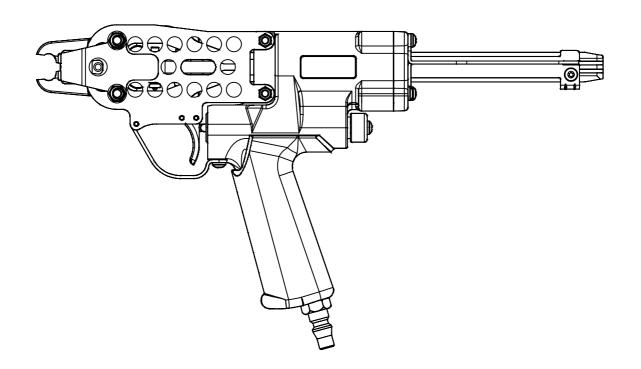
OPERATING INSTRUCTIONS AND PARTS MANUAL

MODEL SC7

C-Ring





CAREFULLY READ THIS MANUAL BEFORE OPERATING TOOL

TOOL SPECIFICATIONS

| MODEL OF TOOL | |
|--|--------------------------|
| TOOL LENGTH | 7.36" (187 mm) |
| TOOL HEIGHT | . 12.60" (320 mm) |
| TOOL WIDTH | 3.42" (87 mm) |
| WEIGHT (WITHOUT FASTENERS) | 3.2 lbs (1.45 kg) |
| AIR INLET | |
| COMPRESSED AIR: | |
| Maximum permissible operating pressure | . 110 PSIG (7.5 bar) |
| Recommended operating pressure range | . 80 100 psi (5.5 7 bar) |
| AIR CONSUMPTION | . 0.052 scfm with 25 |
| | nails per minute |
| | @ 90 psi (6.2 bar) |
| Noise dB(A): | |

A-weighted sound pressure level LpA...... 82.31 dB(A) Measurement uncertainty: 3dB

Vibration (m/s²):

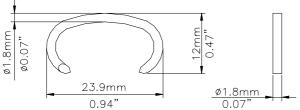
Measurement uncertainty: 1.5 m/s²

Warning:

The vibration emission during actual use of the power tool can differ from the declared total value depending on the ways in which the tool is used; and of the need to identify safety measures to protect the operator that are based on an estimation of exposure in the actual conditions of use (taking account of all parts of the operation cycle such as the times when the tool is switched off and when it is running idle in addition to the trigger time).

List of factonors for SC7

| List of fasteriers for Ser . | | | | | | | |
|------------------------------|----------------|-----------------|----------|--|--|--|--|
| Crown | Shank Height | Shank Dia. | MAGAZINE | | | | |
| 23.9 mm , 0.94 " | 12 mm , 0.47 " | 1.8 mm , 0.07 " | 100 pcs | | | | |



Foreword:

This pneumatic C-ring tool is designed for using C rings. Its well balanced, ergonomic, comfort non-slip cushioned grip and heavy duty driving ensure C ring closure to different sizes and types of round shape. This C ring tool is best fitted in specialty applications for instance automotive, bedding, furniture, fencing and wires.

Suitable applications:

Bedding, cage, lobster pot, wire and wire like applications, automotive seating cover, upholstery foam secured to frame, attaching labels, training plant, cords, bag closure, cargo nets, small rope and many more....

C-ring tools are ideal for applications where needs tying, fastening and tightening. Not suitable for stapling or nailing into concrete, masonry bricks or steel. Do not fire if nails are jammed, as this will cause damage to the C-ring tool.



Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury

/ WARNING

Indicates an potentially hazardous situation which, if not avoided, will result in death or serious injury.



Alerts the operator to useful information.

SAFETY INSTRUCTIONS

DANGER

- 1. Read this manual and understand all safety instructions before operation the tool. If you have any questions, please contact our authorized representatives.
- 2. Only those fasteners listed in the operating instructions may be used in the fastener drivina tools.
- 3. Only the main energy and the lubricants listed in the operating instructions may be used.
- 4. Fastener driving tools equipped with contact actuation or continuous contact actuation, marked with the symbol "Do not use on scaffoldings, ladders", shall not be used for specific application for example:
 - when changing one driving location to another involves the use of scaffoldings, stairs, ladders, or ladder alike constructions, e.g. roof laths,
 - closing boxes or crates.

fitting transportation safety systems e.g. on vehicles and wagons.

