# **OPERATION MANUAL**



# REC-B660YC 8



## REC-B660YC 6.6 Ton Scissor-Type Cutting Tool

<u>Read</u> and <u>understand</u> all of the instructions and safety information in this manual before operating or servicing this tool.



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# THANK YOU...

for purchasing a Huskie Tools product. Our mission is to supply the finest steel cable connecting and cutting tools and cable-related products to the transmission and distribution markets. Huskie Tools products represents the state-of-the-art tools and are dependable & safe. Trust, integrity, teamwork and mutual respect - these words are something we take to heart here at Huskie Tools.

Please take the time to read this manual carefully to learn how to correctly operate and maintain your tool.

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#### Warranty

Huskie Tools products carry a warranty that makes us a leader in the tool industry. No other manufacturer dares to back its tools as we do.

All Huskie REC-SERIES battery operated products carry a 5 year warranty. The ECO-SERIES battery operated products carry a 1 year warranty. The BP-80 & BP-84 batteries carry a 5 year warranty from the date stamped on the battery. The BP-82 battery carries a 1 year warranty.

#### PRODUCT WARRANTY

REC-Series battery operated products ECO-Series battery operated products Batteries (BP-80, BP-84) Chargers (CH-90, CH-94) 5 Years 1 Years

5 years/ (BP-82) 1 year

5 Years

The warranty does not cover any damages incurred from a Huskie tool including damages to property, bodily injuries and lost wages resulting from such injuries. This warranty solely covers the repair or replacement of tools supplied by Huskie. These remedies are exclusive, and the total liability of Huskie Tools, LLC whether based on contract, warranty, negligence, indemnification, strict liability or otherwise, shall not exceed the purchase price of the tool. In no event shall Huskie Tools, LLC be liable for consequential, incidental or special damages.

HUSKIE TOOLS, LLC MAKES NO OTHER WARRANTIES OF ANY KIND, EXPRESSED OR IMPLIED, AND ALL IMPLIED WARRANTIES INCLUDING ANY WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.

Huskie reserves the right to determine all warranty claims. Huskie will not warranty tools containing parts or batteries not originally supplied by Huskie. Failure due to misuse, improper maintenance, misapplication, not following instructions or warnings, abuse or repairs attempted by anyone other than Huskie Tools, LLC, or an authorized service center renders this warranty null and void.

Repair and Warranty Claims

All claims must be sent to Huskie for inspection and authorization. A Return Goods Authorization (RGA) is required before shipping tools to Huskie. Secure the authorization by telephoning or writing to Huskie's main office with details of the claim. Non-warranty repairs are handled using the same procedure. Repairs exceeding 50 percent of the cost of a new tool will be advised before repairs are made.

#### **Payment Terms**

Upon credit approval Huskie's standard payment terms are net-30 days. Visa, Mastercard, Discover and American Express are also accepted.

#### **Freight**

All Huskie tools are FOB, Glendale Heights, Illinois. Goods will be shipped pre-paid and added, unless otherwise specified. Freight shipments over \$17,000 are pre-paid.

#### Quotations

Special quantity quotations should be phoned in to discuss the scope of your tool requests.

#### **Complete Support Services**

Our customers have direct access to us for training, service, and problem solving. As specialists in tools, we maintain a trained repair staff and a large stock of parts. This contrasts with many tool suppliers who carry tools as a sideline without offering support services. Here are some reasons why our customers love to do business with us:

- Quick delivery
- We maintain inventory at our headquarters.
- Training and troubleshooting services.
- · Fast repair service.
- Design and engineering service for special tool needs.





# **Safety Alert Symbol:**

This safety alert symbol indicates a potential personal injury hazard; it is not used for messages related to property damage only.



## Wear eye protection:

when operating this tool.
Failure to wear eye
protection could result in
serious eye injury from flying
debris.



#### **Electric Shock hazard:**

Use proper personal protective equipment when using this unit on or near energized electrical lines.

# Pinch Point Hazard:

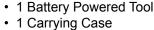
Compression Dies at high force can cause severe personal injury. Keep all body parts away from moving parts of the tool while operating.



**POINT** 



# KIT INCLUDES



- 4 OLL 04 Observed
- 1 CH-94 Charger
- 2 BP-84 Lithium Ion Batteries
- 1 Carrying Strap

#### **Battery and Charger**

- · BP-84 Huskie Tools Lithium Ion Battery
- · CH-94 Huskie Tools Charger
- This charger can charge the BP-84, BP-82 and BP-80 only. Huskie Tools batteries, including the BP-70, BP-70EI and the BP-70MH must be charged with the CH-90, CH-80, or previous charger models.









The **REC-660YC** works well for most underground aluminum cable cutting applications. It was designed to cut copper cables up to 500 MCM\* and aluminum up to 2" maximum outside diameter. The extra wide jaws make cutting the larger diameter underground cables easier. The hydraulic system is designed the same as the REC-658U featuring a rapid advance ram to reduce cycle time.

