

## Driver Instructions

### Video Instruction Available

Instructional videos are available for download at no charge at [roadranger.com](http://roadranger.com)

Videos are also available for purchase. To order, call 1-888-386-4636. Ask for item # RRSD0002

# Eaton Fuller<sup>®</sup> Heavy-Duty Transmissions TRDR0800

September 2007

RTLO-14718B	RTLOF-14718B
RTLO-14918B	RTLOF-14918B
RTLO-14918B-T2	RTLOF-14918B-T2
RTLO-16718B	RTLOF-16718B
RTLO-16918B	RTLOF-16918B
RTLO-16918B-T2	RTLOF-16918B-T2
RTLO-18718B	RTLOF-18718B
RTLO-18718B-T2	RTLOF-18918B
RTLO-18918B	RTLOF-18918B-T2
RTLO-18918B-T2	RTLOF-20918B
RTLO-20918B	RTLOF-20918B-T2
RTLO-20918B-T2	RTLOF-22918B
RTLO-22918B	



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SUPPORT

# *Introduction*

## Warnings and Cautions



Read the entire driver instructions before operating this transmission.

Set the parking brakes before starting a vehicle, always be seated in the driver's seat, move the shift lever to neutral, and depress the master clutch.

If engine cranks in any gear other than neutral or without the master clutch depressed, service your vehicle neutral safety start circuit immediately.

Before working on a vehicle or when leaving the cab with the engine running, place the transmission in neutral, set the parking brakes, and block the wheels.

Do not release the parking brake or attempt to select a gear until the air pressure is at the correct level.

When parking the vehicle or leaving the cab, always place the shift lever in neutral and set the parking brakes.

If your vehicle is equipped with a remote throttle, before operation, the transmission must be in neutral.

**TOWING:** To avoid damage to the transmission during towing, disconnect the driveline.

Every effort has been made to ensure the accuracy of all information in this manual. However, Eaton Truck Component Operations makes no expressed or implied warranty or representation based on the enclosed information. Any errors or omissions may be reported to Marketing Services, Eaton Truck Component Operations, P.O. Box 4013, Kalamazoo, MI 49003.

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## Overview

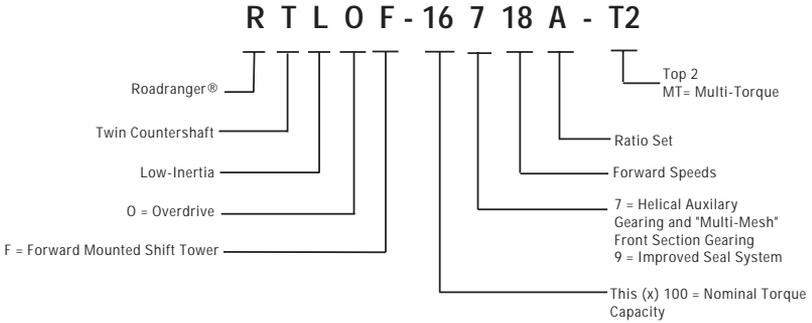
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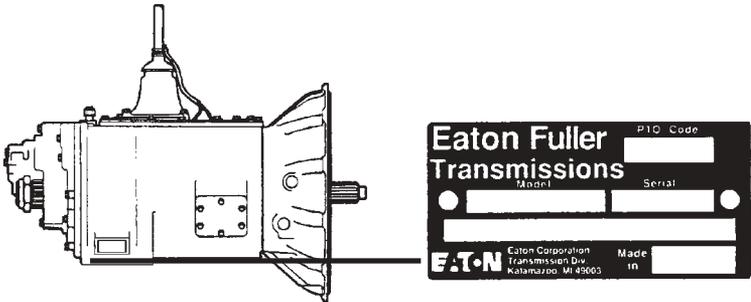
# Overview

## Model Designation



## Identification Tag

### Transmission Tag and Location



DO NOT REMOVE OR DESTROY THE TRANSMISSION IDENTIFICATION TAG.

