

DTC C047500, C047564, C054500, C056D39, C066045**1. DTC Description**

DTC	Description	Definition
C047500	Electric Steering Motor Circuit - General Failure	EPS control module detects steering motor main circuit, sub circuit signal or incorrect power supply voltage C1644 or voltage out of EPS control module internal standard value range.
C047564	Electric Steering Motor Circuit - Signal Plausibility Failure	
C054500	Steering Wheel Torque Sensor - General Failure	
C056D39	Electronic Control Unit Hardware - Internal Electronic Failure	
C066045	HWA Sensor (Absolute)	

2. Possible Causes

DTC	Monitor Strategy	Setting Conditions (Control Strategy)	Faulty Area
C047500	Hardware circuit inspection	EPS stops assist, indicator comes on	<ul style="list-style-type: none"> • Inner motor fault • EPS control module fault
C047564			
C054500			
C056D39			
C066045			

3. Diagnosis Procedure

Test Conditions	Details/Results/Actions
1. General inspection	<p>A. Inspect each relative wiring harness connector for damage, poor contact, aging and looseness.</p> <p>B. Inspect steering column for excessive wear.</p> <p>Is it normal?</p> <p>Yes</p> <p>Go to step 2.</p> <p>No</p> <p>Repair faulty area, and replace it when necessary.</p>

Test Conditions	Details/Results/Actions
2. Clear DTC	<p>A. Connect the CHANA dedicated diagnostic tool.</p> <p>B. Clear DTC with diagnostic tool.</p> <p>C. Shake, pull and press diagnostic connector, sensor wiring harness connector.</p> <p>D. Read DTC again using diagnostic tool.</p> <p>Does trouble code still exist?</p> <p>Yes</p> <p>Go to step 3.</p> <p>No</p> <p>Perform the intermittent inspection.</p>
3. Replace steering column assembly	<p>A. Turn the ignition switch to "LOCK" and disconnect the negative battery cable.</p> <p>B. Replace the steering column assembly.</p> <p>Refer to: Steering Column (2.4.4 Steering Column, Removal and Installation).</p> <p>System is normal.</p>