

Fuller Advantage® Series Manual Transmissions

Application: Linehaul – Bulk, Dry Van, and Flatbed
FA(F)-XX810B, FAM(F)-XX810B, FAO(F)-XX810C,
FAOM(F)-XX810C

Enhanced performance for greater efficiency, reliability, and lower maintenance

Precision “forced lube” design uses less energy and generates less heat... eliminates the need for a transmission oil cooler in 110,000 GCW applications.



Eaton's Advantage series clutches enhance driveline life and performance due to superior dampening.

Optimized Performance

The Fuller Advantage 10-speed transmission offers you the most efficient performing heavy-duty manual transmission available.

A precision lubrication system reduces the oil “churn” and overall energy losses found in conventional transmissions by nearly one-third.

Less heat is generated using less horsepower eliminating the need for a transmission cooler, lines and fittings... so cooler system maintenance becomes obsolete.

Weight Savings

The advanced design trims weight, without sacrificing strength, by replacing the cast iron shift bar housing, rear cover, and range cylinder with aluminum. Eliminating the oil cooler provides additional weight savings. Your exact savings depends upon the type of truck you buy as cooler weights vary by manufacturer.

Reduced Maintenance Costs

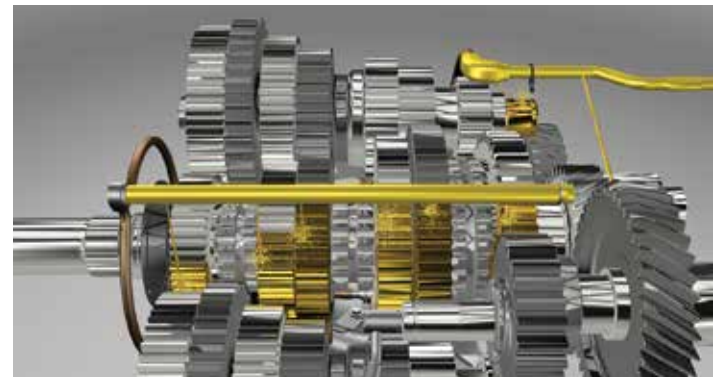
Routine oil checks can be done in a fraction of the time it took previously due to an oil level sight glass.

The precision lubrication system uses only 16 pints of oil, nearly a third less used by comparable manual transmissions.

Collectively, these features add up to big savings over your truck's life cycle.

Technical Features and Benefits

- Precision lube technology reduces oil churning losses...increases efficiency
- GCW up to 110,000 lbs. [49,895 kg] without an oil cooler
- Oil level “sight glass” decreases preventative maintenance time
- Torque capacities from 1450 lb-ft (1966 Nm) to 1650 lb-ft [2237 Nm]. (Up to 1850 lb-ft [2509 Nm] in top 2 gears with multi-torque models)
- Standard 8 and 6-bolt PTO openings
- Two-bolt output yoke/flange retainer improves seal life
- Ten forward speeds, 2 reverse



Precision lube system eliminates oil cooler and reduces remaining transmission inefficiencies by nearly one-third.



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SUPPORT

Fuller Advantage® 10-Speed Transmissions

SPECIFICATIONS	CAPACITY*	WEIGHT**	LENGTH***	SPEEDS
FA(F)-14810B	1450 lbs.ft. [1965 Nm]	541 lbs. [245 kg]	29.9 in. [760.22 mm]	10 forward, 2 reverse
FA(F)-15810B	1550 lbs.ft. [2101 Nm]	541 lbs. [245 kg]	29.9 in. [760.22 mm]	10 forward, 2 reverse
FAM(F)-15810B	1550 lbs.ft. [2101 Nm]	541 lbs. [245 kg]	29.9 in. [760.22 mm]	10 forward, 2 reverse
FAO(F)-14810C	1450 lbs.ft. [1965 Nm]	541 lbs. [245 kg]	29.9 in. [760.22 mm]	10 forward, 2 reverse
FAO(F)-15810C	1550 lbs.ft. [2101 Nm]	541 lbs. [245 kg]	29.9 in. [760.22 mm]	10 forward, 2 reverse
FAO(F)-16810C	1650 lbs.ft. [2237 Nm]	541 lbs. [245 kg]	29.9 in. [760.22 mm]	10 forward, 2 reverse
FAOM(F)-15810C	1550 lbs.ft. [2101 Nm]	541 lbs. [245 kg]	29.9 in. [760.22 mm]	10 forward, 2 reverse
FAOM(F)-16810C	1650 lbs.ft. [2237 Nm]	541 lbs. [245 kg]	29.9 in. [760.22 mm]	10 forward, 2 reverse

* Max power rating is 505 HP.

** Less clutch housing, lubricant and end yoke. Expect additional system weight savings by subtracting cooler (cooler weights vary by OEM).

*** Lengths listed are from face of clutch housing to front bottoming surface of companion flange or yoke.

Ratios and Steps

Fuller Advantage Series Models	Reverse		Overall Ratio	Forward Gears									
	R2	R1		1	2	3	4	5	6	7	8	9	10
FA(F)-14810B	3.89	18.18	15.42	15.42	11.52	8.55	6.28	4.67	3.30	2.46	1.83	1.34	1.00
FA(F)-15810B			% Step	34	35	36	34	42	34	34	37	34	
FAM(F)-15810B*													
FAO(F)-14810C	2.78	13.63	17.53	12.8	9.25	6.76	4.9	3.58	2.61	1.89	1.38	1.00	0.73
FAO(F)-15810C													
FAO(F)-16810C			% Step	38	37	38	34	37	38	37	38	37	
FAOM(F)-15810C*													
FAOM(F)-16810C*													

* This transmission can be rated at 200 additional lb-ft. torque above the stated limit in the top two gears only.

Specifications:

Clutch Housing

- SAE #1. Grey iron or aluminum available.

Power Take-Offs:

- 2 SAE standard openings
- Right side, regular duty, 6-bolt. Bottom, heavy-duty, 8-bolt.

PTO Drive Gears:

- Right: 6 bolt; 45-tooth; 6/8 pitch gear; or 8 bolt; 47-tooth; 6/8 pitch gear; both types turn at .79 engine speed (Overdrive); .70 engine speed (Direct Drive).

Oil Capacity:

- Approx. 16 pints [7.57 liters]

Warranty

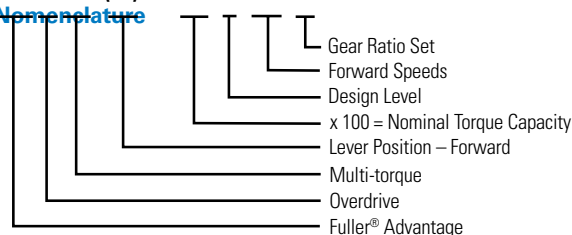
Five-year/750,000 mile (1,200,000 Km) transmission warranty in linehaul applications.* You can find specific coverage on www.roadranger.com/

warranty. Select the warranty guide (TCWY0900).

*Canada and United States

FAOM (F) - 16 8 10 C

Nomenclature



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SUPPORT

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

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

Eaton

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