New Touareg Replacement Brake Pad Special Function Operation Document

Please note:

1. The update software only supports Windows 7/8/10. It doesn't support Mac laptops.
2. Windows 8/10 system can run updated software directly. Only Windows 7 needs to install drivers before updating the VD500/VD700.
3. For WIN7 user, the 32-bit OS driver is X86, 64-bit OS driver is X64. After successfully installing the driver, you can connect the VD500/VD700 to the computer via USB. Then open the software to update the device.

1. The main steps

Contains the following two sub-functions：

(1)Drive EPB Motor to installation Pos. (This function can only be executed when a new brake pad needs to be replaced)

(2)EPB Basic Setting(After replacing the new brake pads or after the EPB system code is executed)

2. Drive EPB Motor to installation Pos.

The following steps will be performed for this test program:

1. Check the event memory for entries that could prevent the installation position from being reached

2. Move the parking brake motors to the installation position

Note:

By moving to the installation position,the electromechanical parking brake loses its basic setting.After the work on the parking brake has been completed,the basic setting of the elctromechanical parking brake must be carried out again.

Then: The motors for the electro-mechanical parking brake are now in the installation position.

Finally, Switch the ignition off.Pull out the connector from the left and right parking brake motors (V282 and V283). After performing any work on the parking brake motor, it is necessary to re-initialize the basic setting of the electro-mechanical parking brake.
The test 53 - Basic adjustment electro-mechanical parking brake assists you with this task.

3. EPB Basic Setting:

In this test program the following steps will be performed:

1 . Check for correct coding of the electromechanical parking brake control module -J540

2. Check the clearance of the electro-mechanical parking brake

3. Check the run-in procedure of the electro-mechanical parking brake by applying the brake linings of the parking brake while driving

4. Complete the basic setting by activating the parking brake motors and checking that the basic setting is performed correctly

Test requirement:

1. Vehicle ready to start
2. Start/Stop system deactivated
3. Flat surface with sufficient length (25 m) for the run-in procedure

Procedure：

1. The vehicle must be standing on a flat surface; the electromechanical parking brake is automatically engaged and released.

2. The coding of the electromechanical parking brake control module -J540 was successfully performed.
-Depress brake pedal and hold depressed.
- Activate the electromechanical parking brake button -E538 once, release in direction (press button).

3. Depress brake pedal and hold depressed.
- Activate the electromechanical parking brake button -E538 once, apply in direction (pull button).
Press <OK> to continue

4.Take foot of brake pedal.

The initial setting of the parking brake motors will be checked.

(1). Switch the ignition off. Leave the ignition off for 5s
(2). Start engine and let run at idle.

The grind-in process of the parking brake system will now begin.

Requirements:

a. Start/Stop system deactivated
b. The vehicle is parked on level ground
c. Sufficient space in front of the vehicle (25m)
d. Engine at idle

Note:

The grinding-in process for the parking brake is carried out in multiple steps that are extended until a grinding-in path of 222 m is reached.

- As illustrated in the function test instructions, the test and measurement devices must sit flat on the front passenger's lap while he is operating them.

Procedure for all other vehicles:

- Secure the testing and measuring equipment on the rear seat with a seat belt and have it operated by a second person in the back seat.

When you are ready for the real test, press the <OK> button.

5. Select transmission position -D-. Keep the brake pedal depressed. The time will then count down.

6. Keep the brake pedal depressed and leave the transmission in position -D-.
Accelerate the vehicle as prompted quickly to 10km/h, retain this speed and stop when prompted or before you reach the next obstacle.
Continue by pressing <OK>

7. Keep the brake pedal depressed until you are instructed to drive off.
- Select transmission position -D-.
Continue to keep the brake pedal depressed.
Drive off in 4 seconds
- When the time has elapsed, quickly accelerate the vehicle to 10 km/h and stop when prompted, or in front of the next obstacle.

8. Drive off now

9. Bring the vehicle to a complete stop.

10. The grind-in process was performed successfully.The parking brake must now cool for 30 seconds. Leave the parking brake button deactivated. Select transmission position -P-. The vehicle must remain at a standstill. Let the engine continue to run.

11.The basic setting of the electro-mechanical parking brake was performed successfully. The system is now usable.