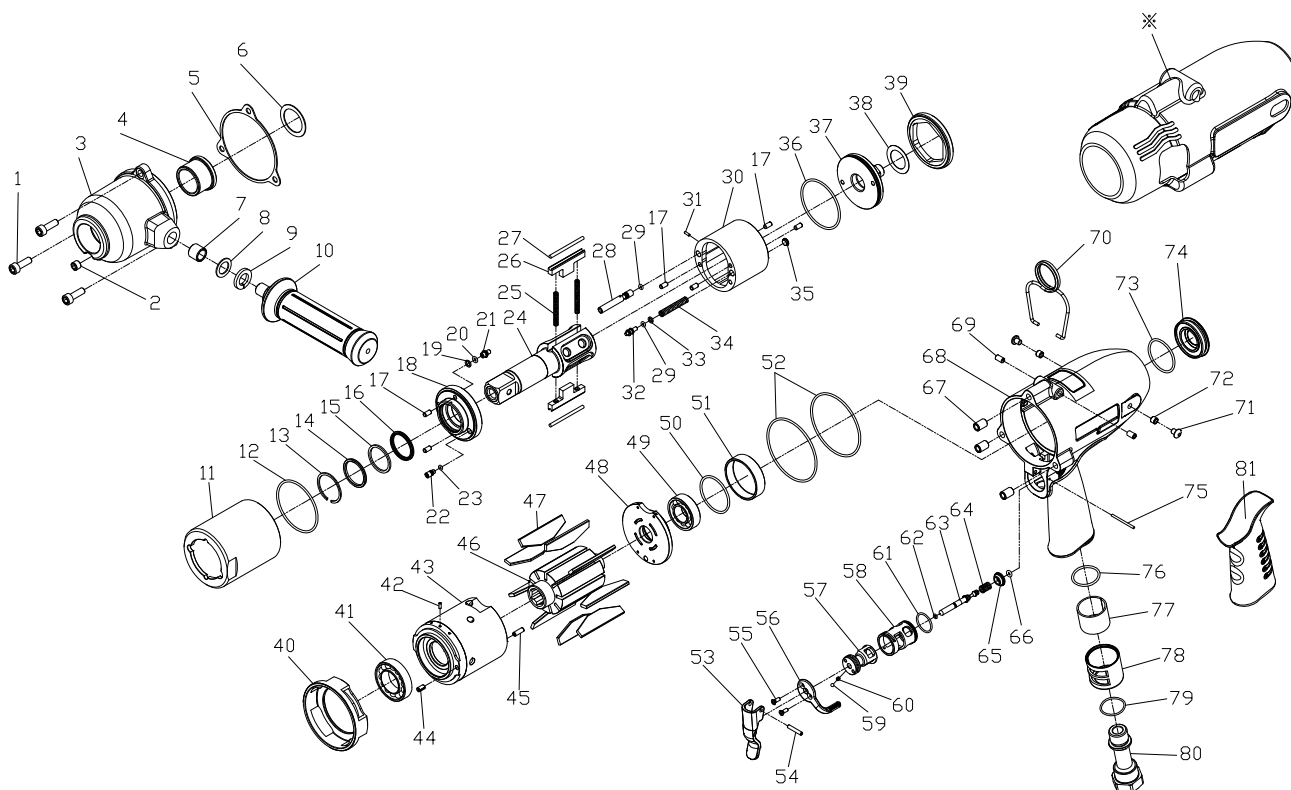




Recommendations for Maintenance:

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	63-00-0140	Screw	3	46	63-I180-303	Rotor	1
2	63-00-0612	Screw	1	47	63-I180-304	Rotor Blade	9
3	63-I180-201	Pulse Unit Housing	1	48	63-I180-305	Rear Plate	1
4	63-I180-202	Bushing	1	49	63-00-2382	Ball Bearing(6003)	1
5	63-I180-205	Washer	1	50	63-00-4171	O-Ring(Ø 36x Ø2)	1
6	63-I150-424	Washer	1	51	63-I180-307	Rear Cover	1
7	63-00-4313	Helicoil	1	52	63-00-41209	O-Ring(Ø 64.5x Ø2)	2
8	63-00-1514	Washer	1	53	63-I150-504	Trigger	1
9	63-00-1811	Spring Washer	1	54	63-00-3308	Spring Pin(Ø 3x 18L)	1
10	63-I180-206	Side Handle	1	55	63-00-0505	Screw(M3x6L)	2
11	63-I180-401	Pulse Cylinder Seat	1	56	63-I150-503	Regulator Knob	1
12	63-00-41207	O-Ring(Ø 52x Ø2)	1	57	63-IS150-502	F/R Valve	1
13	63-I150-458	Snap Ring	1	58	63-I150-501	Valve Sleeve	1
14	63-I150-457	Washer	1	59	63-00-3813	Steel Ball(Ø 1/8")	1
15	63-I150-409	Back-Up Ring	1	60	63-I100-506	Spring	1
16	63-00-2605	X-Ring	1	61	63-00-41145	O-Ring(Ø 18x Ø1.5)	1
17	63-00-3460	Pin(Ø4x 8L)	6	62	63-00-4101	O-Ring(Ø 3x Ø1)	1
18	63-I180-408	Front Plate	1	63	63-IS150-505	Valve Stem	1
19	63-I150-431	Back-Up Ring	1	64	63-I150-507	Spring	1
20	63-00-41156	O-Ring(Ø 3.5x Ø1.5)	1	65	63-I150-508	Bushing	1
21	63-I150-411	Valve Screw	1	66	63-00-41199	O-Ring(Ø 1.8x Ø1.9)	1
22	63-I150-410	Greasing Screw	1	67	63-00-4312	Helicoil	3
23	63-00-41113	O-Ring(Ø2x Ø1.5)	1	68	63-I180-101	Motor Housing	1
