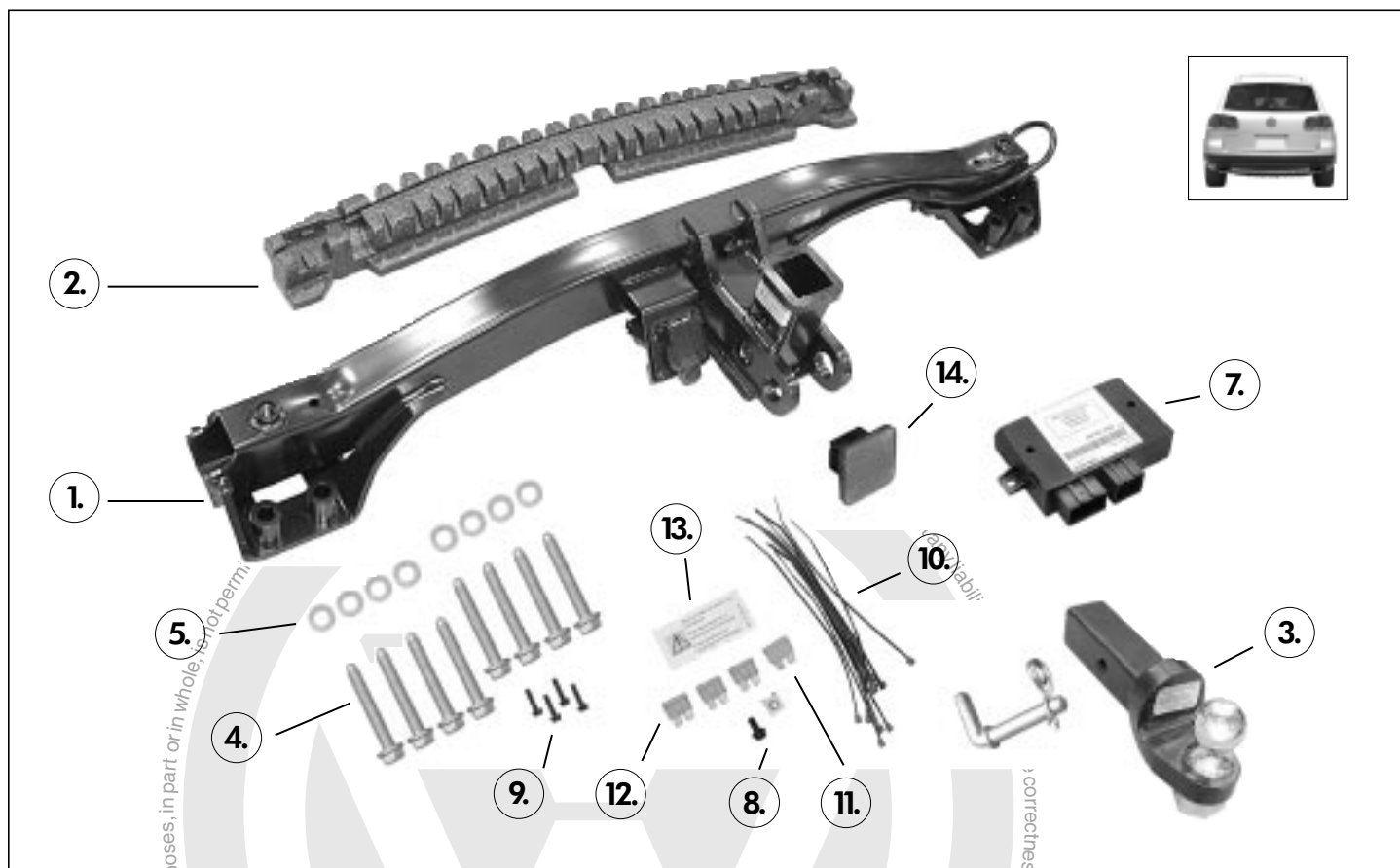


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Description: **Trailer Hitch**
Including Electrical Kit

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04>

7L0 092 101 U Trailer Hitch Installation Kit – For vehicles without external spare wheel



Parts list:

Item	Description	Qty
1.	Trailer hitch incl. preinstalled harnessing and socket	1
2.	Foam layer	1
3.	Ball mount incl. 2" ball (installed) and hook pin	1
4.	Hexagonal flange bolt M 14x1, 5x100 10.9	8
5.	Seal ring	8
6.	Installation and operation manual (not illustrated)	1
7.	Control unit	1
8.	Speed Clip (1) & Bolt M5 (1)	1
9.	Hexagonal bolt M5x12*	4
10.	Cable tie 150 mm	10
11.	Fuse 15 Amp.	3
12.	Fuse 30 Amp.	1
13.	Warning Label	1
14.	Plug, for receiver tube	1

*For vehicle installations with external spare wheel.

