

EASY-SHIFT™ Transmissions

SPICER®



Description:

SPICER EASY-SHIFT transmissions were designed with strength in mind. The modular, end-loaded, cast iron case design provides uncompromised case rigidity. A new, unique patented shift rail system, (OPTI-RAIL™) eliminates all fasteners on the high-duty cycle forward synchronized gears. The only fasteners that remain are found on the first/reverse shift fork, which is not exposed to the same abuses as other forward gears. Taper Lok™ shift collars and synchronizers improve shift quality and performance while they help prolong transmission life. Taper Lok works with the mainshaft, drawing the gears into position and locking them firmly into place. The dual-pivot-point Gimbal Shift Tower dampens and absorbs mechanical and sound vibrations from the driver. The result is smooth, positive gear engagement and quieter operation.

Typical Applications:

EASY-SHIFT transmissions are ideally suited for local pick-up and delivery applications. Gears 2 thru 7 are synchronized, so even the most inexperienced driver can drive like a professional.

Performance Advantages:

The EASY-SHIFT 7-speed is designed to provide optimum durability, ease of shifting and low ownership costs. And best of all, it's backed by the TTC Support Team. Factory trained customer service representatives are stationed across the country and are ready to assist your spec'ing, or trouble shooting needs from 8:00 AM – 6:00 PM EST. Call (800) 401-9866 to locate the nearest TTC representative.

Features	Benefits
<ul style="list-style-type: none">• End-loaded case design• OPTI-RAIL• Available overdrive• Synchronized gears (2 – 7)• Gimbal Shift Tower	<ul style="list-style-type: none">• Ease of maintenance / strength• Stronger more durable• Improved shift feel• Improved fuel economy• Fast smooth shifts• Reduced noise / vibration
<ul style="list-style-type: none">• Taper Lok collars and synchronizers• Variety of PTO mountings• Lubricated pocket bearing	<ul style="list-style-type: none">• Positive gear engagement• Flexibility / versatility• Cooler operating temperature• Improved efficiency

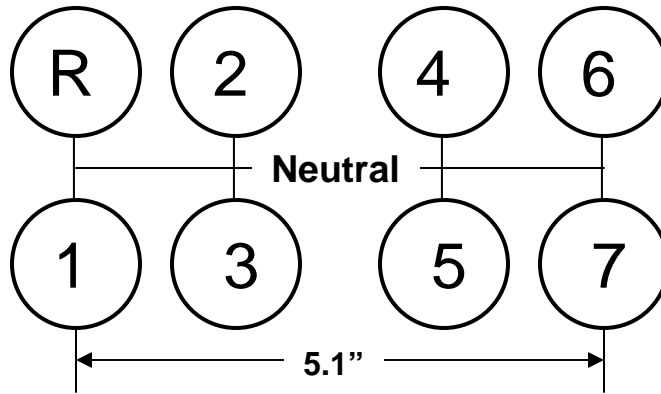
EASY-SHIFT™
TRANSMISSIONS

Models:
ES56-7B
ES066-7B



EASY-SHIFT™ Transmissions

Shift Pattern



General Specifications*	
Speeds	7 forward, 1 reverse
Weight**	454 lbs.
Torque Capacity:	
ES56 – 7B	560 lbs. ft.
ESO66 – 7B	660 lbs. ft.
Length	32.87 inches
Input shaft	1-1/2" or 1-3/4" 10 spline
Output Shaft	2" 38 tooth rolled spline
Clutch Housing	SAE No. 2
Gearing	All helical, constant mesh
Synchronized	2 through 7
Lube type	SAE 50 wt. H.D. engine oil
Lube capacity	22 pts.
PTO openings	6 bolt right & left side
PTO speed	
ES56 – 7B	49.0 (% of engine speed)
ESO77 – 7B	66.0 (% of engine speed)

** Including clutch housing

* Call or write for application approval outside these guidelines

Ratios and Steps ES56 – 7B		
Gear	Ratio	% Step
1	10.09	69
2	5.98	61
3	3.72	45
4	2.56	41
5	1.81	34
6	1.35	35
7	1.00	
R	8.99	

Ratios and Steps ESO66 – 7B		
Gear	Ratio	% Step
1	7.48	69
2	4.43	61
3	2.76	45
4	1.90	41
5	1.34	34
6	1.00	35
7	.74	
R	6.66	

TTC Website:
<http://www.ttcautomotive.com>

TTC Tech Line:
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