

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

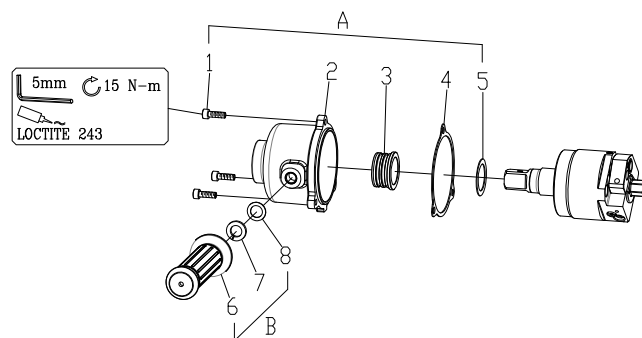
Pulses- seconds recommended = 250,000

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

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

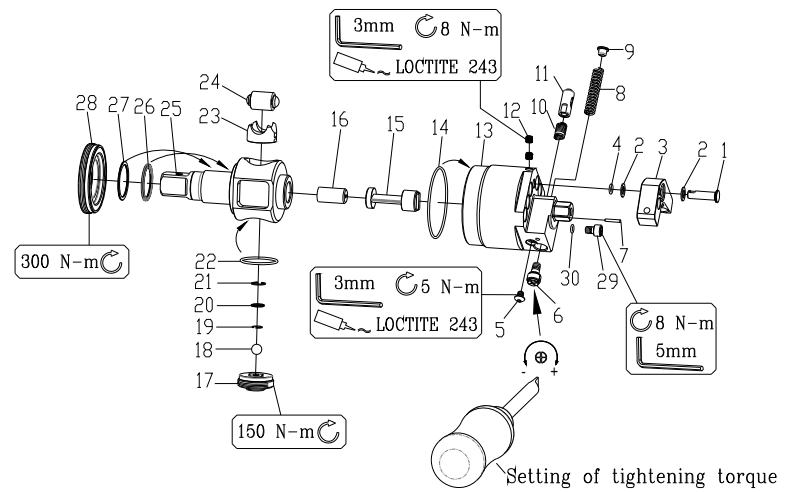
Pulse Unit Casing



	Index No	Part No	Description	Qty	Remark
A	1	63-00-0140	Cap Screw	3	M6x18L
	2	63-I200-201	Pulse Unit Housing	1	
	3	63-I200-202	Bushing	1	
	4	63-I200-205	Gasket	1	
	5	63-I200-424C	Washer	1	Axial gap: 0.8 , 0.9 , 1.0 mm
B	6	63-I180-206	Side Handle	1	
	7	63-00-1811	Spring Washer	1	M12
	8	63-00-1514	Washer	1	Ø20x Ø13x1t

