



Mack Models

Mack Model	AN-Anthem , CHU , CXU , GU
Engine family	
Engine family	MP7 , MP8
Emission Standard	
Emission Standard	2018 , OBD2017 , US17 GHG
** SOLUTION **	

Title	Mack Chassis - Equipped With An Automated Manual Transmission Model F (AMT-F, mDrive) With Crawler Gears - Setting The Maximum Gear That Can Be (Temporarily) Selected For Starting From Stop In Automatic And Manual Modes; New Parameters For Maximum Adjustable Gear In Automatic And Manual Modes; US17+OBD16 And Newer Emissions, Commonly Model Year 2018 And Newer
Cause	Existing parameters for gear adjustment did not accomodate gearboxes equipped with crawler gears. This functionality was added in a recent Software Update.

Solution

The adjustment of the parameters below do not affect the default start gear. Changing the parameters will change the highest gear a driver can manually shift to using the gear selector for pulling off from a stop when under different load and surface conditions. The selected gear will return to default if the transmission shifts into high range or the key is cycled.

These parameters will be introduced with the AMT-F software update, available after 25 June 2018. The new software part number will be 23344747.

The parameters for maximum selectable gear in automatic and manual modes is dependent on the model of the transmisson. Refer to the chart below for the correct parameters and values for each model.

Gearbox	Number of Forward Gears	Available Parameters		Possible Parameter Values	
		Parameter	Shift Mode Affected	Gear	Value
AMT-F Without Crawler	12	PILCM	Automatic	1	1
				2	2
				3	3
		PILCL	Manual	4	4
				5	5

				6	6
AMT-F Crawler, Overdrive	13	PIRQB	Automatic	Crawler	14
				1	1
				2	2
		PIRQC	Manual	3	3
				4	4
				5	5
				6	6
AMT-F Ultra Low Crawler	14	PIRP9	Automatic	Crawler C1	13
				Crawler C2	14
				1	1
				2	2
		PIRQA	Manual	3	3
				4	4
				5	5
				6	6

Solution visibility **Dealer distribution**

Function(s)/component(s) affected

Function affected AMT , automatic transmission , 3 1 0 TECU , Diagnostic tool

Function Group

Function Group 43 gearbox

Customer effect

Main customer effect calibration/programming/pairing/missing operation , diagnostics/methodology

Road behaviour driveability

Conditions

Vehicle operating mode stationary speed , acceleration , when stationary

Frequency of occurrence of problem always

Gear ratio upshifting

Administration

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Creation date	08-06-2018 22:06
Date of last update	14-06-2018 20:06
Review date	01-02-2019 00:02
Status	Published
NA_Reviewer	ut9268h
NA_Author_Group	GTT