

2011 BMW E93 Active Steering Activation Operation

Measured models:

BMW 325i, 2011 model, VIN = WBADX7101BE61 ****.

Function description:

Suitable for BMW E93 active steering activation function.

Precautions:

1. If the vehicle has a manual transmission, press and release the clutch pedal;
2. The vehicle is stationary;
3. The parking brake is in the parking state;
4. For manual transmission, shift the gearshift to neutral position;
5. For automatic transmission, shift the shift lever to the P position;
6. Strictly follow the steps.

Measured scene

11 BMW E90, 335i, steering system is hydraulic system and motor system. The fault phenomenon is the abnormal sound of the steering power pump. Turning the steering wheel will shake the arm. The steering gear, booster pump, high and low pressure oil pipes, and steering oil pot have been replaced. The problem has not been resolved afterwards.

Reading the fault displays the following information:

AL active steering system has no fault storage;

The data flow shows that the steering valve servo valve current of 870mA is normal, but the booster pump ECO solenoid valve current is 420mA and does not change, indicating that it is abnormal;

The data stream shows that the steering wheel steering angle is normal, but the steering wheel steering angle and the steering wheel steering angle are not synchronized normally, and the normal situation should be converted into a multiple relationship by the motor.

Steps:

1. Select BMW V49.33 or higher;
2. Select manual selection;
3. Select 3 series;
4. According to the measured vehicle, select 3`_E90 / E91 / E92 / E93;
5. Select the chassis section;
6. Select AL (active steering control);
7. Read the data flow, as shown in Figure 2, pay attention to the changes in servo valve current and ECO (economic) valve current;

Name	Value	Unit	English	Metric
Control-Unit Internal Temperature	55	degree C		
Current, Servotronic Valve	205.000000	mA		
ECO Valve Current	860.000000	mA		
ECO Valve Status	O. K.			
Status, Servotronic Valve	O. K.			

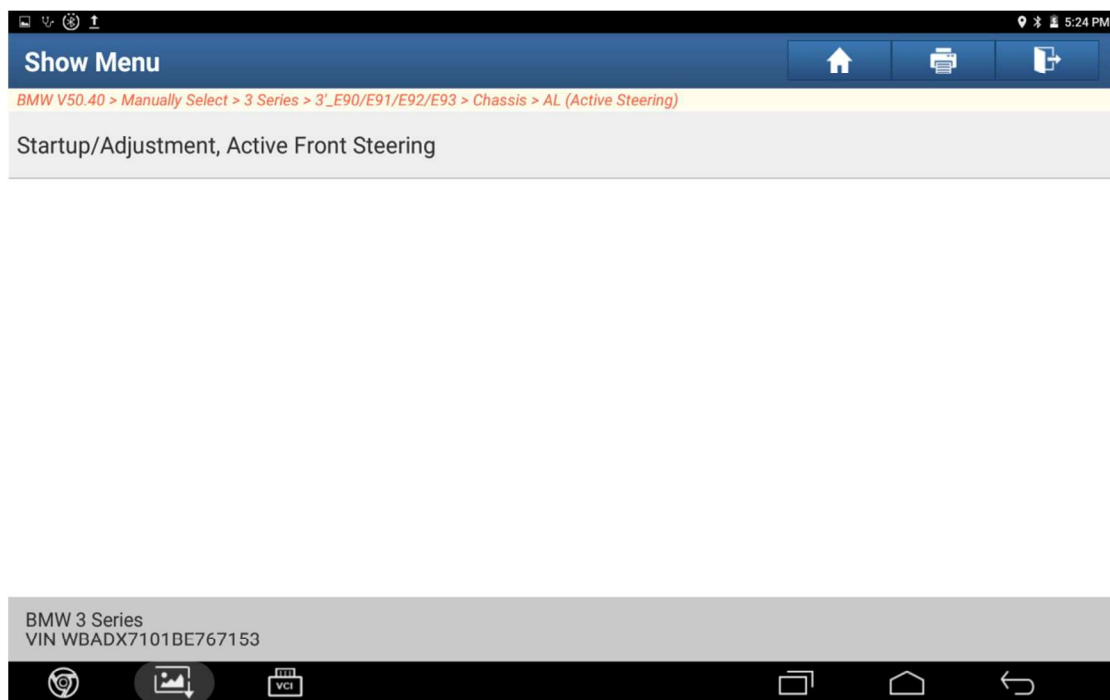
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BMW 3 Series
VIN WBAD7101BE767153

