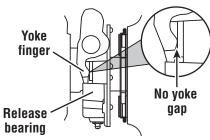
Set-up and Lubricate

Adjust Clutch Linkage

Hydraulic Linkages: Skip to Step 2.

Mechanical Linkages Only: Adjust the clutch linkage until the

voke fingers contact the release bearing (zero free-play in the cab)



- **2** Press the pedal to the floor up to 5 times, this:
 - Moves release bearing slightly closer to the transmission
 - Gains free-play in cab



• If the distance is - Release Finger Bearing 0

With the pedal up, measure the distance between the

release bearing and the clutch brake. The correct

Brake

distance should be 0.490" – .560" (12.70 –14.22 mm):

 If the distance is less than 0.490" (12.70 mm) consult Heavy-Duty Clutch Service Manual (CLSM0200).

more than 0.560"

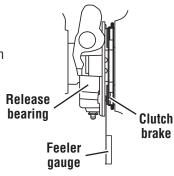
(14.22 mm) return to

Step 1 and readjust

the clutch linkage.

Verify Clutch Brake Squeeze

- 4 Have an assistant insert 0.010" (0.25 mm) feeler gauge between the release bearing and the clutch brake. Press the pedal down to clamp the gauge.
 - If the gauge does not clamp.return to **Step 1** and readjust the clutch linkage.

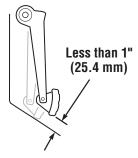


5 Slowly let up on the pedal and check the pedal position at the moment the gauge can be removed.

0.490"-0.560" —

(12.70-14.22 mm)

• If the pedal is more than 1" (25.4 mm) from the floor, readjust the truck linkage to move the voke fingers further from the release bearing. Return to Step 4.

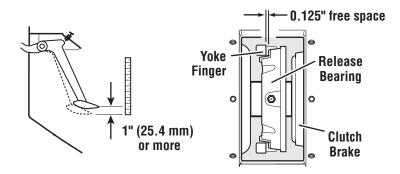


Verify Free-Play Mechanical Linkages Only

Hydraulic Linkages: Skip to Step 7

NOTICE: Do not reset the clutch.

6 Verify there is 1 inch or more clutch pedal free-play with 0.125" clearance between the release yoke finger and release bearing. If not, adjust clutch linkage per OEM instructions.



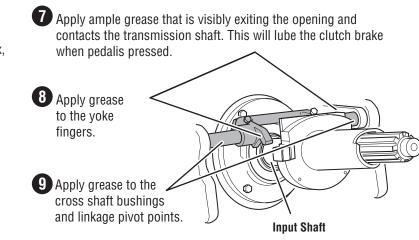
Lubricate

NOTICE: Eaton recommends the use of Roadranger EP2 for release bearing lubrication, or an equivalent Lithium Complex. NLGI #2 or #3 grease with a NLGI LB/GC performance rating and a dropping Point temperature of 220° C (428° F) or higher. Failure to use the proper grease may affect bearing life and void the warranty coverage on your Eaton product.

NOTICE: Do not add lube (never seize or grease) to the input shaft splines. The discs must be free to move.

Note: Refer to CLSM0200 for lube hose installation procedures used with hydraulic clutch release systems.

Note: Refer to TCMT0021 for additional lubrication information.



Installation Procedure

Eaton 15.5" Advantage Series Self-Adjusting Clutch CLMT1280 EN-US

October 2017



BACKED BY Roadranger SUPPORT

Eaton

Vehicle Group P.O. Box 4103 Kalamazoo, MI 49003 USA 800-826-HELP (4357) www.eaton.com/roadranger Copyright Eaton, 2017. Printed in USA

Note: Refer to CLSM0200 and CLSL1511



Measure

Measure Engine Flywheel Housing and Flywheel

Engine flywheel housing and flywheel must meet these specifications or it may result in premature clutch failure. Remove and replace old pilot bearing per engine manufacturer instructions. All gauge contact surfaces must be clean and dry. Clean flywheel surfaces of all grease, oil, and rust preventatives. Failure to perform this function can affect the performance of the clutch. Use a dial indicator and check the following:

Flywheel Face Runout

Secure dial indicator base to flywheel housing face

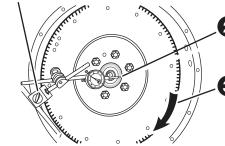


2 Put gage finger in contact with flywheel face near the outer edge.

3 Rotate flywheel one revolution. Max. runout is 0.008" (0.20 mm)

Pilot Bearing Bore Runout

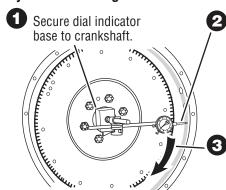
Secure dial indicator base to flywheel housing face.



