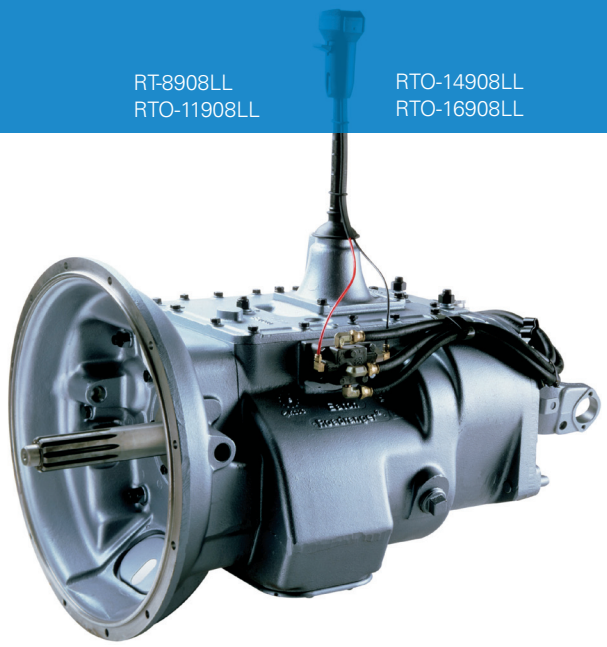
RT-8908LL
RTO-11908LL

RTO-14908LL
RTO-16908LL

The Fuller® 8LL Transmissions



8 plus 2 Versatility for On/Off-Highway Applications and Demanding On-Highway Duty

- Eight road speed gears and two additional deep reduction ratios in low and reverse for on/off-highway versatility.
- Improved tolerance to driver abuse due to new mainshaft washer design.
- High capacity tapered roller bearings on both auxiliary countershafts for increased bearing life.
- Improved output seal system increases seal life and eliminates potential for seal damage during yoke service.
- Easy range shifting and long life due to proven heavy-duty synchronizer technology.
- Binocular-type range and deep reduction shift cylinder assembly for greater serviceability and fewer parts.
- Increased lubrication protection with optional integral oil pump.
- Standard SAE 6-bolt and 8-bolt PTO openings and optional thru-shaft PTO provision at rear.
- Roadranger warranties are available for a wide variety of applications. To find the coverage that applies to your specific vocation, please see the Vocational Warranty Guide (TCWY0900) at www.eaton.com/roadranger.

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Fuller® On/Off-Highway Transmissions

MODEL	CAPACITY	WEIGHT*	LENGTH**	SPEEDS
RT-8908LL	860 lbs.ft. [1166 Nm]	690 lbs. [312.98 kg]	33.1 in. [840.74 mm]	8 forward, 2 low, 3 reverse
RTO-11908LL	1150 lbs.ft. [1559 Nm]	690 lbs. [312.98 kg]	33.1 in. [840.74 mm]	8 forward, 2 low, 3 reverse
RTO-14908LL	1450 lbs.ft. [1966 Nm]	690 lbs. [312.98 kg]	33.1 in. [840.74 mm]	8 forward, 2 low, 3 reverse
RTO-16908LL	1650 lbs.ft. [2237 Nm]	690 lbs. [312.98 kg]	33.1 in. [840.74 mm]	8 forward, 2 low, 3 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, short length.
- Bottom, heavy-duty, 8-bolt.
- Thru-shaft PTO also available as an option.

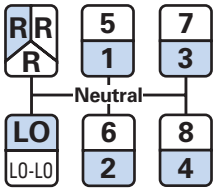
PTO Drive Gears:
- Right side, 45-tooth, 6/8 pitch.
- Bottom, 47-tooth, 6/8 pitch. B ratio PTO gear turns at .94 engine speed. (RT-8908LL PTO's,.70 engine speed.)
- Constant mesh type PTO required, right side opening.

Oil Capacity:
- Approx. 28 pints [13.2 liters].
- Optional integral oil pump available.
- Integral oil pump is standard on RTO-16908LL and optional on RTO-14908LL.

Ratios and Steps:

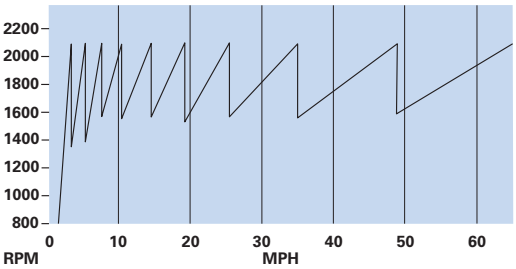
GEAR	RT-8908LL RATIO	% STEP	RTO-11/14/ 16908LL RATIO	% STEP
8th	1.00	34	.74	34
7th	1.34	36	1.00	36
6th	1.83	35	1.36	35
5th	2.46		1.83	
Range Shift		38		38
4th	3.40	34	2.53	34
3rd	4.58	36	3.40	36
2nd	6.23	35	4.63	35
1st	8.39	51	6.24	51
Low	12.67	55	9.42	55
Lo-Lo	19.58		14.56	
Hi Reverse	3.89		2.89	
Low Reverse	13.24		9.95	
Lo-Lo Reverse	20.47		15.22	
Overall	19.58		19.58	

Shift Pattern:



Standard progressive "H" shift pattern only. (Previously designated as "X" pattern.)

Performance Chart:



Based on engine operating at 2100 RPM and top speed of 65 MPH.

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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.

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