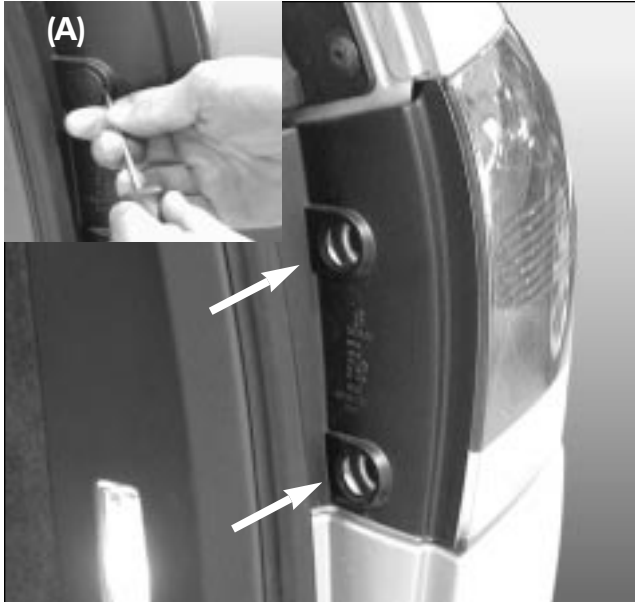


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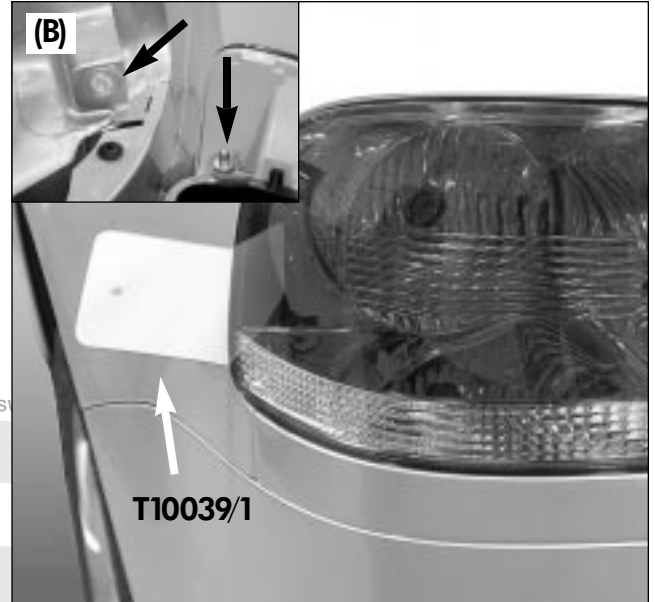
Supplier: **Votex**
Fitments: **Touareg**

04>

Trailer Hitch installation – Removing exterior vehicle body components.



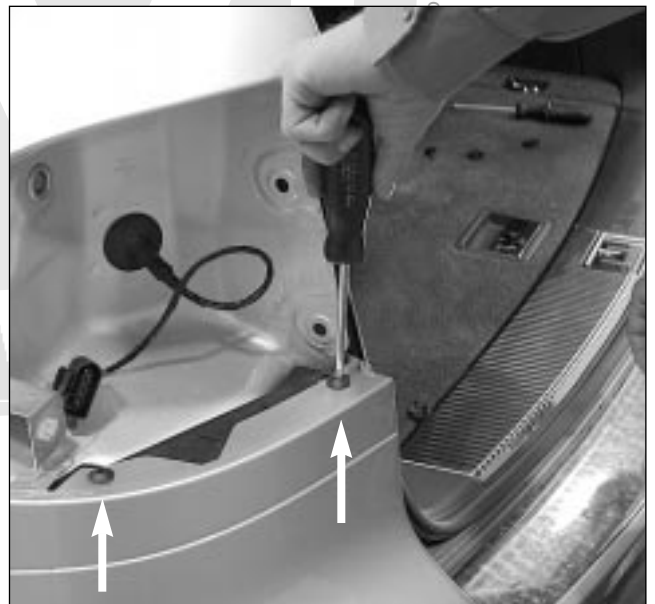
Step#01
Remove screw head trim covers (Insert A).
Remove Torx screws with T-25 Torx screwdriver.



Step#02
Insert wedge tool T10039/1 between body and outer taillight edge. Pull with one hand and pop taillight with wedge tool away from the body until the securing clip (B) releases.



Step#03
Disconnect wiring harness from the taillight assembly.



Step#04
Remove rear impact housing screws at the taillight cavities. (T27)



Part Number: **7L0 092 101 U**
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Including Electrical Kit**

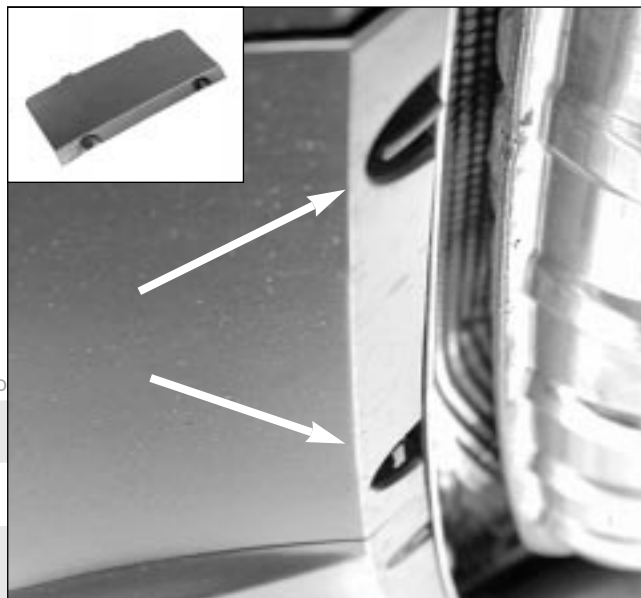
Supplier: **Votex**
Fitments: **Touareg**

04>

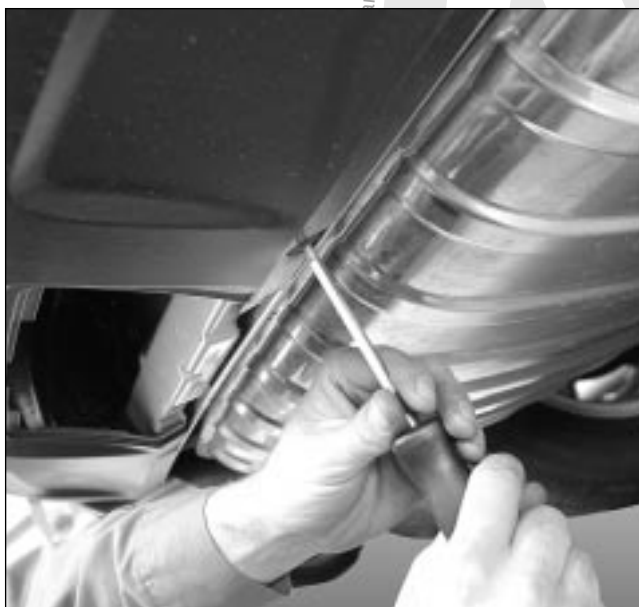
Trailer Hitch installation – Removing exterior vehicle body components.