Transmission model designation and other transmission identification information are stamped on the transmission tag. To identify the transmission model designation and serial number, locate the tag on the transmission and then locate the numbers as shown (example: RTLO-14610B).

Record transmission identification data. Have these reference numbers handy when ordering replacement parts or requesting service information.

# *Introduction*

## **General Information**

This manual is designed to provide detailed information necessary for the proper driving techniques of the Eaton® Fuller® transmissions listed on the cover.

## **Introduction**

Driver instructions are divided into two sections: Transmission Operation and Service and Maintenance. Transmission Operation contains information on driving techniques along with shift patterns. Service and Maintenance contains information items that deal with basic service and maintenance; such as, identification tags and lubrication information.

## **18-Speed Models**

Models in this series provide eighteen forward speeds and four reverse, consisting of a five-speed front section and a 4-speed auxiliary section. The auxiliary section contains LO and HI range ratios, plus a splitter gear.

The LO position in the front section is used only as a starting gear, it is never used when the transmission is in HI range.

The other four ratios are used once in LO range and once again in HI range. However, each of the five ratios (LO-1-2-3-4) in LO range and each of the four ratios (5-6-7-8) in HI range can be split with the splitter gear.

After shifting out of the LO position, you use the easy Roadranger repeat "H" shift pattern. LO range and HI range are selected with the range lever. It is used once during the upshift sequence and once during the downshift sequence.

Always preselect the range shift. After preselection, the transmission automatically makes the synchronizer range shift as the shift lever passes through neutral.

## Shift Pattern Diagram

A shift pattern diagram should be in your vehicle. If it has been lost, a replacement may be obtained by writing to:

Eaton Corporation  
**Truck Components**  
Global Marketing Services  
P.O. Box 4013  
Kalamazoo, MI 49003  
www.roadranger.com

Please specify shifting controls used and transmission model number when making request.

