

Flashing 4WD Lights and MIL ON with DTC P277111, P178462 and/or P17AC62

Service Category Vehicle Interior

Section Meter/Gauge/Display

Market USA and Mexico

Toyota Supports ASE Certification 

Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2024 - 2025	Tacoma HV	
2024 - 2025	Tacoma	

Introduction

Some 2024 – 2025 model year 4WD Tacoma and Tacoma Hybrid vehicles may exhibit a condition where the 4WD lights are flashing and a MIL ON condition with one or more of the following Diagnostic Trouble Codes (DTCs) present:

- P277111 – Four Wheel Drive (4WD) Low Switch Circuit Short to Ground
- P178462 – 4WD/4WD Transfer Case Shift Motor Limit Switch and Transfer Case H4-L4 Position Switch Signal Compare Failure
- P17AC62 – 4WD/4WD Transfer Case Shift Motor Limit Switch Signal Compare Failure

The transfer case breather hose has been updated. Follow the Repair Procedure in this bulletin to address these conditions.

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Production Change Information

This bulletin applies to vehicles produced **BEFORE** the Production Change Effective VINs shown below.

MODEL	PLANT	DRIVETRAIN	PRODUCTION CHANGE EFFECTIVE VIN
Tacoma	TMMBC	4WD	3TMLB5JN#SM188780
	TMMGT		3TYJBAJN#ST103526
			3TYLE5JN#ST103526
			3TYLB5JN#ST103526
			3TYKE5JN#ST103526
			3TYKB5JN#ST103526
			3TYJDAKN#ST022854
			3TYLD5KN#ST022854
			3TYLC5LN#ST050624
Tacoma HV		3TYLF5LN#ST050624	

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Warranty Information

For USA Market

OP CODE	DESCRIPTION	TIME	OFP	T1	T2
TC2505	R & R Transfer Case Shift Actuator and Install New Breather Hose	6.3	36407-04####*	8A	73

*Warranty claim MUST be submitted with the correct 10-digit OFP. Choose the correct OFP for the vehicle being repaired by searching for the parts in the Electronic Parts Catalog using the VIN filter.

APPLICABLE WARRANTY

- This repair is covered under the Toyota Basic Warranty. This warranty is in effect for 36 months or 36,000 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.

For Mexico Market

OP CODE	DESCRIPTION	TIME	OFP	T1	T2
TC2505	R & R Transfer Case Shift Actuator and Install New Breather Hose	6.3	36407-04####*	8A	73

*Warranty claim MUST be submitted with the correct 10-digit OFP. Choose the correct OFP for the vehicle being repaired by searching for the parts in the Electronic Parts Catalog using the VIN filter.

APPLICABLE WARRANTY

- This repair is covered under the Toyota Basic Warranty. This warranty is in effect for 36 months or 60,000 kilometers, whichever occurs first, from the vehicle's in-service date.
- Warranty application is limited to occurrence of the specified condition described in this bulletin.

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Parts Information

TRANSMISSION	PART NUMBER		PART NAME	QTY
	PREVIOUS	NEW		
Manual	36407-04090 36407-04110	36407-04111	Hose Sub-Assy, Transfer Breather	1
Automatic	36407-04090 36407-04120	36407-04121		
Hybrid	36407-04130	36407-04131		
*	36410-04010		Actuator Assy, Transfer Shift	1
	90430-18008		Gasket, Drain Plug	2
	90520-13002		Ring, Shaft Snap	4
	90311-41017		Seal, Type T Oil (for Front Comp. Flange)	1
	36105-04010		Housing Sub-Assy, Transfer Ext with Seal	1
	90301-31003		Ring, O (for Transfer Output Shaft)	1
	90179-24011		Nut (for Transfer Output Shaft Companion Flange)	1
	90179-22016			1
	00295-01281		Toyota Genuine Seal Packing 1281	As Needed
	08885-01806		Transfer Gear Oil LF	As Needed

*Use vehicle VIN # to confirm the parts needed for the Repair Procedure.