Because of the larger cutting surface of the blades, the maximum size copper cable that can be cut is 500 MCM\*. Larger cables will simply cause the cutter to bypass, which is a built-in overload safety device to prevent damage to the tool.

The large jaws can be placed over cables that lie flat on the ground and the cables will be scooped up as the cutting jaws are closed. All cuts are clean so that there is minimal cable distortion for cable sleeving purposes.

NOTE: DO NOT CUT STEEL





Specifications	
Output	6.6 Ton
Weight	10.2 lbs. with Battery
Jaw Opening	2.5"

Cutting Estimates		
	BP-84	
500 MCM	130	
500 MCM	110	

Cutting Capacities		
ACSR	DO NOT CUT	
Copper	500 MCM	
Aluminum	2" O.D.	

#### **Features**

- Open Scissor Jaw for Easy Cable Insertion
- Tested Up to 75kV
- One Hand Operation
- Rotational Head
- Rapid Advance
- Ergonomically Balanced
- Ergonomic Pistol Grip Handle
- Weather Resistant Housing
- Overload Bypass Protection
- Specifically Designed to Cut Large Jacketed Underground Cable
- For Copper and Aluminum Only
- 5 Year Warranty on Tool, Battery & Charger

These tools are able to communicate data to your Bluetooth enabled PC via the downloadable software available on Spartaco website.

In addition to the audible beeps and visual Led indicators on these tools identifying battery connection, full compression cycles, proper achieved pressure, and incomplete crimps, the tools also record data to be viewed later via the Bluetooth connection at you PC.

# **OPERATING INSTRUCTIONS**

#### **CHARGING THE BATTERY**

- 1. Insert the plug end into a 120V power source. The LED (Power) indicator will be steady green indicating the charger is now in "stand-by" mode and ready to charge the battery. Do not plug the charger into a generator as this will likely cause the fuse in the charger to short, and will not operate.
- 2. To charge a drained battery, insert the battery into the charger. The LED indicator shows a steady amber while charging. A depleted battery will be completely charged in approximately 50-70 minutes. The LED indicator will show a steady green when the battery is fully charged.
- 3. If the LED indicator goes out or is flashing quick amber, this could be a possible short in the battery circuit, or a problem with the charger itself. It is best to consult the factory at 1-800-860-6170 for service if such a condition occurs.
- 4. For technical questions or difficulty in operation, please call our customer service department at 1-800-860-6170.

#### ATTACHING THE BATTERY CARTRIDGE

- 1. While pressing the latch, pull out the battery cartridge. To replace the battery cartridge, push the new cartridge firmly into place.
- After inserting a battery cartridge, check that it is securely in place by pulling gently. Do not press the latch when pulling the cartridge.

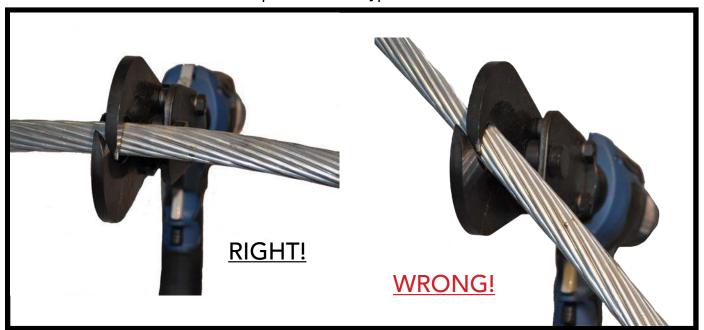
#### TRIGGER AND RELEASE BUTTON

- 1. The ram advances when the trigger is pressed and stops when the trigger is released.
- 2. To retract the ram, push the release button. The ram continues to retract while the release button is pressed.



#### **CUTTING**

- 1. Retract blades by pressing the release button.
- 2. Be sure that material being cut is within the specified cutting capacity of the tool.
- 3. Place the material to be cut between the blades and press the advance trigger until blades hold the material in place.
- 4. Check material for proper alignment to the cutting blades. It should be at a 90° degree angle to the blades. Any other angle will cause the blades to spread apart and possibly break.
- 5. Continue to advance the blades until the material is cut. If material is cut and tool has not yet by passed, it may be difficult to retract blades. If this occurs, continue to advance tool and build pressure. A series of clicks will be heard while the tool running in a "neutral" mode. This indicates that the tool has built full pressure and bypassed and can now be released.



#### MAINTENANCE AND INSPECTION

- 1. Daily maintenance is required to ensure that the tool is kept in good working condition.
- 2. Sharpen blades occasionally with a sharpening stone on the back side of the blades to remove any burrs that may occur.
- 3. Do not store the tool in a humid environment.
- 4. Wipe away any excess oil with a soapy cloth.
- 5. Provided that maintenance of the tool is carried out regularly, the tool should provide many years of service.
- 6. Should you experience any difficulty with the operation and maintenance of this tool, contact Huskie's technical support department at 1-800-860-6170.