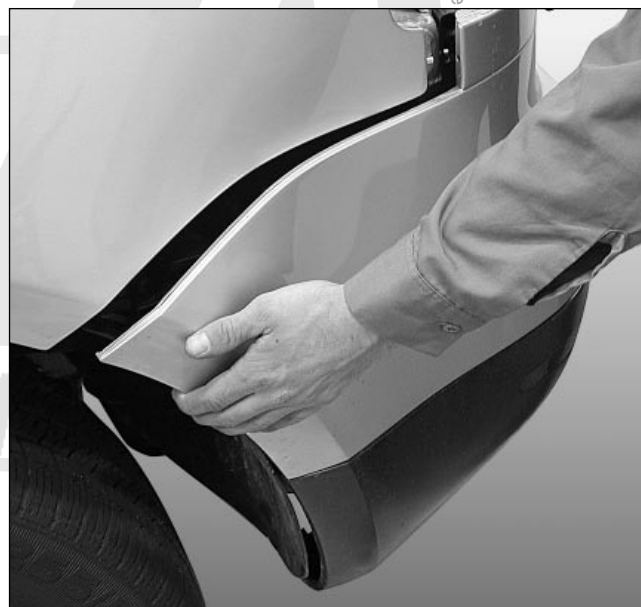
Step#05
Remove rear fascia screws (5/side) from the wheel wells. (T25)



Step#06
Turn the rear fascia lower access panel latches to unfasten the panel.



Step#07
Remove the fasteners (4) along the lower edge of the rear fascia. (T25)



Step#08
Remove the rear fascia part way to access the wire harness.



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Description: **Trailer Hitch
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Fitments: **Touareg**

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Trailer Hitch installation – Removing exterior vehicle body components.



Step#09

Disconnect the rear fascia wiring harness.
Set the rear fascia aside.



Step#10

Remove and discard (8) original rear bumper bolts.



Step#11

Remove the OE keyless antenna from the
foam layer and retain for reinstallation.



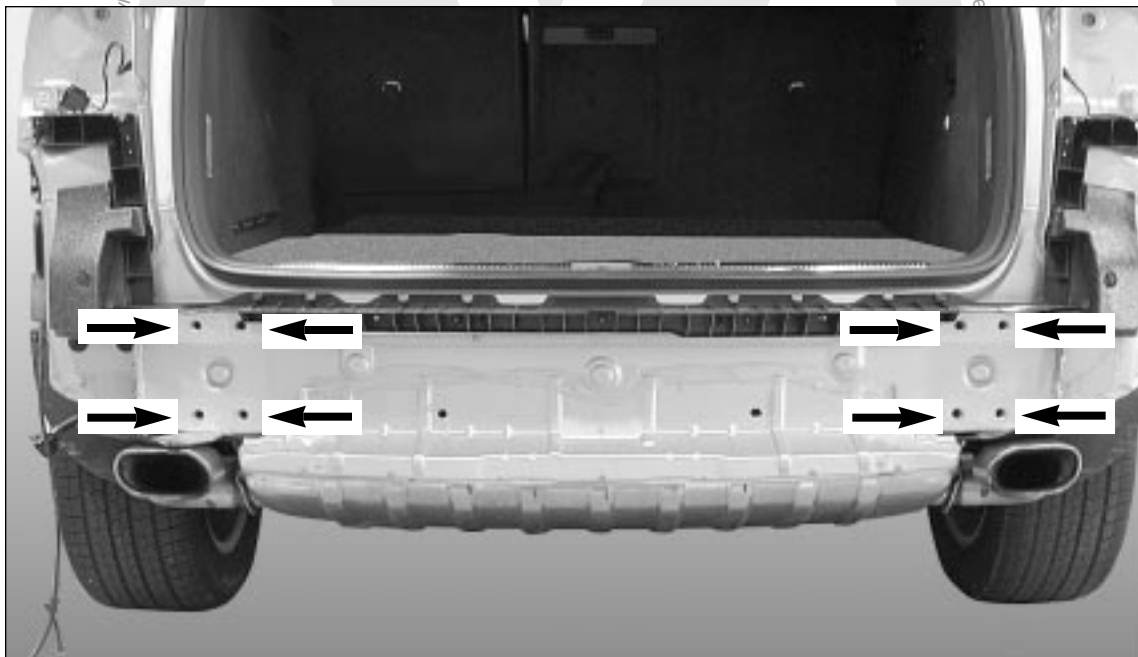
Part Number: **7L0 092 101 U**
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Including Electrical Kit**

Supplier:
Fitments:

