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**Roadranger®**



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## Fuller® 10-Speed Transmissions

FR-9210B

FR/FRO-12210B

FR/FRO-14210B

FRO-16210B

FR/FRO-11210B

FR/FRO-13210B

FR/FRO-15210B

# Roadranger®

More time on the road™

## The “B” Ratio FR Series 10-Speed

A new standard in transmission performance, reliability and durability in the Fuller Roadranger tradition.

- Integrated air module improves reliability by eliminating separate components and external air hoses.
- Better rail definition, more precise shifting and improved durability with patented single-rod shift controls.
- Increased payload capacity with up to 15 kg weight reduction compared to RT Series.
- Exclusive output seal design improves seal life and eliminates potential for seal damage during yoke removal.
- 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.
- Enhanced PTO options, with relocated side opening and option for two through-shaft PTOs.



# Fuller® 10-Speed Transmissions

SPECIFICATIONS	CAPACITY	WEIGHT*	LENGTH**	SPEEDS
FR-9210B	950 lbs.ft. [1288 Nm]	592 lbs. [268.53 kg]	29.9 in. [840.74 mm]	10 forward, 2 reverse
FR/FRO-11210B	1150 lbs.ft. [1559 Nm]	592 lbs. [268.53 kg]	29.9 in. [840.74 mm]	10 forward, 2 reverse
FR/FRO-12210B	1250 lbs.ft. [1694 Nm]	592 lbs. [268.53 kg]	29.9 in. [840.74 mm]	10 forward, 2 reverse
FR/FRO-13210B	1350 lbs.ft. [1830 Nm]	592 lbs. [268.53 kg]	29.9 in. [840.74 mm]	10 forward, 2 reverse
FR/FRO-14210B	1450 lbs.ft. [1965 Nm]	592 lbs. [268.53 kg]	29.9 in. [840.74 mm]	10 forward, 2 reverse
FR/FRO-15210B	1550 lbs.ft. [2101 Nm]	592 lbs. [268.53 kg]	29.9 in. [840.74 mm]	10 forward, 2 reverse
FRO-16210B	1650 lbs.ft. [2237 Nm]	592 lbs. [268.53 kg]	29.9 in. [840.74 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.

## Specifications:

- Clutch Housing:
- 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 side, 45-tooth, 6 pitch.
- Bottom, 47-tooth, 8 pitch. PTO gear and shafts turn at .65 engine speed -direct, .87 for overdrive.

### Oil Capacity:

- Approx. 11.1 litres.
- Integral oil pump standard on 14210 Series and above.

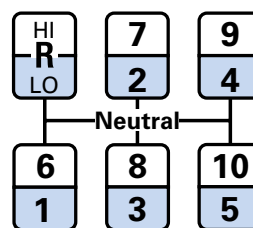
### Oil Cooler:

- Per Application Guidelines.

## Ratios and Steps:

GEAR	FR SERIES RATIO	% STEP	FRO SERIES RATIO	% STEP
10th	1.00		.75	
9th	1.34	34	1.00	34
8th	1.81	35	1.35	35
7th	2.45	35	1.83	35
6th	3.32	35	2.48	35
Range Shift		35		35
5th	4.46	34	3.34	34
4th	5.97	35	4.46	35
3rd	8.09	35	6.05	35
2nd	10.95	35	8.19	35
1st	14.80		11.06	
Hi Rev	3.63		2.71	
Lo Rev	16.21		12.12	
Overall Ratio: 14.80 to 1				

## Shift Pattern:



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

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For sales, service or technical assistance, call (03) 9751 8800, for more time on the road.  
Or visit our web site at [www.roadranger.com](http://www.roadranger.com).

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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