

# Transaxle Whine Noise, Harsh Shift, MIL ON, or Reduced Power

**Service Category** Drivetrain

**Section** Automatic Transmission/Transaxle

**Market** USA

Toyota Supports  
 ASE Certification 

## Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2017 - 2018	Highlander, Sienna	Transmission(s): 8AT

## Introduction

Some 2017 – 2018 model year Highlander and Sienna vehicles may exhibit a whine noise while driving, a harsh shift, MIL ON, or reduced power.

The following Diagnostic Trouble Codes (DTCs) may be present.

- P07457F
- P07757F
- P07957F
- P28077F
- P28167F
- P08BA7F
- P27137F
- P07407E
- P27567F
- P211904
- P071531

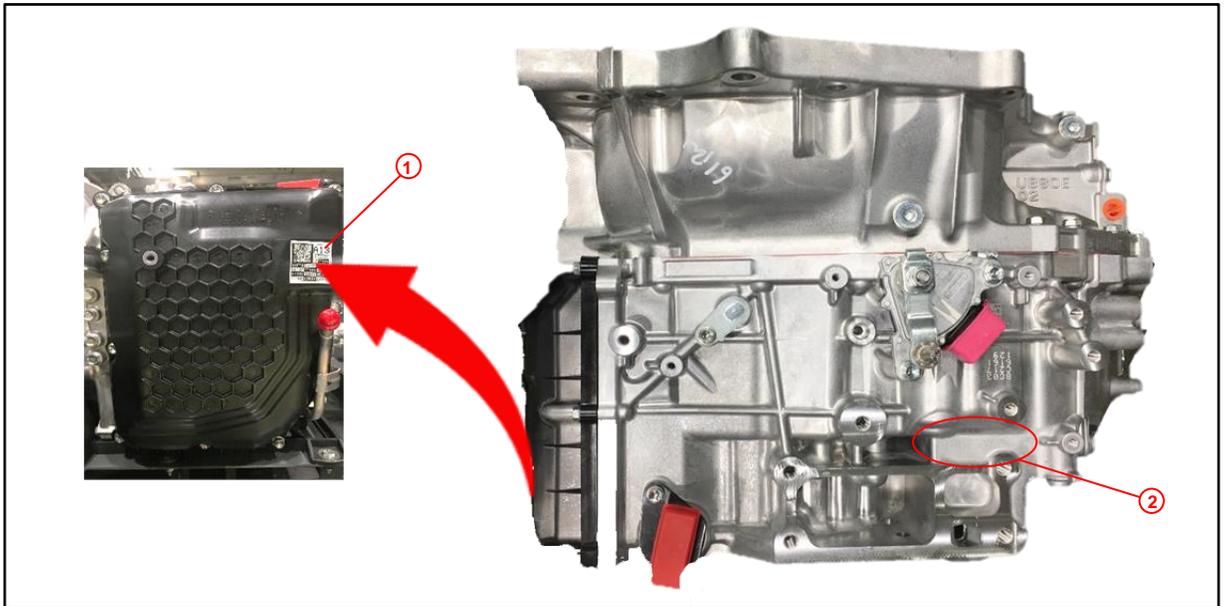
For transaxles within the specified dates that meet the required symptoms, a remanufactured transaxle is available. Follow the Repair Procedure in this bulletin to address this condition.

## Transaxle Whine Noise, Harsh Shift, MIL ON, or Reduced Power

### Production Change Confirmation Procedure

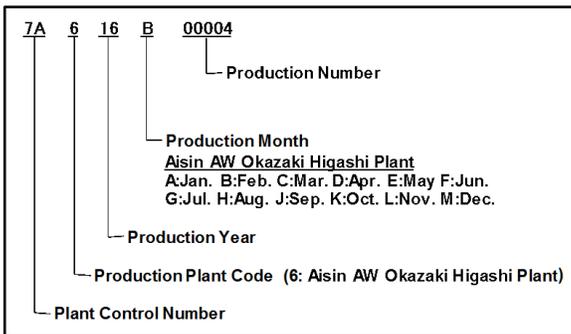
Locate the transaxle serial number, found on the sticker located on the transaxle assembly side cover or on the engraved location as shown. A serial number decoder is also provided below.