**Votex
Touareg**

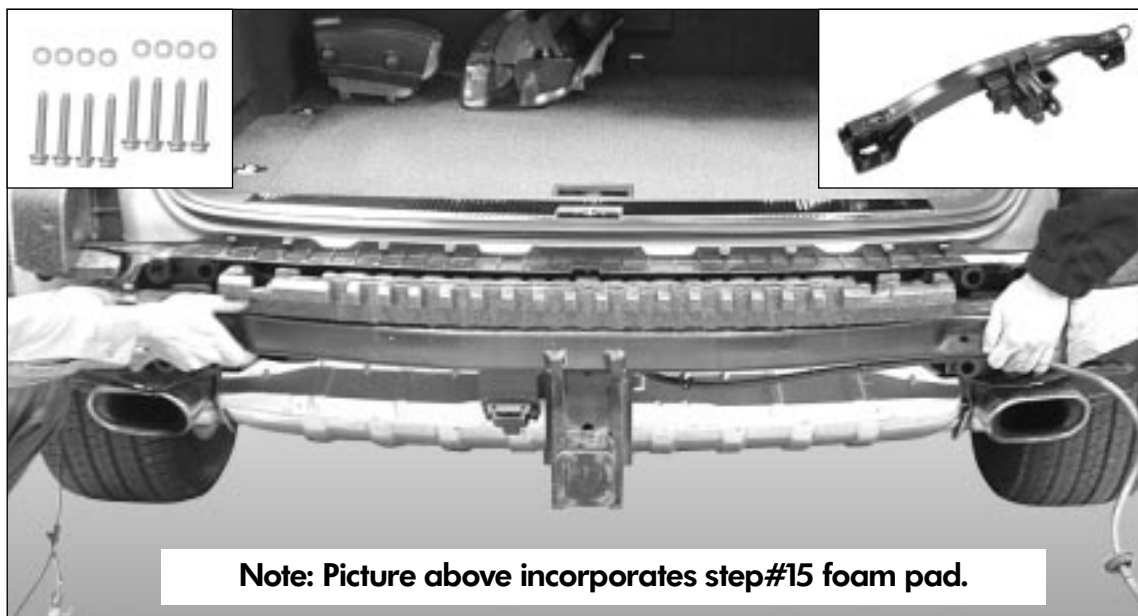
04>

Trailer Hitch installation – Trailer Hitch mounting.



Step#12

Vehicle prepared for trailer hitch mounting. Note location of 8 bolt sockets, and keyless antenna positioned off to the side.



Step#13

Peel off the backing and stick 8 seal rings onto the trailer hitch at the rear bolt holes on the side towards the vehicle. Align the trailer hitch to the vehicle bolt sockets. Position the trailer hitch with supplied hexagonal flange bolts (8) M14x1, 5x100 10.9 prior to torque setting (Step#14).

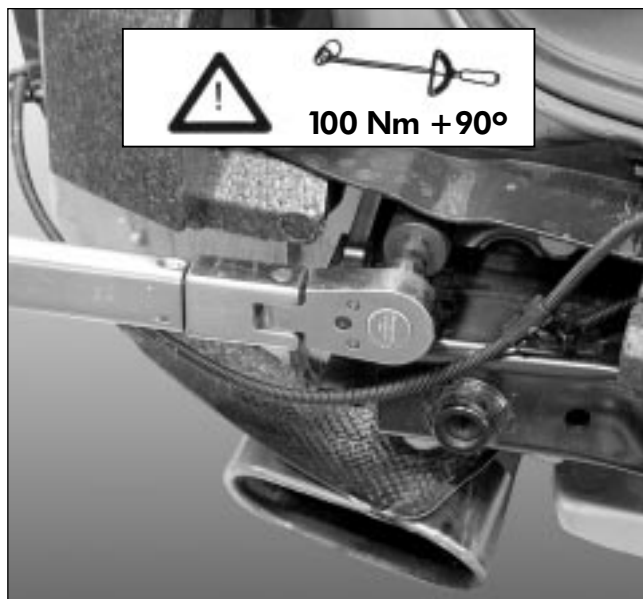


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Supplier: **Votex**
Fitments: **Touareg**

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Trailer Hitch installation – Trailer Hitch mounting.



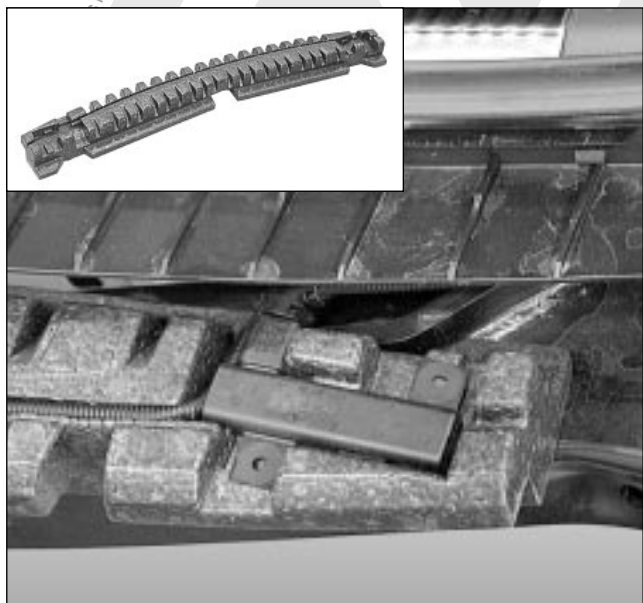
Step#14

Torque the supplied hex flange bolts
100 Nm + 90°, driver and passenger side.



Step#14A

Completed hex bolt installation. Note: Hex
flange bolts to be used one time only.



Step#15

Peel off the backing on the adhesive pads
and hand mount the foam layer onto the
trailer hitch. Reposition the OE keyless
antenna harness into the foam layer slots.



Part Number: **7L0 092 101 U**
Description: **Trailer Hitch
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Supplier: **Votex**
Fittings: **Touareg**

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Trailer Hitch installation – Harness installation.



Step#16

Remove by hand the passenger side protective foam guard from the back panel.



Step#17

Remove the passenger side access panel.



Step#18

Remove the blind grommet off the back panel and discard. Insert the preassembled harness through the hole. Install rubber grommet attached to harness into hole.



Step#19

Reinstall the passenger side protective foam guard.



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Trailer Hitch installation – Removing interior vehicle body components.



Step#20

Unsnap the interior top rear edge panel as shown.



Step#20A

Interior top edge panel removed. Note: Examine the fasteners prior to reinstallation and replace if necessary.



Step#21

Unsnap and remove rear edge panel as shown.



Step#22

Remove the seat striker at the passenger side compartment panel with the 17mm box wrench.



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Trailer Hitch installation – Control unit installation.



