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Major System: ENGINES **Created:** 8/24/2017
Current Language: English **Last Modified:** 9/15/2017
Other Languages: NONE **Author:** William Katschke
Viewed: 225

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Coding Information

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Title: Hard To Shift At Low Speed - A26

Applies To: LT and RH models A26 Engine with Standard Transmissions and PTP (Power Train Protection) Enabled

CHANGE LOG

Please refer to the change log text box below for recent changes to this article:

09/15/2017 - Made several revisions
 08/25/2017 - Added that this applies to units with 77220 "PTP Enable" set to "Enable"
 08/25/2017 - Initial Article Release

DESCRIPTION

This document will guide the user through applying template through NEDs in order to resolve Hard To Shift At Low Speed complaint.

NOTE:

This article **ONLY** applies to units with A26 engines and complaint of Hard Shifting at Low Speeds

SYMPTOM(s)

Unit is hard to shift at slow speeds when using the clutch - shifts fine if the clutch is not used.

DTC/Light	Description
N/A	N/A

Customer Observations or Concerns:
Hard to shift at slow speeds


SPECIAL TOOL(s) / SOFTWARE

Tool Description	Tool Number	Comments	Instructions
N/A	N/A	N/A	N/A


SERVICE PARTS INFORMATION

Kit Description	Part Number	Quantity Required	Notes
N/A	N/A	N/A	N/A

DIAGNOSTIC STEP(S)

 **WARNING:**


To prevent property damage, personal injury and/or death, park vehicle on a hard, flat surface, turn the engine off, set the parking brake, and install wheel chocks to prevent the vehicle from moving in either direction.

 **WARNING:**


To prevent property damage, personal injury and/or death, if the vehicle must be raised, do not work under the vehicle supported only by jacks. Jacks can slip or fall over.

 **WARNING:**

To prevent personal injury and/or death, always wear safe eye protection when performing vehicle maintenance.

 **WARNING:**

To prevent property damage, personal injury and/or death, keep flames or sparks away from vehicle and do not smoke while servicing the vehicle's batteries. Batteries expel explosive gases.

 **WARNING:**

To prevent property damage, personal injury and/or death, remove the ground cable from the negative terminal of the battery box before disconnecting any electrical components. Always connect the ground cable last.

Step	Action	Decision
1	Are there any fault codes present?	Yes. Follow FCAPs for current faults
		No. Proceed to Repair Steps

REPAIR STEP(s)

1. Check setting for parameter 77221 "PTP Enable".
2. If parameter **77221 "PTP Enable" is set to "Enable"** use template below to program parameter ID 77900 to 800, and set 77910 to 2 kph (or 1 mph) as shown in the figure below.

- [Hard to Shift Template](#)

Link to NEDs User's Guide: [4328482R1](#)

COM Link - De-Activate

Transmission Setup Engine Warn Protection System Road Speed Limiting/Cruise Control AESC Geardown Protection Speedo, Tire, Axle Setup Progressive Shift Eng
Idle Shutdown Timer Engine Fan Powertrain Protection Momentary Road Speed Limiting Multi-Torque Customer Password Service Interval Feature

Instructions

Reference Document

iKNow Article:
IK1200548

Parameters

Undo All Changes... Program Engine... Only Show Watched

ID	Name	Value	Units	Undo
77123	PTP Zero Vehicle Speed Maximum Torque		lb-ft	
77132	PTP Low Gear Range Maximum Torque	353.3	lb-ft	
77171	PTP Gear Group Torque Limit Enable	Enable		
77182	PTP Highest Gear NUMBER of Low Gear Range - AUTO	-28		
77221	PTP Engine Speed Limit PTP Enable	Enable		Undo
77342	PTP Maximum Vehicle Speed for Low Gear Torque Limiting	9.74	mph	
77450	PTP Highest Gear RATIO of Low Gear Range - MANUAL	3.12		
77460	PTP Highest Gear RATIO of Intermediate Gear Range - MANUAL	10.49		
77470	PTP Highest Gear RATIO of High Gear Range - MANUAL	12.46		
77481	PTP Highest Gear NUMBER of Intermediate Gear Range - AUTO	11		
77491	PTP Highest Gear NUMBER of High Gear Range - AUTO	3		
77502	PTP Intermediate Gear Range Maximum Torque	34.3	lb-ft	
77512	PTP High Gear Range Maximum Torque	90.7	lb-ft	
77900	PTP Powertrain Protection Engine Speed Limit	800	RPM	Undo
77910	PTP Powertrain Protection Vehicle Speed Threshold	1.00	mph	Undo

(Disable (0), Enable (1))

WARRANTY INFORMATION

Warranty Claim Coding:

Group:	12000
Noun:	716

Warranty Claim Coding:

Refer to the [Warranty Coding Manual](#) for Group and Noun Codes.

Standard Repair Time(s):

Refer to the [SRT Manual](#) for Repair Times

OTHER RESOURCES

[Master Service Information Site](#)

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