**Figure 1. Serial Number Sticker and Engraved Serial Number Location**



<b>1</b>	<b>Serial Number Sticker</b>
<b>2</b>	<b>Engraved Serial Number Location</b>

**Figure 2. AW Plant Serial Number Decoder**



MODEL	PLANT	DRIVETRAIN	PRODUCTION CHANGE EFFECTIVE AT SERIAL NUMBER
Highlander	AW	8AT	7A617E03416
Sienna			

## Transaxle Whine Noise, Harsh Shift, MIL ON, or Reduced Power

### Warranty Information

OP CODE	DESCRIPTION	MODEL	TIME	OFP	T1	T2
369011	R & R Transaxle	Sienna (FWD)	7.4	30500-####0	TBD*	TBD*
		Sienna (AWD)	8.5			
369011Q		Highlander (FWD)	7.3			
		Highlander (AWD)	8.2			

\*T1 and T2 values are based on replacement phenomenon.

#### APPLICABLE WARRANTY

- This repair is covered under the Toyota Powertrain Warranty. This warranty is in effect for 60 months or 60,000 miles, whichever occurs first, from the vehicle's in-service date.
- Warranty application is limited to occurrence of the specified condition described in this bulletin.

## Transaxle Whine Noise, Harsh Shift, MIL ON, or Reduced Power

### Parts Information

PART NUMBER	PART NAME	QTY
30510-45071-84	Reman ATM	1*
30510-45081-84		
30510-48601-84		
90080-43036	Gasket, Exhaust Pipe	2 – 3*
17451-0D140		1
17173-0P040	Gasket, Exhaust Manifold to Head	1**
17176-31130	Gasket, Air Surge Tank to Intake Manifold	1**
90080-17238	Nut, Lock	2
90080-11555	Bolt, W/Washer	1
95381-03025	Pin, Cotter	2
90080-52017	Ring, Hole Snap	1
90901-19060	Bolt, W/Washer	1***
90521-73001	Ring, Hole Snap	1***
35150-45010	Plug Assy, Transmission Case	1
90430-18008	Gasket	2
90116-12051	Bolt, Stud	3***
90116-12052		1***
12157-10010	Gasket, Drain Plug	2***
08885-02506	Gear Oil, LT 75W-85	As Needed***
00289-ATFWS	ATF WS	As Needed
00272-SLLC2	Super Long Life Coolant	As Needed

\*Use the VIN # to order the correct transaxle and quantity of gaskets.

\*\*Highlander ONLY.

\*\*\*AWD vehicle ONLY.

## Transaxle Whine Noise, Harsh Shift, MIL ON, or Reduced Power

### Required Tools & Equipment

SPECIAL SERVICE TOOLS (SST)	PART NUMBER	QTY
Drive Shaft Nut Chisel*	<a href="#">09930-00010</a>	1
Ball Joint Puller*	<a href="#">09960-20010-01</a>	1
Drive Shaft Remover Attachment*	<a href="#">09520-01010-02</a>	1
Differential Side Gear Shaft Tool	<a href="#">09520-24010</a>	1
Transmission Oil Plug	<a href="#">09325-20010</a>	1
Ratcheting Strap*	<a href="#">00002-2SUPP</a>	1
Crankshaft Pulley Holding Tool*	<a href="#">09213-70011</a>	1
Companion Flange Holding Tool*	<a href="#">09330-00021</a>	1
Transmission Fill System*	<a href="#">00002-11100-02</a>	1
Engine Support Bar*	<a href="#">00002-ESUPPT-01</a>	1

\*Essential SST.

**NOTE**

Additional SSTs may be ordered by calling 1-800-933-8335.

