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Subject: Updated Heavy-Duty Solo Clutch In-Vehicle Resetting Procedure

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Issue Description:

The Eaton Heavy-Duty Solo Clutch Technical Support Team worked with truck dealership technicians to identify confusion with the current published process of the product's In-Vehicle Resetting Procedure.

The In-Vehicle Resetting Procedure for Heavy-Duty Solo Clutch published in the Eaton Heavy-Duty Clutch Service Manual, *CLSM0200* (May 2012), has been reviewed. Changes to *CLSM0200* are scheduled for Q2 of 2013 and will include the procedure outlined in this bulletin. Technicians are encouraged to use this procedure if they need to reset an Eaton Heavy-Duty Solo Clutch.

Revised Process:

The following process should improve the resetting experience if there is a need to reset an Eaton Heavy-Duty Solo Clutch. If additional assistance is required with resetting, please contact the Roadranger Support Line at 1-800-826-HELP (4357) or your local Eaton Roadranger Service Representative.

Solo Advantage Self-Adjusting Clutches

- 5** Install (4) shipping bolts and progressively tighten until they bottom out.

⚠ Caution: Only use hand tools to tighten shipping bolts. Do not use air tools.

Rotate the engine to access all 4 bolts:

- 15 1/2" Solo use 7/16 x 14 UNC x 1 3/4"
- Stamped 14" Solo use 3/8 x 16 UNC x 1 1/4"

Note: This will reset the pressure plate separator sleeves and allow the clutch to release after installation.

- 6** Remove the (4) shipping bolts. The release bearing and sleeve will move forward towards the engine when the bolts are removed. The Solo is now in the new position.

Note: If the procedure was performed correctly, the gap between the release bearing and clutch brake should be about 0.750 inches.

- 7** With the free pedal removed push the clutch pedal down at least 5 times. Make sure the clutch release bearing contacts the clutch brake.

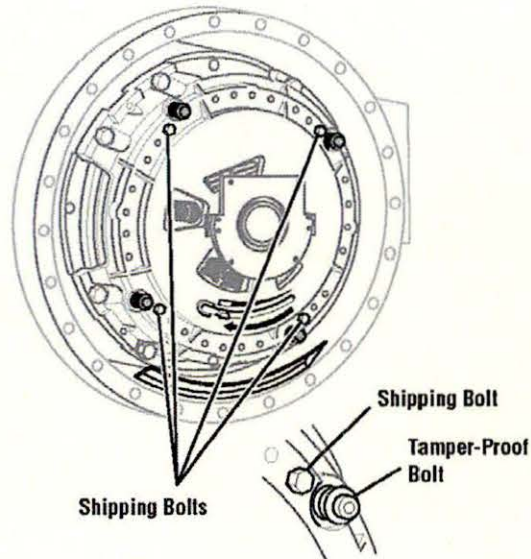
Note: For mechanical linkage, while engaging and releasing the clutch, the cab free pedal will increase. This indicates the Solo is adjusting to the environment.

Note: For hydraulic linkage, be sure to stroke the clutch pedal all the way to the floor, ensuring that the release bearing is being stroked far enough for the clutch to make an adjustment. With a hydraulic release system there will be no change in free pedal when the Solo clutch makes an adjustment.

- 8** Measure the distance between the clutch brake and the release bearing. It should be between 0.490" and 0.590".

- 9** If the release bearing travel is still greater than 0.590" between the clutch brake and the release bearing, repeat **Steps 7 and 8**.

- 10** For mechanical linkages, adjust the clutch linkage to achieve 1/8" clearance between the release yoke and the release bearing. Verify proper clutch brake squeeze.



Resetting

Solo Advantage Self-Adjusting Clutches

Verify Clutch Brake Squeeze

WARNING

Use a gauge long enough to keep hands away from moving parts.

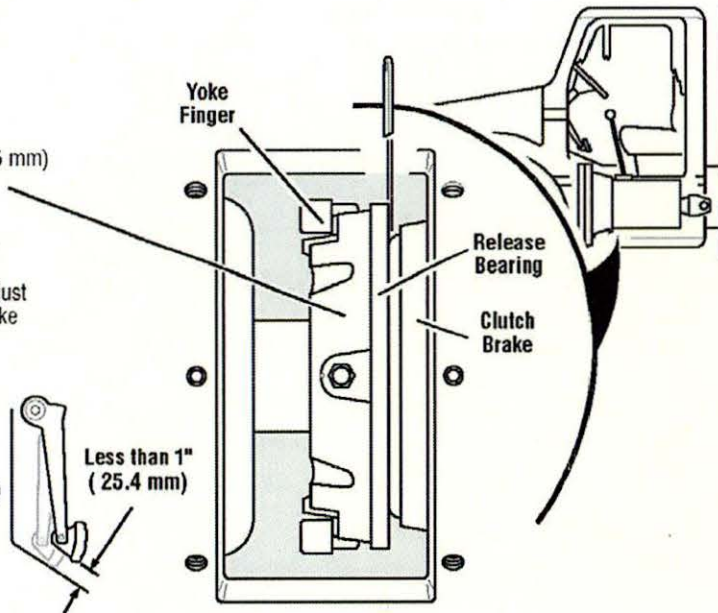
- 1 Have an assistant insert 0.010" (0.25 mm) feeler gauge between the release bearing and the clutch brake.

Press the pedal down to the floor to clamp the gauge:

- If the gauge does not clamp, readjust the truck linkage and move the yoke finger closer to the bearing.

- 2 Slowly let up on the pedal and measure the pedal position at the moment the gauge can be removed:

- If pedal is more than 1" (25.4 mm) from the floor, readjust the truck linkage to move the yoke fingers further from the release bearing. Repeat **Step 1**.



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