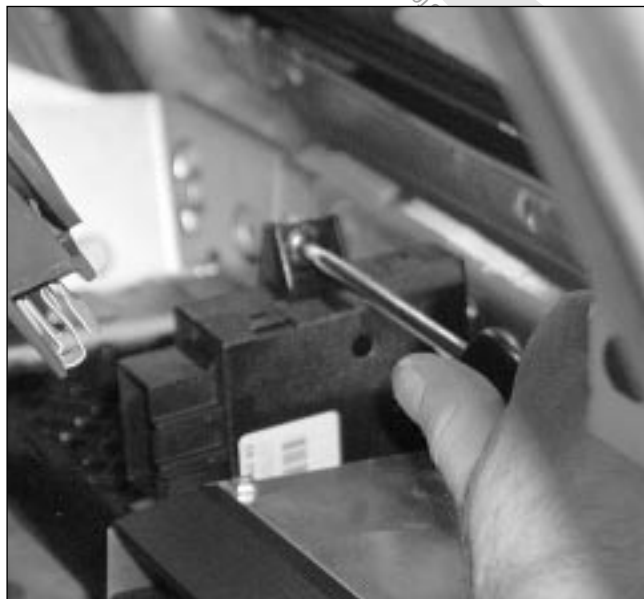
Step#23

Visually locate the mounting box for the control unit. Place the supplied control unit clip over the tab, aligning it to the existing hole.



Step#24

Slide the control unit into the mounting box, aligning the tab hole to the clip. (control box does not sit completely vertical)



Step#25

Fasten the control unit to the clip.



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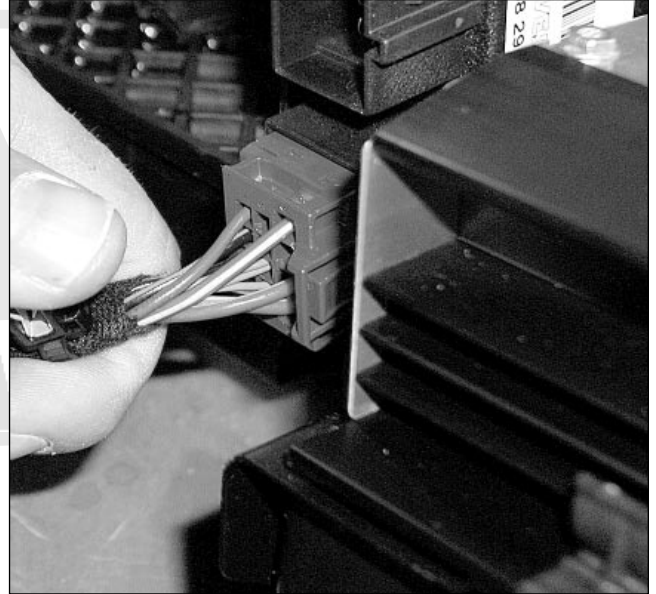
04>

Trailer Hitch installation – Harness installation.



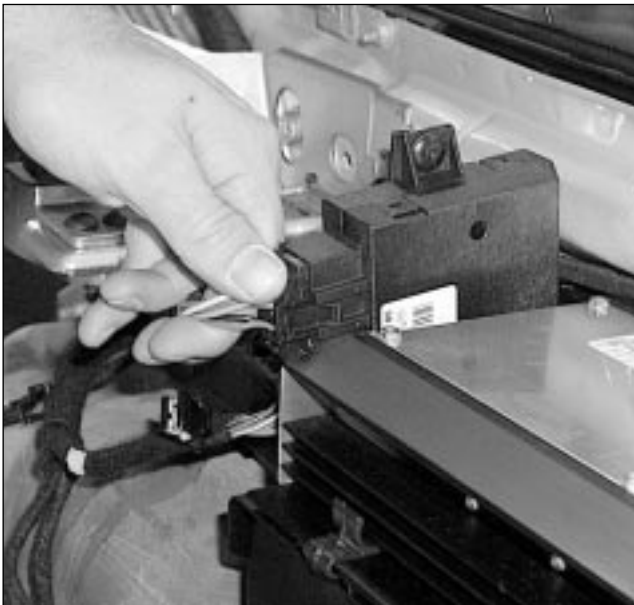
Step#26

Locate the harness connector (12-pin red) which is unattached and near the passenger side wheel well behind the panel.



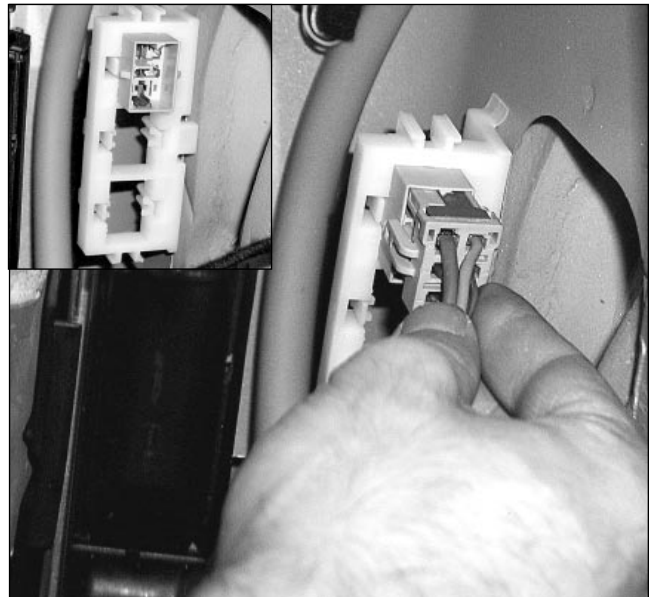
Step#27

Insert the red 12-pin connector vehicle supply system into the control unit (lower position).



Step#28

Insert the black 16-pin connector (from harness) (electric socket supply) to the control unit (upper position).



Step#29

Insert the green 6-pin connector to the upper position of the ground plug connection point and ensure that it snaps into place.



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Trailer Hitch installation – Harness installation.



Step#30
Install the harness from the back panel toward the control unit and fix with cable ties.



Step#31
Note: An electric brake module/booster is not preinstalled. A 4-pin connector with prewiring for electric brake booster is located in the left dash panel, above the knee bar. See repair manuals for dash assembly and wiring diagrams for pin assignments.

