RTO-16909ALL

High Reduction Transmissions for Special-Purpose **Low-Speed Applications**



Ideal for concrete or asphalt spreading operations.

- 35.71 to 1 overall ratio coverage maintains pouring speeds even with reduced RPM engines.
- Improved performance in delivery speed range due to better ratios.
- Superior loaded performance with three more usable ratios versus 8-speeds.
- Improved output seal system increases seal life and eliminates potential for seal damage during yoke service.

- · Driver-friendly operation with repeat shift pattern and convenient ratio steps.
- Quieter operation and increased durability due to helical gears in auxiliary
- High capacity tapered roller bearings on the auxiliary countershafts for increased bearing life.
- Proven heavy-duty synchronizer technology offers easy range shifting and long

- Torque ratings at 1650 [2237] and 1450 lb-ft [1966 Nm] to match heavy-duty engines.
- 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.



Fuller® 11-Speed Transmissions

Total System Installed Specifications (Dry)

SPECIFICATIONS	CAPACITY	WEIGHT*	LENGTH**	SPEEDS
RTO-14909ALL	1450 lbs.ft. [1966 Nm]	671 lbs. [304.36 kg]	33.1 in. [840.74 mm]	8 forward, 3 low, 3 reverse
RTO-16909ALL	1650 lbs.ft. [2237 Nm]	698 lbs. [316.61 kg]	33.1 in. [840.74 mm]	8 forward, 3 low, 3 reverse

^{*} Less clutch housing, lubricant and end yoke.

Specifications:

Clutch Housing:

• SAE No. 1 and No. 2. cast iron or aluminum.

Power Take-offs:

- Two SAE standard openings.
- Right side, regular duty, 6-bolt, short length.
- Bottom, heavy-duty, 8-bolt.
- · Optional through-shaft PTO. PTO Drive Gears:
- Right side, a 45-tooth 6/8 pitch gear.
- Left side, a 47-tooth 6/8 pitch gear. Both gears turn at .79 of engine speed.
- Constant mesh type PTO required on right side PTO opening.

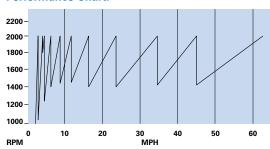
Oil Capacity:

- Approx. 28 pints [13.3 liters].
- · Integral oil pump available.

Ratios and Steps:

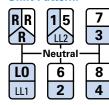
8th 0.73 7th 1.00 6th 1.38 5th 1.95 Range Shift 42 4th 2.77 3rd 3.79 2nd 5.23 1st 7.41 60 Lo-Lo 2 11.85 27	ΕP
7th 1.00 38 6th 1.38 42 5th 1.95 Range Shift 42 4th 2.77 37 3rd 3.79 38 2nd 5.23 42 1st 7.41 60	Τ
6th 1.38 5th 1.95 Range Shift 42 4th 2.77 3rd 3.79 2nd 5.23 1st 7.41 60	
5th 1.95 Range Shift 42 4th 2.77 3rd 3.79 2nd 5.23 1st 7.41 60	
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3rd 3.79 38 2nd 5.23 42 1st 7.41 60	42
3rd 3.79 2nd 5.23 1st 7.41 60	
2nd 5.23 42 1st 7.41 60	
1st 7.41 60	
11.00 37	
Lo 16.30 60	
Lo-Lo 1 26.08	
HI REV 3.43	
Lo REV 13.03	
Lo-Lo Rev 20.85	
Overall 35.71	

Performance Chart:



Based on engine operating at 2000 RPM with top geared road speed of 62 MPH.

Shift Pattern:



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.

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

Eaton Vehicle Group 13100 E. Michigan Ave. Galesburg, MI 49053 USA 800-826-HELP (4357) www.eaton.com/roadranger

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