### All 18 Speed Models

### Eaton Fuller Transmissions

### 18 SPEED (RTO)

**SPLITTER SELECTOR**  
MAY BE SHIFTED  
IN ALL GEAR SHIFT  
LEVER POSITIONS

**RANGE SELECTOR**

**PRE-SELECT ALL RANGE SHIFTS**  
MOVE RANGE SELECTOR BEFORE MOVING SHIFT LEVER

**UPSHIFTING**  
START WITH RANGE SELECTOR DOWN  
SHIFT LO-1-2-3-4 RAISE RANGE SELECTOR  
SHIFT 5-6-7-8

**DOWNSHIFTING**  
SHIFT 8-7-6-5 MOVE RANGE SELECTOR DOWN  
SHIFT 4-3-2-1-LO

**DO NOT CHANGE RANGE WHILE MOVING IN REVERSE**

**WARNING** PUT TRANSMISSION IN NEUTRAL BEFORE STARTING ENGINE

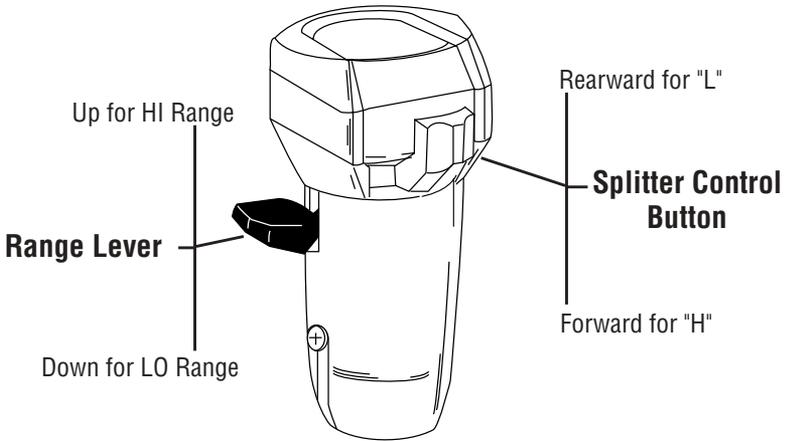
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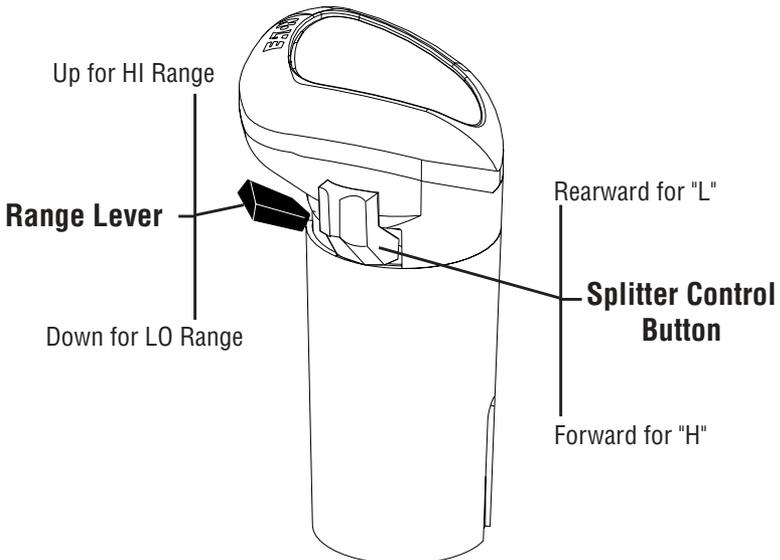
# Driving Operation

## Shift Controls

### Roadranger Valve - A-5013



### Roadranger Valve - A-6818



## Transmission Features

### Range Shift

The range lever selects LO or HI range. It is used once during an upshift sequence and once during a downshift sequence.

### Preselect

**IMPORTANT:** Always preselect all range shifts when upshifting or downshifting. Preselection requires that the range lever is moved to the needed position before starting the shift.

Preselected range shifts are completed automatically as the lever is moved through neutral and into the next gear. Preselecting all range shifts prevents damage to the transmission and provides for smoother shifts.

### Splitter Shift

When in LO or HI range the ratios can be split by using the splitter control button. The LO range "L"/rearward position provides for LO through 4th speeds; the LO range "H"/forward position splits each of those speeds (providing 10 ratios in LO range). The HI range "L"/rearward position provides for 5th through 8th speeds; the HI range "H"/forward position splits each of those speeds (providing 8 ratios in HI range) - 18 progressive ratios can be obtained.

# *Driving Operation*

## Optional Equipment

For easier and faster engagement while the vehicle is standing still, some Eaton® Fuller® transmissions may be equipped with either a Countershaft Brake or a Clutch Brake.

### **Countershaft Brake**

(Used with push-type clutches) - The control button is mounted on the shift lever just below the shift knob. To operate, disengage the clutch, press down the control button, and shift into LO or reverse. This is an air operated mechanical brake which slows down the transmission gearing by forcing a piston against the countershaft PTO gear. Never use the Countershaft Brake when upshifting or downshifting. Use **only** for initial gear engagement when the vehicle is standing still.

### **Clutch Brake**

(Used with pull-type clutches) - The clutch brake is applied by fully depressing the clutch pedal to the floor board. When applied the brake slows down and can stop the transmission front box gearing. It is a disc-type brake incorporated into the clutch and transmission drive gear assemblies. Never use the Clutch Brake when upshifting or downshifting. Use **only** for initial gear engagement when the vehicle is standing still.

## Driving Tips

- Always select an initial starting gear that provides sufficient reduction for the load and terrain.
- Always use normal double-clutching procedures when making lever shifts.
- Never slam or jerk the shift lever to complete gear engagements.
- Never coast with the shift lever in the neutral position.
- Never move the range lever with the shift lever in neutral while the vehicle is moving.
- Never make a range shift while moving in reverse.
- Never downshift at too high of a road speed.
- In most cases, depending on the engine and axle ratios, you can save valuable fuel by operating the vehicle at less than governed RPM while cruising in top gear.
- Never move the shift lever to the LO speed gear position while operating in HI range.
- Never make a splitter shift while moving in reverse.
- Do not lug engine below peak torque (1200 r.p.m.).