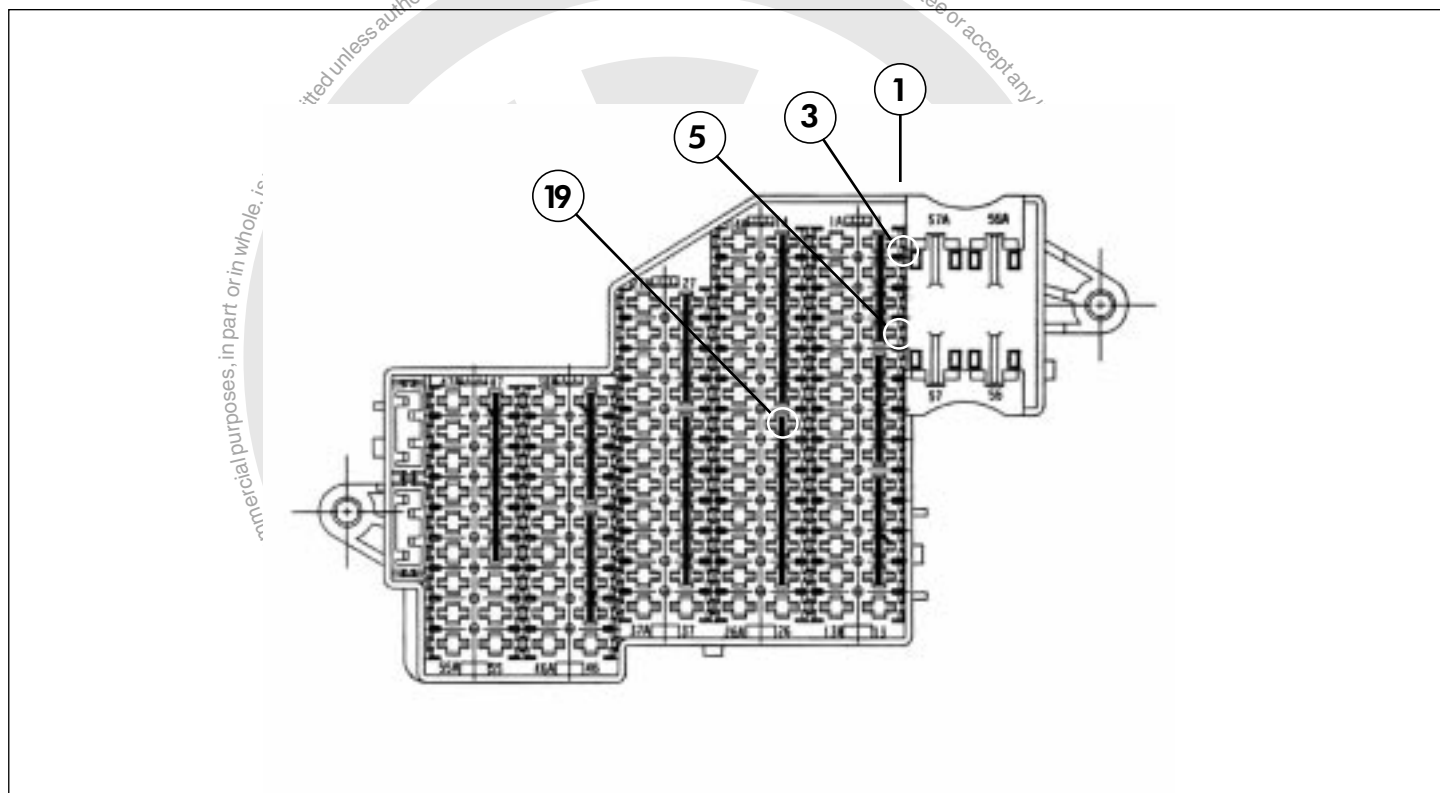


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Fitments: **Touareg**

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Trailer Hitch installation – Fuse installation.



Step#32 Fuse Installation

All fuses have to be installed in the fuse box located on the instrument panel, right front side. Pry off the fuse box cover and install:

1x fuse 30 Amp. in No. 19

3x fuse 15 Amp. in No. 1, No. 3, and No. 5.

Function Test: Use suitable equipment for confirmation of socket function, trailer and equivalent power consumers.

Note: A system check must be performed with VAS5051 Diagnostics.

Go to address 69 (trailer function).

Go to 07 (control unit).

Press 2 to reprogram module for brake light function.

Note: See electrical brake information on Page 13.

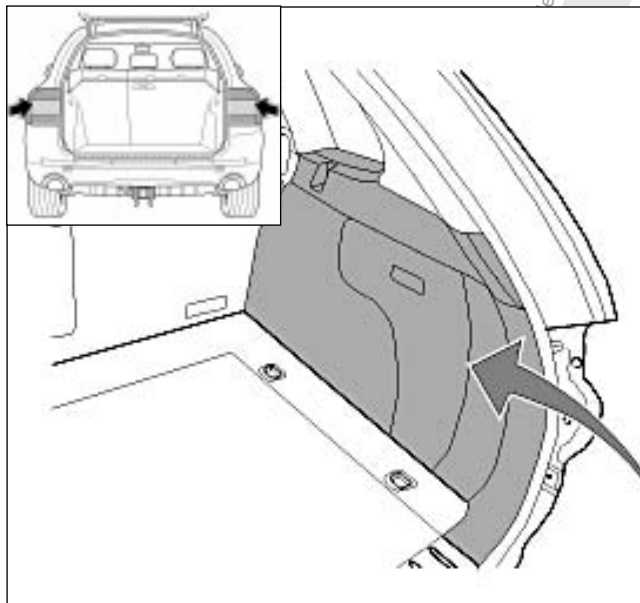


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Trailer Hitch installation – Reassembly.



