



## Fuller® Automated Transmissions

RTLO-14918A-AS2

RTLO-18918A-AS2

RTLO-22918A-AS2

RTLO-16918A-AS2

RTLO-20918A-AS2

# Roadranger®

More time on the road™

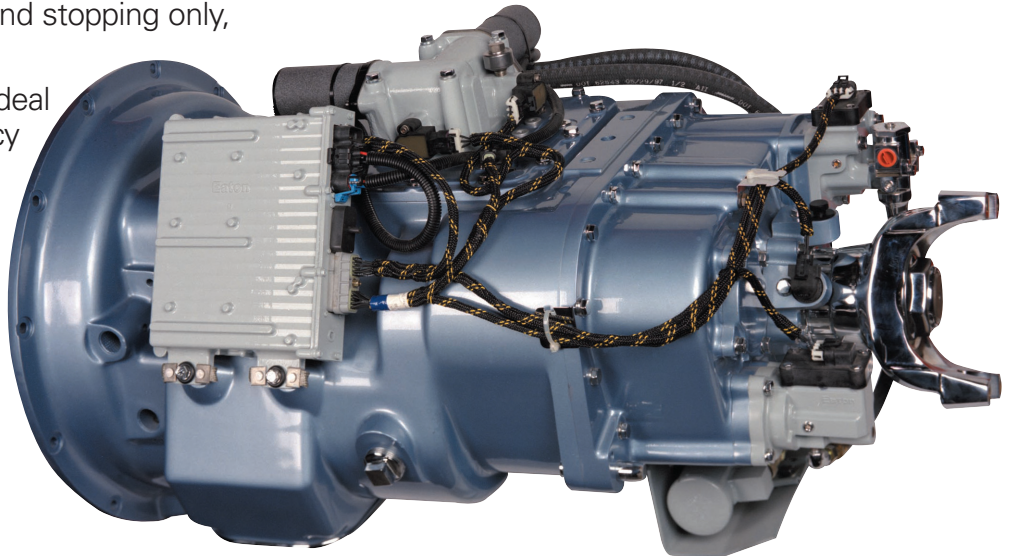
## The AutoShift™ 18-Speed

Operator Ease Combined with Computer Controlled Efficiency for the Ultimate in Versatility and Performance

*Availability and position of shift controls may vary. Contact OEM dealer for details.*



- Automated shifting on proven Fuller® 18-speed transmission models.
- Shift by wire eliminates mechanical lever shifting, keeping both hands on the wheel.
- Clutch necessary for start-up and stopping only, prolonging clutch life.
- Computer controlled shifts at ideal engine speed for best efficiency and performance.
- Enhanced reverse operation due to multiple slow reverse ratios.
- Reduces potential for drivetrain abuse by inexperienced drivers.
- Accurate diagnosis and repair with continuous electronic self-diagnostics.
- Requires appropriate electronic engine and engine brake. Consult engine OEM for availability.
- 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 (TCWY-0900), at [www.roadranger.com](http://www.roadranger.com).



# Fuller® Automated Transmissions

SPECIFICATIONS	CAPACITY	WEIGHT*	LENGTH**	SPEEDS
RTLO-14918A-AS2	1450 lbs.ft. [1966 Nm]	738 lbs. [334.75 kg]	33.1 in. [840.74 mm]	18 forward, 4 reverse
RTLO-16918A-AS2	1650 lbs.ft. [2237 Nm]	738 lbs. [334.75 kg]	33.1 in. [840.74 mm]	18 forward, 4 reverse
RTLO-18918A-AS2	1850 lbs.ft. [2508 Nm]	738 lbs. [334.75 kg]	33.1 in. [840.74 mm]	18 forward, 4 reverse
RTLO-20918A-AS2	2050 lbs.ft. [2779 Nm]	738 lbs. [334.75 kg]	33.1 in. [840.74 mm]	18 forward, 4 reverse
RTLO-22918A-AS2	2250 lbs.ft. [3050 Nm]	738 lbs. [334.75 kg]	33.1 in. [840.74 mm]	18 forward, 4 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 Size:

- SAE #1 and #2.
- Cast iron and aluminum available.

PTO Openings:

- Two SAE standard openings.
- Right side, regular duty, 6-bolt, short length.
- Bottom, heavy duty, 8-bolt.

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 engine speed.

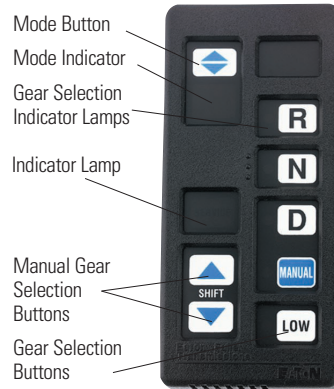
Oil Capacity:

- Approx. 28 pints [13.3 liters].
- Integral oil pump standard on all models.
- Oil to water heat exchanger standard on all models (Requires 2 pints [.95 liters] additional lubricant. Adds 10 lbs. [4.53 kg] to weight).

## AutoShift™ Operation:

The AutoShift™ transmission is an advanced shift-by-wire system consisting of a Fuller® heavy-duty transmission communicating with an electronic engine utilizing the SAE-J1939 protocol for precise control of the engine and transmission functions. The clutch is used only for starting and stopping. Once the vehicle is in motion, AutoShift operates like an automatic transmission, with the efficiency of a manual transmission.

## Top View of Shift Console:

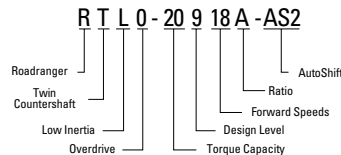


R – Reverse  
 N – Neutral  
 D – Drive - Automatic Gear Selection  
 Manual – Manual Gear Selection  
 Low – 1st Gear Hold or Higher RPM Downshifts

## 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	20
5th H	1.94	17
5th L	2.28	20
Range Shift		20
4th H	2.73	17
4th L	3.20	17
3rd H	3.74	17
3rd L	4.38	18
2nd H	5.16	17
2nd L	6.05	20
1st H	7.26	17
1st L	8.51	22
Low H	10.39	17
Low L	12.19	17
Hi Rev H	2.99	
Hi Rev L	3.50	
Low Rev H	11.17	
Low Rev L	13.09	
Overall	16.7 to 1	

## Model Nomenclature:



# Roadranger®



For spec'ing or service assistance, call 1-800-826-HELP (4357) 24 hours a day, 7 days a week (Mexico: 001-800-826-4357), 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.