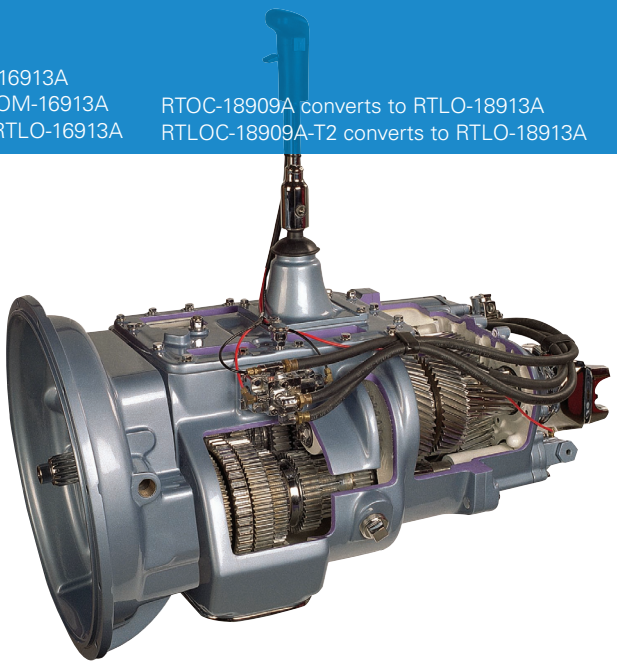
Fuller® Convertible Transmissions

RTOC-16909A coverts to RTLO-16913A
RTOCM-16909A coverts to RTLOM-16913A
RTLOC-16909A-T2 converts to RTLO-16913A

RTOC-18909A converts to RTLO-18913A
RTLOC-18909A-T2 converts to RTLO-18913A

The Versatile Fleet and Performance Transmissions… 9-to-13-Speed "Convertibles" for Efficiency, Performance and Maximum Trade-In Value



The Fuller Convertible operates as a simple 9-speed transmission. It can then easily be converted to a 13-speed to increase vehicle versatility and resale value at trade-in time.

Also available – 9-speed "Top 2" transmission models that automatically shift between the top two gears while at cruise speeds (above 40 mph). The Top 2 feature is not available after the conversion to a 13-speed model.

9-Speed – 13-Speed – The Best of Both!

For the first owner, you get a simple, reliable 9-speed. The second owner, with the purchase of an inexpensive conversion kit, gets the legendary Fuller 13-speed transmission – for the utmost in performance and versatility.

Proven Payback at Trade-In Time

The average resale value on a truck equipped with a Fuller 13-speed transmission is up to $3,000 more than the same truck equipped with a 10-speed transmission.

Proven Customer Preference at Trade-In Time

A truck equipped with a Fuller 13-speed transmission spends half the time on a dealer's lot, on average, than an equivalent truck equipped with a 10-speed transmission.

A Warranty That Fits Your Needs

Fuller Convertible transmissions allow an owner to extend the warranty up to 6 years and 600,000 miles – providing extra protection for the second owner. To understand the coverage that applies to your specific vocation, please see the Vocational Warranty Guide TCWY0900) at www.eaton.com/roadranger.

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Fuller® Convertible Transmissions

Model 9 Speeds	Speeds	Integral Oil Pump	External Oil Cooler	Oil Cap. Pints [ltr]	Length Inches [mm]	Weight lbs. [kg]	PTO Speed (% of Engine)
RTOC-16909A	9 forward, 2 rev.	STD		28 [13]	33.1 [841]	716 [325]	79
RTOCM-16909A	9 forward, 2 rev.	STD					
RTLOC-16909A-T2	9* forward, 2 rev.	STD					
RTOC-18909A	9 forward, 2 rev.	STD	STD				
RTLOC-18909A-T2	9* forward, 2 rev.	STD	STD				

* Top 2 feature automatically splits between 8th H and 8th L.

