



针对中国市场的全球汽车技术 自动重型变速箱

RTLO-14918A-AC3
RTLO-16918A-AC3

RTLO-18918A-AC3
RTLO-20918A-AC3
RTLO-22918A-AC3

手握方向盘 – 眼看前方路面 无需手动换档，因此驾驶更安全、更容易

演变和术语

AutoSelect™

- 专为非电控发动机而设计。
- 驾驶员通过油门踏板来实现换档。
- 驾驶员仅需在启动/停车操作离合器即可。

AutoShift®

- 为电控发动机而设计 (SAE J1939 信息传输/J1587 故障诊断)。
- 所有变速均已实现自动化。
- 驾驶员仅需在启动/停车操作离合器即可。

UltraShift®

- 为电控发动机而设计 (SAE J1939 信息传输/J1587 故障诊断)。
- 所有变速均已实现自动化。
- 离合器操作已实现自动化。

模块化设计

所有Eaton自动机械变速箱 (AutoSelect, AutoShift 和UltraShift) 使用共同的:

- 软件
- 电子装置
- 驱动器
- 传感器

模块化自动设计维护更易，成本更低。如果需要，可使用普通工具轻松拆下部件并进行更换，无需拆下变速箱。仅需存储涵盖整个产品系列的少量维修零件。



AutoSelect 18档变速箱

- 半自动变速箱，与非电控发动机共同操作。
- 18档变速箱平台性能卓越可靠。
- 对于不同的操作条件，可选择双重模式运行。
- 更高的总速比，可提高车辆起动性和离合器使用寿命。
- 更小的档阶尺寸，可提高车辆性能。
- 易于操作。
- 计算机发出视频和音频信号提示驾驶员在理想的发动机速度下换档，以获得最高效率和最佳性能。
- 仅需离合器进行启动和停车。驾驶员仅需移动加速器踏板进行换档。
- 降低无经验的卡车司机盲目操作动力传动系统的可能性。
- 降低疲劳驾驶率。
- 提高安全性能。

速比和档阶:

型号	扭矩 牛米	总速 比	分裂档 17%	倒档		1		3		5		7		9		11		13		15		17	
				低速	高速	2	%	4	%	6	%	8	%	10	%	12	%	14	%	16	%	18	
RTLO-14918A-AC3	1965	16.7	低速	13.09	3.50	12.19	22	8.51	20	6.05	18	4.38	17	3.20	20	2.28	20	1.62	18	1.17	17	0.86	
RTLO-16918A-AC3	2240																						
RTLO-18918A-AC3	2500	16.7	高速	11.70	2.99	10.39	22	7.26	20	5.16	18	3.74	17	2.73	20	1.95	20	1.38	18	1.00	17	0.73	
RTLO-20918A-AC3	2780																						
RTLO-22918A-AC3	3050																						

规格、选件和配备:

型号	整体式 油泵	油位指示器	水油冷 却器	油容量 升	长度 毫米	重量 千克
RTLO-14918A-AC3	标准	X	X			
RTLO-16918A-AC3	标准	X	X			
RTLO-18918A-AC3	标准	X	X	13.16	840.74	332.1
RTLO-20918A-AC3	标准	X	X			
RTLO-22918A-AC3	标准	X	X			

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Global Vehicle Technologies for China
Automated Heavy-Duty Transmissions

RTLO-14918A-AC3	RTLO-18918A-AC3
RTLO-16918A-AC3	RTLO-20918A-AC3
	RTLO-22918A-AC3

Hands on the Wheel – Eyes on the Road Eliminates manual shifting for safer, easier driving

Evolution and Nomenclature

AutoSelect™

- Designed for non-electronic engines.
- Driver manipulates throttle pedal to allow transmission to shift.
- Driver operation of clutch only to launch/stop vehicle.

AutoShift®

- Designed for electronic engines (SAE J1939 communication/J1587 diagnosis).
- All shifts are automated.
- Driver operation of clutch only to launch/stop vehicle.

UltraShift®

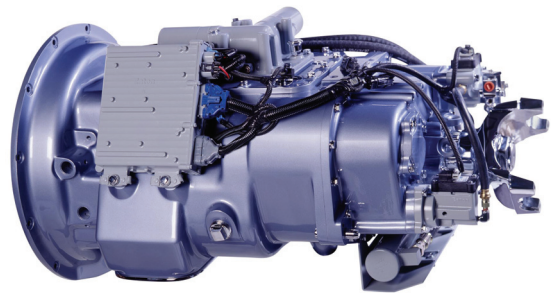
- Designed for electronic engines (SAE J1939 communication/J1587 diagnosis).
- All shifts are automated.
- Clutch operation is automated.

Modular Design

All Eaton Automated Mechanical Transmissions (AutoSelect, AutoShift and UltraShift) use common:

- Software
- Electronics
- Actuators
- Sensors

Modular automation design is easier and less expensive to maintain. If necessary, components can be easily removed and replaced using common tools without the need to remove the transmission. Fewer service parts need to be inventoried to cover the full product family.



AutoSelect 18-Speed Transmission

- Semi-automated transmission that can operate with non-electronic engines.
- Capable and reliable 18-Speed transmission platform.
- Dual mode operation can be selected for different operating conditions.
- Higher overall gear ratio for improved vehicle startability and clutch life.
- Smaller step size for improved vehicle performance.
- Easy to operate.
- Computer prompts driver visually and with audible tones to shift at ideal engine speed for best efficiency and performance.
- Clutch necessary for start-up and stopping only. Driver only moves accelerator pedal to make a shift.
- Reduces potential driveline abuse by inexperienced drivers.
- Reduces driver fatigue.
- Increased safety.

Ratios and Steps:

MODEL	TORQUE NM	OVERALL RATIO	SPLITTER 17%	REVERSE		1		3		5		7		9		11		13		15		17	
				L	H	2	%	4	%	6	%	8	%	10	%	12	%	14	%	16	%	18	
RTLO-14918A-AC3	1965	16.7	Low	13.09	3.50	12.19	22	8.51	20	6.05	18	4.38	17	3.20	20	2.28	20	1.62	18	1.17	17	0.86	
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RTLO-20918A-AC3	2780																						
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Specifications, Options & Provisions:

MODEL	INTEGRAL OIL PUMP	DIPSTICK	OIL-TO-WATER COOLER	OIL CAP. LITRES	LENGTH MM	WEIGHT KG
RTLO-14918A-AC3	STD	X	X			
RTLO-16918A-AC3	STD	X	X			
RTLO-18918A-AC3	STD	X	X	13.16	840.74	332.1
RTLO-20918A-AC3	STD	X	X			
RTLO-22918A-AC3	STD	X	X			

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