



Subject: 14" Solo Clutch Drag

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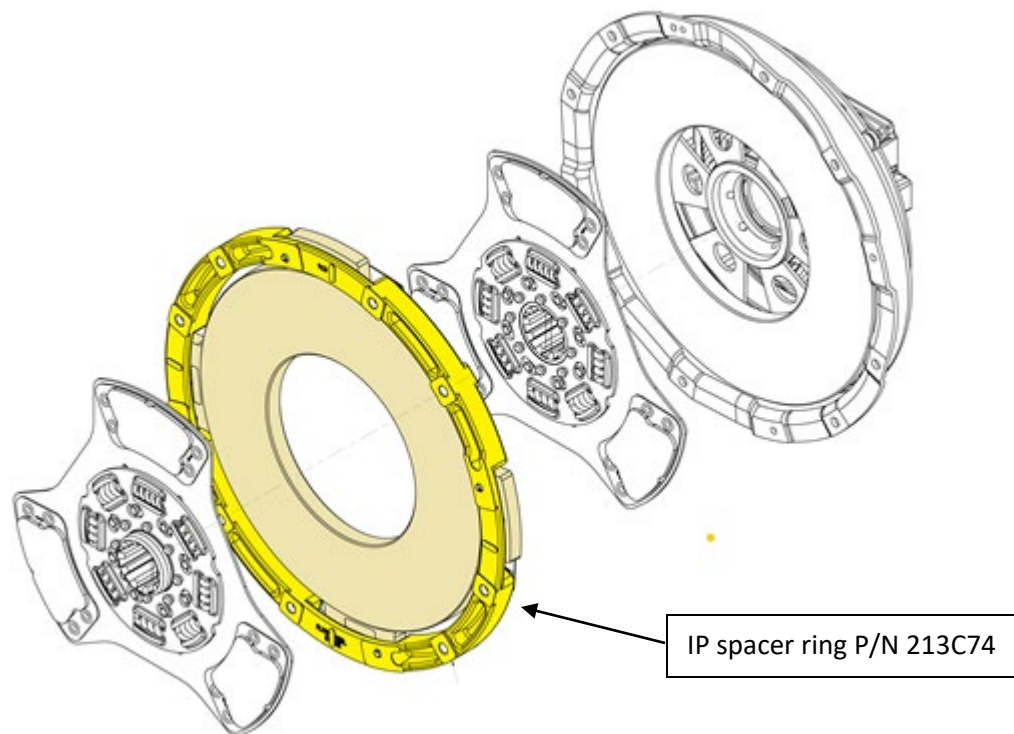
Updated: October 16, 2023

Issue Description:

- Difficulty getting into a forward and or reverse gear from a stop with the self-adjust Clutch Part # 109500-10 in FS/FSO Series medium duty transmissions.

Containment/Corrective Action:

- 109500-10 Clutches with IP spacer ring P/N 213C74 were incorrectly machined.
- Production plants contained on 9/30/2023 SL2309300001 and KM2306060001 thru KM2309300001.



Affected Models/Population:

- All 109500-10 clutches with the following serial numbers.
- Risk Window SL2306060001 thru SL2309290020.
- Risk Window KM2306060001 thru KM2309300001.

Field Strategy:

Overview:

- Evaluate if the transmission has difficulty getting into reverse gear from a stop.
- Rule out clutch linkage influence.
- Rule out clutch adjustment influence.

Procedure:

Caution: Ensure it is safe to start the vehicle. Keep parking brakes applied.

Please make note of the effort required to select each gear per below instructions.

- 1) Start engine and allow it to idle with transmission in neutral and clutch pedal up.
- 2) Fully depress the clutch pedal and count for 3 seconds.
- 3) Select the Reverse gear.
- 4) If the transmission experiences grinding / gear clash or chassis driveline torque reaction
 - a) If true, continue to step 5.
 - b) If false, procedure is complete.
- 5) Power truck down and inspect clutch linkage.
 - a) Check clutch linkage for proper adjustment, wear etc. per OEM guidelines.
 - b) Check clutch for proper adjustment, Inspect the distance between the clutch release bearing and the transmission front bearing cover, if measurement is .450" or below, reset the clutch, refer to **CLSM0100** for procedure.
 - c) If linkage is adjusted and working properly, continue to step 6.
 - d) If the linkage is not correct, correct as needed and restart the procedure.
- 6) If reverse gear selection is still difficult and the linkage is functioning per OEM specifications – Replace Clutch.
 - a) When replacing the clutch verify that the replacement clutch serial # is outside the risk window.
 - b) Record old clutch and new clutch for claim adjudication. – Attach pictures to claim.

Warranty Information:

Warranty Parts:

- 109500-10

Warranty Labor:

- OEM SRT for Clutch R&R.
- Attach pictures of the old and new clutch serial numbers.

Warranty Coverage:

- See Eaton Warranty Guide TCWY0900 for coverage.

The material contained in this bulletin is product improvement information. Eaton Corporation is not committed to, or liable for, canvassing existing products.

Keyword Index:

1. Grinding when going into gear / Won't go into gear.
2. Incorrect Machining IP Spacer.