- 5. For the maintenance of fastener driving tools, only spare parts specified by the manufacturer or his authorized representative shall be used.
- 6. Repairs shall carried out by agents authorized by the manufacturer or by other specialists, having due regard to the information given in the operating instruction.
- 7. Stands for mounting the fastener driving tools to a support for example a work table shall be designed and constructed by the stand manufacturer in such a way that the fastener driving tool can be safely fixed for the intended use, thus for example avoiding damage, distortion or displacement.
- 8. Fastener driving tools operated by compressed air shall only be connected to compressed air lines where the maximum allowable pressure cannot be exceed by a factor of more than 10%, which can for example be achieved by a pressure reduction valve which includes a downstream safety valve.
- 9. When using fastener driving tools operated by compressed air, particular attention must be paid to avoid exceeding the maximum allowable pressure.
- 10. When using fastener driving tools operated by compressed air should only be operated at the lowest pressure required for the work process at hand, in order to prevent unnecessarily high noise levels, increased wear and resulting failures.
- 11. Hazards caused by fire and explosion when using oxygen or combustible gases for operating compressed air operated fastener driving tools.
- 12. Carry the fastener driving tool at workpiece using only the handgrip, and never with the trigger actuated. Never carry the tool by the hose or pull the hose to move the tool.



13. Disconnect the tool from air supply before cleaning jams, servicing, adjusting, and during non-operation.



14. Wear eye protection.



15. Do not use a check valve or any other fitting which allows air to remain in the tool.



16. Do not place your hand or any part of your body in the fastener discharge area of the tool when connecting or disconnecting air supply.



17. Never point tool at yourself or at any other person.

AIR SUPPLY AND CONNECTION



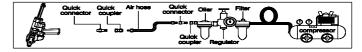
⚠ NOTE

Many air tool users find it convenient to use oiler to help provide oil circulation through tool and increase the efficiency and useful life of the tool. Check oil level in the oiler daily.



Many air tool user find it convenient to use a filter to remove liquid and impurities which can rust or wear internal parts of the tool. A filter also increase the efficiency and useful of the tool. The filter must be checked on a daily basis and if necessary drained. For better performance, install a 3/8" quick connector (1/4" NPT threads) with an inside diameter of .315" on your tool and a 3/8" quick coupler on the air hose.

The following illustration shows the correct mode of connection to the air supply system which will increase the efficiency and useful life of the tool.



LUBRICATION AND MAINTENANCE



№ NOTE

Disconnect the air supply from the tool before lubricating.

Your tool requires lubrication before you use it for the first time.



Wipe off excessive oil at the exhaust. Excessive oil will damage O-rings of tool. If in-line oiler is used, manual lubrication through the air inlet is not required on a daily basis.



Turn the tool so the inlet is facing up and put one drop of high speed spindle oil, UNOCAL RX22, or 3-IN-1 oil into air inlet. Never use detergent oil or additives. Operate the tool briefly after adding

LOADING THE TOOL

⚠ WARNING

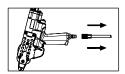


Do not place your hand or any part of your body in the fastener discharge area of the tool when connecting or disconnecting air supply.

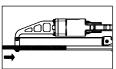


⚠ WARNING

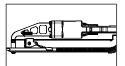
Never point any operational fastener driving tool at yourself or at any other person.



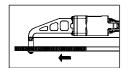
1. Disconnect air hose



2. Depress the magazine latch. Pull back on the magazine cover



3. Insert a stick of fasteners into the magazine. Make sure the pointed ends of the fasteners are loaded with the points downward. Also make sure fasteners are not dirty or damaged.



4. Push the magazine cover forward until the latch

OPERATING THE TOOL

WARNING



Protect your eyes and ears. Wear z87.1 safety glasses with side shields. Wear hearing protection. Employers and users are responsible for ensuring the user or anyone near the tool wear this safety protection.



NOTE



Check and replace any damaged or worn components on the tool. The safety warning labels on the tool must also be replaced if they are not legible.



1. Add a few drops of UNOCAL RX22 or 3-in-1 oil into the air inlet. (See Fig. 1)

2. Attach a high flow quick connect fitting to the tool. (See Fig. 2)

- 3. Empty the magazine.