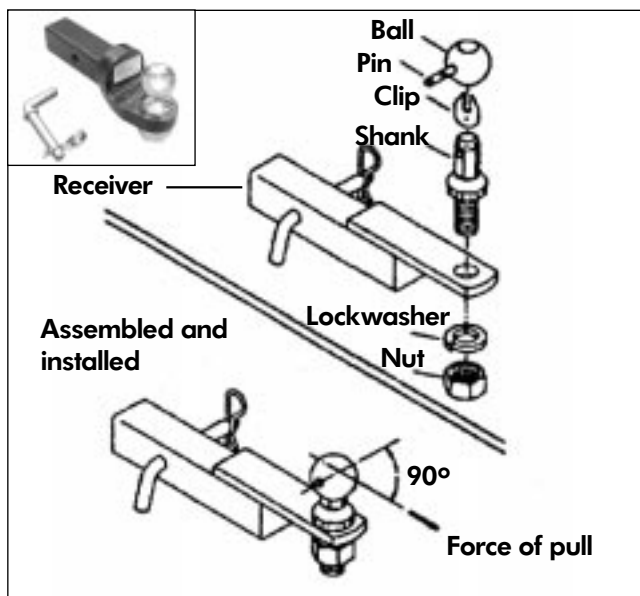
Step#33

Reinstall all interior and exterior trim and panels, taillight assemblies, and rear fascia.



Step#34 Reinstall the rear edge panel

Align and set the fasteners for the rear edge panel in sequence from the inside bottom, outside bottom, then the top.



Step#35

Note: Tightening of 2 in. ball 1 1/4" shank diameter: 610 Nm.

Note: Ball mount comes pre-assembled.

Drawing for reference only.



Description **Trailer Hitch including electrical kit**

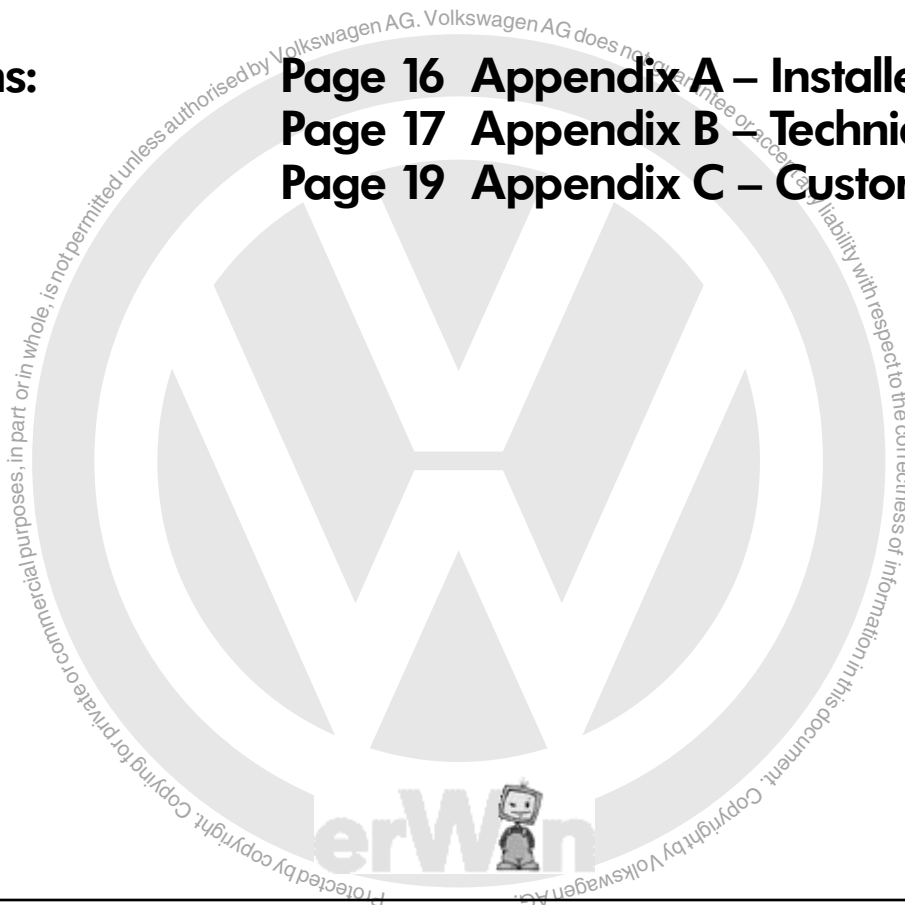
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Fitment **Description** **Application**
 Touareg **04>**

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Published date: **Revision 1**
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Appendix A– Installer Notes.

Enclose the following page in the owner's manual and inform the customer.

Advise the customer to read the safety instructions you have enclosed in the owner's manual before using a trailer and recommend that he keeps the safety instructions in the vehicle, so that he can refer to them whenever necessary.

The trailer hitch may only be used with suitable ball mount and ball. Usage only with suitable coupling. When towing a trailer attach the safety chains to the lugs provided. Any other use of the trailer hitch is prohibited.

Installer– Attach Warning Label If Applicable

An electric brake for the trailer is not preinstalled. If no electric brake module is retrofitted be sure to apply the enclosed adhesive label with the warning "no electric brakes" next to the adhesive label (ball position) or dash board in good visible area on cleaned surface.

Safety Instructions:

Remove body sealant in the contact area of the trailer hitch.
Clean the body parts in the contact area using a mild and non-abrasing detergent.

All bolts and nuts shall be used only one time.



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Appendix B- Technical Bulletin Number 03-03 (1 of 2)



Important!

Please give copies to all
your VW Technicians

Technical Bulletin

Subject: Tail Light Assembly, Removal Procedure

Group: 94

Number: 03-03

Model(s): Touareg

2004 ➤ See VIN below

Date: Sept. 30, 2003

Condition

If care is not taken, tail light assemblies may break during removal process.

