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Model Year Start: 2016	Model: LX570	Prod Date Range: [09/2015 -]
Title: AE80F AUTOMATIC TRANSMISSION / TRANSAXLE: AUTOMATIC TRANSMISSION SYSTEM: DTC CHECK / CLEAR; 2016 - 2018 MY LX570 [09/2015 -]		

DTC CHECK / CLEAR

NOTICE:

When the diagnosis system is changed from normal mode to check mode or vice versa, all DTCs and freeze frame data recorded in normal mode are cleared. Before changing modes, always check and make a note of DTCs and freeze frame data.

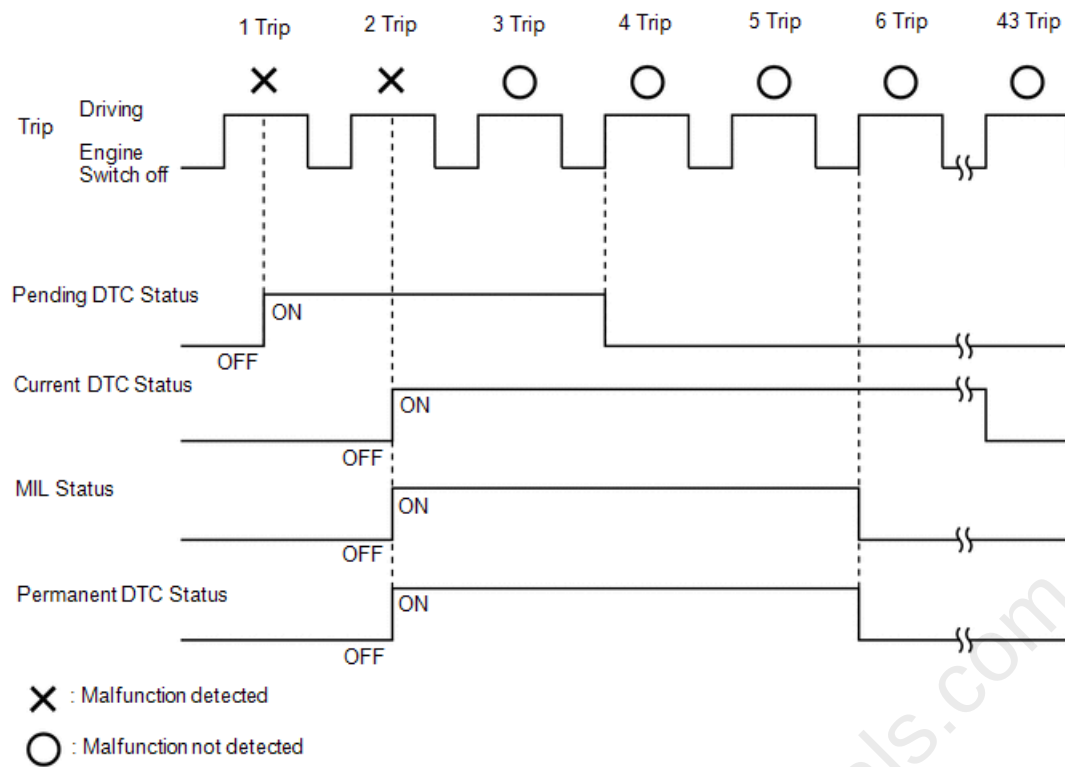
HINT:

- DTCs which are stored in the TCM can be displayed on the Techstream. The Techstream can display current, pending and permanent DTCs.
- If a malfunction is detected during the current driving cycle, current and permanent DTCs are stored.
- Some DTCs are not stored if the TCM does not detect the same malfunction again during a second consecutive driving cycle. However, such malfunctions, detected on only one occasion, are stored as pending DTCs.
- Current and pending DTCs can be cleared by using the Techstream. However, permanent DTCs cannot be cleared using Techstream.
- After clearing current DTCs using the Techstream (or by disconnecting the cable from the negative battery terminal), permanent DTCs can be cleared when the system is determined to be normal for the relevant DTCs and then the universal trip is performed.