Fig.2

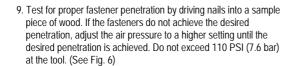
4. Connect the tool to an air compressor using a 3/8" I.D hose. Make sure the hose has a rated working pressure exceeding 200 PSI (13.8bar) and a female guick coupler. (See Fig. 3)



- 5. Regulate the air pressure to obtain 70 PSI (4.8 bar) at the tool. (See Fig. 4)
- 6. Disconnect the air supply from the tool.



- 7. Load fasteners into your tool following the instructions in this manual. (See Fig. 5)
- 8. Reconnect the air supply to the tool.



CLEARING A JAM FROM THE TOOL

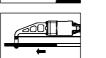
∕N WARNING



Disconnect the tool from air compressor before adjusting, clearing jams, servicing, relocating and during non-operation.



1. Fastener jammed in fastener discharge area: Disconnect tool from air hose. Grab jammed fastener with pliers and remove.



2. Fastener jam inside magazine: Disconnect air tool from air hose. Pull back on fastener pusher until locked. Removed jammed fastener. Release fastener pusher.

CLEANING THE TOOL



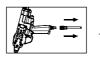


Never use gasoline or other flammable liquids to clean the tool. Vapors in the tool will ignite by a spark and cause the tool to explode and result in death or serious personal injury.





Solvents used to clean the nose of the tool and contacr safety trip mechanism may soften the tar on the shingles and cause the buildup to be accelerated. Make sure to dry the tool thoroughly after cleaning and before operating the tool again.



1. Disconnect the air supply from the tool.

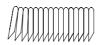


2. Remove tar buildup with kerosene #2 fuel oil or diesel fuel. Do not allow solvent to get into the cylinder or damage may occur. Dry off the tool completely before use.

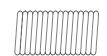
C"RING

Hogringers are designed to operate with rings manufactured within standard tolerances. As can be seen in the preceding pages, visibly defective rings can be the cause of many ring forming troubles.

Flared Rings In A Strip



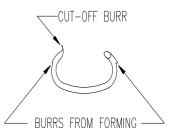
Rings Skewed On A Strip



Rings Out Of Line On A Strip

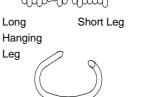






TWISTED

CUT-OFF BURR







CORRECTING AIR LEAKS IN TOOLS

The source of air leakage is most commonly the throttle assembly or the liner housing seal. The procedure will assist the repairman is solving this problem quickly

The throttle is basically a pair of two-way valve that divert air in front of, or behind the piston to crimp a ring or load a ring in the jaws respectively. The figures below show the air routings for both positions.

Follow the disassembly instructions and replace all o-ring.

Verify that the trigger contact area is not worn. If worn, the valve will not cycle completely(replace the trigger)

Follow the re-assemble and adjustment instructions.

If the air leak persists, inspect the piston, piston o-ring, piston rod bushing and bushing o-ring. Replace if any appear worn.

If the tool still leaks air, the throttle valve bushing or piston liner may be leaking. Have tool serviced at your dealers.

To Disassemble:

- 1. Remove front sub-assembly from housing
- 2. Remove air deflector parts (#1, #2)
- 3. Loosen set screws (#15)on both ends
- 4. Remove rear valve seat(#3)
- 5. Remove throttle spring and locator parts(#4,#5)
- 6. Remove front valve seat(#13) and throttle stem(#14) using a wrench.
- 7. Using two 3mm Allen wrenches, unscrew throttle valve screws(#6) to remove valve unit. Hint: Hold housing so the the valve is vertical to help prevent loosing parts.
- One valve screw will remain with other valve parts on spacer(#12), and can be disassembled after removal from housing.

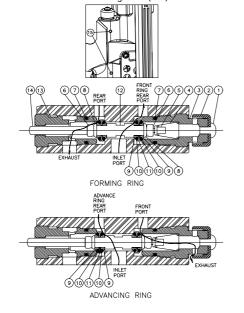
To Re-assemble

- Assemble one side of the o-ring support assemble (#6, #8, #9, #10, #11, #10 and #9) on spacer(#12). The chamfer on both washer(#8) should be installed, with chamfer side against cap screw head(#7)
- Hold housing vertically and install o-ring support assembly with spacer into bushing from the top.
- Holding cap screw with an Allen wrench, bring second o-ring support assemble(mounted on screw(#7)) in front opposite side and complete valve assembly. The valve should have free motiom od travel of about (2.5mm).
- 4. Insert valve spring locator and spring(#5 and #4) into the socket head cap screw(#7) int the rear of the valve port.
- 5. Screw rear seat with lubricated o-ring (#3 and #7) into rear of the valve port.
- Insert throttle stem(#14) into front valve seat(#13) so that the rounded end is out and slowly screw front valve seat with lubricated o-ring(#7) into front of the valve port.
- Leave trigger guard loose for adjusting the valve. See throttle valve adjustment procedure for proper valve adjustment instructions.

