

**THE NORTHEAST'S LARGEST INVENTORY OF TRANSMISSIONS,  
REAR DIFFERENTIALS, STEERING BOXES &  
OTHER DRIVETRAIN COMPONENTS**

**Transmissions**

Allison (Factory Auth., Endale CT)  
Aisin  
Borg Warner  
Clark  
Eaton  
Fuller  
GMC  
International  
Jatco  
Mack



Mercedes Sprinter  
Muncie  
New Process  
New Venture  
RoadRanger  
Rockwell-Meritor  
Spicer  
Tokyo Koygo  
ZF (Factory Direct)

**ON-HIGHWAY**

**Rear Differentials**

DANA-Spicer  
Eaton  
Ford  
GMC  
International  
Mack  
Rockwell-Meritor



**Transfer Cases**

Borg Warner  
Cotta  
Fabco  
Fwd  
New Process  
Noster  
OshKosh  
Rockwell  
Spicer



**Steering Boxes/Pumps**

Bendix  
Ford  
GMC  
Luk  
ZF (Factory Direct)  
Saginaw  
Sheppard  
TRW-Ross  
Vickers



**Pre-Tested Diesel Engines**

Caterpillar  
Detroit  
Ford  
Isuzu  
Mitsubishi  
Cummins  
GM  
International  
Mack  
Volvo



**Transmissions &  
Torque Converters**

Allison (Factory Auth., Endale CT)  
Borg Warner  
Caterpillar  
Clark  
Cotta



Fuller  
Funk  
Spicer  
Twin Disc  
ZF

**OFF-HIGHWAY**

**Rear Differentials**

Caterpillar  
Dana-Spicer  
Eaton  
Fabco  
FWD  
Mack  
Rockwell-Meritor  
Terex-Euclid



**Driveshafts &  
Universal Joints**

Rockwell-Meritor  
Spicer



**New Parts**

Allison (Factory Auth., Endale CT)  
DANA-Spicer  
Eaton  
Federal Mogul  
Fuller  
PAI  
Rockwell-Meritor  
Timken  
TTC-Spicer Trans

**Clutches**

Eaton-Spicer  
Valeo



**Full Service  
&  
Installation Available**



**TECH SUPPORT**

Allison.....1-800-247-4313 (Camerota Allison Dept)  
DANA.....1-419-866-3955  
Eaton.....1-800-826-4357  
Rockwell.....1-888-725-9355  
Spicer-TTC...1-800-401-9866

Visit our website at  
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INTERNATIONAL

CLARK

TIMKEN

Valeo



**1-800-231-4005**

**CAMEROTA**



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**1-800-231-4005 www.camerota.com**



**SPRINTER 726  
TRANSMISSION  
INSTALLATION  
GUIDE**

## INSTALLATION CHECKLIST

- Thoroughly flush the cooler to make sure there is no contamination remaining from the failed unit.
- It is highly recommended that an approved flushing machine is used. Blowing air through the lines will not clean out the cooler.

### **FAILURE TO PROPERLY FLUSH THE COOLER WILL DAMAGE THE NEW UNIT !**

- Check the converter installation depth. Fully seated the converter depth should be approximately .275 inches from the converter pad to the face of the bell housing.
- Check the flex plate for cracks or damage.
- Check for locating dowel pins (2) in the motor.
- Check the crankshaft pilot hub for any wear.
- Check the driveline, including motor mounts, U-joints and hanger bearings for wear or damage.
- Install the transmission making sure that it is flush with the engine.

### **DO NOT DRAW THE TRANSMISSION IN WITH THE BOLTS!**

- Hand tighten two of the mounting bolts and then check the converter for free movement.
- Install and torque the remaining bolts
- Attach electrical harness and shift linkage control.  
(See illustrations)

## ROAD TEST PROCEDURE

Take the vehicle on a road test with the diagnostic scan tool connected to monitor transmission temperature, throttle angle, diagnostic trouble codes, and to perform the transmission solenoid test.

The road test consists of the following:

- Make 15-20 1-2, 2-3 and 3-4 upshifts.
- Perform the shifts from a standing start to 45 mph with a constant throttle opening of 20-25 degrees. (Use diagnostic scan tool to monitor throttle degrees)
- With speeds below 25 mph, make 5-8 wide open throttle kick down shifts to first gear. Allow at least 5 seconds in 2nd and 3rd gear between each kick down shift.
- Perform the Transmission Solenoid Test and check for any diagnostic trouble codes using the scan tool.

**IF ANY DIAGNOSTIC TROUBLE CODES ARE STILL  
PRESENT DO NOT OPERATE THE VEHICLE UNTIL  
APPROPRIATE REPAIRS ARE COMPLETED!**



## TRANSMISSION ADAPTATION PROCEDURE

Using the diagnostic scan tool, reset the transmission adaptives to the factory settings.

