The AutoShift® 18-Speed.



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

- Automated shifting on proven ratio 10-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 Warranty Guide (TCWY0900) at www.eaton.com/roadranger.





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



Eaton® Automated Transmissions

MODEL	CAPACITY	WEIGHT*	LENGTH**	SPEEDS
RTLO-16918A-AS3	1650 lbs.ft. [2237 Nm]	969 lbs. [439.53 kg]	33.1 in. [840.74 mm]	18 forward, 4 reverse
RTLO-18918A-AS3	1850 lbs.ft. [2508 Nm]	969 lbs. [439.53 kg]	33.1 in. [840.74 mm]	18 forward, 4 reverse
RTLO-20918A-AS3	2050 lbs.ft. [2779 Nm]	969 lbs. [439.53 kg]	33.1 in. [840.74 mm]	18 forward, 4 reverse
RTLO-22918A-AS3	2250 lbs.ft. [3050 Nm]	969 lbs. [439.53 kg]	33.1 in. [840.74 mm]	18 forward, 4 reverse

Dry weight including clutch.

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.

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. C ratio PTO gear turns at .70 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 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 Pushbutton Shift Console:



Gear Selection Buttons

R - Reverse

N - Neutral

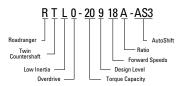
D - Drive - Automatic Gear Selection Manual - Manual Gear Selection Low

Hand shifters are also available. Availability and position of shift controls may vary. Contact OEM dealer for details.

Ratios and Steps: Direct

GEAR	RATIO	% STEF
8th H	0.73	17
8th L	0.86	17 17
7th H	1.00	——————————————————————————————————————
7th L	1.17	17 18
6th H	1.38	. •
6th L	1.62	—— 17
5th H	1.94	—— 20
5th L	2.28	—— 17
Range Shift	20	
4th H	2.73	17
4th L	3.20	17
3rd H	3.74	17
3rd L	4.38	17
2nd H	5.16	— 17
2nd L	6.05	20
1st H	7.26	20 17
1st L	8.51	17
Low H	10.39	22 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:



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.