Throttle valve adjustment instruction

Follow these steps after complete tool assembly in order to minimize the time and effort required for optimum throttle valve adjustment.

- 1. Using the valve stem(#14), slowly screw in the front valve seat(#13) until it bottom, then back it out 1-1/2 turns
- 2. Do the same with the rear valve seat(#3)
- Attach an air line and fully depress the trigger. Air Should Leak OUT OF THE REAR VALVE SEAT. While depressing the trigger, slowly turn in the rear valve seat(#3) until the air stops leaking.
- Release the trigger. AIR SHOULD LEAK OUT OF THE HANDLE. Place a 5mm wrench on the trigger valve stem air stops leaking from the handle.
- Gently depress the trigger. Air should flow evenly from the rear exhaust to the handle exhaust.
- 6. The valve should now be adjusted-test the tool.
- 7. Tighten the front and rear valve seat locking screw(#15) and re-test the tool.

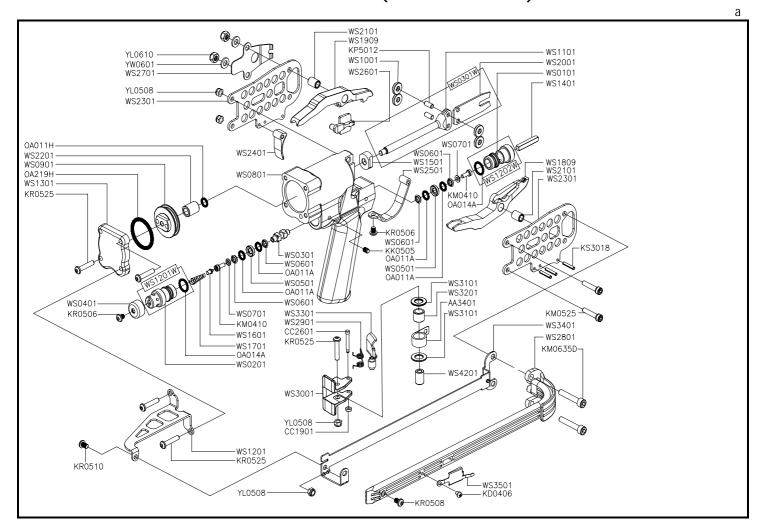


TROUBLESHOOTING

Stop using the tool immediately if any of the following problems occur. Serious personal injury could. Any repairs or replacements must be done by a qualified person or an authorized service center only.