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Required Tools & Equipment

SPECIAL SERVICE TOOLS (SST)	PART NUMBER	QTY
Companion Flange Holding Tool*	09330-00021	1
Universal Puller Set "B"*	09950-40011	1
Hanger*	09951-04010	1
Slide Arm*	09952-04010	1
Center Bolt 200*	09953-04030	1
Arm 25*	09954-04010	1
Claw No. 3*	09955-04031	1
Attachment*	09957-04010	1
Hanger 200*	09951-04020	1
Holder*	09958-04011	1
Bearing Replacer Set #1*	09950-60011	1
Replacer 65*	09951-00650	1
Adapter*	09952-06010	1
Handle Set*	09950-70010	1
Handle Assembly - 6.25"*	09951-07150	1
Oil Seal Puller*	09308-00010	1
Seal Ring Tool*	09631-12090	1
Replacer 60*	09951-00600	1
Handle Assembly - 4.25"*	09951-07100	1
Replacer 41*	09951-00410	1
Replacer 57*	09951-00570	1

*Essential SST.

NOTE

Additional SSTs may be ordered by calling 1-800-368-6787 (USA) or +(525) 5550 10 3000 (Mexico) or by visiting *Home – Service Resources – Toyota Tools and Equipment Program*.

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Required Tools & Equipment (continued)

REQUIRED EQUIPMENT	SUPPLIER	PART NUMBER	QTY
Techstream ADVi*	ADE	TSADVUNITECP	1
Techstream Lite		TSLITEPDLR01	
Techstream Lite (Green Cable)		TSLP3DLR01	

*Essential SST.

NOTE

- Only ONE of the Techstream units listed above is required.
- GTS+ software version 2025.04.002.02 or later is required.
- Additional Techstream units may be ordered by calling Approved Dealer Equipment (ADE) at 1-800-368-6787 (USA) or +(525) 5550 10 3000 (Mexico) or by visiting *TIS – Diagnostics – Tools & Equipment – Techstream Order Portal*.

Repair Procedure

1. Confirm the Condition. Does the vehicle exhibit a condition where the 4WD lights are flashing and a MIL ON condition with one or more of the following DTCs present:
 - P277111 – Four Wheel Drive (4WD) Low Switch Circuit Short to Ground
 - P178462 – 4WD/AWD Transfer Case Shift Motor Limit Switch and Transfer Case H4-L4 Position Switch Signal Compare Failure
 - P17AC62 – 4WD/AWD Transfer Case Shift Motor Limit Switch Signal Compare Failure
- **YES** — Continue to step 2.
- **NO** — This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.

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Repair Procedure (continued)

2. Remove the transfer case.

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

- [2024 – 2025](#) Tacoma and Tacoma HV:
Drivetrain – VF2DM (Transfer / 4WD / AWD) – Transfer Assembly – Removal

3. Replace the transfer case shift actuator.

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

- [2024 – 2025](#) Tacoma and Tacoma HV:
Drivetrain – VF2DM (Transfer / 4WD / AWD) – Transfer Assembly – Disassembly

NOTE

Perform ONLY steps 1 – 8, 11, and 24.

4. Reassemble the transfer case.

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

- [2024 – 2025](#) Tacoma and Tacoma HV:
Drivetrain – VF2DM (Transfer / 4WD / AWD) – Transfer Assembly – Reassembly

NOTE

Perform ONLY steps 7 and 20 – 30.

5. Install the transfer case.

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

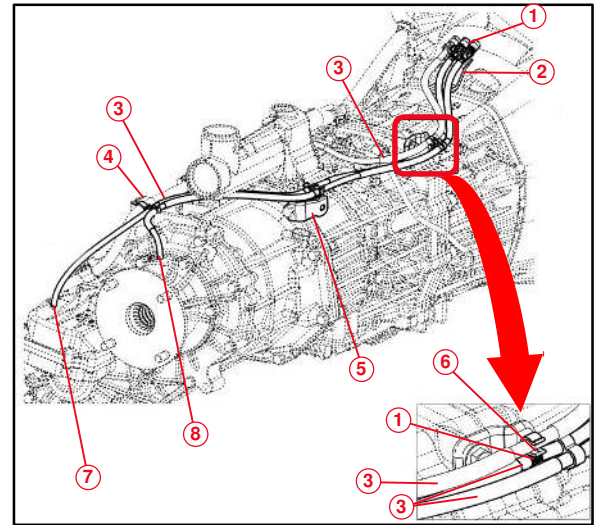
- [2024 – 2025](#) Tacoma and Tacoma HV:
Drivetrain – VF2DM (Transfer / 4WD / AWD) – Transfer Assembly – Installation

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Repair Procedure (continued)

6. Install the NEW breather hose:
 - For manual transmission go to substep A.
 - For automatic transmission go to substep B.
 - For hybrid transmission go to substep C.
- A. For a manual transmission, note the paint mark color on the breather hose is white (Hose Sub-Assy, Transfer Breather 36407-04111).
 - (1) Assemble the breather hose clamp to the transmission bracket.
 - (2) Assemble the breather hose assembly to the transmission breather clamp.
 - (3) Assemble the breather hose clamp to the transfer case bracket.
 - (4) Assemble breather hose to the wire harness clamp.
 - (5) Insert the hose onto the transfer case and actuator tube.