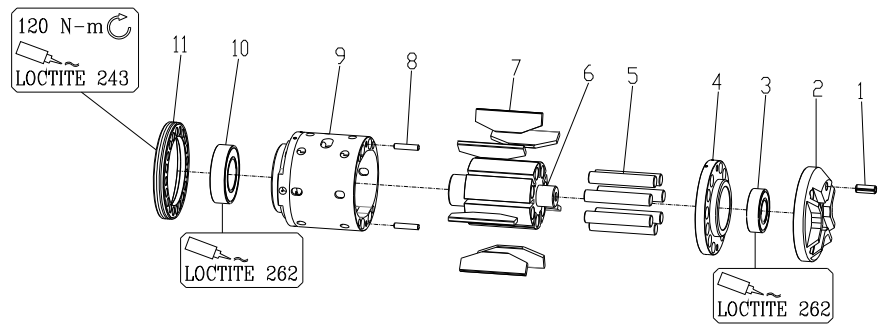
Pulse Unit

Part No. 63-IS200-400ASM



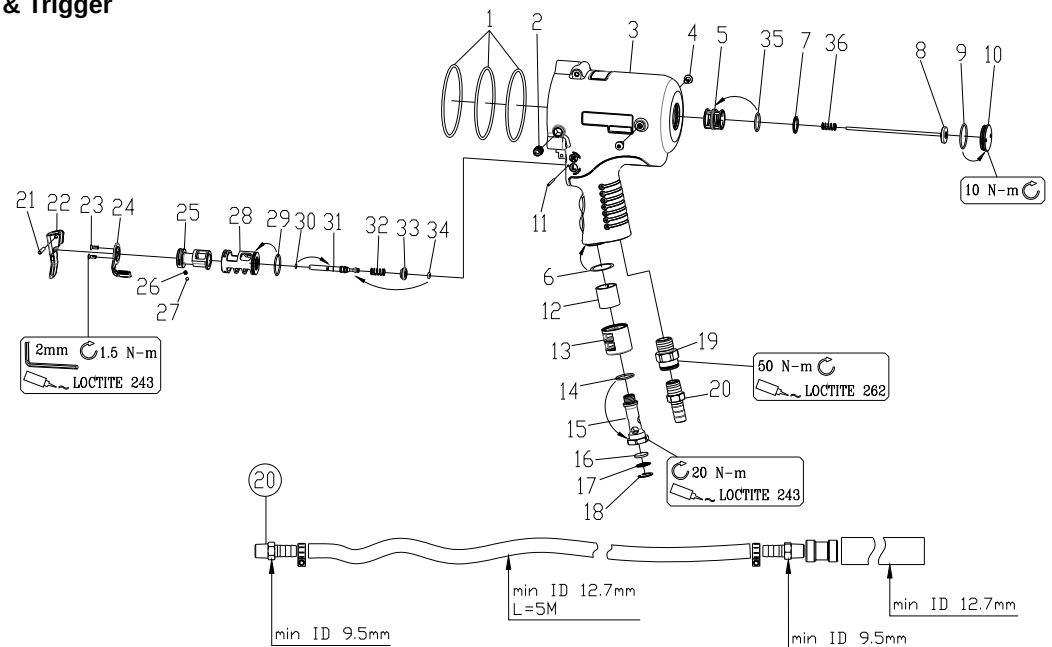
Index No	Part No	Description	Qty	Remark
1	63-IS200-474	Pin	1	
2	63-IS200-475	Washer	2	
3	63-IS200-473	Inertia Block	1	
4	63-00-41243	O-Ring	1	Ø6 x Ø 1.5
5	63-00-1304	Round Head Bolt	1	M5x6L
6	63-IS200-478	Adjusting Screw	1	
7	63-00-3354	Spring Pin	1	Ø 2 x14L
8	63-IS200-481	Adjusting Spring	1	
9	63-IS200-477	Spring Setter	1	
10	63-IS200-484	Spring	1	
11	63-IS200-482	Pin	1	
12	63-IS200-493	Set Screw	2	
13	63-IS200-404	Pulse Cylinder	1	
14	63-00-41216	O-Ring	1	AS036/ Ø 60 x Ø 1.78
15	63-IS200-479	Roll Shaft	1	
16	63-I200-490	Roller Plug	1	
17	63-IS200-476	Locking Nut	1	
18	63-00-3832	Steel Ball	1	Ø 9
19	63-I200-494	Collar	1	
20	63-I200-469	Washer	1	
21	63-00-3118	Snap Ring	1	R12
22	63-00-41136	O-Ring	1	AS25/ Ø 29.87 x Ø 1.78
23	63-I200-467	Piston	1	
24	63-I200-468	Roller	1	
25	63-IS200-405	Anvil	1	
26	63-00-2606	X-Ring	1	Ø 28.17 x Ø3.53
27	63-I200-409	Back Up Ring	1	
28	63-I200-402	Nut	1	
29	63-00-0147	Cap Screw	1	M6x8L
30	63-00-41179	O-Ring	1	Ø4.5x Ø 1.5

Motor Unit



Index No	Part No	Description	Qty	Remark
1	63-00-3370	Spring Pin	1	Ø6 x16L
2	63-I200-310	Air Inlet Plate	1	
3	63-00-2385	Ball Bearing	1	6003 / Ø17 x Ø35 x10
4	63-I200-305	Rear Plate	1	
5	63-I200-322	Roll Plug	7	
6	63-I200-303	Roter	1	
7	63-I200-304	Rotor Blade	7	
8	63-00-3330	Spring Pin	2	Ø4 x20L
9	63-I200-302	Cylinder	1	
10	63-00-2386	Ball Bearing	1	6005 / Ø25x Ø47 x12
11	63-I200-306	Nut	1	

Housing Unit and Valve & Trigger



Index No	Part No	Description	Qty	Remark
1	63-00-41218	O-Ring	3	AS151 / Ø75.87x Ø2.62
2	63-00-0616	Set Screw	1	M10x8L
3	63-I200-101	Housing	1	
4	63-00-1304	Round Head Bolt	2	M5x6L
5	63-IS200-518	Seat	1	
6	63-00-41145	O-Ring	1	Ø18x Ø 1.5
7	63-IS200-312	Valve Washer	1	
8	63-IS200-311	Valve	1	
9	63-00-41128	O-Ring	1	Ø25x Ø 1.5
10	63-I200-104	Nut	1	

