



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 that 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 involved 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	63-00-0612	Plug	1	49	63-I150-305	Rear Plate	1
2	63-I150-201	Front Housing	1	50	63-00-2353	Ball Bearing (16003)	1
3	63-I150-202	Bushing	1	51	63-00-41200	O-Ring (Ø 57x Ø2)	2
4	63-I150-424	Washer	1	52	63-00-4171	O-Ring (Ø 36x Ø2)	1
5	63-I150-401	Pulse Cylinder Housing	1	53	63-IS150-307	Rear Cover	1
6	63-00-41198	O-Ring(Ø 47.5x Ø2)	2	54	63-IS130-524	Valve Seat	1
7	63-I150-458	Snap Ring	1	55	63-00-41138	O-Ring(Ø 28.3x Ø1.78)	1
8	63-I150-457	Washer	1	56	63-00-3824	Steel Ball(Ø 4)	1
9	63-I150-409	Back-Up Ring	1	57	63-IS130-313	Spring	1
10	63-00-2605	X-Ring	1	58	63-IS130-312	Washer	2
11	63-00-3426	Pin(Ø 3x 7L)	2	59	63-IS130-311	Valve	1
12	63-I150-408	Front Plate	1	60	63-IS130-518	Seat	1
13	63-I150-431	Back-Up Ring	1	61	63-IS150-101	Motor Housing	1
14	63-00-41156	O-Ring(Ø 3.5x Ø1.5)	1	62	63-00-3353	Spring Pin(Ø 5x 8L)	4
15	63-I150-411	Adjust Screw	1	63	63-I40S-102	Hanger	1
16	63-I150-407	Spring	2	64	63-00-41194	O-Ring(Ø 30x Ø2)	1
17	63-I150-410	Oil Plug	1	65	63-I130-104	Nut	1
18	63-00-41178	O-Ring(Ø 2.5x Ø1.5)	3	66	63-I150-504	Trigger	1
19	63-I150-405	Main Shaft	1	67	63-00-3308	Spring Pin(Ø 3x 18L)	1
20	63-I150-406	Drive Blade	2	68	63-00-0505	Screw(M3x6L)	2
21	63-I150-452	Roller	2	69	63-I150-503	Regulator Knob	1
22	63-IS40-450	Block Valve	1	70	63-00-3813	Steel Ball(Ø 1/8")	1
23	63-00-41199	O-Ring(Ø 1.8x Ø1.9)	1	71	63-I100-506	Spring	1
24	63-00-41113	O-Ring(Ø 2x Ø1.5)	2	72	63-IS150-502	F/R Valve	1
25	63-I150-459	Back-Up Ring	1	73	63-I150-501	Valve Sleeve	1
26	63-I150-455	Valve	1	74	63-00-41145	O-Ring(Ø 18x Ø1.5)	2
27	63-I150-453	Spring	1	75	63-00-4101	O-Ring(Ø 3x Ø1)	1
28	63-00-3432	Pin(Ø 4x 7L)	4	76	63-IS150-505	Valve Stem	1
29	63-I150-404	Pulse Cylinder	1	77	63-I150-507	Spring	1
30	63-I150-454	Block Cap	1	78	63-I150-508	Bushing	1
31	63-IS150-412	Valve	1	79	63-00-3427	Pin(Ø2x 25L)	1
32	63-00-3829	Steel Ball(Ø 3.5)	1	80	63-00-41203	O-Ring(Ø 19x Ø2)	1
33	63-IS150-425	Spring	1	81	63-I150-601	Muffler	1
34	63-00-3428	Pin(Ø2x 6L)	1	82	63-I150-603	Exhaust Deflector	1
35	63-IS150-415	Rear Plate	1	83	63-IS100-609	Screw	1
36	63-00-41173	O-Ring(Ø 1.5x Ø1.5)	1		63-I150-604A	Air Inlet 1/4"-19PF	
37	63-IS40S-421	Pressure Valve	1	84	63-I150-604B	Air Inlet 1/4"-19PT	1
38	63-IS130-314	Shut Off Stem	1		63-I150-604C	Air Inlet 1/4"-18NPT	
39	63-IS150-317	Spring	1	85EB	63-I150-103	Housing Rubber	1
40	63-I150-423	Washer	1	×	63-I150-109FL	Tool Cover	1
41	63-I150-402	Lock Nut	1	×	63-IS150RK-MZ	Repair kit :Index No-	
42	63-I150-306	Lock Nut	1			6(2); 9; 10; 13; 14; 16(2);	
43	63-00-2354	Ball Bearing (6904)	1			18(2); 24; 25; 36	
44	63-I150-302	Cylinder	1	×	63-IS150SK-MZ	Service kit :Index No-	
45	63-00-3324	Spring Pin(Ø2x 5L)	1			12; 20(2); 21(2); 23;	
46	63-I150-304	Rotor Blade	9			35; 46(9); 57; 77; 78	
47	63-00-3361	Spring Pin(Ø3.5x 10L)	1	×	63-I40-451	Impulse Oil	
48	63-I150-303	Rotor	1				
×	63-IS150-400ASM	Pulse unit : Index No- 5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,24,25,26,27,28,29,30,31,32,33,34,35,36,37,41					