

DTC P0720:00 [FW6A-EL, FW6AX-EL]

id050227817700

DTC P0720:00	Output shaft speed sensor range/performance problem
DETECTION CONDITION	<ul style="list-style-type: none"> Under the following conditions, there is difference between vehicle speed signal from DSC HU/CM and output shaft speed sensor signal for 1 s: <ul style="list-style-type: none"> Engine is running. The vehicle is driven in D position or R position. Vehicle speed signal related DTC is not recorded. There is no difference between vehicle speed signal from DSC HU/CM and turbine/input shaft speed sensor signal. Output shaft speed sensor signal is input. Forward: Output shaft speed is 13,560 rpm or less. Reverse: Output shaft speed is 2,000 rpm or less. <p>Diagnostic support note</p> <ul style="list-style-type: none"> The check engine light illuminates if the TCM detects the above malfunction condition during the first drive cycle. The automatic transaxle warning light illuminates if the TCM detects the above malfunction condition during the first drive cycle. PENDING CODE is available. FREEZE FRAME DATA is available. DTC is stored in the TCM memory.
FAIL-SAFE FUNCTION	<ul style="list-style-type: none"> Inhibits learning control. Inhibits manual mode. Inhibits neutral idle control. Inhibits i-stop control. Inhibits AAS.
POSSIBLE CAUSE	<ul style="list-style-type: none"> Output shaft speed sensor malfunction
SYSTEM WIRING DIAGRAM	Not applicable

Diagnostic procedure

STEP	INSPECTION	ACTION
1	VERIFY DSC HU/CM DTC <ul style="list-style-type: none"> Perform the DSC HU/CM DTC inspection using the M-MDS. (See ON-BOARD DIAGNOSIS [DYNAMIC STABILITY CONTROL (DSC)].) Are any DTCs present? 	Yes Go to the applicable DTC inspection. (See ON-BOARD DIAGNOSIS [DYNAMIC STABILITY CONTROL (DSC)].)
		No Go to the next step.
2	VERIFY INSTRUMENT CLUSTER REPAIR HISTORY <ul style="list-style-type: none"> Does the instrument cluster have a record of replacement? 	Yes Perform the instrument cluster configuration, then go to Step 6. (See INSTRUMENT CLUSTER CONFIGURATION (USING AS-BUILT DATA).)
		No Go to the next step.
3	VERIFY AUTOMATIC TRANSMISSION REPAIR HISTORY <ul style="list-style-type: none"> Does the automatic transmission (with control valve body) have a record of replacement? 	Yes Perform the TCM configuration. (See TCM CONFIGURATION [FW6A-EL, FW6AX-EL].)
		No Go to the next step.
4	VERIFY FREEZE FRAME DATA/SHOT DATA HAS BEEN RECORDED <ul style="list-style-type: none"> Has the freeze frame data/snapshot data been recorded on the repair order? 	Yes Go to the next step.
		No Record the freeze frame data/snapshot data on the repair order, then go to the next step.
5	VERIFY RELATED SERVICE INFORMATION AVAILABILITY <ul style="list-style-type: none"> Verify related Service Information availability. Is any related Service Information available? 	Yes Perform repair or diagnosis according to the available Service Information. <ul style="list-style-type: none"> If the vehicle is not repaired, replace the control valve body. (See CONTROL VALVE BODY REMOVAL/INSTALLATION [FW6A-EL, FW6AX-EL].) Go to the next step.
		No Replace the control valve body, then go to the next step. (See CONTROL VALVE BODY REMOVAL/INSTALLATION [FW6A-EL, FW6AX-EL].)

STEP	INSPECTION	ACTION	
6	VERIFY DTC TROUBLESHOOTING COMPLETED <ul style="list-style-type: none"> • Clear the DTC using the M-MDS. (See ON-BOARD DIAGNOSTIC SYSTEM DTC INSPECTION [FW6A-EL, FW6AX-EL].) • Perform the following procedure to ensure that the DTC has been resolved: <ol style="list-style-type: none"> 1. Drive the vehicle for 1 s or more under the following condition: <ul style="list-style-type: none"> • Vehicle speed: 30 km/h {19 mph} or more • Perform the DTC inspection using the M-MDS. (See ON-BOARD DIAGNOSTIC SYSTEM DTC INSPECTION [FW6A-EL, FW6AX-EL].) • Are any DTCs present? 	Yes	Go to the applicable DTC inspection. (See ON-BOARD DIAGNOSTIC SYSTEM DTC TABLE [FW6A-EL, FW6AX-EL].)
		No	DTC troubleshooting completed.