

PRO-SHIFT™ 7-SPEED Transmissions



The PRO-SHIFT™ 7-Speed transmissions bring you affordability, reliability, and adaptability for work with today's more fuel-efficient diesel engines. Available in both medium- and heavy-duty applications, these proven workhorse transmissions are perfect for a wide variety of jobs – from city pick-up and delivery to line-haul operations; from car-carrier fleets to truck-load and less-than-truckload fleets.

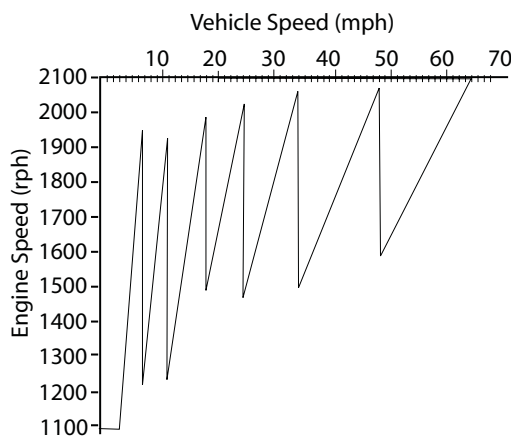
Features:

- Heavy-duty torque capacities that work with new, higher torque diesels
- Driver-friendly, no-repeat shift patterns
- Low first and reverse gears for smooth startability and controlled backing
- Heavy-duty rolled spline mainshaft for longer life and increased output strength
- Wide choice of PTO mountings available with standard ports for electronic speed and cruise controls.
- Mainshaft and Taper Lok™ clutch collar lock gears into place for smooth, positive gear engagement.

Model Specifications

Model No.	Torque Capacity	GVW/GCW*
PS110A-7A	1,100 lb. ft.	80,000 lbs.
PS110-7B	1,100 lb. ft.	80,000 lbs.
PS145-7A	1,450 lb. ft.	90,000 lbs.

Performance Data



Pro-Shift 7-Speed

General Information

Ratio Coverage	10:1 PS110-7A
	12:1 PS110-7B
	10:1 PS145-7A
Length	30.75"
Weight	732 lbs.
Input Shaft	1-3/4" or 2" 10-Spline
Output Shaft	2,500" 49-Spline
Clutch Housing	SAE#1 or 2
Clutch	Spicer 14" or 15-1/2" 2-Plate
Lube Capacity	48 Pints
Speedometer	Specify Mechanical or Electronic

*All other applications require Spicer Engineering approval.

SPICER®

PRO-SHIFT™ 7-SPEED TRANSMISSIONS

Models

PS110-7A
PS145-7A
PS110-7B



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Total Reduction

Spicer 7-Speeds With:

Axle Ratio	10:13 First Gear	12:27 First Gear
3.06	31.0:1	37.5:1
3.21	32.5:1	39.4:1
3.42	34.6:1	42.0:1
3.55	36.0:1	43.6:1
3.73	37.8:1	45.8:1
3.90	39.5:1	47.9:1
4.10	41.5:1	50.3:1
4.33	43.9:1	53.1:1
4.44	45.0:1	54.5:1
4.56	46.2:1	56.0:1
4.63	46.9:1	56.8:1
4.88	49.4:1	59.9:1
5.29	53.6:1	64.9:1
5.86	59.4:1	71.9:1

Top Geared M.P.H.

Engine Gov. RPM 1400 1500 1600 1700 1800 1900 2000 2100

Axle ratio

3.07	53	57	60	64	68	72		
3.21	51	54	58	61	65	69	72	
3.42		51	54	58	61	64	68	71
3.55			52	56	59	62	65	69
3.73				53	56	59	62	65
3.90				51	54	57	60	62
4.10					51	54	57	59
4.33						51	54	56
4.44							52	55
4.56							51	53
4.63								53

With Tires@517 Revolutions Per Mile.

Power Take Off Applications

Transmis- sion	PTO Gear Data
PS110-7B	6-Bolt Right, 6-Bolt Bottom Left: 35% of Engine Speed, 6 Pitch, 56 Tooth
PS110-7A PS145-7A	6-Bolt Right, 6-Bolt Bottom Left: 42% of Engine Speed, 6 Pitch, 43 Tooth

Countershaft PTO optional on all models.

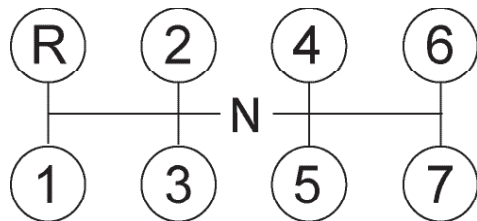
Spicer End Fitting Reference

End Yoke	Quick Disconnect™
1610	5-4-7951-1
1710	6-4-7691-1
1760	6.3-4-1251-1
1810	6.5-4-3821-1

Gear Ratios

PS110-7A Gear	PS145-7A Ratio	%Step	PS110-7B Ratio	%Step
1st	10.13		12.27	
		69%		75%
2nd	5.99		7.00	
		68%		69%
3rd	3.56		4.13	
		39%		63%
4th	2.57		2.54	
		40%		38%
5th	1.84		1.84	
		38%		38%
6th	1.33		1.33	
		33%		33%
7th	1.00		1.00	
Rev	10.13		12.27	

PRO-SHIFT 7-Speed Shift Pattern



Driver-friendly no-repeat shift position



For parts or service call us
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