

# TREMEC®

Torque Transfer Solutions™

## Medium-Duty Commercial Vehicle 5-Speed Synchronized Manual Transmissions

Ideally suited for local pick-up and delivery operations, TREMEC 5-speed synchronized manual transmissions empower fleets to run a more fuel efficient, reliable and profitable business.

These robust, easy-to-maintain transmissions feature a modular, end-load case design, and positive gear engagement with the patented OPTI-RAIL™ shift rail system.

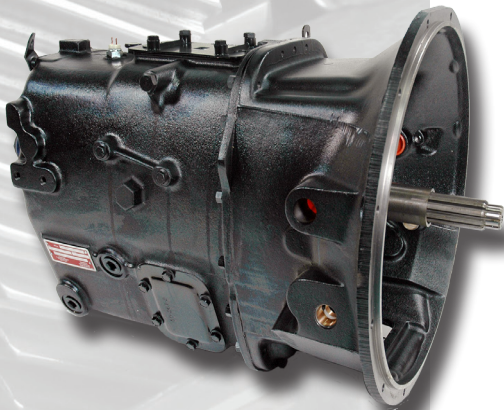
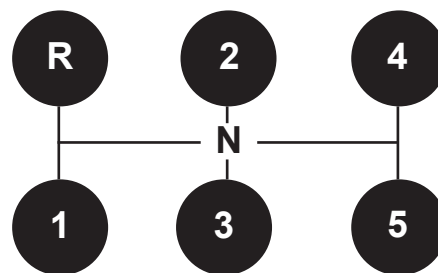
The OPTI-RAIL system eliminates shift rail fasteners on the high-duty cycle forward synchronized gears.

OPTI-RAIL's unique design gathers all the shift rails between two welded side channels. Each shift fork is attached to an individual rail, and to both side channels. Stress is distributed evenly throughout the structure, providing greater strength. Overall stiffness has been improved by 100%, virtually eliminating shift fork deflection.



TREMEC Medium-Duty transmissions feature Taper Lok™ shift collars and synchronizers that improve shift quality and performance while helping prolong transmission life. Taper Lok works with the main shaft, drawing the gears into position and locking them firmly in place.

### Shift Pattern





Torque Transfer Solutions™

# Medium-Duty Commercial Vehicle

## 5-Speed Synchronized Manual Transmissions

### TREMEC TR-S46-5A and TR-S56-5A Transmission Specifications

Type:	Five-speed rear wheel drive manual transmission		
Torque Capacity:	Model TR-S46-5A: 460 lb.-ft. (620 Nm); Model TR-S56-5A: 560 lb.-ft. (760 Nm)		
Maximum Gross Vehicle Weight:*	Model TR-S46-5A: 42,000 lbs (19,000 kg); Model TR-S56-5A: 50,000 lbs (23,000 kg) <i>*For reference only. Not applicable to a specific application</i>		
Case:	End load design		
Overall Length:	27.05 inches (687 mm)		
Clutch Housing:	SAE #2		
Synchronized Gears:	2 through 5		
Lubricant Type:	SAE 50 Wt. H.D. engine oil		
Lubricant Capacity (approximate):	12 pints (5.7 liters)		
Transmission Weight:	Dry: 325 lbs (147 kg)		
Power Take-Off (PTO):	6 bolt, right and left		
Power Take-Off (PTO) Speed:	Model TR-S46-5A: 49%; Model TR-S56-5A: 49% (percent of engine)		
Gear Ratios:	<b>Model TR-S46-5A and Model TR-S56-5A</b>		
	Gear	Ratio	% Step
	1	7.16	84
	2	3.89	79
	3	2.17	54
	4	1.41	41
	5	1.00	
	R	6.75	
	Overall ratio:	7.16	