24	63-I180-405	Anvil	1	69	63-00-3353	Spring Pin(Ø 5x 8L)	2
25	63-I180-407	Spring	2	70	63-I40S-102	Hanger	1
26	63-I180-406	Drive Blade	2	71	63-00-1304	Screw	2
27	63-I180-452	Roller	2	72	63-00-4302	Helicoil	2
28	63-IS180-412	Valve	1	73	63-00-4135	O-Ring(Ø 32x Ø2)	1
29	63-00-41178	O-Ring(Ø 2.5x Ø1.5)	2	74	63-I180-104	Nut	1
30	63-I180-404	Pulse Cylinder	1	75	63-00-3461	Pin(Ø2x 30L)	1
31	63-00-3428	Pin(Ø2x 6L)	1	76	63-00-41166	O-Ring(Ø 24x Ø2)	1
32	63-I150-455	Valve	1	77	63-I180-601	Muffler	1
33	63-I150-459	Back-Up Ring	1	78	63-I180-603	Exhaust Deflector	1
34	63-I180-453	Spring	1	79	63-00-4158	O-Ring(Ø 22x Ø1.5)	1
35	63-I150-454	Block Cap	1		63-I180-604A	Air Inlet 3/8"-19PF	1
36	63-00-41208	O-Ring(Ø 49.5x Ø2)	1	80	63-I180-604B	Air Inlet 3/8"-19PT	1
37	63-I180-415	Rear Plate	1		63-I180-604C	Air Inlet 3/8"-18NPT	1
38	63-I150-423	Washer	1	81	63-I180-103	Housing Rubber	1
39	63-I180-402	Lock Nut	1	※	63-I180-109FL	Tool Cover	1
40	63-I180-319	Lock Washer	1	※	63-I180RK-MZ	Repair kit :Index No-	
41	63-00-2383	Ball Bearing(6905)	1			5;12;15;16;19;20;25(2);29(2);33;36	
42	63-00-3325	Spring Pin(Ø2x 6L)	1	※	63-I180SK-MZ	Service kit :Index No-	
43	63-I180-302	Cylinder	1			18;26(2);27(2);37;47(9);64;65;66	
44	63-00-3314	Spring Pin(Ø4x 8L)	1	※	Pulse Tool Fluid:	Item # Pulse Tool Fluid, 125ml	
45	63-00-3312	Spring Pin(Ø4x 12L)	1		Pulse Tool Fluid:	Item # Pulse Tool Fluid, 1000ml	
※	63-I180-400ASM	Pulse unit : Index No- 11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,39					