## 4b Set Up (No Clutch Brake)

Housing

### Set Bearing Position

For clutches with clutch brake. see 4a on previous page.

- With clutch pedal UP. measure distance between release bearing and housing.
  - The distance (A) must be:
  - One plate: 1.75" (44 mm)
  - Two plate: 0.75" (19 mm)



(Turning adjusting nut clockwise moves bearing toward transmission.)

### Verify Bearing Travel

**3** Measure distance between release bearing and housing with clutch pedal UP (A) and DOWN (B).

> The total release bearing travel distance (B minus A) for both one plate and two plate must be 0.500" to 0.562" (13 to 14 mm)

Bearing Housing

Release

Bearing

Release

ransmission

- If the bearing contacts the transmission before moving 0.500" to 0.562" (13 to 14 mm), slightly reduce the "A" dimension to allow more bearing pull.
- If the linkage does not move the bearing 0.500" (13 mm) or more, adjust the fork fingers slightly closer. The release bearing must move over 0.500" (13 mm) for the clutch to release.

**(5)** Measure clutch pedal free-play in cab.

Note: If distance is incorrect, your

Important: Do not reset clutch.

(25.4 to 76.2 mm).

linkage may be deficient.

The free-play distance should be 1" to 3"

## **Verify Free-Play and Lubricate**

### Verify Free-Play

If there is not at least 1" of free-play in the cab, the truck linkage does not have enough stroke capability. Do not replace the clutch. The linkage must be repaired or the pedal stroke increased.

### Lubricate

Important: Eaton recommends the use of Roadranger EP2 for release bearing lubrication, or an equivalent Lithium Complex, NLGI #2 or #3 grease with an 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.

Apply ample grease that visibly exits opening and contacts the transmission shaft. This will lube clutch brake when pedal is pressed.



B Grease release bearing

# Eaton Stamped Angle Spring Clutch **CIMT1707 FN-US**

May 2016



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, 2016. Printed in USA **Reference Materials** CLSM0200 and CLSL1310

### Measure

### Measure Engine Flywheel Housing and Flywheel

Engine flywheel housing and flywheel must meet these specifications or there will be premature clutch wear. Remove old Pilot Bearing. All gauge contact surfaces must be clean and dry. Use a dial indicator and check the following:

J.

**Flywheel Face Runout** Secure dial indicator base to flywheel housing face. Put gauge finger in contact with flywheel face near outer edge. Rotate flywheel one revolution. Maximum runout is 0.007" (0.18 mm)



Secure dial indicator base to flywheel housing face. Position gauge finger so that it contacts pilot bearing bore. Rotate flywheel one revolution. Maximum runout is 0.005" (0.13mm)





#### Flywheel Housing I.D. Rúnout Secure dial indicator base to crankshaft. Put gauge finger against flywheel housing pilot I.D. Rotate flywheel one revolution. Maximum runout is 0.008" (0.20 mm)



**Flywheel Housing Face** Runout Secure dial indicator base to flywheel near the outer edge. Put gauge finger in contact with face of flywheel housing. Rotate flywheel one revolution. Maximum runout is 0.008" (0.20 mm)



## 2 Install Clutch to Flywheel



**3** Install Transmission