



Fuller® Automated Transmissions

RTO-10910B-AS3

RTO-16910B/C-AS3

RTLO-14918A-AS3

RTLO-20918A-AS3

RTO-12910B-AS3

RTO-18910B-AS3

RTLO-16918A-AS3

RTLO-22918A-AS3

RTO-14910B/C-AS3

RTLO-18918A-AS3

Roadranger®

More time on the road™

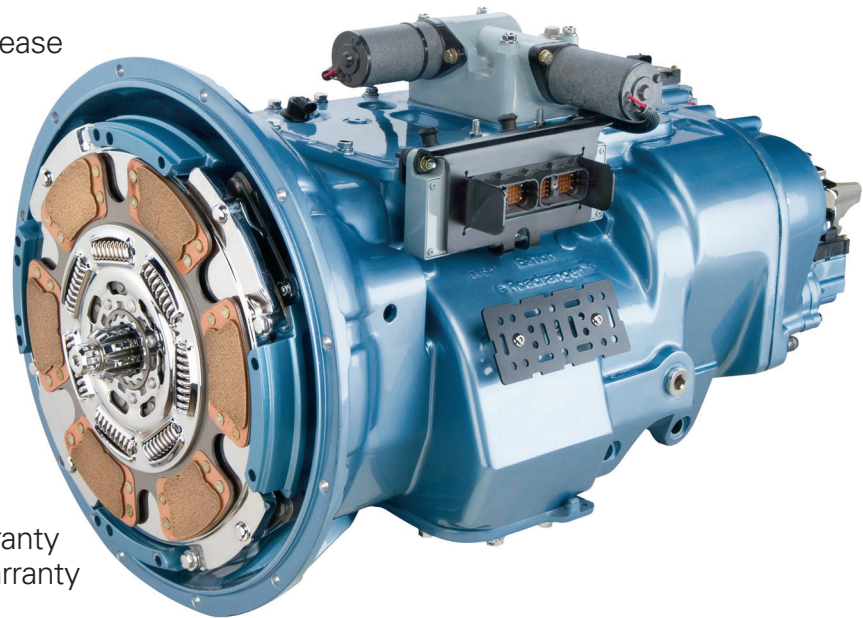
The AutoShift® 10- and 18-Speeds

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

- Automated shifting on proven Fuller® 10- and 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.
- Reduces driver skill requirements through ease of operation.
- Reduces potential for drivetrain abuse by inexperienced drivers.
- Accurate diagnosis and repair with continuous electronic self-diagnostics.
- Modular automation design for ease of diagnosis and service.
- Roadranger Warranty coverage is transferable to the second owner
 - Subject to coverage allowed in second owner's application per Roadranger Warranty guidelines. Please see the Vocational Warranty Guideline at www.roadranger.com.



Type and position of shift controls may vary by vehicle make and model.



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HEAVY-DUTY MODEL FAMILY	MODEL	LBS-FT MAX TQ [NM]	FORWARD SPEED	TYPE	LINEHAUL	HEAVY HAUL	LOGGING	MINING	OIL FIELD	CONSTRUCTION	CITY DELIVERY	SCHOOL BUS	RESCUE	REFUSE	RECREATIONAL	INTERCITY COACH
AutoShift 10	RTO-10910B-AS3	1050 [1424]	10	Automated	X					X					X	
AutoShift 10	RTO-12910B-AS3	1250 [1695]	10	Automated	X					X					X	
AutoShift 10	RTO-14910B/C-AS3	1450 [1966]	10	Automated	X					X					X	
AutoShift 10	RTO-16910B/C-AS3	1650 [2237]	10	Automated	X					X					X	
AutoShift 10	RTO-18910B/C-AS3	1850 [2508]	10	Automated	X					X					X	
AutoShift 18	RTLO-14918-AS3	1450 [1966]	18	Automated	X	X		X	X				X			
AutoShift 18	RTLO-16918-AS3	1650 [2237]	18	Automated	X	X		X	X				X			
AutoShift 18	RTLO-18918-AS3	1850 [2508]	18	Automated	X	X		X	X				X			
AutoShift 18	RTLO-20918-AS3	2050 [2779]	18	Automated	X	X		X	X				X			
AutoShift 18	RTLO-22918-AS3	2250 [3051]	18	Automated	X	X		X	X				X			

This information is intended as a guide only. Please see your Roadranger Representative or OEM dealer salesperson for complete specifications.

Specifications:

Speeds:

- 10 forward, 2 reverse.
- 18 forward, 4 reverse.

Power Take-Offs:

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

PTO Drive Gears:

- Right side, 45-tooth, 6/8 pitch. Bottom, 47-tooth, 6/8 pitch.
- 10-speed B ratio PTO gear turns at .94 engine speed.
- 10-speed C ratio PTO gear turns at .70 engine speed.
- 18-speed PTO gears both turn at .79 engine speed.

Oil Capacity:

- 10-speed: Approx. 26 pints [12 liters]. Integral oil pump available. Pump standard on 1450, 1650 and 1850 series.
- 18-speed: Approx. 28 pints [13.2 liters]. Integral oil pump standard on all models. Oil to water heat exchanger standard on all models.

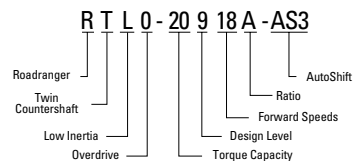
10-Speed Ratios and Steps:

GEAR	B RATIO	% STEP	C RATIO	% STEP
10th	.74	34	.73	37
9th	1.00	36	1.00	38
8th	1.36	35	1.38	37
7th	1.83	34	1.89	38
6th	2.46	35	2.61	37
5th	3.32	34	3.58	37
4th	4.46	36	4.90	38
3rd	6.07	35	6.76	37
2nd	8.18	34	9.25	38
1st	10.96		12.80	
Hi Rev	2.52		2.78	
Lo Rev	11.23		13.63	
Overall	14.81		17.53	

18-Speed 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	17
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	
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:



AutoShift® Operation:

The AutoShift® transmission is an advanced shift-by-wire system consisting of an Eaton 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.



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.



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