Fuller[®] 10-Speed Transmissions FR-9210B FR-14210B FR/FRM/FRW-15210B FRO-16210B

The FR Series 10-Speed ("B" ratio, "C" ratio and High Torque Models)



A standard in transmission performance, reliability and durability.

- Improved tolerance to driver abuse with larger diameter mainshaft and new mainshaft washer design.
- Patented SynchroSaver[™] feature protects against range synchronizer damage caused by improper operation.
- Integrated air module improves reliability by eliminating separate components and external air hoses.
- Exclusive output seal design improves seal life and eliminates potential for seal damage during yoke removal.

- Better rail definition, more precise shifting and improved durability with patented single-rod shift controls.
- Increased payload capacity with up to 32 lb. weight reduction compared to RT Series.
- Enhanced PTO options, with relocated side opening and option for two through-shaft PTOs.
- Roadranger warranties are available for a wide variety of applications. To find the coverage that applies to your specific vocation, please see the Warranty Guide (TCWY0900) at www.eaton.com/roadranger.





Fuller[®] 10-Speed Transmissions

MODEL	CAPACITY	WEIGHT*	LENGTH**	SPEEDS
FR-9210B	950 lbs.ft. [1288 Nm]	592 lbs. [268.53 kg]	29.9 in. [760.22 mm]	10 forward, 2 reverse
FR-14210B	1450 lbs.ft. [1965 Nm]	592 lbs. [268.53 kg]	29.9 in. [760.22 mm]	10 forward, 2 reverse
FR/FRM/FRW-15210B	1550 lbs.ft. [2101 Nm]	592 lbs. [268.53 kg]	29.9 in. [760.22 mm]	10 forward, 2 reverse
FRO-14210C	1450 lbs.ft. [1965 Nm]	592 lbs. [268.53 kg]	29.9 in. [760.22 mm]	10 forward, 2 reverse
FRO-15210C	1550 lbs.ft. [2101 Nm]	602 lbs. [273.10 kg]	29.9 in. [760.22 mm]	10 forward, 2 reverse
FRO-16210C	1650 lbs.ft. [2237 Nm]	602 lbs. [273.10 kg]	29.9 in. [760.22 mm]	10 forward, 2 reverse
FR0-17210C	1750 lbs.ft. [2373 Nm]	602 lbs. [273.10 kg]	29.9 in. [760.22 mm]	10 forward, 2 reverse
FRO-18210C	1850 lbs.ft. [2508 Nm]	602 lbs. [273.10 kg]	29.9 in. [760.22 mm]	10 forward, 2 reverse

Less clutch housing, lubricant and end yoke.

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

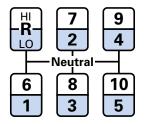
Ratios and Steps:

	Reve	erse		Forward Gears											
Models	L	н	Overall Ratio	LL	L	1	2	3	4	5	6	7	8	9	10
FR-9210B*	16.21	3.63	14.80			14.80	10.95	8.09	5.97	4.46	3.32	2.45	1.81	1.34	1.00
FR-14210B*															
FR-15210B*			0/ 04		35	35	35	34	35	35	35	35	34		
FRM-15210B**			% Step												
FRW-15210B															
FRO-14210C*	13.75 2.8	.75 2.81	17.15			12.69	9.29	6.75	4.90	3.62	2.59	1.90	1.38	1.00	.74
FRO-15210C*			0/ Stop		37	20	00	35	40	70	20	38	05		
FRO-16210C*			% Step		3/	37	37 38	38		40	37	38	38	35	
FRO-17210C*	10.75	3.75 2.80	17.49			12.94	9.29	6.75	4.90	3.62	2.64	1.90	1.38	1.00	.74
FRO-18210C	13.75		% Step			39	38	38	35	37	39	38	38	35	

* These (950 lb-ft. - 1750 lb-ft.) transmissions can be rated at 100 additional lb-ft. torque above the stated limit in the top two gears only.

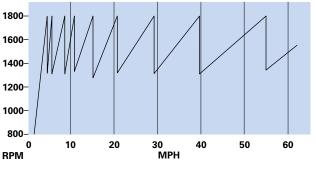
** This transmission can be rated at 200 additional lb-ft. torque above the stated limit in the top two gears only.

Shift Pattern:



FRO Series models feature an "X" style shift pattern as standard. No "U" style shift pattern is available.

Performance Chart:



Based on 1800 RPM engine operating at 1550 RPM/62 MPH.

BACKED BY **Roadranger** 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.

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Specifications:

Clutch Housing Size:

• SAE #1 and #2. Grey iron or aluminum available.

Power Take-Offs:

- 2 SAE standard openings.
- Right side, regular duty, 6-bolt. Bottom, heavy-duty, 8-bolt. Thru-shaft PTO upper right and/or lower left available.
- PTO Drive Gears:
- Right: 6 bolt; 45-tooth; 6/8 pitch gear. Left: 8 bolt; 47-tooth; 6/8 pitch gear turn at .65 engine speed -direct, .87 for overdrive.
- Oil Capacity:
- Approx. 23.5 pints [11.1 liters].
- Integral oil pump, internal and external oil coolers are available.

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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