



## Technical Service Bulletin

<b>GROUP</b> AUTOMATIC TRANSMISSION	<b>NUMBER</b> 19-AT-023HG
<b>DATE</b> SEPTEMBER 2019	<b>MODEL(S)</b> G80 (DH) G90 (HI)

**SUBJECT:** AUTOMATIC TRANSMISSION STALL TEST PROCEDURE

**Description:** If you are servicing a vehicle with a transmission slipping concern, follow the Service Procedure shown below and perform a stall test. This TSB provides a procedure to test each clutch in the transmission. If the vehicle fails the stall test, replace the transmission.

- **PASS:** Stall speed is between 1700~2900 rpm (See shop manual for stall speed).
- **FAIL:** Engine revs to redline limit (6,000~6,500 rpm). If so, replace the transmission.

**Applicable Vehicles:** 2017~18 G80 (DH)  
2017~18 G90 (HI)

### WARRANTY INFORMATION: Normal Warranty applies

### SERVICE PROCEDURE – Stall Test Procedure

1. Check the automatic transmission fluid level according to TSB 19-AT-011H. Add SP-IV-RR ATF, P/N 00232-19052, if necessary, to bring the level within the “HOT” range.
2. Apply the parking brake and place blocks in front of and behind both front wheels.

 **CAUTION**

Do not allow anyone to stand in front of or behind the vehicle.

3. Start the engine and move the shift lever to “R”.
4. Press and hold the brake pedal, then fully depress the accelerator for 3 seconds and record the highest engine speed observed. Perform the test only one time to prevent excessive ATF temperatures.

 **CAUTION**

Do not hold the throttle fully open for more than 3 seconds. Release the throttle and allow the engine to idle in “P” for 15 seconds.

**NOTE:** Record the highest engine speed observed during the 3 second test.

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5. Confirm the stall speed is within the specifications shown in the related shop manual (approximately 1700~2900 rpm at sea level, depending on model). If the stall speed is higher than specification or the engine revs to the redline limit, one or more clutches may be slipping.
6. Move the shift lever to “D”, and then repeat Steps 4~5 one time. Go to Step 7.
7. Move the shift lever to “D” and pull the right paddle shifter (+) to select Manual Mode 2 and repeat Steps 4~5 one time.



8. **Test the 6 clutch and 4&OD clutches:** Drive in Manual Mode 6<sup>th</sup> gear and confirm the clutch does not slip or rev to redline at full throttle.

**NOTE:** The procedure tests the following brakes and clutches.

SHIFT LEVER POSITION	BRAKE		CLUTCH			
	8LR	27	UD	6	4&OD	35R
REVERSE	X					X
DRIVE	X		X			
MANUAL MODE “1”	X		X			
MANUAL MODE “2”		X	X			
DRIVE IN MANUAL MODE “6”				X	X	