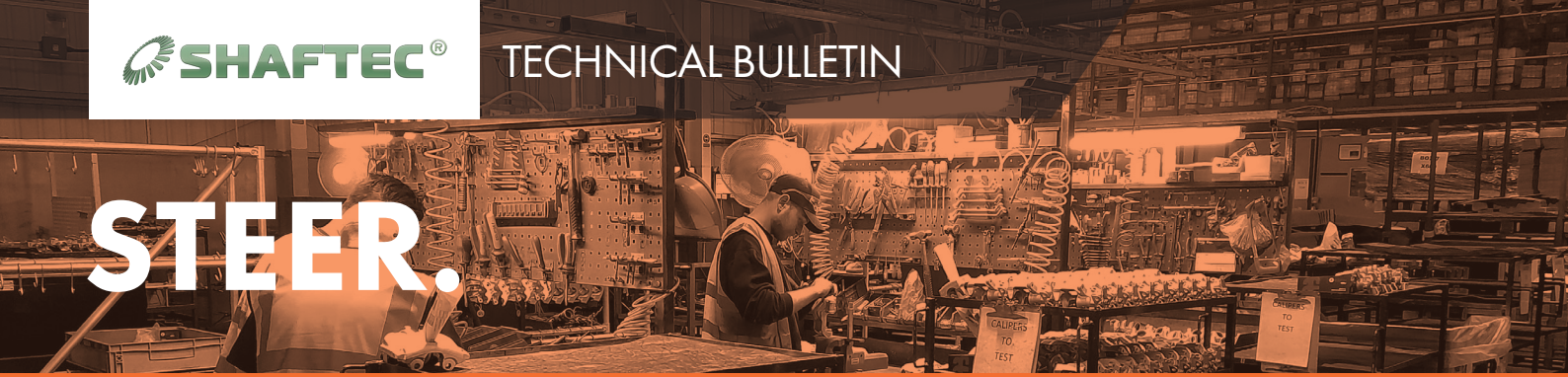




STEER.

INSTALLATION OF VW ELECTRIC STEERING RACKS

Required adjustments for installation of Electric Steering Racks

It is possible that after the installation of the electric steering rack it may be necessary to perform the following actions:

1. **Cleaning errors** by the diagnosis device.
2. The steps to carry out for torque sensor calibration of the rack are:
 - a. Switch on the car ignition and start the engine.
 - b. Centre the steering wheel (wheels straight) and keep it in that position for 5 seconds approximately.
 - c. Turn the steering wheel completely to the left and keep it in that position for 2 seconds approximately.
 - d. Turn the steering wheel completely to the right and keep it in that position for 2 seconds approximately.
 - e. Centre the steering wheel (wheels straight).
 - f. Switch off the car ignition and stop the engine.
 - g. Switch on the car ignition again.
 - h. Wait for 5 seconds.
 - i. The warning light should switch off, if not, you should take a short test drive. If the warning light is still on, repeat the procedure increasing the time between step (f) and (h) for 45 seconds.

Steering wheel sensors adaptation and resetting

If you disconnect the battery the yellow steering wheel symbol and the ESP/traction control symbol will be lit. You must reset the steering sensors. Normally this is done through normal driving and the steering wheel symbol will reset by itself. If it still doesn't work, use a VCDS to thoroughly check the steering system and reset it

Steering angle sensor (G85) reset

Note: This applies only for Models with Conti/Teves MK70 ABS/ASR. For Conti/Teves MK60 ABS/ASR/ESP look at vehicle specific procedures in ABS system documentation.

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STEER.

Continued

Prerequisites:

Start the vehicle.

Turn the steering wheel one turn to the right and one turn to the left.

Drive in a short distance straight line on a level surface at a speed not higher than 20 km/h.

If the steering wheel is straight during the test drive then stop the vehicle with the wheels pointed straight.

Ensure that the steering wheel is not moved again.

Keep the engine running and do not switch off the ignition.

System voltage at least 12.0 V.

Note: After successful basic setting, the Steering Limit Stop needs to be adapted too.

With the engine running, center the steering wheel ($\pm 10^\circ$) and hold it centered for 5 seconds.

Turn steering wheel completely to the left and hold it there for 2 seconds.

Turn steering wheel completely to the right and hold it there for 2 seconds.

Centre steering wheel ($\pm 10^\circ$).

Switch the ignition to "OFF".

Switch the ignition to "ON" and wait 5 seconds.

The yellow steering wheel symbol on the instrument cluster, the steering assist warning lamp should turn off. If it doesn't, perform a short test drive.

Checking Steering Torque Sensor (G269)

Prerequisites:

Ignition ON

Engine ON (Idle)

System voltage at least 11.0 V.

Turn the Steering Wheel multiple times completely to the left and right. The Torque Values should change.

If the Torque Values do change, it's most likely an intermittent Fault in the Wiring/Connectors.

If the Torque Values do NOT change, the Sensor itself or the Power Supply (Terminal 15) might be faulty.