Compare Sam Save Sample Graph Report Record Help

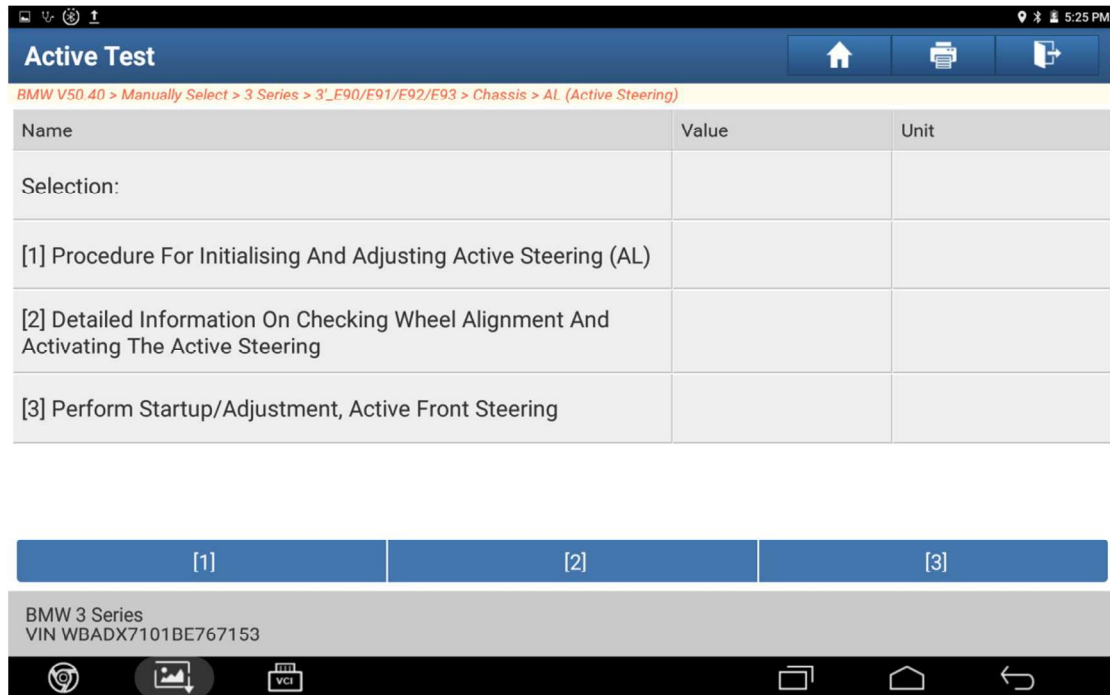
8. Select Activate / Adjust to activate the front steering system. Select special functions;