| authorized service center only. | | <u>'</u> |
|---|---|--|
| PROBLEM | CAUSE | SOLUTION |
| | Latch worn Wrong latch used(too short) | Replace latch Verify and replace latch |
| | Latch spring broken Wrong piston rod(too short) | Replace latch spring Verify and replace piston rod |
| Inside diameter of ring too large after clinching | Low power 1.air pressure set too low | Verify pressure 1 check air pressure setting (operator |
| | 2.air leaks in supply hose | manual) 2. Replace air supply hose |
| | 3.air leaks in supply nose | 3. See Throttle valve adjustment |
| | 4. Throttle valve not adjusted properly | instruction 4.Adjust throttle valve properly Verify |
| | Wrong jaws used | and replace jaws Replace jaws |
| | Worn Jaws(helix, cam surface, bolt holes, jaw bushings Worn rollers | Replace rollers Verify and replace rollers |
| | Wrong rollers- 1.wire too hard | A further ring test to be done please return sample of rings to your dealers. |
| | 2.rough surface 3.cut-off burrs | |
| Inside diameter of ring too small after clinching | | |
| (\cap) | Wrong jaws Jaw stops worn or polished off | Verify and replace jaws Replace jaws |
| 9 | | |
| Ring point not entering opposite jaw | Tip of jaw broken off Mismatched jaws- | Replace jaws Verify and replace jaws |
| | 1.jaws should be replaced only in pairs Defective rings- | |
| | 1.Points not equal 2.Ring not symmetrical | A further ring test to be done please return sample of rings to your dealers. |
| Figure A | 3.Cut-off burrs Helix in jaw "A" worn so that it dose not properly guide | Correct by chamfering the tip of helix |
| | the ring point into the rotating helix in jaw "B" as shown Rings only curling in one jaw | that the ring is entering as shown in the shaded area in figure "C" |
| î Cert î | 3. 2 2 0.10 Jun | Replace jaws |
| Figure B | | |
| _^harri | | |
| Chamfer | | |
| View A-A | | |
| Figure C | Latch worn | Replace latch |
| Ring tear drops instead of forming | Wrong latch(too short) Latch spring bent or broken(spring must hold latch tightly | Verify and replace latch Replace latch spring |
| | against end of side plate and against jaws) Feeder blade- | Feeder blade |
| (()) | 1.wrong feeder blade(too short) 2.Modified by customer | Verify and replace Do not modify parts |
| | 3.worn(rounded on leading edge) Wrong or worn side plate | 3.replace feeder blade |
| \\/ | Defective ring- 1.Burrs | Replace side plate |
| | 2.Twisted 3.Not symmetrical | A further ring test to be done please return sample of rings to your dealers. |
| | Magazine- 1.Damaged or bent | Magazine 1.Replace magazine |
| | Z.Too many shims (the shim which ring passes through magazine edge is too big, ring out of control) | Replace magazine Replace magazine |
| | 3. Too few shims (the shim which ring passes through | 4.Replace magazine |
| | magazine edge is too small, ring can not pass) 4.Worn magazine edge. | Replace magazine G.Tighten or replace mounting screw |
| Rings jam | Frequent jamming can cause the magazine edge bent and increase the magazine width. | |
| FRING GROOVE | 6.Loose or lost rear magazine mounting screw(magazine is not supported properly) | |
| | Pusher spring loose Feeder blade- | Adjust pusher spring Feeder blade |
| | Norn(holes, length, thickness, leading edge) Stroken | Replace feeder blade Replace feeder blade |
| | 3.bent Ring groove in Jaw worn(see figure "D" | 3.Replace feeder blade Replace jaw |
| Figure D | Defective rings- 1.Burrs | A further ring test to be done please return sample of rings to your dealers. |
| | 2.rings skewed on stick 3.Rings out of line on stick | Verify wire size |
| | 4.Ring twisted 5.Ring not symmetrical | 1.16ga 06dia.[1.5mm] 2.15ga 07dia.[1.8mm] |
| | 6.Ring formed to size 7.Ring strip flare at the ends | 3.11ga 12dia.[3.0mm] |
| | Wrong wire gauge for model of tool | |
| | Pusher spring- 1.spring too loose | Pusher spring- 1.Adjust pusher spring |
| | 2.spring broken Damaged or bent magazine | 2.Replace pusher spring Replace magazine |
| Rings don't feed down magazine | Defective rings- 1.undersized(tight on magazine) | A further ring test to be done please return sample of rings to your dealers. |
| | 2.burrs 3.rings twisted | , . J y |
| | 4.rings skewed on stick 5.rings out of line on stick | |
| | 6.ring strip flares at the ends | Vorify propor air processes |
| | Air pressure too high Pusher spring loose | Verify proper air pressure Adjust pusher spring |
| | Magazine- 1.Damaged or bent | Magazine 1.Replace magazine |
| | 2.Too many shims (the shim which ring passes through magazine edge is too big, ring out of control) | 2.Replace magazine |
| | Too few shims (the shim which ring passes through magazine edge is too small, ring can not pass) | 3.Replace magazine |
| | 4.Worn magazine edge. | 4.Replace magazine |
| Ring spitting | Worn Jaws(replace only in sets) | Replace jaws |
| | Defective ring- 1.Burr on outside curve of ring | A further ring test to be done please |
| | 2.Rings skewed on stick 3.Rings out of line on stick | return sample of rings to your dealers. |
| | 4.Rings not symmetrical 5.Wrong wire gauge for model of tool | |
| | Rings twisted opposite to jaw helix | |
| | 7. Ring strip flares at the ends | |
| Snapping noise as ring is being fed from | Too few shims under magazine 1.Too few shims (the shim which ring passes through | Replace magazine |
| magazine | magazine edge is too small, ring can not pass) Rings of wrong wire gauge used in tool-too large | Verify rings and use correct rings for |
| | <u> </u> | the given tool |

