

4WD ECM Replacement with Transfer Case/Transfer Case Actuator Assembly Replacement

Service Category Drivetrain

Section Transfer/4wd/Awd

Market USA

Toyota Supports
 ASE Certification 

Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2007 – 2008	Tundra	Drive Type(s): 4WD VDS(s): BT541, BT581, BV541, BV581, CT541, CV541, DT541, DT581, DV541, DV581, KT521, KV521, MT521, MV521

Introduction

If the transfer case assembly or transfer case actuator assembly is replaced on some 2007 and 2008 model year Tundra vehicles, the four wheel drive (4WD) computer (ECM) may need to be replaced at the same time due to transfer case assembly and 4WD ECM logic changes. Refer to the procedure below to confirm if replacement of the 4WD ECM will be required at the same time as the transfer case assembly or transfer case actuator assembly replacement.

Warranty Information

OP CODE	DESCRIPTION	TIME	OFF	T1	T2
390011	R & R Transfer Case	6.2	36100-341##	*	*
Z time	R & R Four Wheel Drive Computer	0.5	89533-0C0#0		

OR

OP CODE	DESCRIPTION	TIME	OFF	T1	T2
TC8010	R & R Transfer Case Actuator and Four Wheel Drive Computer	10.4	36410-34030	*	*

* Select appropriate T1 and T2 codes according to condition/cause for replacement of transfer case or transfer case actuator.

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 correction of a problem based upon a customer's specific complaint.

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Production Change Information

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

PLANT	ENGINE	CAB TYPE	BED LENGTH	PRODUCTION CHANGE EFFECTIVE VIN
TMMI	2UZ	Double	Standard	5TB*T5#1*8S460178
		Crew Max		
	3UR	Double		5TB*V5#1*8S502606
		Crew Max		
TMMTX	2UZ	Regular	Long	5TFKT521*8X002151
	3UR			5TFKV521*8X002684
	2UZ	Regular	Standard	5TF*T5#1*8X011180
		Double		
		CrewMax		
	3UR	Regular	Standard	5TF*V5#1*8X046464
		Double		
		CrewMax		
	2UZ	Double	Long	5TFCT541*8X002269
	3UR			5TFCV541*8X006227

Parts Information

PREVIOUS PART NUMBER	CURRENT PART NUMBER	PART NAME	QTY
89533-0C010	89533-0C031	Computer, Four Wheel Drive	1
89533-0C030			

Required Tools & Equipment

SPECIAL SERVICE TOOLS (SST'S)	PART NUMBER	QTY
Plastic Pry Tool Set*	00002-06000-01	1

* Essential SST.

NOTE
 Additional SSTs may be ordered by calling SPX/OTC at 1-800-933-8335.

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Repair Procedure

1. When replacing the transfer case assembly or transfer case actuator assembly on a 2007 or 2008 model year Tundra, confirm if the vehicle is produced prior to the Production Change Effective VINs in this TSB.

Is the vehicle produced AFTER the Production Change Effective VIN?

- **YES** — This TSB does **NOT** apply — 4WD ECM replacement is NOT required.
- **NO** — Go to step 2.

2. Confirm the 4WD ECM part number installed in the vehicle.

- A. To access the 4WD ECM and confirm the ECM part number, refer to the Technical Information System (TIS):

[2007](#) or [2008](#) model year Tundra Repair Manual, *Drivetrain - Transfer/4wd/Awd - "JF1A Transfer: 4WD Control ECU: Removal"*

- B. Is the 4WD computer part number 89533-0C031?

- **YES** — the 4WD computer has already been replaced. This TSB does **NOT** apply. Replacement of the 4WD ECM is NOT required.
- **NO** — Go to step 3.

3. Replace the 4WD ECM.

Refer to TIS:

2007 model year Tundra Repair Manual, *Drivetrain - Transfer/4wd/Awd - "JF1A Transfer: 4WD Control ECU: [Removal](#) and [Installation](#)"*

2008 model year Tundra Repair Manual, *Drivetrain - Transfer/4wd/Awd - "JF1A Transfer: 4WD Control ECU: [Removal](#) and [Installation](#)"*