2 Put gage finger contacting pilot bearing bore.

> Rotate flywheel one revolution. Max. runout is 0.005" (0.13 mm)

Flywheel Housing I.D. Runout



Put gauge finger against flywheel housing pilot I.D.

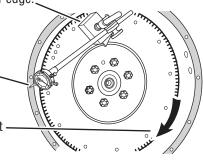
3 Rotate flywheel one revolution. Max. runout is 0.008" (0.20 mm)

Flywheel Housing Face Runout

Secure dial indicator base to flywheel near the outer edge

2 Put gage finger in contact with face of flywheel housing.

3 Rotate flywheel one revolution. Max. runout is 0.008" (0.20 mm)



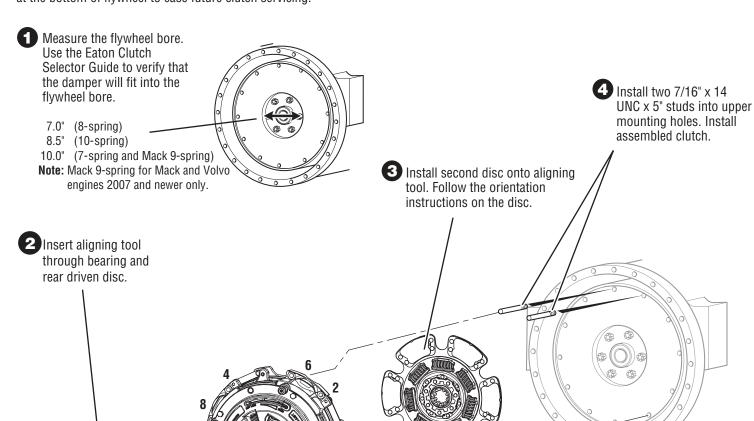
Install Clutch to Flywheel

NOTICE: Use the Eaton Clutch Selector Guide (CLSL1511) to make ensure you have the correct clutch.



WARNING: An assembled clutch weighs about 150 lbs (68 kg). Avoid the risk of injury. Use proper equipment when lifting a clutch.

Note: When installing clutch to flywheel, position the wear indicator at the bottom of flywheel to ease future clutch servicing.

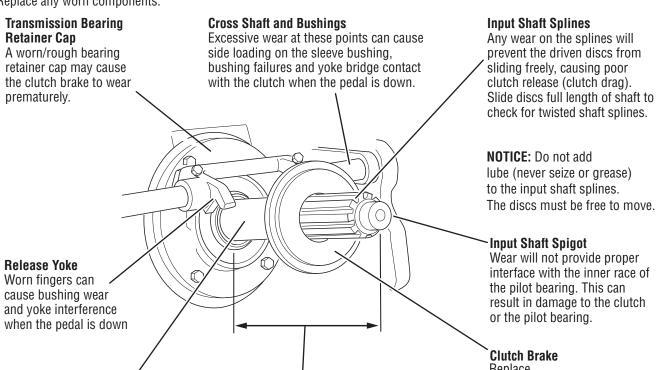


- 5 Install lock washers and mounting bolts (7/16" x 14 UNC x 2-1/4" grade 5) finger tight. Replace studs with lock washers and bolts.
- **6** Progressively tighten mounting bolts in a crisscross pattern starting with the lower left bolt (1, 2, 3, 4, 5, 6, 7, 8). Torque to 40-50 lb-ft (54-68 N•m). Failure to do this could result in improper piloting of the clutch and cause clutch damage.
- **7** Remove four yellow shipping bolts in a crisscross pattern.
- 8 Remove the aligning tool.

Install Transmission

Check Transmission for Wear

Replace any worn components.



interface with the inner race of

Replace.

Input Shaft

Wear (roughness) can reduce sleeve bushing life and cause it to come out.

Measure Input Shaft

Length should be 8.657" (219.89 mm) nominal and not greater than 8.71" (221.33 mm). Ref. 1990SAE handbook 4:36.106. Replace transmission bearing retainer cap if length is greater than 8.71" (221.33 mm).

Fasten Transmission to Flywheel Housing

