



**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 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                           | $125,000 / (300 * 7) = 59$ | 59 days            |

| Index No. | Part No.       | Description         | Qty | Index No. | Part No.                   | Description                            | Qty |
|-----------|----------------|---------------------|-----|-----------|----------------------------|--|-----|
| 1         | 63-I100-410    | Greasing Screw      | 1   | 45        | 63-00-41135                | O-Ring                                 | 1   |
| 2         | 63-00-4153     | O-Ring              | 1   | 46        | 63-IS40-307                | Rear Cover                             | 1   |
| 3         | 63-I60S-201    | Pulse Unit Housing  | 1   | 47        | 63-IS40-524                | Valve Seat                             | 1   |
| 4         | 63-I40S-202    | Bushing             | 1   | 48        | 63-00-41145                | O-Ring                                 | 2   |
| 5         | 63-I40S-424    | Washer              | 1   | 49        | 63-IS40S-312               | Washer                                 | 1   |
| 6         | 63-I60S-401    | Pulse Cylinder Seat | 1   | 50        | 63-00-3824                 | Steel Ball                             | 1   |
| 7         | 63-I70-410     | Greasing Screw      | 1   | 51        | 63-IS40S-313               | Spring                                 | 1   |
| 8         | 63-00-41113    | O-Ring              | 4   | 52        | 63-IS40S-311               | Valve                                  | 1   |
| 9         | 63-00-3318     | Spring Pin          | 2   | 53        | 63-IS40-518                | Seat                                   | 1   |
| 10        | 63-00-41127    | O-Ring              | 2   | 54        | 63-IS60-101                | Motor Housing                          | 1   |
| 11EA      | 63-I40S-403-B  | Front Cover         | 1   | 55        | 63-I40S-108                | Bushing                                | 4   |
| 12        | 63-00-2602     | X-Ring              | 1   | 56        | 63-IS100-609               | Screw                                  | 1   |
| 13        | 63-I40S-411    | Valve Screw         | 1   | 57        | 63-I40S-102                | Hanger                                 | 1   |
| 14        | 63-00-3435     | Pin                 | 2   | 58        | 63-00-41146                | O-Ring                                 | 1   |
| 15        | 63-I40S-408    | Front Plate         | 1   | 59        | 63-00-4169                 | O-Ring                                 | 1   |
| 16        | 63-IS60S-405   | Anvil               | 1   | 60        | 63-I40-104                 | Nut                                    | 1   |
| 17B       | 63-I60S-406-B  | Drive Blade         | 2   | 61        | 63-I40-504                 | Trigger                                | 1   |
| 18B       | 63-I60S-452    | Roller              | 2   | 62        | 63-00-3354                 | Spring Pin                             | 1   |
| 19        | 63-I40S-407    | Spring              | 2   | 63        | 63-00-0505                 | Screw                                  | 2   |
| 20B       | 63-IS40-450    | Block Valve         | 1   | 64        | 63-I100-503                | Regulator Knob                         | 1   |
| 21EA      | 63-IS60S-412-C | Valve               | 1   | 65        | 63-00-4101                 | O-Ring                                 | 1   |
| 22        | 63-00-41130    | O-Ring              | 1   | 66EA      | 63-IS40-505B               | Valve Stem                             | 1   |
| 23        | 63-00-3813     | Steel Ball          | 2   | 67EA      | 63-I100-508B               | Bushing                                | 1   |
| 24EA      | 63-IS60S-425-C | Spring              | 1   | 68EA      | 63-00-41199                | O-Ring                                 | 1   |
| 25C       | 63-I60S-404-B  | Pulse Cylinder      | 1   | 69EA      | 63-I40-507B                | Spring                                 | 1   |
| 26        | 63-00-3436     | Pin                 | 1   | 70        | 63-I100-506                | Spring                                 | 1   |
| 27        | 63-00-3407     | Pin                 | 2   | 71        | 63-IS40-502                | F/R Valve                              | 1   |
| 28EA      | 63-IS40S-415-C | Rear Plate          | 1   | 72        | 63-I40-501                 | Valve Sleeve                           | 1   |
| 29C       | 63-00-41173    | O-Ring              | 2   | 73        | 63-00-41111                | O-Ring                                 | 2   |
| 30C       | 63-IS40S-421   | Pressure Valve      | 2   | 74        | 63-I40-601                 | Muffler                                | 1   |
| 31        | 63-IS60-314    | Shut Off Stem       | 1   | 75        | 63-I40-603                 | Exhaust Deflector                      | 1   |
| 32        | 63-IS40S-317   | Spring              | 1   |           | 63-I40-604A                | Air Inlet 1/4"-19PF                    |     |
| 33        | 63-I40S-423    | Washer              | 1   | 76        | 63-I40-604B                | Air Inlet 1/4"-19PT                    | 1   |
| 34        | 63-I40S-402    | Lock Nut            | 1   |           | 63-I40-604C                | Air Inlet 1/4"-18NPT                   |     |
| 35        | 63-I40S-306    | Lock Nut            | 1   | 77        | 63-I100-511                | Pin                                    | 1   |
| 36        | 63-00-2348     | Ball Bearing        | 1   | 78C       | 63-I60S-453                | Spring                                 | 1   |
| 37        | 63-00-3324     | Spring Pin          | 1   | 79C       | 63-I40S-454                | Block Cap                              | 1   |
| 38        | 63-I60-302     | Cylinder            | 1   | 80EA      | 63-I40-409                 | Back-Up Ring                           | 1   |
| 39        | 63-00-3356     | Spring Pin          | 1   | ※         | 63-IS60RK- E05A            | Repair kit :Index No-                  |     |
| 40        | 63-I60S-303    | Rotor               | 1   |           |                            | 8(2); 10(2); 12;19(2); 29C(2);80EA     |     |
| 41        | 63-I60S-304    | Rotor Blade         | 9   | ※         | 63-IS60SK-E05A             | Service kit :Index No-                 |     |
| 42        | 63-I40-305     | Rear Plate          | 1   |           |                            | 15; 17B(2); 18B(2); 22; 28EA;<br>41(9) |     |
| 43        | 63-00-2356     | Ball Bearing        | 1   |           |                            | 51; 67EA; 68EA; 69EA                   |     |
| 44        | 63-00-41144    | O-Ring              | 2   | ※         | 63-IS60S-400ASM            | Pulse Unit                             |     |
|           |                |                     |     |           | 63-01-0501FL               | Accessories Kits Included              |     |
|           |                |                     |     |           | 63-Pulse Tool Fluid, 125ml | Pulse Tool Fluid, 125ml                |     |