Model 9 Speeds	Lbs-Ft Max TQ [Nm]	Overall	Reverse		L	%	1	%	2	%	3	%	4	%	5	%	6	%	7	%	8	%	9
			L	H																			
RTOC-16909A	1650 [2237]	14.38	11.28	2.99	10.50	42	7.37	42	5.21	38	3.78	37	2.76	41	1.95	42	1.38	38	1.00	37	.73		
RTOCM-16909A**	1650 [2237]	14.38	11.28	2.99	10.50	43	7.37	42	5.21	38	3.78	37	2.76	41	1.95	42	1.38	38	1.00	37	.73		
RTLOC-16909A-T2*	1650 [2237]	14.38	11.28	2.99	10.50	42	7.37	42	5.21	38	3.78	37	2.76	41	1.95	42	1.38	38	1.00	17	.86	17	.73
RTOC-18909A	1850 [2508]	14.38	11.28	2.99	10.50	42	7.33	41	5.21	38	3.78	37	2.76	41	1.95	42	1.38	38	1.00	37	.73		
RTLOC-18909A-T2	1850 [2508]	14.38	11.28	2.99	10.50	42	7.37	42	5.21	38	3.78	37	2.76	41	1.95	42	1.38	38	1.00	17	.86	17	.73

* These transmissions can be rated at 100 lbs. ft. of additional torque above the limits in the top 2 ratios only, available in top three with a Catepillar C13 & C15. When converted to a 13-speed, the engine has to be re-rated to no greater than maximum transmission torque.
** This transmission can be rated at 200 lb-ft of additional torque above the limits in the top 2 ratios only.

Model 13 Speeds	Speeds	Integral Oil Pump	External Water-to-Oil Cooler	External Oil Filter	Oil Cap. Pints [ltr]	Length Inches [mm]	Weight Lbs. [kg]	PTO Speed (% of Engine)
RTLO-16913A	13 forward, 2 rev.	STD			28 [13]	33.1 [841]	716 [325]	79
RTLOM-16913A***	13 forward, 2 rev.	STD						
RTLO-18913A	13 forward, 2 rev.	STD						

Model 13 Speeds	Lbs-Ft Max TQ [Nm]	Overall	Reverse				L	%	1	%	2	%	3	%	4	%	5	%	6	%	7	%	8
			LL	H																			
RTLO-16913A	1650 [2237]	16.86	13.22	3.50	H	17% Splitter	12.31	42	8.64	42	6.11	38	4.43	37	3.23	41	1.95	21	1.38	18	1.00	17	.73
RTLOM-16913A***	1650 [2237]																						
RTLO-18913A	1850 [2508]				L												2.29		1.62		1.17		.86

*** This model cannot be ordered directly but is the product of the RTOCM-16909A after the conversion to a 13 Speed (RTLOM-16913A). This transmission can be rated at 200 lb-ft of additional torque above the limits in the top 4 ratios only.

Specifications:

Clutch Housing:

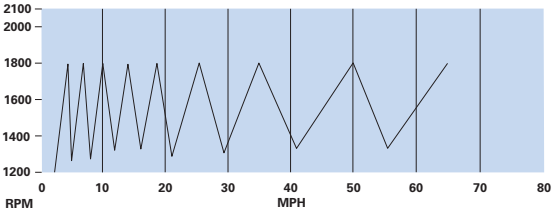
- SAE No. 1 (Cast iron and aluminum available).

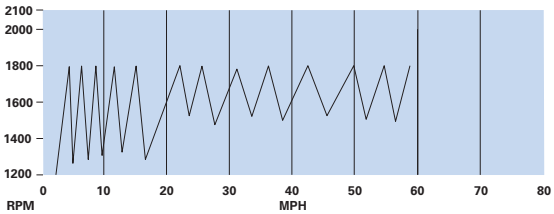
PTO Openings:

- Right side, a 45-tooth, 6/8 pitch gear.
- Left side, a 47-tooth, 6/8 pitch gear.
- Both gears turn at 0.79 of engine speed.

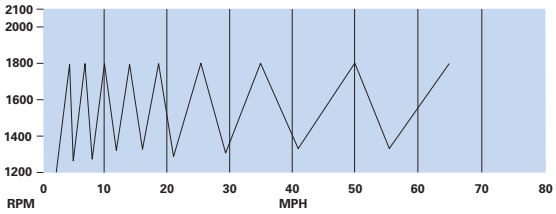
Performance Charts: Based on 1800 RPM engine operating at 1636 RPM/62 MPH.