Production

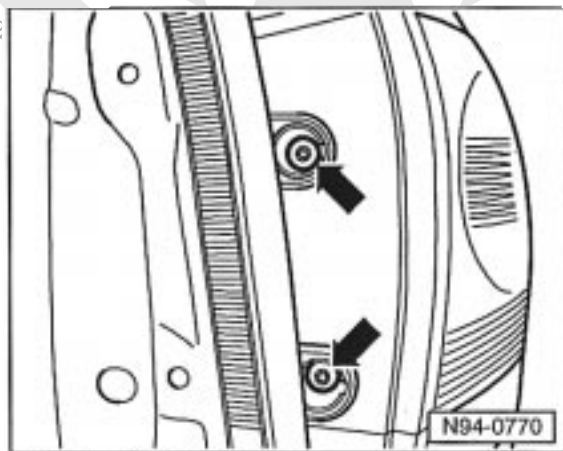
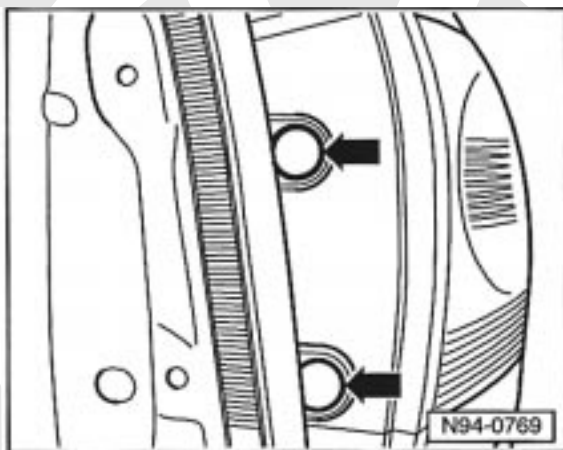
Enlarged fastening receptacle in body assembly beginning VIN: WVGCM67L84D016297

Service

If repair requires tail light removal, use the following procedure:

Tail light, Removing

- Open rear lid.
- ◀ - Remove screw head trim covers -arrows-.



- ◀ - Remove Torx screws with T-25 Torx screw driver.

Note:

In addition to the screws, the rear light housing is secured by a ball head in a securing clip, finish removal as follows.

C 94-03-03

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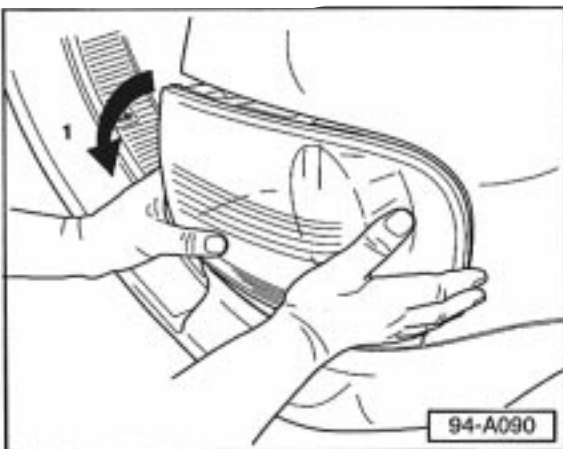
Appendix B- Technical Bulletin Number 03-03



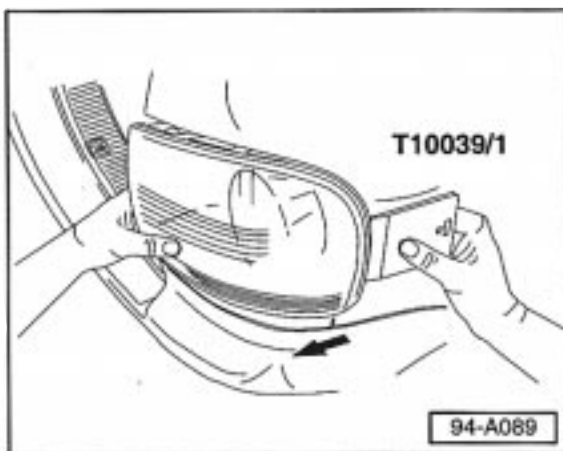
Important!

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Technical Bulletin



- Turn tail light in direction of -arrow- towards outboard side of vehicle until upper edge of tail light housing becomes visible.



- Insert wedge tool T 10039/1 between body and outer edge of tail light.
- Pull simultaneously with one hand and pop tail light (with wedge tool) in direction of -arrow-, until tail light is released.
- Disconnect wiring harness from the tail light assembly.

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Appendix C–Customer Safety

Warning: Consult your owner's manual for maximum vehicle towing capacity and recommended towing procedure. When towing a trailer make sure that the mechanical junction and electric plug / socket are correctly connected and that the electrical wire between vehicle and trailer cannot touch the ground. Before trailer usage check the trailer lighting for correct function (turn, brake, ...).

The vehicle length and the vehicle handling are altered when towing a trailer. Adapt your driving style and speed accordingly. It is not possible for the vehicle manufacturer to check all types of trailer or accessories in all combinations and to issue the relevant recommendations. The vehicle driver is personally liable for his vehicle – trailer combination and/or accessories.

To avoid possible damage any electrical adapter and ball mount must be removed when not in use. Never exceed the ratings of all used components. See referring labeling and/or stamping and data in your owner's manual.

This trailer hitch is designed to carry safely the loads specified on usual traffic roads.

Never exceed the vehicle manufacturer's recommended towing capacities.

The following trailer and tongue weights are authorized for the trailer hitch:

Max. trailer weight, braked: 7,700 lbs.

Max. unbraked trailer weight 1,653 lbs

Max. Tongue Weight: 616 lbs.

The trailer hitch may only be used with suitable ball mount and ball. Usage only with suitable coupling.

When towing a trailer attach the safety chains to the lugs provided.

Any other use of the trailer hitch is prohibited.

Maximum total trailer weight 7,700 lbs. braked, 1,650 lbs. unbraked, maximum tongue weight 616 lbs. Requires optional genuine accessory hitch, may require additional equipment depending upon trailer size. Never use using a weight-distributing or lead hitch on the Touareg. For important general information about safe towing, read "Towing a Trailer – Being Equipped for Safety" published by NHTSA (www.nhtsa.dot.gov/cars/problems/equipment/towing/Towing.pdf).

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.

