

DTC P0327 [LF]

B3E010201085W03

DTC P0327	KS circuit low input
DETECTION CONDITION	<ul style="list-style-type: none"> The PCM monitors input signal from the KS when the engine is running. If the input voltage at PCM terminals between 2Q and 2R is below 0.9 V, the PCM determines that the KS circuit has malfunction. Diagnostic support note This is a continuous monitor (CCM). The MIL illuminates if the PCM detects the above malfunction condition during first drive cycle. PENDING CODE is available if the PCM detects the above malfunction condition. FREEZE FRAME DATA is available. DTC is stored in the PCM memory.
POSSIBLE CAUSE	<ul style="list-style-type: none"> KS malfunction Connector or terminal malfunction Open circuit or short to ground in wiring harness between KS connector terminal A and PCM terminal 2Q Open circuit or short to ground in wiring harness between KS connector terminal B and PCM terminal 2R Short KS two wires
<div style="text-align: center;"> </div>	

Diagnostic procedure

STEP	INSPECTION	ACTION
1	VERIFY FREEZE FRAME DATA HAS BEEN RECORDED • Has FREEZE FRAME DATA been recorded?	Yes Go to the next step.
		No Record the FREEZE FRAME DATA on the repair order, then go to the next step.
2	VERIFY RELATED REPAIR INFORMATION AVAILABILITY • Verify related service repair information availability.	Yes Perform repair or diagnosis according to the available repair information. • If the vehicle is not repaired, go to the next step.

	• Is any related repair information available?	No	Go to the next step.
3	INSPECT KS CONNECTOR TERMINAL <ul style="list-style-type: none"> • Turn the ignition switch off. • Disconnect the KS connector. • Inspect for poor connection at terminals A and B (such as damaged/pulled-out pins, corrosion). • Is there any malfunction? 	Yes	Repair the terminal, then go to Step 9.
		No	Go to the next step.
4	INSPECT KS <ul style="list-style-type: none"> • Perform KS inspection. (See KNOCK SENSOR (KS) INSPECTION [LF]) • Is KS normal? 	Yes	Go to the next step.
		No	Replace the KS, then go to Step 9.
5	INSPECT KS CIRCUITS FOR OPEN CIRCUIT <ul style="list-style-type: none"> • Disconnect the PCM connector. • Inspect for continuity between the following terminals: <ul style="list-style-type: none"> - KS female terminal A (wiring harness-side) and PCM terminal 2Q (wiring harness-side) - KS female terminal B (wiring harness-side) and PCM terminal 2R (wiring harness-side) • Are there continuities? 	Yes	Go to the next step.
		No	Repair or replace the wiring harness, then go to Step 9.
6	INSPECT KS CIRCUITS FOR SHORT TO GROUND <ul style="list-style-type: none"> • Inspect the continuity between following terminals: <ul style="list-style-type: none"> - KS female terminal A (wiring harness-side) and body ground - KS female terminal B (wiring harness-side) and body ground • Are there continuities? 	Yes	Repair or replace suspected wiring harness, then go to Step 9.
		No	Go to the next step.
7	INSPECT FOR SHORT CIRCUITS <ul style="list-style-type: none"> • Inspect for continuity between KS female terminals A and B (wiring harness-side). • Is there continuity? 	Yes	Repair or replace the wiring harness, then go to Step 9.
		No	Go to the next step.
8	INSPECT PCM CONNECTOR TERMINAL <ul style="list-style-type: none"> • Turn the ignition switch off. • Disconnect the PCM connector. • Inspect for poor connection at terminals 2Q and 2R (such as damaged/pulled-out pins, corrosion). • Is there any malfunction? 	Yes	Repair terminal, then go to Step 9.
		No	Go to the next step.
9	VERIFY TROUBLESHOOTING OF DTC P0327 COMPLETED <ul style="list-style-type: none"> • Make sure to reconnect all disconnected connectors. • Clear the DTC from the memory using the WDS or equivalent. • Start the engine. • Is the same DTC present? 	Yes	Replace the PCM, then go to the next step. (See PCM REMOVAL/INSTALLATION [LF] .)
		No	Go to the next step.
10	VERIFY AFTER REPAIR PROCEDURE <ul style="list-style-type: none"> • Perform the "After Repair Procedure". (See AFTER REPAIR PROCEDURE [LF].) • Are any DTC present? 	Yes	Go to the applicable DTC troubleshooting. (See DTC TABLE [LF] .)
		No	Troubleshooting completed.