



Subject: Improved Sliding Clutches for “Hard Shift” Complaint

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Updated: April 1, 2013

Issue Description:

Newly designed main shaft sliding clutches are being released to improve shift quality in the RT and FR model products. The sliding clutches have an increased backlash to allow the operator an increased synchronous window. The sliding clutch part numbers have changed but all main shaft gearing part numbers will remain the same.

Affected Models/Population:

The new sliding clutch design was put into production on the following models:

September 29, 2009

- RTOC/FC-16909A
- RTLOC/FC-16909A-T2
- RTLOC/FC-18909A-T2
- RTOCM/FCM-16909A
- RTOC/FC-18909A

October 25, 2010

- RT/F-8908LL
- RTO/F-11908LL
- RTO/F-14908LL
- RTO/F-16908L

January 9, 2012

- RTX/F-11609B
- RTX/F-16709B
- RTO/F-14915
- RTX/F-12609B
- RTO/F-11909ALL
- RTO/F-16915
- RTX/F-13609B
- RTO/F-14909ALL
- RTX/F-14609B
- RTO/F-16909ALL

January 18, 2013

- FR/F-9210B
- FRO/F-11210B
- FRO/F-11210C
- FR/F-11210B
- FRO/F-12210B
- FRO/F-12210C
- FR/F-12210B
- FRO/F-13210B

January 18, 2013 (Continued)

- FRO/F-13210C
- FR/F-13210B
- FRO/F-14210B
- FRO/F-14210C
- FR/F-14210B
- FRO/F-15210B
- FRO/F-15210C
- FR/F-15210B
- FRO/F-16210B
- FRO/F-16210C
- FRM/F-15210B
- FRO/F-17210C
- FRW/F-15210B
- FRO/F-18210C

Containment/Corrective Action:

Replace the old main shaft sliding clutches with the new sliding clutches listed below. Sliding clutch replacement will be necessary only in the position in which the “hard shifting” occurs. It is not necessary to change the sliding clutches in all positions.

RTO Models

Quantity	Old Part Number	New Part Number	Clutch Position
1	4304317	4306647	Front
2	16118	4306648	Rear / Middle

RT Models

Quantity	Old Part Number	New Part Number	Clutch Position
3	16118	4306648	ALL

FRO / FR Models

Quantity	Old Part Number	New Part Number	Clutch Position
1	4304014	4306649	Front
2	4302265	4306650	Rear / Middle

Warranty Information:

Worn sliding clutch and mating gear teeth is caused by raking shifts and is not considered a warrantable product defect.

A “hard shifting” complaint must be confirmed by an Eaton Territory Service Manager (TSM) for a sliding clutch replacement repair to be covered under warranty.

Warranty Parts:

- 4306647 (1) RTO
- 4306648 (3) RT
- Gaskets, bearings and snap rings damaged upon removal

Warranty Labor:

- Transmission R&R per OEM guideline
- Mainshaft overhaul per OEM guideline (bench labor of 4 hours)

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