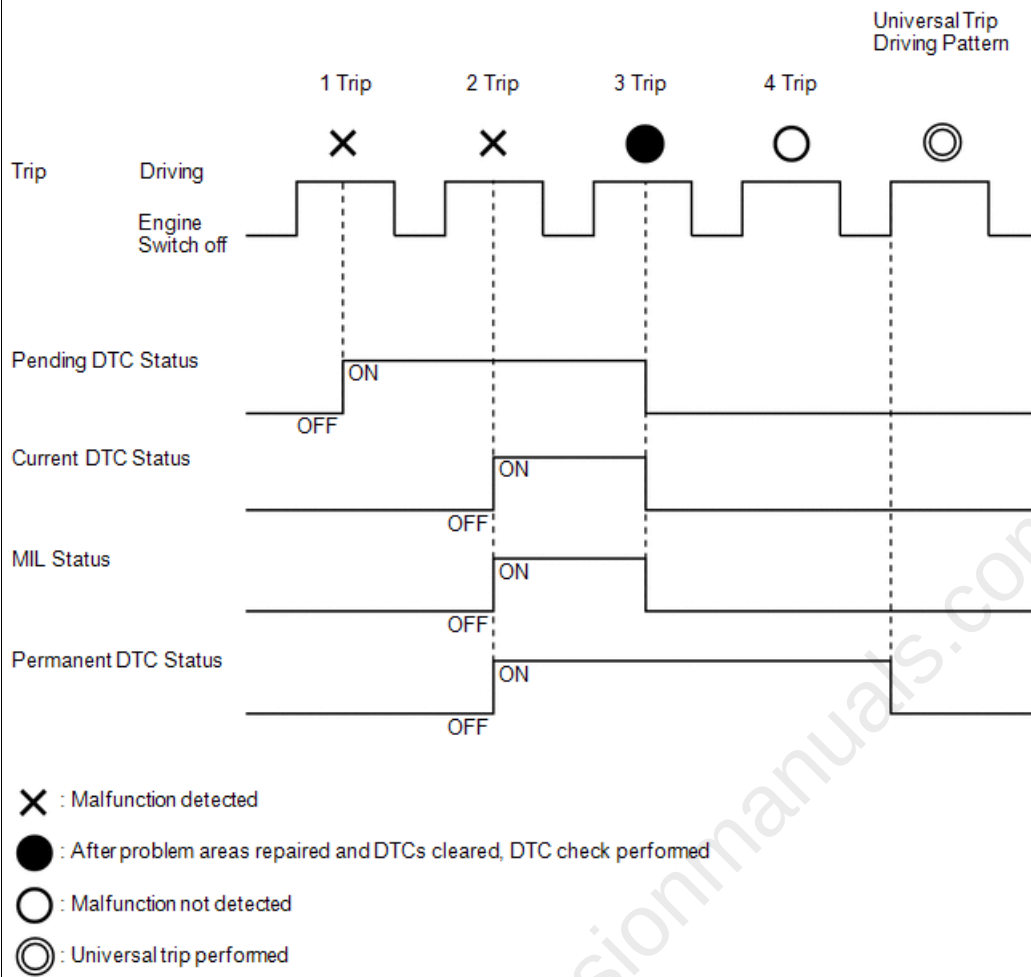
2 Trip Detection Examples

Pending DTC	Store condition	Malfunction detected
	Clear condition	System determined to be normal or DTCs cleared using Techstream or Cable disconnected from negative battery terminal
Current DTC	Store condition	Malfunction detected (2nd trip)
	Clear condition	No malfunctions in 40 driving cycles or DTCs cleared using Techstream or Cable disconnected from negative battery terminal
Permanent DTC	Store condition	Malfunction detected (2nd trip)
	Clear condition	Engine switch turned on (IG) after no malfunction is detected in 3 consecutive driving cycles or After DTCs cleared using Techstream or cable disconnected from negative battery terminal, malfunction not detected when universal trip driving performed
MIL	ON	Malfunction detected (2nd trip)
	OFF	Engine switch turned on (IG) after no malfunction is detected in 3 consecutive driving cycles or DTCs cleared using Techstream or Cable disconnected from negative battery terminal

