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Superior startability, gradeability and low-speed maneuverability.

Proven reliability and durability of Eaton® Fuller® 13- and 18-speed transmissions.

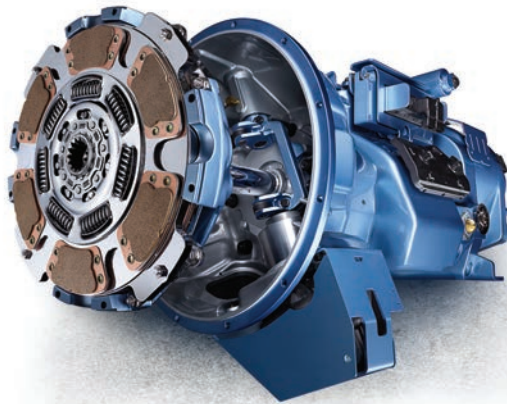
Platforms:

- Multipurpose High Performance (MHP)
- Multipurpose Extreme Performance (MXP)

No other fully automated transmission offers the fuel economy AND serviceability of UltraShift PLUS. Built upon the robust Fuller 13- and 18-speed manual transmissions, the UltraShift PLUS Performance Series uses an electronic clutch actuator to provide faster shifting and smoother engagement. Intelligent shift selection software uses changes in grade, weight and throttle to calculate the most efficient and effective shift points. The UltraShift PLUS fully engages the clutch at idle, giving the driver ultimate control in challenging situations.

Technical Features

- Fully automated two-pedal design (no clutch pedal)
- Electronic Clutch Actuator (ECA) provides smooth engagement
- On/Off-highway performance design
- Safety features include auto neutral and Intelligent Hill Start Aid, which prevents roll-back and roll-forward while launching on grades using foundation wheel brakes
- Automatic, Manual and Low modes offer driver full control
- Creep Mode
- Paired to the highest torque engines available today with torque capacities ranging from 1450 lb-ft (1966 Nm) through 2250 lb-ft (3050 Nm)
- World class startability and ratio coverage
- Unlimited gross combination weight in 18-speed models



The Downside of Alternative Transmissions:

Cost and performance

European Automated Manuals		Torque Converter Automatics
<p>Expensive maintenance</p> <ul style="list-style-type: none"> • Organic clutch replacement costs • Organic clutch durability/life • Limited service network 	<p>COST</p>	<p>Inefficient design, waste fuel</p> <ul style="list-style-type: none"> • Expensive maintenance - More oil changes - Shorter brake life - Other drivetrain damage • Limited service network • Higher initial cost
<p>Lack overall ratio</p> <ul style="list-style-type: none"> • Organic clutch is less tolerant of heat and is often compromised at heavy weights • Limited engine options available 	<p>PERFORMANCE</p>	<p>Low speed handling</p> <ul style="list-style-type: none"> • Urge to move • Less control on grade/slopes – tendency to “freewheel” • Tendency to overheat in certain conditions



Powering Business Worldwide

UltraShift® PLUS Performance Automated Transmissions

Total System Installed Specifications (Dry)

SPECIFICATIONS	CAPACITY	WEIGHT*	LENGTH**	SPEEDS
FO-14E313A-MHP	1450 lbs. ft. [1966 Nm]	978 lbs. [444 kg]	40.61 in. [1031.49 mm]	13 forward, 3 reverse
FO-16E313A-MHP	1650 lbs. ft. [2237 Nm]	978 lbs. [444 kg]	40.61 in. [1031.49 mm]	13 forward, 3 reverse
FO-18E313A-MHP	1850 lbs. ft. [2508 Nm]	978 lbs. [444 kg]	40.61 in. [1031.49 mm]	13 forward, 3 reverse
FO-20E313A-MHP	2050 lbs. ft. [2779 Nm]	978 lbs. [444 kg]	40.61 in. [1031.49 mm]	13 forward, 3 reverse
FO-14E318B-MXP	1450 lbs. ft. [1966 Nm]	978 lbs. [444 kg]	40.61 in. [1031.49 mm]	18 forward, 4 reverse
FO-16E318B-MXP	1650 lbs. ft. [2237 Nm]	978 lbs. [444 kg]	40.61 in. [1031.49 mm]	18 forward, 4 reverse
FO-18E318B-MXP	1850 lbs. ft. [2508 Nm]	978 lbs. [444 kg]	40.61 in. [1031.49 mm]	18 forward, 4 reverse
FO-20E318B-MXP	2050 lbs. ft. [2779 Nm]	978 lbs. [444 kg]	40.61 in. [1031.49 mm]	18 forward, 4 reverse
FO-22E318B-MXP	2250 lbs. ft. [3051 Nm]	978 lbs. [444 kg]	40.61 in. [1031.49 mm]	18 forward, 4 reverse

* Dry weight, including clutch ** Standard install length

Ratios and Steps

Model	Reverse				Overall Ratio	Forward Gears																	
	R4	R3	R2	R1		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
MHP		4.03	12.85	15.06	16.84	12.29	8.51	6.05	4.38	3.20	2.28	1.94	1.62	1.38	1.17	1.00	0.86	0.73					
					% Step	44	41	38	37	40	18	20	17	18	17	16	18						
MXP	3.43	4.03	12.85	15.06	19.73	14.40	12.29	8.51	7.26	6.05	5.16	4.38	3.74	3.20	2.73	2.28	1.94	1.62	1.38	1.17	1.00	0.86	0.73
					% Step	17	44	17	20	17	18	17	17	17	20	18	20	17	18	17	16	18	

Heavy-Duty Model Family	Linehaul	Heavy Haul	Logging	Mining	Oil Field	Construction	City Delivery	Refuse	Agricultural	Off Highway
UltraShift PLUS MHP										
UltraShift PLUS MXP										

Shading indicates approved vocations. All automated transmissions must have Eaton engine certification.

Driver Interface Simple and Intuitive

- Manual override available
- Low mode
- Button shifting in drive, reverse, manual and low modes

Driveline Protection Features

- Stall prevention
- Engine Overspeed Protection
- Clutch Abuse Protection
- Auto gear select
- Hill Start Aid

Supported by the Roadranger Network

- OEM dealer, fleet familiarity
- Parts and service widely available
- Does not require service by a dedicated service network
- Modular design minimizes cost and time of service
- Roadranger field service force provides training and support at dealership and fleet level
- Advanced electronics facilitate comprehensive diagnostic capabilities

Warranties

Five-year/500k mile transmission warranty and three-year/ 350k mile clutch warranty for most applications. Two-year unlimited mileage system warranty (including clutch) for Severe Service applications. You can find your specific vocation coverage on www.roadranger.com. Select the vocational warranty guide.

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Roadranger.com

BACKED BY ROADRANGER SUPPORT

For spec'ing or service assistance, call 1-800-826-HELP (4357) or visit our web site at www.roadranger.com. In Mexico, call 001-800-826-4357.

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



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