



Powering Business Worldwide

Subject: Advantage Automated Series Endurant HD 430MM Clutch Cover Inspection – Fault Code 706

Service Bulletin: CLIB-0040

Date: April 2, 2024

Updated: April 8, 2024

Issue Description:

Guidelines to properly inspect 430MM clutch cover assembly when FC 706 has been recently logged either Active or Inactive in ServiceRanger Activity Report (SAR).

Containment/Corrective Action:

Follow Field Strategy below.

Affected Models/Population:

All 430MM Clutch Cover Assemblies for Endurant and PACCAR TX12 model transmissions.

Field Strategy:

The following Cover Assembly inspection process should be used when FC 706 has recently been logged either Active or Inactive in ServiceRanger Activity Report (SAR).

1. Upload SAR to Eaton
2. Ensure FC706 has been recently logged either Active or Inactive in ServiceRanger Activity Report (SAR).
3. Check for release bearing wearing diaphragm spring fingers - see example pictures below - go to Step 4.



4. Measure diaphragm spring finger for wear using digital pointed micrometer.
 - a. Measure clutch fingers based on images below:

Worn: <3mm (do not reuse)

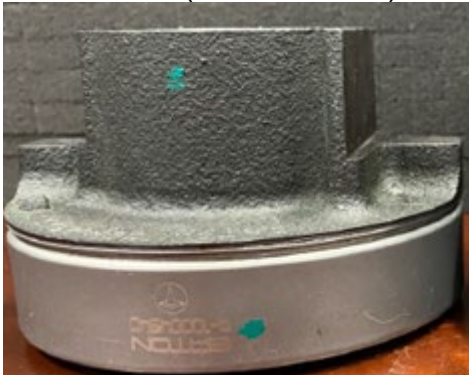


Acceptable: 3mm or > (reuse)



- b. Does diaphragm spring finger meet thickness measurement criteria of 3mm or greater?
 - i. If yes, continue to step 5.
 - ii. If no, reference TAIB-0889 for further troubleshooting and replace clutch.
5. Measure diaphragm spring finger heights using digital Vernier Caliper:
(Reference TRSM0950 – Clutch Section)
 - a. Does diaphragm spring finger meet height measurement criteria of maximum 24mm?
 - i. If Yes, Reference TAIB-0889 for further troubleshooting.
 - ii. If No, Continue to Step 6.
6. Check for correct release bearing being used. Reference TRSM0950 (Service Parts and Kits section) for correct release bearing application.

ISO Fitment (Metallic Color)



SAE Fitment (Gold Color)



- a. Is correct release bearing installed?
 - i. If yes, contact Roadranger Call Center for assistance at 800-826-4357.
 - ii. If no, replace with correct release bearing.
7. After reassembly remove Linear Clutch Actuator (LCA) and reset to locked position. Clutch position will automatically calibrate after “Key On” cycle.
8. Road Test
9. Verify FC 706 is not active.
 - a. If FC 706 becomes active contact Roadranger Call Center for assistance at 800-826-4357.
10. Repair Complete.

Warranty Information:

Criteria for warranty:

- Finger thickness within spec. with FC 706
AND
- Finger heights within spec. with FC 706
AND
- Incorrect Release bearing Provided by Eaton & Installed with FC 706 (Does not include improper installation at the service center).
OR
- As advised by escalation to Eaton Tech Service.

Claim Evidence:

- Pictures of worn components
- Pictures of measurements using digital readout tools.
- ServiceRanger Service Activity Report (SAR) with FC 706.

Claim Inclusion: (If Warrantable)

- If installed original clutch is still within OEM Warranty, a claim must be filed through the OEM.
- All clutch parts must be returned to Eaton Warranty Return Center (Anderson, IN.) “Collect” by LTL Carrier listed per TMIB0129. Follow packaging instructions per TCWY0600.

Warranty Parts: (If Warrantable)

- K-4488CL Clutch Service Kit (PACCAR X15 / PACCAR MX / Navistar X15 & A26 w/260mm Flywheel Bore Opening)
- K-4494CL Clutch Serviced Kit (DTNA/Volvo w/Cummins X15 260mm Flywheel Bore)
- K-4496CL Clutch Service Kit (DTNA w/Detroit Diesel Engines w/290mm Flywheel Bore)
- K-4512CL (Cummins CNG Engines)

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- K-4514CL (PACCAR MX Engines w/290MM Flywheel Bore)
- A-10004341 Release Bearing (SAE)
- A-10004340 Release Bearing (ISO)

Warranty Labor: (If Warrantable)

- Diagnostics: (1.0 hour)
- Clutch R&R – Includes transmission R&R: (OEM SRTs)
- Calibrate Clutch: (.5 hour)
- Road Test: (.5 hour)

Warranty Coverage:

OEM published coverage or extended coverage with Eaton

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Change Log

Date	Description
4-2-2024	Creation of Service Bulletin