- Drive the vehicle until the transmission is in the specified ranges for coast down adaptation (140°-158°) and upshift adaptation (140°-212°).
- Coast down adaptation should be performed first, while the transmission temperature is between 140°-158°. The procedure is void if coastdown adaptation is not performed within this temperature range.
- Perform four to five coastdown shifts from 5th to 4th gear and then 4th to 3rd gear.
- Upshift adaptation should be performed second, while the transmission temperature is between 140°-212°.
- From a stop, moderately accelerate the vehicle (with the engine speed below 1800 rpm) to obtain all forward gears.  
**Repeat four to five times.**

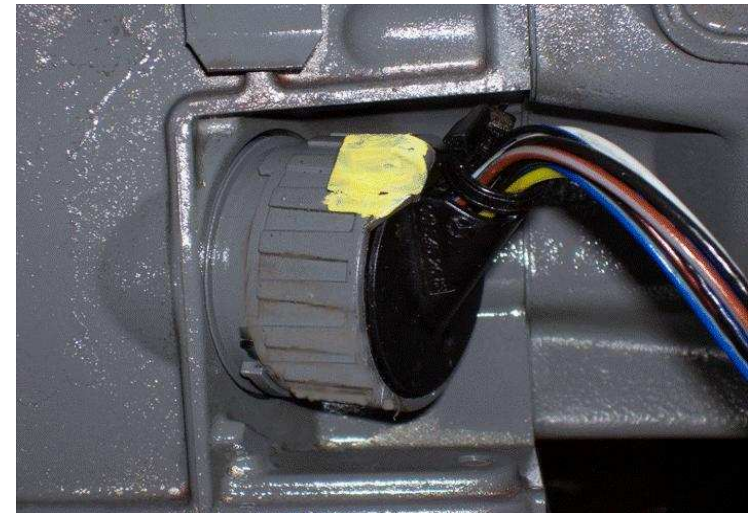
**NOTE:** It may be difficult to obtain 5th gear at 1800 rpm. In this case allow the transmission to shift into 5th gear at a higher rpm, then lower the rpm to 1800.

- Perform Manual shifts between 4th and 5th gears using the shift lever.

**MAKE SURE TO LEAVE THE ENGINE RUNNING FOR AT LEAST 10 MINUTES AFTER PERFORMING THE ADAPTATION PROCEDURE.**



*Harness plugged in, lock tab must be twisted clockwise to secure properly.*



*Lock tab secured properly*

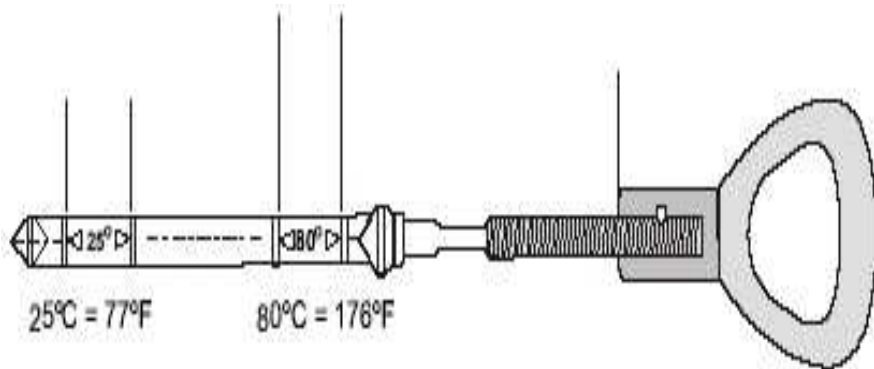
Verify that the shift linkage is correctly adjusted. Incorrect adjustment can lead the TCM to sense a shift lever position that is incorrect for the gear which can result in a diagnostic trouble code to be set, delayed clutch engagement, and erratic shifts.

## INITIAL FILL & START UP

- Before starting the engine pour 4 quarts of oil down the filler tube.
- Start the engine and pour 3 more quarts of oil into the transmission. Put the transmission in and out of gear several times then check the fluid level (engine running) with the dipstick tool.
- The cold fluid level should reach the first line on the dipstick tool. Continue to fill the transmission until the fluid reaches this level.

Camerota Truck Parts has the dipstick tool and oil available at all locations. (Refer to next page for part number information)

*Approximate measurements taken from the bottom of the stick to the individual fill lines.*



## INITIAL ROAD TEST

- Drive the vehicle until the transmission has reached 160°- 180°.
- Recheck the fluid level making sure that the reading is between the 4th and 5th marks on the dipstick tool. The Transmission should hold approximately 7.7 quarts of oil.
- Reseal the filler tube when done.

## LUBRICATION RECOMMENDATIONS

**CAUTION:**  
**USE ONLY RECOMMENDED FLUID**

OIL FILTER KIT	# 4139298936
RECOMMENDED FLUIDS	MOPAR # 05127382AB
	SHELL # 3406
DIPSTICK TOOL	CAMEROTA # TOL-8863B

**DO NOT USE DEXRON ATF IN THIS UNIT!**

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### OIL CAPACITIES:

First fill of dry transmission	16.3 pints
At oil changes	10.6 pints

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### OIL CHANGE INTERVALS:

Oil change in normal operating conditions	80,000 miles
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**CAUTION!**  
**UNDER FILLING OR OVER FILLING THIS UNIT  
WILL CAUSE THE TRANSMISSION TO SLIP,  
OVERHEAT, OR BLOW OIL OUT THE VENT.**