



**Model:** Tuareg 660

**Subject:** Resolving premature battery discharge

Dear Dealer / Service Center / Authorised Workshop,

As part of our continuous and stringent quality sampling plans for the components installed in our vehicles, our continuous search for new and better technical solutions and our attention to our customers, we hereby provide you with a guide to resolve a problem of premature battery discharge in the event a Tuareg 660 is not being used for 15 days (control of instrument panel current draw).

As noted in the Tuareg 660 owner's manual,

**IF THE VEHICLE IS INACTIVE FOR MORE THAN FIFTEEN DAYS, DISCONNECT THE 30A FUSE TO PREVENT THE BATTERY FROM DETERIORATING DUE TO THE CONSUMPTION OF CURRENT BY THE MULTI-FUNCTION COMPUTER.**

|                        |                                                               |
|------------------------|---------------------------------------------------------------|
| <b>Fault</b>           | Premature Battery discharge during a 15 day period of non-use |
| <b>Possible causes</b> | A: Battery malfunction                                        |
|                        | B: Instrument panel malfunction                               |

## TROUBLESHOOTING GUIDE

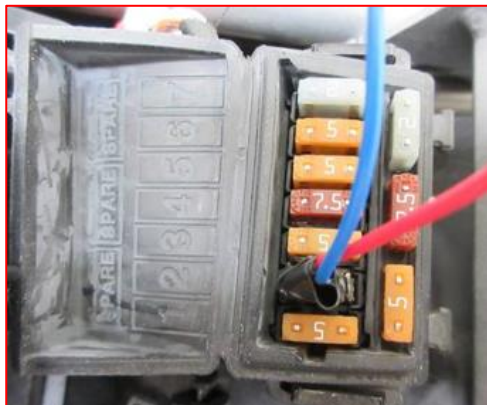
### TEST 1: Absorption control

#### Test

#### WARNING:

The test must only be carried out with the key switch in the OFF position in order to avoid electrical damage to the measuring instrument.

Remove the 7.5A fuse (instrument panel supply line) and connect a current tester with a scale of 400/500 mA. **Note: Amp draw tests are not DC voltage checks (Black lead of meter is not connected to ground).** Your meter must have a mA setting available and typically the “+” lead must be moved to a different location at the base of your multimeter for mA tests. Red wire below connects to one side of fuse terminal and blue wire connects to other side of fuse terminal. Multimeter leads are then connected to the ends of each wire , as you are measuring the current flow through the fuse circuit. If you are unsure of how to do this measurement, please consult your technical representative. Do not forget to move meter leads back to their normal locations for DC voltage checks, otherwise the amp fuse inside the meter will blow immediately upon doing a DC voltage check.



|          |                                                                                                                                                                                                                                                                                                                                                                                   |
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|          | <p>The value shown by the instrument after a few seconds will be the current draw of the instrument (in the example photo below, the current draw is 10.265 mA, meaning faulty instrument panel)</p>                                                                                            |
| <b>A</b> | <p>Normal draw: 0.2 to 5 mA → <b>Only replace the battery if proper charging does not restore the battery above 13 volts. Note: Vehicles that sit idle for more than two weeks (including showroom bikes) should have the 30 amp fuse removed to prevent battery draining. A scenario where the fuse is not removed, excludes the battery for replacement under warranty.</b></p> |
| <b>B</b> | <p>Abnormal draw : greater than 5 mA → <b>Replace the instrument panel</b></p>                                                                                                                                                                                                                                                                                                    |

- **Normal battery recharge current for Tuareg lithium battery: 2 amps**
- **Charging voltage: Must be between 14.4 and 14.8 volts**
- **Cannot use pulse charge or automatic de-sulfation types of charging**

|              |                                                                                                                                                                                    |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Note:</b> | <p>Please attach a photo to claim displaying the results of the measurement carried out with the warranty request (as shown above), <b>otherwise the claim will be denied.</b></p> |
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Please contact the Technical Help Desk of our Technical Support Service for any queries or assistance.

Best regards,

Piaggio & C. SpA  
Aftersales Business Unit  
Operations & Technical Service