# Driving Operation

## Double-Clutching Procedure

### Special Instructions

Purpose:

- a. To break torque to allow the transmission to come out of gear, and...
- b. To disengage the engine from the transmission when shifting into gear.

### Procedure

1. Release accelerator.
2. Depress clutch pedal slightly to break torque enough to move the shift lever to neutral.

**Note:** Avoid depressing the clutch pedal too far and contacting the clutch brake.

3. When the shift lever is in neutral, let up on clutch pedal.

**Note:** Engaging the clutch with the shift lever in the neutral position connects the transmission input gearing to the engine. This allows the operator to speed up or slow down the transmission input gearing to properly match the desired gear speed to the current road speed.

- a. For upshifts - allow engine RPM to decrease to match road speed.
  - b. For downshifts - increase engine RPM to match road speed.
4. At the correct engine RPM, depress the clutch pedal slightly and **at the same time**, move the shift lever into the desired gear.
  5. Let up on the clutch pedal and apply accelerator.

## Initial Start Up

### Special Instructions



**WARNING:** Before starting a vehicle always be seated in the driver's seat, move the shift lever to neutral, and set the parking brakes.



**CAUTION:** Before moving a vehicle, make sure you understand your shift pattern configuration. A shift label should be in your vehicle's cab. If not, refer to General Information to order one.

1. Make sure the shift lever is in neutral and the parking brakes are set.
2. Turn on the key switch, start the engine.
3. Allow the vehicle air pressure to build to the correct level. Refer to your "Operator and Service Manual" supplied with the truck.
4. Apply the service brakes.
5. Make sure the range lever is down in the LO range position and the splitter control button is rearward.



Range Lever **MUST** be in the LO Range position for LO Range.



And Splitter Control Button Rearward

6. Depress the clutch pedal to the floor.
7. Move the shift lever to desired initial gear.
8. Release the parking brakes on the vehicle.
9. Slowly release the clutch pedal and apply accelerator.

# Driving Operation

## Upshift Procedure

In the following instructions, it is assumed that the driver is familiar with operating heavy-duty trucks and tractors, and can coordinate the movement of the shift lever and clutch pedal to make smooth gear engagements while upshifting or downshifting. Always double-clutch when making lever shifts.



**CAUTION:** Never move the range lever or the splitter control button with the shift lever in neutral while the vehicle is moving.

### Splitter shift - LO Range "L" to LO Range "H" (LO "L" to LO "H")

1. Pre-select just before making an upshift by moving the button forward while maintaining accelerator position.
2. Then, **immediately**, release the accelerator, depress the clutch pedal once to break torque, release the pedal to reengage the clutch, allow the engine to decelerate until the shift is complete. Continue driving or upshifting. The transmission shifts from "L" to "H" when synchronous is reached.

### Combination Lever shift and Splitter shift - LO Range "H" to LO Range "L" (LO "H" to 1st "L")

3. Pre-select just before making an upshift by moving the button rearward while maintaining accelerator position.
4. Move the shift lever, double-clutching, to the 1st speed gear position. If the splitter control button is not moved, the transmission will be in 1st H once the final clutch engagement is made.



**CAUTION:** Never move the splitter control button or the range lever with the shift lever in neutral while the vehicle is moving.

5. Continue upshifting through the shift pattern. Double-clutching during lever shifts, single-clutch during split shifts while the shift lever is in the same position.

# Driving Operation

## Combination Lever shift and Splitter shift - LO Range "H" to HI Range "L" (4th H to 5th L)... (Range shift)

6. Pre-select just before making an upshift by moving the button rearward while maintaining accelerator position.
7. Pull up the Range Lever, move the shift lever, double-clutching, to the 5th speed gear position. If the splitter control button is not moved, the transmission will be in 5th H once the final clutch engagement is made.