9. Select Start / Adjust to activate the front steering system,

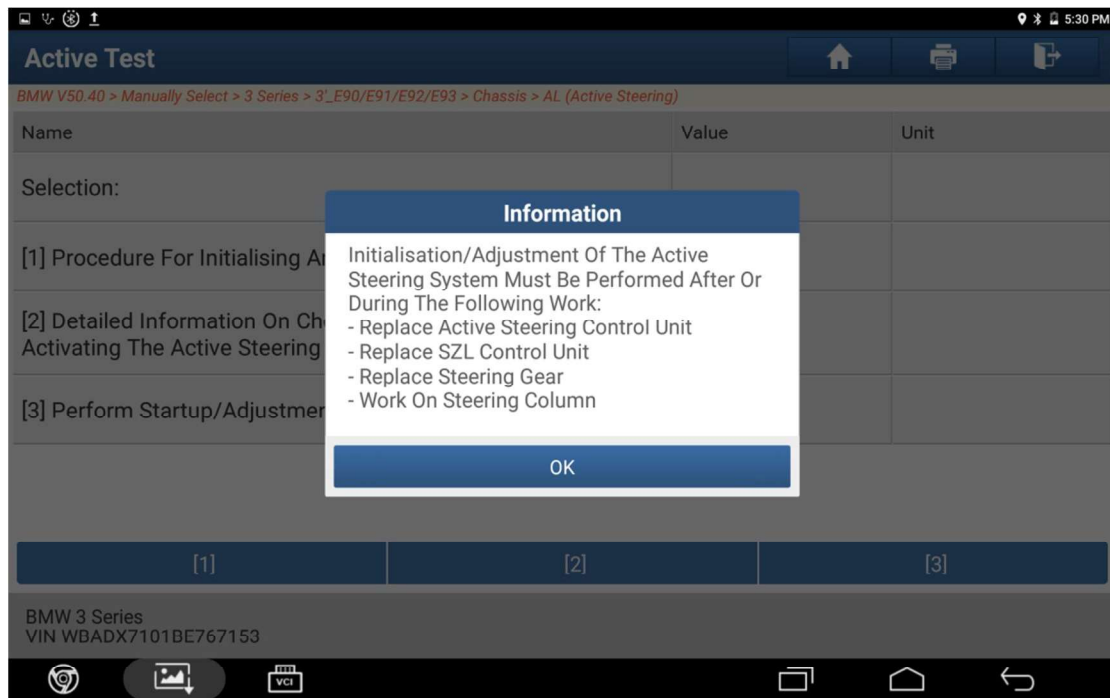


10. Select [3] to execute the start / adjustment, proactive forward steering, and

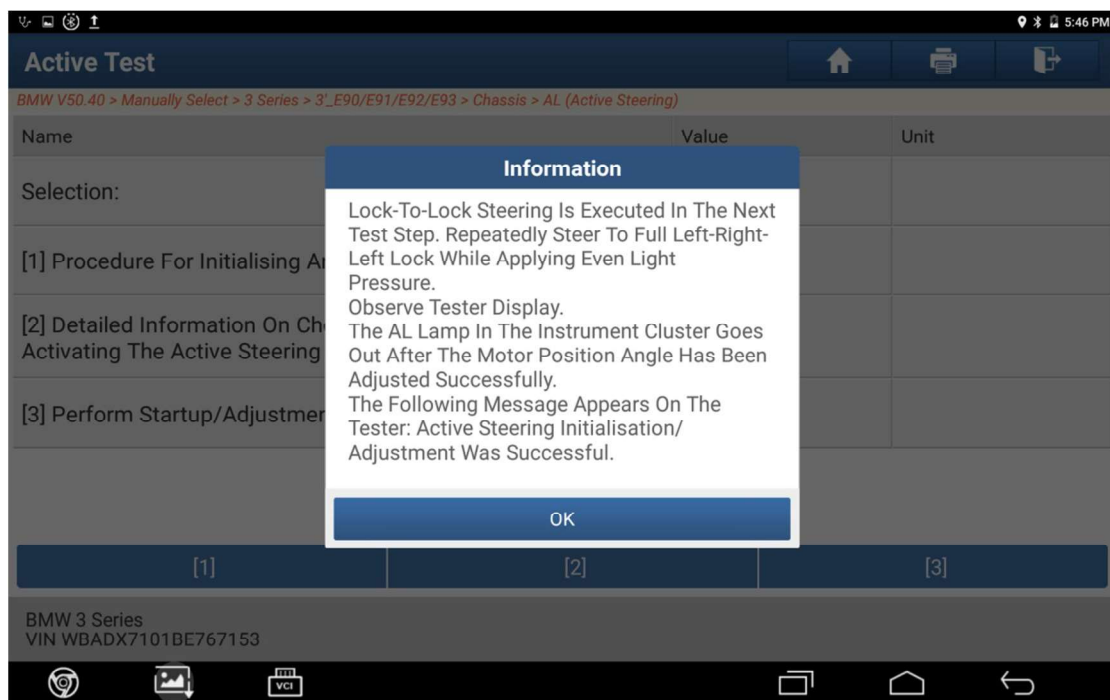
follow the prompts in detail for the detailed process.



11. The initialization and adjustment of the active steering system must be performed after or during the following tasks: replacing the active steering control unit; replacing the SZL steering column switch control unit; replacing the steering gear; steering column repair



12. Note the prompt message: Use even slight pressure, press left-right-left repeatedly to turn the steering angle. Observe the tester's display results. After the steering angle is successfully adjusted, the AL light on the dashboard goes out.

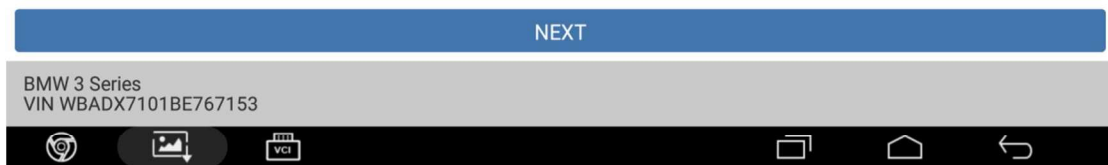


13. Pay attention to adjust the steering wheel angle sensor data to "0.00". After the

data shows "0.00", turn off the ignition switch, and then turn on the ignition switch again to ensure that the ECU saves the data. Then select Next until you are prompted to set up successfully.

The screenshot shows the 'Active Test' screen for a BMW V50.40. The table below displays the current steering angle.

Name	Value	Unit
Now Set Steering Angle Exactly To Zero (+/-1 Deg) With The Steering Wheel, See Display. After Setting Correctly: - Engine Off, Ignition On!		
Current Steering Angle (Deg):	0.00	



14. Perform four-wheel positioning, and then test the road. During the road test, active steering works, the motor participates in the work, the direction angle will automatically shift, the steering wheel power pump has no abnormal noise, and the direction is soft, indicating that the problem is solved. Re-read the relevant data. The steering valve solenoid current is 870mA, and the booster pump EC0 solenoid valve current varies with steering from 430 to 870mA. The steering wheel angle is a multiple of the actual steering angle. 180 degrees, the data is normal