

# The Low-Inertia™ Super 13



## Versatility and low shift effort in a premium Fuller® transmission

- “Super 13” features patented low-inertia design concept that makes shifting smoother, faster, and easier than ever before.
- Ratio flexibility with 16.9 to 1 overall reduction.
- Gathered gear ratios in hi-range provide potential fuel savings by helping keep RPM’s low to remain in the engine’s optimum fuel efficiency band.
- Simplified shifting with preselect on all button shifts.
- Faster, smoother range and splitter shifts and improved cold weather performance due to design improvements.
- On selected models an optimized lubrication system provides increased cooling and lubrication for more difficult, harder working applications.
- Quieter operation and increased durability with helical gears in auxiliary section.
- 0.73 and 0.86 overdrives for optimum cruise RPMs.
- 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, at [www.eaton.com/roadranger](http://www.eaton.com/roadranger).



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# Fuller® 13-Speed Transmissions

MODEL	CAPACITY	WEIGHT*	LENGTH**	SPEEDS
RTLO-16913A	1650 lbs.ft. [2237 Nm]	716 lbs. [325 kg]	33.1 in. [841 mm]	13 forward, 3 reverse
RTLO-18913A	1850 lbs.ft. [2508 Nm]	716 lbs. [325 kg]	33.1 in. [841 mm]	13 forward, 3 reverse
RTLO-20913A	2050 lbs.ft. [2779 Nm]	716 lbs. [325 kg]	33.1 in. [841 mm]	13 forward, 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. Cast iron and aluminum available.

### PTO Openings:

- 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.

### Oil Capacity:

- Approx. 28 pints [13.25 liters]. Integral oil pump available. Standard on 16913A and 18913A. Oil to water heat exchanger standard on 18913A and 20913A models (Requires 2 pints [.95 liters] additional lubricant).
- Adds 10 lbs. [4.55 kg] to weight).

## Low Inertia Concept:

This innovative, patented design is identified in the Eaton Fuller nomenclature by the letter "L" (as in RTLO-16913A).

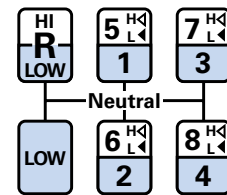
These transmissions feature a simple mainshaft which is not splined to the auxiliary gear. This unique design eliminates the added mass, drag and inertia of the entire auxiliary section.

During upshifts, where both the lever and splitter button are moved together, the low-inertia mainshaft is quickly brought to synchronous resulting in fast, easy shifts.

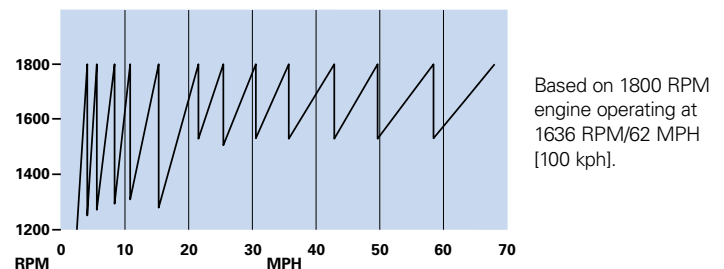
## Ratios and Steps:

GEAR	RATIO	% STEP
8th H	0.73	17
8th L	0.86	17
7th H	1.00	17
7th L	1.17	18
6th H	1.38	17
6th L	1.62	19
5th H	1.94	17
5th L	2.28	17
Range Shift		41
4th	3.23	37
3rd	4.43	38
2nd	6.11	40
1st	8.59	42
Low 1	12.31	
Reverse-HI	3.50	
Reverse-Low	13.22	
Overall Ratio:	16.9 to 1	

## Shift Pattern:



## Performance Chart: RTLO-18913A



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

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