**CAUTION:** Never move the splitter button or the range lever with the shift lever in neutral while the vehicle is moving.

8. Continue upshifting through the shift pattern. Double-clutching during lever shifts, single-clutch during split shifts while the shift lever is in the same position.

## Splitter shift - HI Range "L" to HI Range "H" (5th L to 5th H)

9. Pre-select just before making an upshift by moving the button forward while maintaining accelerator position.
10. Then, **immediately**, release the accelerator, depress the clutch pedal once to break torque, release the pedal to reengage the clutch, allow the engine to decelerate until the shift is complete. Continue driving or upshifting. The transmission shifts from "L" to "H" when synchronous is reached.

## Combination Lever shift and Splitter shift - HI Range "H" to HI Range "L" (5th H to 6th L)

11. Move the splitter control button into the rearward position.
12. Move the shift lever, double-clutching, to the 6th speed gear position. If the splitter control button is not moved, the transmission will be in 6th H once the final clutch engagement is made.



**CAUTION:** Never move the splitter button or the range lever with the shift lever in neutral while the vehicle is moving.

# Driving Operation

13. Continue upshifting through the shift pattern. Double-clutching during lever shifts, single-clutch during split shifts while the shift lever is in the same position.

## Downshift Procedure

In the following instructions, it is assumed that the driver is familiar with operating heavy-duty trucks and tractors, and can coordinate the movement of the shift lever and clutch pedal to make smooth gear engagements while upshifting or downshifting. Always double-clutch when making lever shifts.



**CAUTION:** Never move the range lever or the splitter control button with the shift lever in neutral while the vehicle is moving.

### Splitter shift - HI Range "H" to HI Range "L" (8th H to 8th L)

14. Pre-select just before making a downshift by moving the button rearward while maintaining accelerator position.
15. Then, **immediately**, release the accelerator, depress the clutch pedal once to break torque, release the pedal to reengage the clutch, accelerate the engine until the shift is complete. Continue driving or downshifting. The transmission shifts from "H" to "L" when synchronous is reached.

### Combination Lever shift and Splitter shift - HI Range "L" to HI Range "H" (7th L to 6th H)

16. Pre-select just before making a downshift by moving the button forward while maintaining accelerator position.
17. Then, **immediately** move the shift lever, double-clutching, to the next lower gear position. If the splitter control button is not moved, the transmission will be in 6th "L" once the final clutch engagement is made.
18. Continue downshifting through HI range. Double-clutching during lever shifts, single-clutch during split shifts while the shift lever is in the same position.

## Combination Lever shift and Splitter shift - HI Range "L" to LO Range "H" (5th L to 4th H)... (Range Shift)

19. Pre-select just before making a downshift by moving the button forward while maintaining accelerator position.
20. Push the range lever down, **immediately** move the shift lever, double-clutching, to the next lower gear position. If the splitter control button is not moved, the transmission will be in 4th "L" once the final clutch engagement is made.
21. Continue downshifting through LO range. Double-clutching during lever shifts, single-clutch during split shifts while the shift lever is in the same position.

## Splitter shift - LO Range "H" to LO Range "L" (4th H to 4th L)

22. Pre-select just before making a downshift by moving the button rearward while maintaining accelerator position.
23. Then, **immediately**, release the accelerator, depress the clutch pedal once to break torque, release the pedal to reengage the clutch, accelerate the engine until the shift is complete. Continue driving or downshifting. The transmission shifts from "H" to "L" when synchronous is reached.

## Combination Lever shift and Splitter shift - LO Range "L" to LO Range "H" (4th L to 3rd H)

24. Pre-select just before making a downshift by moving the button forward while maintaining accelerator position.
25. Then, **immediately** move the shift lever, double-clutching, to the next lower gear position. If the splitter control button is not moved, the transmission will be in 3rd "L" once the final clutch engagement is made.
26. Continue downshifting through LO range. Double-clutching during lever shifts, single-clutch during split shifts while the shift lever is in the same position.

