

**** SOLUTION ****

Title	Mack Chassis - Equipped With An I-Shift Transmission - Vehicle Jerks When Accelerating From A Stop In Drive Or Reverse; Transmission Bucking, Slipping When Taking Off From A Stop
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Mack Models

Mack Model	AN - Anthem , CHU - Pinnacle, Axle back , CXU - Pinnacle, Axle front , GR - Granite , GU - Granite , PI - Pinnacle , TD - Titan
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Engine family

Engine family	MP7 , MP8 , MP10
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Transmission

Transmission	AMT-F With Crawler Gears , AMT-F Without Crawler Gears , AMT-C , AMT-D , AMT-F
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**** SOLUTION ****

Cause	For vehicles equipped with an AMT, the transmission may buck, slip, or jerk when taking off from a stop in reverse or drive. This may be caused by brake switch adjustment, input shaft play, or possible clutch control actuator issues.
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Solution**For vehicles exhibiting the symptoms above:****1. Check brake switch calibration.**

- 1.1.** Connect a pressure gauge (verified to be reading properly) to a service brake chamber using a tee fitting
- 1.2.** In Premium Tech Tool (PTT), navigate to the Test tab and run operation [3845-08-03-01 Brake Contacts](#).
- 1.3.** Slowly depress the service brake pedal until the icon for the Brake pedal switch illuminates on the test screen.
- 1.4.** Record the pressure shown on the gauge at the time the icon turns on.
- 1.5.** Repeat steps 1.3 and 1.4 for the Brake pressure switch.
- 1.6.** Compare the two readings with the switch specifications.
 - **Specification:** Between 2-6 psi ascending pressure.

2. Proceed per findings

- **If one or both switches are out of specification:** Replace the sensor or sensors that are out of range. Retest operation.

- **If both switches are within specification:** Proceed to Step 3.

3. If no issues are identified from the Brake Contacts test:

- **If the symptoms are occurring when moving forward:** Review the DTC Readout for any applicable fault codes and proceed with their diagnosis.

- **If there are no associated fault codes:** Refer to solution [K63231010](#) for Clutch Control Actuator inspection.

- **If the symptoms are occurring when in reverse:** Refer to Solution [K10216390](#) for inspection instructions for the input shaft and spigot bearing.

NA_Sister solutions	K14409753 , K10216390 , K63231010
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Solution visibility	Dealer distribution
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Function(s)/component(s) affected

Function affected	engagement , Reverse , Input Shaft
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Function Group

Function Group	431 gearbox, manual
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Customer effect

Main customer effect	stop/start , judder , slipping
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Conditions

Vehicle operating mode	when activating , acceleration , in reverse , during disengagement , during engagement
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Gear ratio	Forward , reverse gear
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Administration

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