

# Solution K66500719 Monday, June 3, 2019 5:54:32 PM CEST

# \*\* SOLUTION \*\*

Title	Automated Manual Transmission (AMT) Clutch Failures At Service Replacement; New
	Clutch Found To Be Damaged When Unboxed Or Fails Soon After Replacement
Mack Models	
Mack Model	AN - Anthem, CHU - Pinnacle, Axle back, CXU - Pinnacle, Axle front, GR - Granite
	, GU - Granite, PI - Pinnacle
Volvo Models	
Volvo Model	VNL, VNM, VNR, VNX, VAH, VHD
<b>Emission Standar</b>	d
Emission Standard	US17, US17+OBD16, US17+OBD18
Engine family	
Engine family	11L Engine, 13L Engine, MP7, MP8
Transmission	
Transmission	AMT-F With Crawler Gears, AMT-F Without Crawler Gears, AMT-C, AMT-D, A
	MT-F, AMT-C, AMT-D, AMT-F With Crawler Gears, AMT-F Without Crawler
	Gears
** SOLUTION **	
Cause	A new clutch that is replaced in the aftermarket may be found damaged when removed from
	packaging, or experience failure shortly after installation. This situation is likely to occur
	before the vehicle leaves the shop or during the first test drive after replacement. It has been
	determined that this issue arises due to damage that occurs during shipping and handling of the
	new part. Damage of this nature normally occurs to the tabs shown in the photo below:



Note: This issue has not been seen in vehicles new from the factory. If a clutch is found failed in a new vehicle, normal repair procedure should be followed.

S	Prior to Installation
0	
1	• The box should be inspected for damage before opening and if damage is found the clutch should be inspected to
u	make sure the tabs shown in the picture above are not cracked or broken from shipping and handling.
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• When inspecting the clutch, if the tabs are aligned in the box along the box sides they are more likely to get dama in shipping and handling. If they are aligned in the corners of the box as shown below they are less likely to be damaged.



• Clutches should always be stored flat on the shipping pallet and never on edge. Damage to the clutch may result from the on edge storage.



Correct

Incorrect

### If the exposed tabs are found to be broken/cracked

1. A parts claim should be filed with the PDC for a damaged component.

#### 2. If this issue is encountered pre-installation <u>only</u>:

- 2.1. Take <u>clear</u> pictures of the broken tab as it was found when the packaging was opened.
- **2.2.** Open an eService case. The case should include:
  - A description of the problem as it is found. Be sure to specify that the part was broken out of the box.

- Acceptable Description Example: "Vehicle was brought in for clutch replacement. New clutch was found to damaged when box was opened."

- Unacceptable Description Example: "Clutch broke"
- The pictures of the damage.

### 3. If the part is installed and <u>then</u> found to be bad:

• The warranty claim filed must be a parts warranty claim due to the labor involved with the job.

• An eservice case is <u>not</u> required.		s <u>not</u> required.
_	Internal comments (BO)	Jeff Grainger investigating. 12/4/18
	Solution visibility	Dealer distribution
Function(s)/component(s) affected		(s) affected

## An eService case is not required

Function affected	Clutch
Function Group	
Function Group	411 mechanical clutch
Customer effect	
Main customer effect	noise, visual appearance
Noise	rattling noise, grinding, knock, rubbing noise
Road behaviour	driveability
Visual appearance	crack/fracture
Conditions	
Vehicle operating mode	on start-up, when driving
Frequency of occurrence of problem	random
Other conditions	after a workshop procedure on the vehicle
Administration	
Author	UT9268H
Dealer ID	UT9268H
Last modified by	RU4469V
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