Figure 1. Manual Transmission Breather Hose



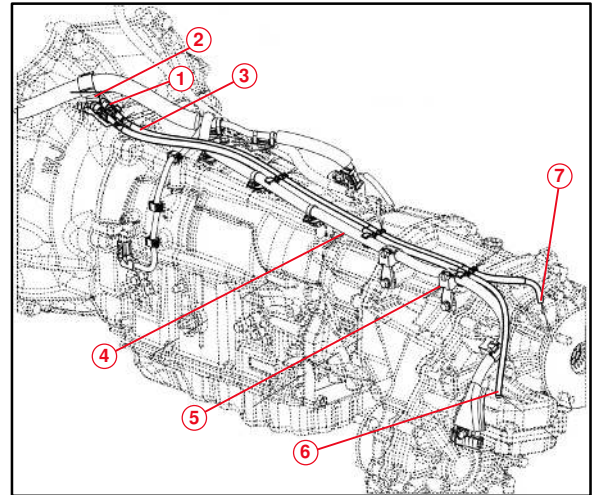
1	Paint Mark Color: White
2	Transmission Bracket
3	Breather Hose
4	Wire Harness Clamp
5	Transfer Case Bracket
6	Transmission Breather Clamp
7	Actuator Tube Insert
8	Transfer Case Tube Insert

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Repair Procedure (continued)

- B. For an automatic transmission, note the paint mark color on the breather hose is yellow (Hose Sub-Assy, Transfer Breather 36407-04121).
- (1) Assemble the breather hose clamp to the wire harness bracket.
 - (2) Assemble the breather hose clamp to the wire harness.
 - (3) Assemble the breather hose clamp to the rear side of the wire harness clamp.
 - (4) Insert the hose onto the transfer case and actuator tube.

Figure 2. Automatic Transmission Breather Hose



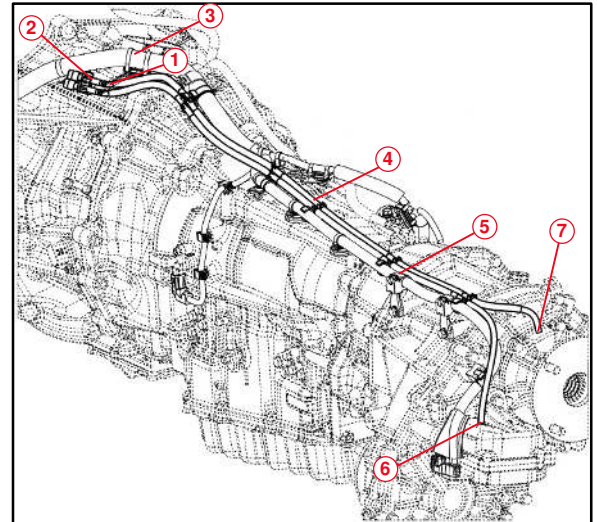
1	Paint Mark Color: Yellow
2	Wire Harness Bracket
3	Breather Hose
4	Wire Harness
5	Wire Harness Clamp
6	Actuator Tube Insert
7	Transfer Case Tube Insert

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Repair Procedure (continued)

- C. For a hybrid transmission, note the paint mark color on the breather hose is green (Hose Sub-Assy, Transfer Breather 36407-04131).
- (1) Assemble the breather hose clamp to the wire harness bracket.
 - (2) Assemble the breather hose clamp to the wire harness.
 - (3) Assemble the breather hose clamp to the rear side of wire harness clamp.
 - (4) Insert the hose onto the transfer case and actuator tube.

Figure 3. Hybrid Transmission Breather Hose



1	Paint Mark Color: Green
2	Wire Harness Bracket
3	Wire Harness
4	Breather Hose
5	Wire Harness Clamp
6	Actuator Tube Insert
7	Transfer Case Tube Insert

7. Using GTS+, clear ANY DTCs and test drive the vehicle to confirm the conditions are no longer present.