



ITEM NO.	DESCRIPTION	QTY.
1	SPINDLE HEAD MACH TL-3	1
2	SPKT PCGT 8M-112-60	1
3	RING RETAINER SPINDLE	1
4	SPINDLE CARTRIDGE	1
5	LOCATING PIN	1
6	O-RING 2-265 BUNA	1
7	STANDOFF 3/8 X 3.375 HEX 8-32 M/F ALUM	4
8	SPKT TIMING L-.375-40 SPINDLE	1
9	HAAS MAGNETIC ENCODER (SHAFTED)	1
10	TIMING BELT L-.500-30 300L050	1
11	SHCS 3/8-16 X 1 1/4	6
12	SHCS 3/8-16 X 3/4 ZINC PLATED	1
13	SHCS 3/8-16 X 3 1/4	6
14	SHCS 8-32 X 5/8	4
15	30-8344 OIL GEAR PUMP ASSY TL-3W	1
16	MOTOR MOUNT MACH TL-3W	1
17	BRACKET, ENCODER SPRING MOUNT	1
18	SPACER .281ID 1/2OD .60LG	3
19	FBHCS 8-32 X 3/8	2
20	WASHER 1/4 HARD 1/4ID X 5/8OD X 1/8 THK	11
21	HAAS MAGNETIC ENCODER	1
22	DRV BELT PCGT 8MGT-2240-21	2
23	SPINDLE EXTENSION TL-3 HT	1
24	SHCS 1/4-20 X 2 1/2	4
25	SSS 8-32 X 1/4 HALF DOG MCMaster 92505A	1
26	SHCS 10-32 X 1 1/2	1

SHEET 1 OF 1

DESCRIPTION

EFFECTIVE DATE

TL-3W SPINDLE ASSEMBLY 1800 RPM

NOV-2009

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