

Section 7

Remanufactured Transmissions

Lesson Objectives

1. Explain the remanufactured transmission and core requirements necessary for reimbursement of core deposit.
2. Explain the circumstances under which a core credit request would be denied.
3. Identify technical information items requested under the Technician Diagnosis section of the Core Credit Request form.



Notes

A large grid area for taking notes, consisting of a 30x30 grid of small squares.

Introduction The remanufactured transmission program provides a single source for a complex component overhaul. The advantage is that all work is performed at a single location ensuring continuity of workmanship. In addition, each transmission is tested on a dynamometer to ensure proper operation. The advantages to the customer are two fold; the customer’s vehicle is down for less time, and he receives a 1 year unlimited mile warranty.

The diagnosis of a customer concern is essential in determining the need for an overhaul or replacement with a reman transmission. Your diagnosis should provide information which conclusively establishes a fault inside the transmission. If the transmission can be repaired without disassembling the transmission, by either replacing the torque converter, pump seal or repairing or replacing the valve body, the cost of repair will be much less than a reman transmission. The cost of an overhaul is increased dramatically when hard parts are damaged and require replacement. Therefore, as a rule of thumb, if the transmission must be disassembled for repair, it should be replaced with a reman unit.

The chart below identifies transmissions and vehicle models included in the reman program. All other transmissions would require the technician to overhaul the transmission or replace it with a new unit.

Remanufactured Transmission Models	Transmission Model	Vehicle Model
<p>This chart identifies transmissions and vehicle models included in the reman program.</p>	A-131L	Corolla, Tercel
	A-140E & L	Camry, Celica, Solara
	A-240E & H, A-245E, A-246E	Corolla, Celica
	A-340E & H, A-341E	Cressida, Truck, Tacoma
	A-540E & H, A-541E	Avalon, Camry, Sienna, Solara
	A-43, A-44, A-45	Truck, Van

Fig. 7-01

Core Return Procedure When a reman transmission is shipped, a significant core deposit is debited to the dealership parts department account to ensure a supply of rebuildable cores. Specific criteria described below, are required to receive credit for the core deposit when it is received by the company that remanufactures the transmissions, AWTEC. Both the Service

Department and the Parts Department have responsibilities to ensure accurate information is provided. The Core Information/Credit Request form is completed with all the pertinent vehicle information.

Vehicle Data At the top of the form, vehicle data such as the vehicle identification number, production date, year, model and vehicle mileage, must be provided.

Customer Complaint In the customer complaint section, check the boxes that apply to the customer's complaint as identified on the RO. The following items are included:

- Repair Order number.
- ATM operation.
- Drive and reverse engagement.
- Each upshift condition.
- Downshift condition.
- Forced downshift (Kickdown).
- Noise/Vibration.
- Leaks.
- MIL Light and Code.
- Condition when problem occurs.

Technician Diagnosis The Technician Diagnosis section should be completed as accurately as possible. Here is where keeping thorough notes of your diagnosis on the RO plays an important role. This information assists the remanufacturer in determining the extent of internal damage and complaint verification. The following items are requested under technician diagnosis:

- Hot fluid level in the transmission and differential.
- ATF condition.
- Throttle cable adjustment.
- Shift linkage adjustment.

- Engine idle speed rpm.
- Engine stall speed.
- Line pressure at idle and stall speed in both drive and reverse.
- Valve body malfunction.
- Final detailed written diagnosis.

Core Information and Credit Request Form

AUTOMATIC TRANSMISSION

TOYOTA
GENUINE PARTS
REMANUFACTURED

CORE INFORMATION / CREDIT REQUEST

THIS FORM MUST BE FULLY COMPLETED AND RETURNED WITH EACH CORE TO BE ELIGIBLE FOR CORE CREDIT.

PARTS DEPARTMENT - Please provide the following information from the Repair Order and complete all portions of form (one form per core).

DATE OF FIRST USE: _____

A. VEHICLE DATA

1. VIN: _____ 2. PRODUCTION DATE: _____ 3. YEAR: _____ 4. MODEL: _____ 5. MILEAGE: _____

B. CUSTOMER COMPLAINT - Service and Parts Invoice # or Repair Order #

1. ATM Operation:

	Does not occur/function	Slips	Delayed	Harsh
A. Drive Engagement	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B. Reverse Engagement	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C. 1-2 upshift	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
D. 2-3 upshift	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
E. 3-4 upshift	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
F. Downshift	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
G. Kickdown	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