2-trip Detection Example



2-trip Detection Example (Instance when DTCs were cleared midway through by using the Techstream)



1. CHECK DTC

- Connect the Techstream to the DLC3.
- Turn the engine switch on (IG).
- Turn the Techstream on.
- Enter the following menus: Powertrain / ECT / Trouble Codes.
- Check the DTC(s) and freeze frame data, and then write them down.
- Check the details of the DTC(s) (See page [INFO](#) [INFO](#) [INFO](#)).

2. CLEAR DTC (Pending and Current DTC)

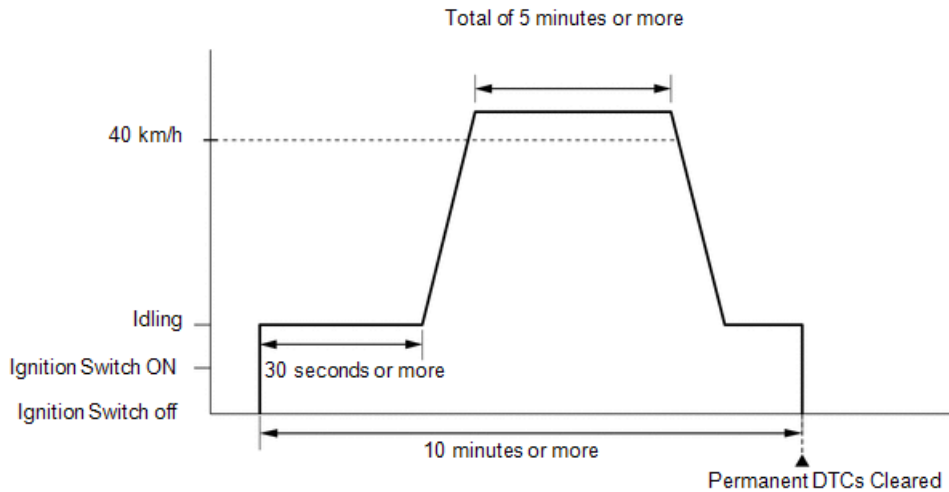
- Connect the Techstream to the DLC3.
- Turn the engine switch on (IG).
- Turn the Techstream on.
- Enter the following menus: Powertrain / ECT / Trouble Codes.
- Clear the DTCs.

3. CLEAR PERMANENT DTC

HINT:

Even if the following procedure is not performed, permanent DTCs are cleared if no malfunctions are detected during 3 consecutive driving cycles.

Universal Trip Driving Pattern



- (a) Connect the Techstream to the DLC3.
- (b) Turn the engine switch on (IG).
- (c) Turn the Techstream on.
- (d) Enter the following menus: Powertrain / ECT / Trouble Codes.
- (e) Check if permanent DTCs are stored.

HINT:

If permanent DTCs are not output, it is not necessary to continue this procedure.

- (f) Clear the DTCs.
- (g) Perform the universal trip.
 1. Idle the engine for 30 seconds or more.
 2. Drive the vehicle at 40 km/h (25 mph) or more for a total of 5 minutes or more.

HINT:

- It is possible to complete the drive pattern even if the vehicle decelerates to less than 40 km/h (25 mph) during the driving cycle provided that the vehicle is driven at 40 km/h (25 mph) or more for a total of 5 minutes.
- When accelerating through the gears, make sure the vehicle is driven so all gears are used in order and no gears are skipped.

3. Allow 10 minutes or more to elapse from the time the engine is started.

- (h) Turn the engine switch off.
- (i) Wait 15 seconds.
- (j) Turn the engine switch on (IG).
- (k) Enter the following menus: Powertrain / ECT / Trouble Codes.
- (l) Check that the permanent DTCs have been cleared.