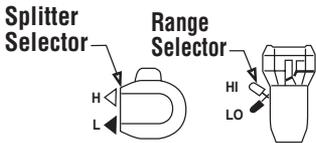
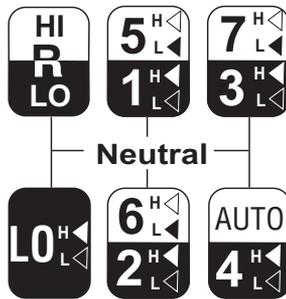
# Driving Operation

## Top 2 Basic Operation and Overview

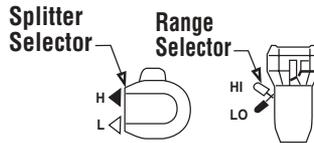
The Super 18 Top 2 transmission operates like a normal Super 18 in positions LO through 7th H. The transmission shifts automatically in the "AUTO" position based on engine speed and load.

When the transmission is in the Top 2 Mode, the system will:

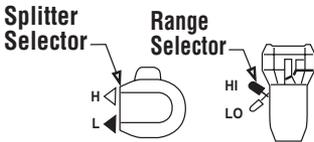
- Shift the transmission between top 2 gears automatically.
- Increase or decrease engine speed during a Top 2 shift.
- Momentarily interrupt cruise control or engine brake during the shift.



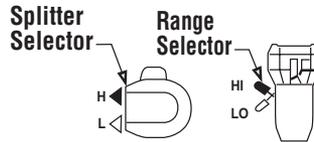
LO Range  
Shift LO L, 1st L, 2nd L, 3rd L, 4th L



LO Range  
Shift LO H, 1st H, 2nd H, 3rd H, 4th H



HI Range  
Shift 5th L, 6th L, 7th L



HI Range  
Shift 5th H, 6th H, 7th H

## Upshift Procedure

1. Upshift the transmission through the shift pattern to 7th H position. Double-clutching during lever shifts and breaking torque during button shifts.
2. When the engine has reached the shift point use the normal double-clutching procedure and move the shift lever into "AUTO" position.

**Note:** The position of the splitter selector does not matter when moving the lever into the "AUTO" position. It is recommended to leave the splitter selector in the forward position so it is ready when you want to make a downshift into 7th H position.

3. When the engine has reached the shift point the transmission will automatically shift into top gear.

## Downshift Procedure

4. To downshift from top gear: Once the engine has reached the shift point the transmission will automatically downshift.
5. To downshift from "AUTO" position to 7th H:
  - a. While in "AUTO" position, make sure the splitter selector is in the forward position.
  - b. Once the engine has reached the shift point move the lever to the next lower lever position while double-clutching.
6. Continue downshifting through the shift pattern, double-clutching during lever shifts and breaking torque during button shifts.

# *Driving Operation*

## **Top 2 Driving Tips**

To activate Top 2 mode, the transmission must be shifted from 7th H to "AUTO" once the engine has reached the normal shift point. If the operator moves the shift lever into the AUTO lever position below the engines' normal shift point, the transmission will be in normal mode. Once the engine reaches the normal shift point, Top 2 mode will become active.

Throttle position determines the upshift point. Less throttle will lower the shift point. Zero throttle (down hill push) will raise the up shift point. To reset the shift points the engine must drop below it's normal shift point.

When the engine brake active, the up and down shift points will be raised.

A feature of Top 2 is ANTI HUNT mode. This is built in to avoid constant upshifts and downshifts. When the shift lever is in the AUTO position and the transmission has just completed an upshift, the downshift point will be lower than normal. If the transmission has just completed a downshift, the upshift point will now be higher than normal.

