

Last Modified: 12-21-2017	6.8:8.0.48	Doc ID: RM100000000T2YL
Model Year Start: 2016	Model: LX570	Prod Date Range: [09/2015 -]
Title: AE80F AUTOMATIC TRANSMISSION / TRANSAXLE: AUTOMATIC TRANSMISSION SYSTEM: HYDRAULIC TEST; 2016 - 2018 MY LX570 [09/2015 -]		

HYDRAULIC TEST

1. PERFORM HYDRAULIC TEST

- (a) Measure the line pressure.

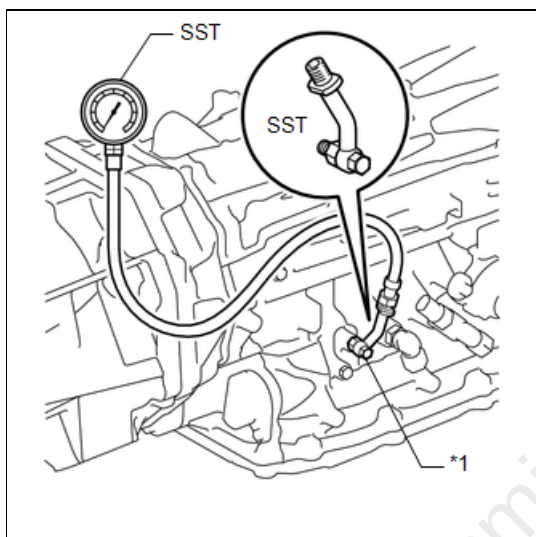
CAUTION:

The line pressure test should always be carried out with at least 2 people. One person should observe the condition of wheels and wheel chocks while the other is performing the test.

NOTICE:

- Perform this test with the ATF (Automatic Transmission Fluid) at the normal operating temperature: 50 to 80°C (122 to 176°F)
- Be careful to prevent the SST hose from contacting with the exhaust pipe.
- This check must be conducted after checking and confirming that the engine is normal.
- Perform this test with the air conditioning and headlights off.
- Do not perform the stall test for longer than 5 seconds.
- When performing the stall speed test more than once, make sure to wait 15 seconds or more between tests.

- (1) Warm up the ATF.
- (2) Turn the engine switch off.
- (3) Remove test plug A from the transmission case and connect SST.



SST: 09993-19015

09993-00010

09993-00040

HINT:

There is a difference in installation point between D position and R position.

Text in Illustration

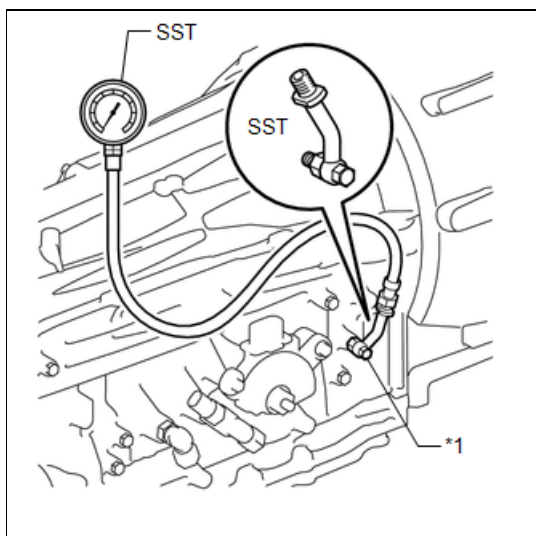
*1	Test Plug A
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- (4) Fully apply the parking brake and chock the 4 wheels.
- (5) Start the engine and check the idle speed.
- (6) Keep your left foot firmly on the brake pedal and move the shift lever to D.
- (7) Depress the accelerator pedal as much as possible with your right foot. Quickly read the highest line pressure reading when the engine speed reaches stall speed.

Specified Line Pressure

CONDITION	D POSITION KPA (KGF/CM ² , PSI)
Stall test	1770 to 2020 kPa (18.1 to 20.5 kgf/cm ² , 257 to 292 psi)

- (8) Turn the engine switch off.
- (9) Remove SST and install test plug A.
- (10) Remove test plug B from the transmission case and connect SST.



SST: 09993-19015

09993-00010

09993-00040

Text in Illustration

*1	Test Plug B
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(11) Fully apply the parking brake and chock the 4 wheels.

(12) Start the engine and check the idle speed.

(13) Keep your left foot firmly on the brake pedal and move the shift lever to R.

(14) Depress the accelerator pedal as much as possible with your right foot. Quickly read the highest line pressure reading when the engine speed reaches stall speed.

Specified Line Pressure

CONDITION	R POSITION KPA (KGF/CM ² , PSI)
Stall test	1770 to 2020 kPa (18.1 to 20.5 kgf/cm ² , 257 to 292 psi)

Evaluation

PROBLEM	POSSIBLE CAUSE
Measured values at all positions are higher than specified	- Shift solenoid valve SLT defective - Regulator valve defective
Measured values at all positions are lower than specified	- Shift solenoid valve SLT defective - Regulator valve defective - Oil pump defective
Pressure is low when shift lever is in D only	- D position circuit fluid leak - Forward multiple clutch (C1) defective
Pressure is low when shift lever is in R only	- R position circuit fluid leak - No. 3 clutch (C3) defective - No. 2 brake (B2) defective