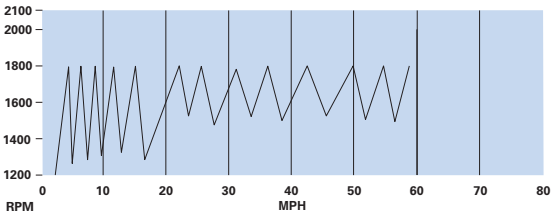
RTOC-16909A converts to RTLO-16913A



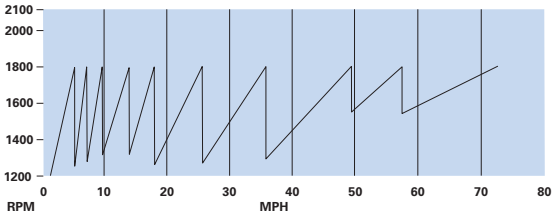


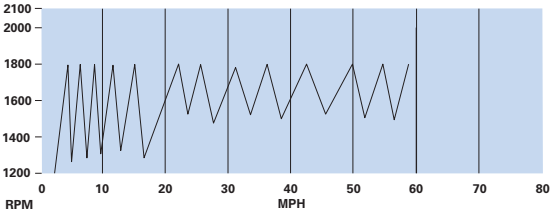
RTOCM-16909A converts to RTLOM-16913A



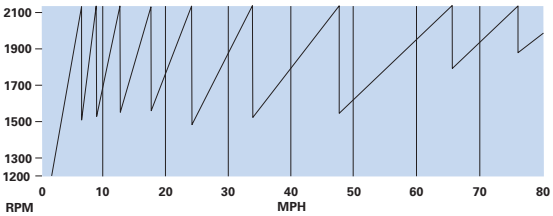


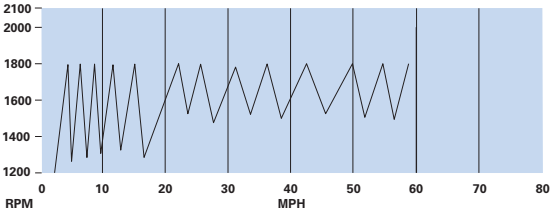
RTLOC-16909A-T2 converts to RTLO-16913A



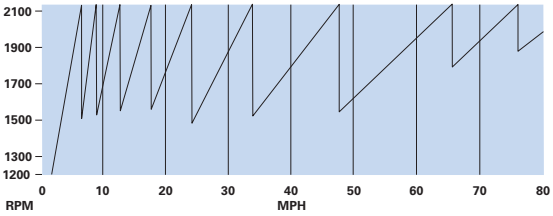


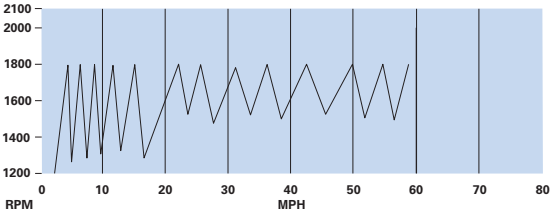
RTLOC-18909A-T2 converts to RTLO-18913A





RTOC-18909A converts to RTLO-18913A





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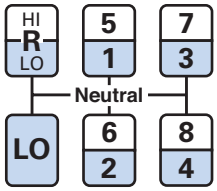
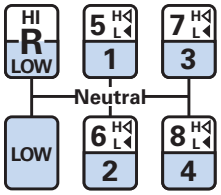
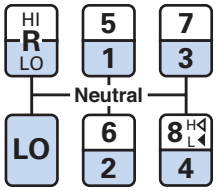
Shift Pattern:
RTOC-16909A, RTOC-18909A and RTOCM-16909A



Shift Pattern:
RTLO-16913A and RTLO-18913A



Shift Pattern:
RTLOC-16909A-T2 and RTLOC-18909A-T2



Note:
Reference Roadranger Information Bulletin TMIB0138 for conversion kit.

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Eaton Corporation
Vehicle Group
P.O. Box 4013
Kalamazoo, MI 49003 USA
800-826-HELP (4357)
www.eaton.com/roadranger

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