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**Bulletin Type:**

- ☒ Service Procedures
- ☐ Parts Information
- ☐ Warranty Info.

**Product Line:**

- ☐ Axle
- ☐ Brake
- ☐ Clutch
- ☒ Transmission
- ☐ AfterMarket
- ☐ Speciality

**Topic:****Shift Tower O-rings**

The shift tower O-ring used in Eaton® Fuller® transmissions is color coded to distinguish it from other O-rings that can deteriorate over a period of time. The O-ring color used in Fuller transmissions is blue. The non-approved O-ring is black.

Lever entrapment can be caused when the black O-ring deteriorates to a point where the shift lever finger is allowed to come out of the shift blocks. With the shift finger outside the shift blocks the lever will move around, however, the driver is unable to shift. The transmission will stay in whatever gear was chosen previous to the lever coming out of the shift blocks.

To correct this problem, remove the shift tower from the transmission, remove and discard the black O-ring, insert a new blue O-ring and re-install the tower. The part number of the blue O-ring is 4301211. If the new O-ring you receive is black, return it to your supplier and insist on the blue colored O-ring. The black O-ring part number is 17162 and is sometimes packaged under the wrong part number.

Excessive heat to the shift tower area can damage either colored O-ring. If the exhaust pipe is routed too close to the shift tower or if using a torch to bend the lever, the O-ring can soften and sometimes melt allowing excessive movement in the shift tower.