## **Top 2 System Problem**

If the system malfunctions, the transmission will typically default to Super 18 mode. For some malfunctions, the system will detect a failure, that the operator must allow the Top 2 to “time out” - this will take 9 seconds. During the 9 seconds the Top 2 will try to complete the shift. Once the Top 2 has timed out the operator must place the transmission in neutral to obtain manual Super 18 mode. The Top 2 function will be inactive until the vehicle is stopped and the key is turned off.

In some situations, the system can be reset at a stop by leaving the key off for 10 seconds and then restarting the engine. If this does not clear the problem verify air pressure and check the electrical connections to the Top 2. To help assure operation of the Super 18 Top 2, advise your maintenance personnel of any oil leaks, above normal operating temperatures, unusual noises, fault codes, or if the transmission is not operating correctly.

These instructions assume the driver is currently familiar with the operation of a normal Super 18 transmission.

# Overview

## Lubrication Procedures

Proper lubrication procedures are the key to a good all-around maintenance program.

Eaton® Fuller® Transmissions are designed so that the internal parts operate in an oil circulating bath created by the motion of the gears and shafts.

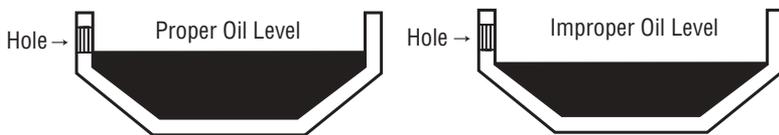
All parts will be properly lubricated if these procedures are closely followed:

- a. Maintain oil level. Inspect regularly.
- b. Follow maintenance interval chart.
- c. Use the correct grade and type of oil.
- d. Buy from a reputable dealer.

## Maintain Proper Oil Level

Make sure oil is level with the filler opening. Being able to reach oil with your finger does not mean oil is at proper level. (One inch of oil level is about one gallon of oil.)

When adding oil, never mix engine oils and gear oils in the same transmission.



For additional lubrication information, see TCMT-0021.

If your vehicle has a transmission oil filter, you must change the filter when fluid or lubricant is changed.

**Additives and friction modifiers must not be introduced.**

**Never mix engine oils & gear oils in the same transmission.**

The use of lubricants not meeting these requirements will affect warranty coverage.

For a list of Eaton Approved Synthetic Lubricants see TCMT-0020 or call 1-800-826-HELP (4357).

## **Buy from a reputable dealer**

For a complete list of approved and reputable dealers see TCMT-0020 or write to:

Eaton Corporation  
**Truck Components**  
Global Marketing Services  
P.O. Box 4013  
Kalamazoo, MI 49003  
[www.roadranger.com](http://www.roadranger.com)

## **Transmission Operating Angles**

If the transmission operating angle is more than 12 degrees, improper lubrication will occur. The operating angle is the transmission mounting angle in the chassis plus the percent of upgrade (expressed in degrees).

For operating angles over 12 degrees, the transmission must be equipped with an oil pump or cooler kit to insure proper lubrication.

# Overview

## Operating Temperatures with Oil Coolers

Operating at temperatures above 250° F (120°C) causes loaded gear tooth temperatures to exceed 350°F (177°C) which will ultimately destroy the heat treatment of the gears. Temperatures above 250°F (120°C) should be regarded as a warning of inadequate cooling. If the elevated temperature is associated with unusual operating conditions that will reoccur, a cooler should be added, or the capacity of the existing cooling system increased.

The following conditions in any combination can cause operating temperatures of over 250°F:

- Operating consistently at slow speed.
- High ambient temperatures.
- Restricted air flow around transmission.
- Exhaust system too close to transmission.
- High horsepower operation.

