

DTC C0051:62/C0051:64/C0051:67/C0051:85 [DYNAMIC STABILITY CONTROL (DSC)]

id0402b2906200

DTC	C0051:62, C0051:64, C0051:67, C0051:85	Steering angle sensor
DETECTION CONDITION	<ul style="list-style-type: none"> • C0051:62 <ul style="list-style-type: none"> — The difference between the steering angle calculated by each sensor and the steering angle from the steering angle sensor is the specification or more when the vehicle is driven in a straight line. • C0051:64 <ul style="list-style-type: none"> — The difference between the steering angle calculated by each sensor and the steering angle from the steering angle sensor exceeds the specification. • C0051:67 <ul style="list-style-type: none"> — The neutral position of the steering angle cannot be estimated from the signals from the ABS wheel-speed sensors and the SAS control module. <p>Note</p> <ul style="list-style-type: none"> • Each time the ignition is switched ON, the DSC HU/CM calculates the steering angle neutral position based on the signals from each sensor and each module. • If the vehicle is driven as follows just after the engine is started, DTC C0051:67 may be output. <ul style="list-style-type: none"> — Vehicle is accelerated rapidly while being steered right or left — Vehicle is driven on abnormal road surface such as banked road — Vehicle is driven on continuously curved road such as mountain road • If the DTC is a past malfunction during DTC inspection, it does not indicate a vehicle malfunction. • C0051:85 <ul style="list-style-type: none"> — The steering angle sensor detects signal modulation or steering angle that exceeds specification. 	
FAIL-SAFE FUNCTION	<ul style="list-style-type: none"> • C0051:62, C0051:64, C0051:85 <ul style="list-style-type: none"> — Illuminates the TCS/DSC indicator light and master warning light*. — Tire pressure monitoring system warning light illuminates after flashes. — Inhibits the TCS, DSC, roll over mitigation (ROM), TPMS, smart city brake support (SCBS)*, and secondary collision reduction (SCR) controls. • C0051:67 <ul style="list-style-type: none"> — Illuminates the TCS/DSC indicator light and master warning light*. — Inhibits the TCS, DSC, roll over mitigation (ROM), smart city brake support (SCBS)*, and secondary collision reduction (SCR) controls. <p>*: Vehicles with smart city brake support (SCBS)</p>	
POSSIBLE CAUSE	<ul style="list-style-type: none"> • C0051:62, C0051:64, C0051:67, C0051:85 <ul style="list-style-type: none"> — Improper installation or positioning of the steering angle sensor — Steering angle sensor malfunction — Connector or terminal malfunction • C0051:67 <ul style="list-style-type: none"> — Vehicle is accelerated rapidly while being steered right or left — Vehicle is driven on abnormal road surface such as banked road — Vehicle is driven on continuously curved road such as mountain road 	
SYSTEM WIRING DIAGRAM	Not applicable	

Diagnostic procedure

STEP	INSPECTION	ACTION
1	VERIFY WHETHER MALFUNCTION IS PAST OR PRESENT <ul style="list-style-type: none"> • Switch the ignition ON (engine off or on). • Are the TCS/DSC indicator light and the master warning light* illuminated? 	Yes
		No
2	PERFORM EPS CM DTC INSPECTION <ul style="list-style-type: none"> • Perform the EPS CM DTC inspection. (See ELECTRIC POWER STEERING (EPS) ON-BOARD DIAGNOSIS.) • Are any DTCs present? 	Yes
		No

STEP	INSPECTION	ACTION	
3	VERIFY THAT THE SAME DTC IS NOT PRESENT <ul style="list-style-type: none"> • Clear the DTCs from the memory. (See ON-BOARD DIAGNOSIS [DYNAMIC STABILITY CONTROL (DSC)].) • Start the engine and drive the vehicle at 20 km/h {12 mph} or more. • Are the same DTCs present? 	Yes	Repeat the inspection from Step 1. If the malfunction recurs, replace the DSC HU/CM, then go to the next step. (See DSC HU/CM REMOVAL/INSTALLATION.)
		No	Go to the next step.
4	VERIFY THAT NO OTHER DTCS ARE PRESENT <ul style="list-style-type: none"> • Are any other DTCs output? 	Yes	Go to the applicable DTC inspection. (See ON-BOARD DIAGNOSIS [DYNAMIC STABILITY CONTROL (DSC)].)
		No	DTC troubleshooting completed.

* : With smart city brake support (SCBS)