

DTC C1031:54 [DYNAMIC STABILITY CONTROL (DSC)]

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DTC	C1031:54	Tire pressure monitoring system (TPMS) system
DETECTION CONDITION	<ul style="list-style-type: none">• Detects that tire such as temporary spare tire with outer diameter of considerable difference is installed• There is a large fluctuation in steering angle and acceleration/deceleration speed repeatedly over short intervals.	
FAIL-SAFE FUNCTION	<ul style="list-style-type: none">• Tire pressure monitoring system warning light illuminates after flashes.• Inhibits the TPMS control.	
POSSIBLE CAUSE	<ul style="list-style-type: none">• Diameter of currently installed tires differs from Mazda recommended tires• There is a large fluctuation in steering angle and acceleration/deceleration speed repeatedly over short intervals.• DSC HU/CM malfunction	
SYSTEM WIRING DIAGRAM	—	

Diagnostic procedure

STEP	INSPECTION	ACTION
1	VERIFY THE TIRE <ul style="list-style-type: none">• Verify that the currently equipped tire type (size, supplier, and type) conform to the Mazda recommendation. (See WHEEL AND TIRE SPECIFICATION.)• Is the tire type as specified?	Yes Go to the next step.
		No Replace the tire, then go to Step 3. (See WHEEL AND TIRE SPECIFICATION.)
2	MEASURE THE TIRE PRESSURE <ul style="list-style-type: none">• Measure the tire pressure when the tires are cold. (See WHEEL AND TIRE SPECIFICATION.)• Is the pressure as specified?	Yes Go to the next step.
		No Adjust the tire pressure to the specification when the tires are cold, then go to the next step. (See WHEEL AND TIRE SPECIFICATION.)
3	INITIALIZE THE TPMS <ul style="list-style-type: none">• Initialize the TPMS. (See TIRE PRESSURE MONITORING SYSTEM INITIALIZATION PROCEDURE.)• Is the initialization normally completed?	Yes Go to the next step.
		No 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.)
4	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)].)• 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.
5	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.