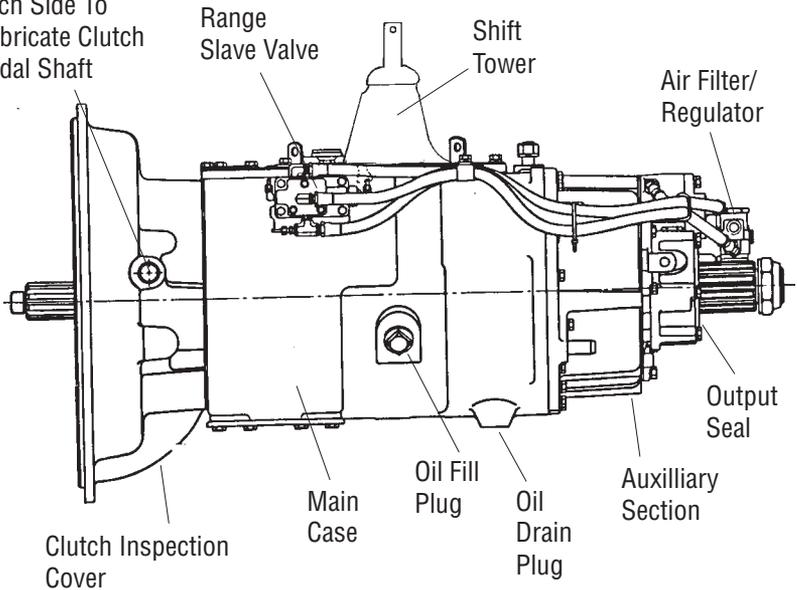
External oil coolers are available to reduce operating temperatures when the above conditions are encountered.

## Oil Cooler Chart

Transmission Oil Coolers are:
Recommended
• With engines of 350 H.P. and above.
Required
• With engines 399 H.P. and above and GCW's over 90,000 lbs.
• With engines 399 H.P. and above and 1400 lbs. ft. or greater torque.
• With engines 450 H.P. and above.

## Preventive Maintenance

Grease Fitting On  
Each Side To  
Lubricate Clutch  
Pedal Shaft



The following maintenance items are necessary to prevent costly transmission failures which may not be covered by warranty.

### Transmission Oil

- Check transmission daily for oil leaks. Repair promptly to prevent oil loss and subsequent transmission failure.
- Check transmission oil level at every engine oil change interval. Add transmission oil as necessary.
- Drain and replace transmission oil as recommended by the schedule in this book.

# Overview

## Air System

- Drain moisture from vehicle air system daily.
- Listen for air leaks daily, repair promptly.
- If the vehicle is equipped with an air dryer, confirm that the air dryer system is working properly. Repair as necessary.
- Service the vehicle air compressor as required to prevent oil from entering the vehicle air system.

## Master Clutch System

- Lubricate clutch release pedal shaft bushings at every chassis lubrication interval. There should be one grease fitting on each side of the transmission clutch housing.
- Have the clutch checked and adjusted if any of the following occurs:
  - Clutch does not disengage completely
  - Clutch brake does not function
  - Clutch pedal free-play is less than 1/2".
- When replacing the clutch, use a high quality, spring-damped replacement unit.

## Drivetrain

- Inspect the driveshaft for loose or worn U-joints weekly. Repair promptly to prevent excessive driveline vibration.
- Have the driveline checked by a repair facility if unusual noise or vibration is detected.

## Overall Inspection

- Inspect the transmission at the chassis lubrication interval for loose or missing capscrews and fasteners. Pay particular attention to the capscrews that attach the transmission to the engine.

## Definitions for Top 2 Transmissions

Auto Position	When the shift lever is in the position labeled "AUTO". This position is where the Top 2 gears are located.
Break Torque	Releasing engine power or load from transmission and drivetrain.
Double-Clutch	The shifting technique used when moving the shift lever to the next lever position. Procedures: Depress clutch, move lever to neutral, let up clutch, accelerate or decelerate engine to obtain synchronous, depress clutch pedal again, and move lever into gear.
Splitter Selector	The button on the side of the shift knob used to change gears.
Synchronous	The point at which the input gearing speed (engine) matches output gearing speed (road speed) and a shift can occur without grinding.
Top 2 Mode	The state where the transmission automatically shifts between the top two gears.

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**Eaton Corporation**

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