REQUIRED EQUIPMENT	SUPPLIER	PART NUMBER	QTY
Techstream 2.0*	ADE	TS2UNIT	1
Techstream Lite		TSLITEPDLR01	
Techstream Lite (Green Cable)		TSLP2DLR01	

\*Essential SST.

**NOTE**

- Only ONE of the Techstream units listed above is required.
- Software version 13.30.018 or later is required.
- Additional Techstream units may be ordered by calling Approved Dealer Equipment (ADE) at 1-800-368-6787.

### Repair Procedure

1. Confirm the transaxle serial number.  
Does the transaxle serial number begin with 7A6 AND come BEFORE 7A617E03416?
  - **YES** — Continue to step 2.
  - **NO** — This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.

## Transaxle Whine Noise, Harsh Shift, MIL ON, or Reduced Power

### Repair Procedure (continued)

2. Confirm the NT sensor speed.
  - A. Connect Techstream to the vehicle and select Engine Data List.
  - B. Place the vehicle in Park and apply the parking brake.
  - C. Increase the engine speed to 1,000 rpm.

Is the NT sensor speed less than or equal to the specification in Table 1 at the given parameter?

**NOTE**

Use parameter No. 1 or No. 2 in Table 1.

- **YES** — Continue to step 3.
- **NO** — This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.

**Figure 3.**

Parameter	Value	Unit
Engine Speed	0	rpm
Accelerator Position	0.0	%
NT Sensor Speed	0	rpm
Shift SW Status (P Range)	ON	
Shift SW Status (R Range)	OFF	
Shift SW Status (N Range)	OFF	
Shift SW Status (D Range)	OFF	
A/T Oil Temperature No.1	108.5	F

**Table 1.**

PARAMETER				NT SENSOR SPEED (rpm)	
NO.	SHIFT POSITION	ENGINE SPEED (rpm)	A/T OIL TEMPERATURE NO. 1	CONTINUE DIAGNOSIS USING THE APPLICABLE REPAIR MANUAL	GO TO STEP 3
1	P	1,000	81° – 104°F (27° – 40°C)	Greater Than 850	850 or Under
2			105° – 212°F (41° – 100°C)	Greater Than 900	900 or Under

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### Repair Procedure (continued)

3. Confirm if ANY of the following conditions are present.
  - A. Diagnostic Trouble Code (DTC) P07457F, P07757F, P07957F, P28077F, P28167F, P08BA7F, P27137F, P07407E, P27567F, P211904, or P071531 is present.
  - B. Harsh shift.
  - C. A whine noise is present while driving in D range.

Refer to the video links below for examples of the whine noise condition.

[Whine Noise Example No. 1](#) / [Whine Noise Example No. 2](#)

Are ANY of the conditions listed above present?

- **YES** — Continue to step 4.
- **NO** — This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.

4. Replace the transaxle.

Refer to TIS, applicable model and model year Repair Manual:

- 2017 – 2018 Highlander (2WD):  
*Drivetrain – Automatic Transmission/Transaxle* – “UA80E Automatic Transmission / Transaxle: Automatic Transaxle Assembly: [Removal](#) / [Installation](#)”
- 2017 – 2018 Highlander (4WD):  
*Drivetrain – Automatic Transmission/Transaxle* – “UA80F Automatic Transmission / Transaxle: Automatic Transaxle Assembly: [Removal](#) / [Installation](#)”
- 2017 – 2018 Sienna (2WD):  
*Drivetrain – Automatic Transmission/Transaxle* – “UA80E Automatic Transmission / Transaxle: Automatic Transaxle Assembly: [Removal](#) / [Installation](#)”
- 2017 – 2018 Sienna (4WD):  
*Drivetrain – Automatic Transmission/Transaxle* – “UA80F Automatic Transmission / Transaxle: Automatic Transaxle Assembly: [Removal](#) / [Installation](#)”

5. Test-drive the vehicle to confirm proper operation.