2. Noise/Vibration Clunk Buzz Vibration Other _____

3. Leaks Axle Seal Extension Housing Seal Front Pump Porous Case Gasket (Specify which) _____

4. Mill Light "ON" Specify Code No. & Repair Manual Description _____

5. Condition Occurs: Hot Cold Frequency: Intermittent Continuous (Specify speed range) _____

C. TECHNICIAN DIAGNOSIS

1. Hot fluid level - TRANSMISSION Correct High Low DIFFERENTIAL: Correct High Low Not Applicable

2. ATF condition: OK Burnt/Smells Contains Metal Particles

3. Throttle Cable adjustment: Correct Incorrect (explain) _____

4. Shift Linkage adjustment: Correct Incorrect (explain) _____

5. Engine idle speed (rpm) _____

6. Stall test (rpm) _____

7. Line Pressure in Drive (idle) _____ (stall) _____ in Reverse (idle) _____ (stall) _____

8. ECT electrical connector Good Defective Not Applicable

9. Valve Body malfunction

10. Final Diagnosis (Please provide details) _____

D. DEFECTIVE TRANSMISSION - (Removed from vehicle: Original Unit Reman Unit) IF THIS IS A WARRANTY REPAIR, YOU MUST RECORD THE SERIAL # FOR THE CLAIM

1. Date of ATM first use: _____ 2. ATM mileage: _____ 3. Serial No: _____

4. Date of replacement: _____ 5. Repair order No: _____ 6. Part No: _____

7. Type of repair: Original unit defective - warranty replaced Reman unit defective - warranty replaced
 Original unit defective - customer pay Reman unit defective - customer pay
 Original unit defective - wholesale Reman unit defective - wholesale

E. REMAN TRANSMISSION - (Installed into vehicle)

1. Serial No: _____ 2. Part No: _____

ADDITIONAL COMMENTS: _____

DCS CODE: [D] [S] [R] PD DEALER CODE: [] [] [] [] [] [] DEALER NAME: _____

TMD DEALER CODE: [] [] [] [] [] [] ADDRESS: _____

CREDIT REF NO: [A] [R] [6] **61249** CHECK BOX INDICATING YOUR RGN/PO
 BN DN NY
 CH KC PT
 CN LA SF
 CATD SET GST

RETURN DATE: [] [] [] [] [] [] CITY, STATE, ZIP: _____

ANALYST CODE: [A] [9] PREPARED BY: _____

CORE DESCRIPTION	L I N E	CORE PART NUMBERS	✓	ORIG		CORE WEIGHT	CORE CODE*
				SHP DEPOT	0 / 1		
Front Wheel Drive ATM	1	3 0 5 1 0 9 9 9 9 9 9 8 9	✓	1	1	S	200 lbs.
Full Time 4 Wheel Drive ATM	2	3 0 5 1 0 9 9 9 9 9 9 9 9		1	1	S	290 lbs.
Rear Wheel Drive 4X2 ATM	3	3 5 0 1 0 9 9 9 9 9 9 8 9		1	1	S	180 lbs.
Rear Wheel Drive 4X4 ATM	4	3 5 0 1 0 9 9 9 9 9 9 9 9		1	1	S	290 lbs.

OFFICE USE ONLY

Retain approved _____ Date: _____

COPY DISTRIBUTION

Top five copies - Return with ATM core
 Pak - Mail to your Region Office, Attn: Parts Manager
 General - Retain for your records

***CORE CODE EXPLANATIONS**

OK - Core approved for credit.

1 - Not returned in Toyota reman ATM container.

2 - Disassembled, partially disassembled core or missing major components (e.g., valve body, torque converter, differential, oil pump, etc.)

3 - Non genuine Toyota core

4 - Externally damaged core (e.g., vehicle accident).

5 - ATM core not part of reman program.

6 - ATM core not from the vehicle being repaired.

NOTE! Core codes 1-6 indicate rejection of your ATM core. Credit will not be given. The dealer has the option of having the rejected core returned within 30 days, freight collect.

98-PDM-129 Reorder M/N 00108-01060-97

Fig. 7-02
T273F283

In preparing the core for shipment to AWTEC the transmission must be completely assembled. Be sure to include each of the following:

- all plastic or rubber shipping plugs should be transferred from the reman unit to the transmission core.
- all fluids must be drained from the transmission, the differential on front wheel drive transaxles and transfer cases.
- the torque converter must be attached and held in place with the bracket provided with the reman unit.
- the following parts must be attached to the transmission core:
 - speed sensor or governor.
 - throttle cable.
 - wiring harness.
 - breather assembly.
 - differential assembly on transaxles.
 - transaxle left side engine mounting bracket.
 - transfer case (four/all wheel drive models).
- The transmission must be shipped in the reman ATM container.

The Core Credit Request may be denied if the transmission core is:

- returned in a container other than the reman ATM container.
- fully or partially disassembled.
- missing major components.
 - valve body.
 - torque converter.
 - differential.
 - oil pump.
- damage by external force.
- a transmission model which is not part of the reman program.



Notes

A large grid area for taking notes, consisting of a fine grid of small squares.