SC7-08A04 (WS/08A-04)



| Part_No | Description | Spec | Q'ty | Part_No | Description | Spec | Q'ty | Part_No | Description | Spec | Q'ty |
|---------|---------------------|--------------|------|---------|---------------------------|------|------|---------|---------------|--------|------|
| AA3401 | PUSHER SPRING | | 1 | WS0401 | EXHAUST CAP | | 1 | WS2401 | TRIGGER | | 1 |
| CC1901 | BUSHING | | 1 | WS0501 | O-RING SEAT | | 2 | WS2501 | GUARD TRIGGER | | 1 |
| CC2601 | PIN | | 1 | WS0601 | O-RING CAP | | 4 | WS2601 | LATCH | | 1 |
| KD0406 | SCREW | #4×6 TP | 1 | WS0701 | SPACER | | 2 | WS2701 | PLATE | | 1 |
| KK0505 | HEX.SOC.SET SCREW | M5×0.8 - 5L | 2 | WS0801 | BODY | | 1 | WS2801 | MAGAZINE SEAT | | 1 |
| KM0410 | HEX.SOC.HD.BOLT | M4×0.7 - 10L | 2 | WS0901 | MAIN PISTON | | 1 | WS2901 | SPRING | | 1 |
| KM0525 | HEX.SOC.HD.BOLT | M5×0.8 - 25L | 2 | WS1001 | ROLLER | | 4 | WS3001 | SEAT | | 1 |
| KM0635D | HEX.SOC.HD.BOLT | M6×1.0 - 35L | 2 | WS1101 | ROD PISTON | | 1 | WS3101 | ROLLER | | 2 |
| KP5012 | PARALLEL PIN | 5×12L | 2 | WS1201 | SUPPORT | | 1 | WS3201 | ROLLER | | 1 |
| KR0506 | BUTTON HD.BOLT | M5×0.8 - 06L | 2 | WS1201W | TRIGGER VALVE GUIDE ASSY. | | 1 | WS3301 | PUSHER | | 1 |
| KR0508 | BUTTON HD.BOLT | M5×0.8 - 08L | 1 | WS1202W | TRIGGER VALVE GUIDE ASSY. | | 1 | WS3401 | SUPPORT | | 1 |
| KR0510 | BUTTON HD.BOLT | M5×0.8 - 10L | 1 | WS1301 | CYLINDER CAP | | 1 | WS3501 | STOPPER | | 1 |
| KR0525 | BUTTON HD.BOLT | M5×0.8 - 25L | 5 | WS1401 | TRIGGER VALVE STEM | | 1 | WS4201 | ROLLER ANCHOR | | 1 |
| KS3018 | SPRING PIN | 3-18L | 3 | WS1501 | BUMPER | | 1 | YL0508 | LOCK NUT | M5×0.8 | 4 |
| OA011A | O-RING | ARP568-011 | 4 | WS1601 | SPRING SEAT | | 1 | YL0610 | LOCK NUT | M6×1.0 | 2 |
| OA011H | O-RING | 7.65×1.78 | 1 | WS1701 | COMPRESSION SPRING | | 1 | YW0601 | FLAT WASHER | 6 | 2 |
| OA014A | O-RING | ARP568-014 | 2 | WS1809 | PAWL LOWER | | 1 | | | | |
| OA219H | O-RING | 32.92×3.53 | 1 | WS1909 | PAWL UPPER | | 1 | | | | |
| WS0101 | TRIGGER VALVE GUIDE | | 1 | WS2001 | DRIVER | | 1 | | | | |
| WS0201 | TRIGGER VALVE GUIDE | | 1 | WS2101 | CAP | | 2 | | | | |
| WS0301 | TRIGGER VALVE SEAT | | 1 | WS2201 | CAP | | 1 | | | | |
| WS0301W | DRIVER ASSY. | | 1 | WS2301 | SIDE PLATE | | 2 | | | | |

If you need to order parts, please mark both Parts No. and Description.