	Index No	Part No	Description	Qty	Remark
	11	63-00-3461	Pin	1	Ø2x30L
	12	63-I200-601	Muffler	1	
	13	63-I200-603	Exhaust Deflector	1	
	14	63-00-41111	O-Ring	1	Ø16x Ø 1.5
	15	63-I200-610	Air Inlet Bushing	1	
	16	63-I200-605	Muffler	1	
	17	63-I200-606	Net	1	
	18	63-00-3103	Snap Ring	1	R16
		63-I200-604A	Air Inlet		3/8"PF-19
	19	63-I200-604B	Air Inlet	1	3/8"PT-19
		63-I200-604C	Air Inlet		3/8"NPT-18
	20	63-277-033	Nipple	1	3/8"Px1/2
	21	63-00-3308	Spring Pin	1	Ø3x18L
	22	63-I150-504	Trigger	1	
	23	63-00-0505	Screw	2	M3x6L
	24	63-I150-503	Regulator Knob	1	
	25	63-IS200-502	F/R Valve	1	
	26	63-I100-506	Spring	1	
	27	63-00-3813	Steel Ball	1	Ø 1/8"
	28	63-I200-501	Valve Sleeve	1	
	29	63-00-41146	O-Ring	1	Ø21x Ø 1.5
	30	63-00-4101	O-Ring	1	Ø3x Ø 1
	31	63-IS200-505	Valve Stem	1	
	32	63-I150-507	Spring	1	
	33	63-I150-508	Bushing	1	
	34	63-00-41199	O-Ring	1	Ø1.8x Ø 1.9
	35	63-00-41244	O-Ring	1	Ø19x Ø 1.5
	36	63-IS180-317	Spring	1	

Repair Kit –Pulse unit Casing / Pulse unit / Motor Unit / Housing Unit and Valve and Trigger

Part No. 63-IS200RK

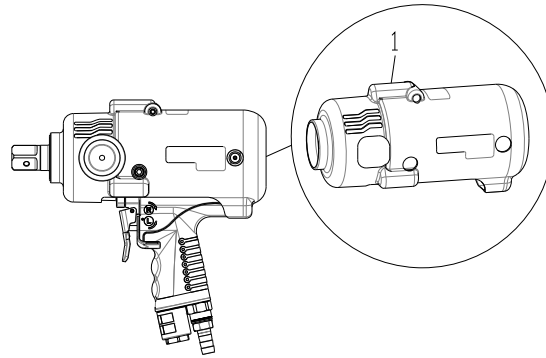
	Index No	Part No	Description	Qty	Remark
	1	63-I200-205	Gasket	1	
	2	63-00-41216	O-Ring	1	AS036/ Ø 60 x Ø 1.78
	3	63-00-2606	X-Ring	1	Ø 28.17 x Ø3.53
	4	63-I200-409	Back Up Ring	1	
	5	63-00-41179	O-Ring	1	Ø4.5x Ø 1.5

Service Kit

Part No. 63-IS200SK

	Index No	Part No	Description	Qty	Remark
	1	63-IS200-473	Inertia Block	1	Pulse Unit
	2	63-00-41243	O-Ring	1	Ø6 x Ø 1.5/ Pulse Unit
	3	63-00-41136	O-Ring	1	AS25/ Ø 29.87 x Ø 1.78/ Pulse Unit
	4	63-I200-310	Air Inlet Plate	1	Motor Unit
	5	63-I200-304	Rotor Blade	7	Motor Unit
	6	63-00-2386	Ball Bearing	1	6005 / Ø25x Ø47 x12 / Motor Unit
	7	63-00-41218	O-Ring	3	AS151 / Ø75.87x Ø2.62 / Housing Unit and Valve and Trigger
	8	63-00-41145	O-Ring	1	Ø18x Ø 1.5 / Housing Unit and Valve and Trigger
	9	63-00-41128	O-Ring	1	Ø25x Ø 1.5 / Housing Unit and Valve and Trigger
	10	63-I200-601	Muffler	1	Housing Unit and Valve and Trigger
	11	63-00-41111	O-Ring	1	Ø16x Ø 1.5 / Housing Unit and Valve and Trigger
	12	63-I200-605	Muffler	1	Housing Unit and Valve and Trigger
	13	63-00-41146	O-Ring	1	Ø21x Ø 1.5 / Housing Unit and Valve and Trigger
	14	63-00-4101	O-Ring	1	Ø3x Ø 1 / Housing Unit and Valve and Trigger
	15	63-00-41199	O-Ring	1	Ø1.8x Ø 1.9 / Housing Unit and Valve and Trigger
	16	63-IS180-317	Spring	1	Housing Unit and Valve and Trigger
	17	63-00-41244	O-Ring	1	Ø19x Ø 1.5 / Housing Unit and Valve and Trigger

Service Tools



Index No	Part No	Description	Qty	Remark
1	63-I200-109	Tool Cover	1	
2	63-01-0507	Impulse Oil	1000ml	