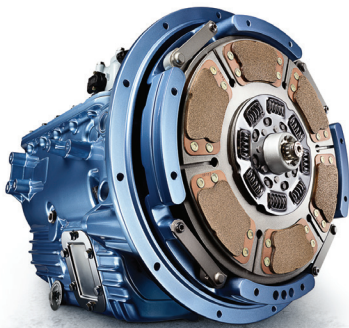


Delivers up to 19 Percent Better Fuel Economy* and Lower Operating Costs vs. a Conventional Automatic

Models:

- FO-5406B-DM3
- FO-5506B-DM3
- FO-6406B-DM3
- FO-6506B-DM3
- F-5405B-DM3
- F-5505B-DM3
- F-6405B-DM3
- F-6505B-DM3



Instead of choosing between the fuel economy of a manual or the simple operation of an automated transmission, Eaton offers you the best of both worlds: the UltraShift, a fully automated manual transmission (AMT).

More Go. Less Guzzle.

For many medium-duty truck owners, shifting to a conventional automatic transmission also means increased fuel consumption. Not so with the UltraShift. The genius of its patented design is that it delivers fuel efficiency almost immediately – unlike traditional automatics, which can waste fuel until the torque converter “lock-up” occurs.

Reduce Cost of Ownership

When it comes to the UltraShift saving time and money, increased fuel efficiency is just the beginning. Its lower long-term ownership costs compared to automatic transmissions play a big part, too.

The transmission comes factory-filled with a full synthetic lubricant, which requires no changes of lube for 500,000 miles. No scheduled maintenance required leads to more time on the road and more money for your bottom line.

Conventional automatics require frequent filter and lube changes, ranging anywhere from every 150,000 to as often as 12,000 miles.

Significant Fuel Savings

Depending on your application, the UltraShift HV could save you up to \$2,379 per truck, per year. With no scheduled maintenance for 500,000 miles, and up to 19 percent better fuel economy* vs. a conventional automatic, it's clear that UltraShift is “automatically the best.”

**Results are based upon tests conducted by an independent firm in accordance with SAE J1526 “Joint TMC/SAE Fuel Consumption In-Service Test Procedure, Type III.” Assumes 30K miles per year in an urban setting, with fuel prices at \$4.30/gallon. Your results may vary.*

Technical Features

- Hill-Assist feature automatically minimizes rollback and roll-forward on grades from 3 to 10 percent
- Easy to operate with simple automated two-pedal design
- Park Pawl park position locks the transmission ensuring the vehicle wheels will not turn

We're Thinking Green

UltraShift is the more sustainable choice for transmissions:

- Improved fuel economy
- Replacement is less frequent due to longer product life cycle
- No scheduled maintenance results in less waste in discarded filters and used oil
- Reduced mineral oil use with synthetic lube

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An Eaton Green Solution

UltraShift® HV Automated Transmissions

Model	Park Pawl	Lb-Ft Max Torque [Nm]	Extended C/S PTO Provision	Trans. Oil Cap. Pints [ltr]	Length Inches [mm]	Weight Lbs. [kg]	PTO Speed (% of Engine)
UltraShift HV 6 Speed							
FO-5406B-DM3		620 [840]	STD	20.75 [10]	25.6 [650]	391 [177]	67
FO-6406B-DM3		660 [895]					
FO-5506B-DM3*	Yes	620 [840]					
FO-6506B-DM3*	Yes	660 [895]					
UltraShift HV 5 Speed							
F-5405B-DM3		620 [840]	STD	20.75 [10]	25.6 [650]	391 [177]	67
F-6405B-DM3		660 [895]					
F-5505B-DM3**	Yes	620 [840]					
F-6505B-DM3**	Yes	660 [895]					

* The park pawl feature is rated at 33,000 lbs. maximum on these models.
 ** The park pawl feature is rated at 26,000 lbs. maximum on these models.

Specifications:

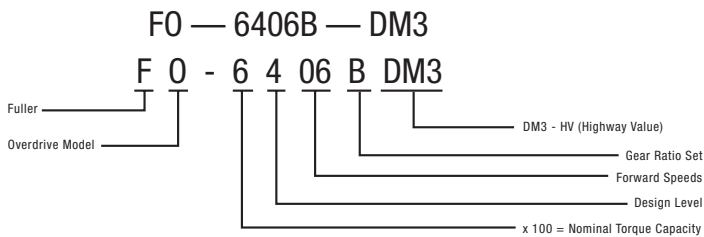
PTO Openings:

Right, 6-bolt PTO standard. Rear, extended countershaft PTO standard.

Right side operates off 5th speed countershaft gear. 48-tooth gear, 7.00 pitch, 26° Helix Angle, 23° Pressure Angle. Right and extended countershaft gears turn at .667 of engine speed.

The HV is equipped with a standard PTO opening at no additional cost. This can mean extra money in your customer's pocket while offering greater application flexibility.

Nomenclature:



Ratios and Steps:

GEAR	RATIO	% STEP
6th	.78	28
5th	1.00	59
4th	1.59	58
3rd	2.52	64
2nd	4.13	59
1st	6.55	
Reverse	6.27	
Overall	8.39	

Standard UltraShift HV Top View of Shift Console:



R - Reverse
 N - Neutral
 D - Drive - Automatic Gear Selection
 Manual - Manual Gear Selection
 Low

Hand shifters are also available. Availability and position of shift controls may vary. Contact OEM dealer for details.

UltraShift HV with Park Pawl



Note: Features and specifications listed in this document are subject to change without notice and represent the maximum capabilities of the software and products with all options installed. Although every attempt has been made to ensure the accuracy of information contained within, Eaton makes no representation about the completeness, correctness or accuracy and assumes no responsibility for any errors or omissions. Features and functionality may vary depending on selected options.

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Roadranger: Eaton and trusted partners providing the best products and services in the industry, ensuring more time on the road.

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