



Service Bulletin

File in Section: -

Bulletin No.: 17-NA-243

Date: July, 2017

TECHNICAL

Subject: Harsh Shifts, Poor Performance, Malfunction Indicator Lamp (MIL) Illuminated - DTC P0300, P0301, P0302, P0303, P0304, P0305, P0306, P170A, P170B, P170C, P170D, P170E Set

Brand:	Model:	Model Year:		VIN:		Engine:	Transmission:
		from	to	from	to		
Cadillac	XT5	2017	2017			LGX	MRC

Involved Region or Country	North America and N.A. Export Regions
Condition	<p>Some customers may comment on one or more of the following conditions:</p> <ul style="list-style-type: none"> • MIL is illuminated • Harsh shifts • Poor performance <p>The technician may find one or more of the following codes set:</p> <ul style="list-style-type: none"> • P0300 • P0301 • P0302 • P0303 • P0304 • P0305 • P0306 • P170A • P170B • P170C • P170D • P170E
Cause	<p>Engine Control Module and Transmission Control Module changes have been made to update operating software and install calibration improvements for the following items:</p> <ul style="list-style-type: none"> • Reduce misfire codes (P0300, P0301, P0302, P0303, P0304, P0305, P0306). • Reduce unusual Shifting Fault codes (P170A, P170B, P170C, P170D, P170E). • Reduce low speed shift busy-ness. • Improve shift feel: <ul style="list-style-type: none"> ⇒ smoother coast down downshifts. ⇒ less aggressive grade braking shifts. ⇒ less aggressive upshift when throttle is lifted. ⇒ smoother power on downshift. • Improve acceleration performance: <ul style="list-style-type: none"> • downshifts made more available at lower pedal positions.
Correction	<p>Note: It is important that both the ECM and TCM are updated to the latest software. Not updating both modules will result in additional undesired vehicle performance. If the ECM and TCM have the latest calibrations, refer to SI for the DTC set or existing condition.</p>

	<p>Validate the ECM and TCM have the latest software calibration.</p> <ul style="list-style-type: none"> If the ECM and TCM are not at the latest calibration, using TIS2Web, select (K20/K71) Engine and Transmission Control Module. <p>⇒ Both modules must be reprogrammed sequentially to the latest software calibration available to avoid other malfunctions or drive quality degradation.</p> <ul style="list-style-type: none"> If the modules have the latest calibrations, refer to SI for the DTC set.
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Parts Information

No parts are required for this repair.

Warranty Information

For vehicles repaired under the Emission coverage, use the following labor operation. Reference the Applicable Warranties section of Investigate Vehicle History (IVH) for coverage information.

Labor Operation	Description	Labor Time
2881268*	K20/K71 Engine and Transmission Control Module with SPS	0.6 hr
*This is a unique Labor Operation for Bulletin use only.		

Service Procedure

Important: Stable battery voltage is critical during programming. Any fluctuation, spiking, over voltage or loss of voltage will interrupt programming. Install the *EL-49642* SPS Programming Support Tool to maintain system voltage. If not available, connect a fully charged 12 V jumper or booster pack disconnected from the AC voltage supply. **DO NOT** connect a battery charger.

Refer to *K20/K71 Engine and Transmission Control Module: Programming and Setup* in SI.

Version	1
Modified	