

WINCH

SERVICE DATA

SS027-01

Winch	Spacer No.1 thickness	STD Minimum	1.4 mm (0.055 in.) 1.3 mm (0.051 in.)
	Drum bore	STD Maximum	64.20 mm (2.5276 in.) 64.36 mm (2.5339 in.)
	Outer clutch (bore)	STD Maximum	12.00 mm (0.4724 in.) 12.03 mm (0.4736 in.)
	Outer clutch (diameter)	STD	27.77 mm (1.0933 in.)
	Outer disc thickness	STD Minimum	1.60 mm (0.0630 in.) 1.50 mm (0.0591 in.)
	Inner disc thickness	STD Minimum	2.30 mm (0.0906 in.) 2.20 mm (0.0866 in.)
	Drum spacer No.2 thickness	STD Minimum	1.4 mm (0.0551 in.) 1.3 mm (0.0512 in.)
	Input shaft thrust washer thickness	STD Minimum	2.00 mm (0.0787 in.) 1.90 mm (0.0748 in.)
	Clutch thrust washer thickness	STD Minimum	1.25 mm (0.0492 in.) 1.15 mm (0.0453 in.)
	Output shaft (bore)	STD Maximum	12.00 mm (0.4724 in.) 12.03 mm (0.4736 in.)
	Output shaft (Diameter)	STD Minimum	28.00 mm (1.1024 in.) 27.60 mm (1.0866 in.)
	Brake case bore	STD Maximum	27.76 mm (1.0929 in.) 27.82 mm (1.0953 in.)
	Drive shaft diameter	Minimum A Minimum B	11.86 mm (0.4669 in.) 11.96 mm (0.4709 in.)
	Clutch input shaft diameter	STD	11.96 mm (0.4709 in.)
	Gear case cover bore	STD Maximum	12.00 mm (0.4724 in.) 12.03 mm (0.4736 in.)
	Planetary gear No.3 bore	STD Maximum	28.00 mm (1.1024 in.) 28.05 mm (1.1043 in.)
	Wire diameter	Minimum	7.5 mm (0.295 in.)
Winch motor	Commutator (circle runout)	STD Maximum	0.05 mm (0.0020 in.) or less 0.2 mm (0.008 in.)
	Commutator (diameter)	STD Minimum	43 mm (1.69 in.) 41 mm (1.61 in.)
	Commutator (undercut depth)	STD Minimum	0.5 – 0.8 mm (0.020 – 0.031 in.) 0.2 mm (0.008 in.)
	Brush (length)	STD Minimum	22 mm (0.87 in.) 15 mm (0.59 in.)
	Brush spring installed load	STD	1.8 ± 0.2 (4.0 ± 0.4 lb, 18 ± 0.2 N)