



Recommendations for Maintenance:

Please, note it is important to make sure the tool has clean, dry and lubricated air at the recommended pressure supplied to it. (Please consult the service manual for further instructions)

The pulse tool requires preventive maintenance like oil changes and have the parts inspected periodically. It is recommended to make the first preventive maintenance at 250,000 pulses-seconds or 6 months, whichever one occurs first. The tool's performance should be evaluated. The oil needs to be changed. Inspect all the soft parts of the pulse unit (the soft parts are referenced as the "Repair Kit" - see parts list page 2). The Repair Kit includes all the necessary parts and it is recommended to be performed every six months (unless parts are in good condition). If the tool fails before the 250,000 pulses-seconds then the pulse unit needs to be rebuilt, with the "Repair Kit" and "Service Kit" (see parts list page 2). Caution: prevailing torque, which makes the tool start pulsing early, reduces the life of the Oil & O-rings of the pulse unit. A pulse-second is not every second the tool is running, only when it's "pulsing" and applying torque. On typical applications the tool should run down freely until fastener is snug and then the tool starts pulsing until it reaches the preset torque. When operating the tool on the fastener, start counting once the tool begins pulsing. You can use a watch with a second hand and time it until the tool shuts-off. Use the information to calculate how many pulse-seconds the tool performs per application each day. Then perform some basic math to calculate the tool's maintenance schedule. Use this formula.

$$\# \text{ Pulsing Seconds} \div \text{Total of Pulsing Time} = \text{No Cycles}$$

NOTE: Please include the rework, reverse, or retightening time is involve on the operation to calculate the accurate pulsing time. Here is an example:

Pulsing Time = 2 seconds
Pulses- seconds recommended = 250,000

$$250,000 \text{ pulses-sec} \div 2 \text{ sec} = 125,000 \text{ cycles}$$

Using the information above, you can estimate the maintenance period for the tool by using this formula:

No of Fasteners	Pulsing Time per Fastener	No of Parts Assembled per Day	Calculation	Maintenance Period
7	2 seconds	300	$125,000 / (300 \times 7) = 59$	59 days

Index No.	Part No.	Description	Q'ty	Index No.	Part No.	Description	Q'ty
1	63-190-410	Greasing Screw	1	43	63-150S-305	Rear Plate	1
2	63-00-4153	O-Ring	1	44	63-00-2356	Ball Bearing	1
3	63-170S-201	Pulse Unit Housing	1	45	63-140S-310	Air Inlet Plate	1
4	63-140S-202	Bushing	1	46	63-305F-034	Spring	1
5	63-140S-424	Washer	1	47	63-IS40S-502	F/R Valve	1
6	63-170-401	Pulse Cylinder Seat	1	48	63-00-41146	O-Ring	1
7	63-00-41160	O-Ring	2	49	63-00-4121	O-Ring	1
8	63-00-41113	O-Ring	3	50	63-IS40S-312	Valve Washer	1
9	63-170-410	Greasing Screw	1	51	63-00-3824	Steel Ball	1
10	63-00-3318	Spring Pin	2	52	63-IS40S-313	Spring	1
11	63-170-403	Front Cover	1	53	63-IS40S-311	Valve	1
12	63-170-409	Back Up Ring	1	54	63-00-41125	O-Ring	1
13	63-00-2602	X-Ring	1	55	63-140S-309	Seat	1
14	63-170-408	Front Plate	1	56	63-00-0507	Screw	1
15EB	63-170-405-B	Anvil	1	57	63-140S-503	Regulator Knob	1
16B	63-170-452	Roller	2	58	63-170S-101	Motor Housing	1
17B	63-170-406-B	Drive Blade	2	59	63-140S-102	Hanger	1
18	63-170-407	Spring	2	60	63-140S-509	Bushing	1
19B	63-IS40-450	Block Valve	1	61	63-IS40S-510	Pin	1
20EC	63-180-411	Valve Screw	1	62	63-140S-504	Trigger	1
21EA	63-IS70-412-C	Valve	1	63	63-140S-108	Bushing	2
22	63-00-41130	O-Ring	1	64	63-00-3306	Spring Pin	1
23	63-00-3813	Steel Ball	2	65	63-140S-103	Housing Rubber	1
24EA	63-IS70S-425-C	Spring	1	66	63-00-41127	O-Ring	1
25	63-00-3436	Pin	1	67	63-140S-508	Bushing	1
26C	63-170-404-B	Pulse Cylinder	1	68	63-305C-021	Valve Stem	1
27	63-00-3435	Pin	2	69	63-140S-507	Spring	1
28	63-00-3407	Pin	2	70	63-140S-601	Muffler	1
29EA	63-IS70S-415-C	Rear Plate	1	71	63-140S-603	Exhaust Deflector	1
30	63-140S-423	Washer	1		63-140S-604A	Air Inlet 1/4"PF	
31C	63-00-41173	O-Ring	2	72	63-140S-604B	Air Inlet 1/4"PT	1
32C	63-IS40S-421	Pressure Valve	2		63-140S-604C	Air Inlet 1/4"NPT	
33B	63-IS130-314	Shut Off Stem	1	73	63-00-3509	Snap Ring	1
34EA	63-IS150-317	Spring	1	74C	63-170S-453	Spring	1
35	63-170-402	Lock Nut	1	75C	63-140S-454	Block Cap	1
36	63-170S-306	Lock Nut	1	76EC	63-180-422	Back Up Ring	1
37	63-00-2348	Ball Bearing	1	*	63-IS70SSK-MZ	Service kit :Index No- 14; 16B(2); 17B(2); 29EA; 42(9); 52; 67; 68; 69	
38	63-170S-302	Cylinder	1				
39	63-00-3324	Spring Pin	1	*	63-IS70SRK-MZ	Repair kit :Index No- 7(2); 8(2); 12; 13; 18(2); 22; 31C(2)	
40	63-00-3326	Spring Pin	1				
41	63-170S-303	Rotor	1				
42	63-170S-304	Rotor Blade	9	*	63-Pulse Tool Fluid, 125ml	Pulse Tool Fluid (125ml)	
					63-Pulse Tool Fluid, 1000ml	Pulse Tool Fluid (1000ml)	
*	63-IS70S-400ASM	Pulse unit : Index No- 6,7,8,9,10,11,12,13,14,15EB,16B,17B,18,19B,20EC,21EA,22,23,24EA,25,26C,27,28,29EA,31C,32C,35, 74C,75C,76EC					