# **OPERATING PRECAUTIONS**

#### PRECAUTION FOR THE TOOL

1. Always point the tool AWAY from other people.

2. If the tool is stored for an extended period at a temperature of less than 25° F (-5°C), the tool should be allowed to return to room temperature to ensure smooth operation Use the tool only after it has been at room temperature for 1 hour.

3. Do not drop the tool. Dropping the tool may damage the hydraulic circuit and result in the tool

not functioning correctly.

4. Keep the head and ram clean and free of debris. Solvents can be used to clean the head, but should not be used on the plastic body. Use soap and water to clean the body.

5. Do not use tool for continous use. If any sign of over heating, allow the tool to cool for 15 mins.

6. Do not allow tool to be submerged in water. The tool may be used to in damp or wet environments. However it is recommended for tool to be air-dried before use.

#### PRECAUTION FOR THE BATTERY CARTRIDGE

- 1. Do not short circuit the contacts or expose the cartridge to water, oil or solvents.
- 2. Do not disassemble or attempt to repair the battery cartridge or dispose of in a fire.

3. Do not drop or otherwise abuse the battery cartridge.

4. Do not leave the cartridge in locations where it will be exposed to a temperature greater than 140°F (60°C) for an extended period.

5. The battery has a limited life. When the crimping capacity becomes about 1/2 that of the

original capacity, the battery should be replaced.

6. If the battery cartridge is stored without being charged, natural drainage will cause the power to be reduced. The battery should be charged every 3 months if not in use.

#### PRECAUTION FOR THE CHARGER

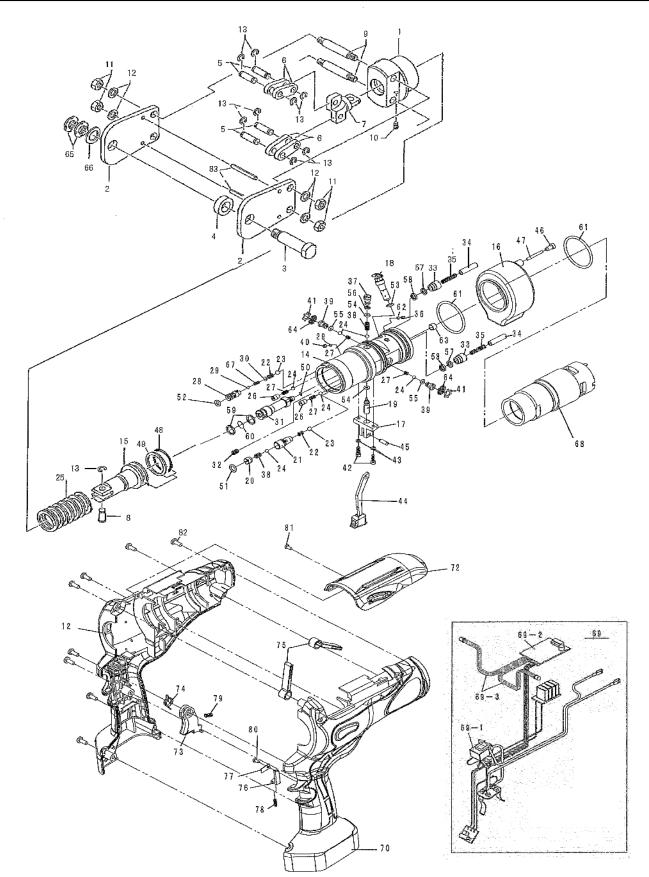
- 1. The LED indicator lights up amber and remains lit when the unit starts charging a battery cartridge. The indicator turns green when charging is completed.
- 2. The BP-84 can be charged with any of the Huskie Lithium-Ion chargers including the CH-80, CH-90 & CH-94.
- 3. Allow battery cartridges to cool before charging. Allow at least 15 minutes between charges when charging several cartridges in succession.
- 4. Charge batteries at an ambient temperature of 50°-95°F (10°-35° C). Charging time is approximately 50-70 minutes for the BP-84.

5. Never short circuit the output terminals.

6. Do not expose the charger to water, oil or solvents.

7. Do not disassemble, attempt to modify, drop or otherwise abuse charger.







NIO	DECCRIPTION	CODE	OTIV
NO.	DESCRIPTION	CODE	QTY.
1	Body Head	Y30-34	1
2	Support Plate	Y30-10	2
3	Shoulder Bolt	Y30-11	1
4	Collar	Y30-09	2
5	Pin (108)	Y30-15	4
6	Link	Y30-16	4
7	Link Head	Y30-17	1
8	Pivot Pin	Y30-18	1
9	Stud Bolt (20)	Y30-14	2
10	M5 X 8 Nylock Screw (D.P.)	85F-03	1
11	M8 Hex. Nut	40-24	4
12	M8 Lock Washer	40-25	4
13	Snap Ring	16-09	9
14	Body	630Y-01	1
15	Ram	630Y-02	1
16	Oil Reservior	658-01	1
17	Lever retainer	658-05	1
18	Valve Cartridge	EZ-25L	1
19	Push Pin	658-06	1
20	Valve Screw	SL5-10	1
21	LP control plug	SL5-11	1
22	Spring (686)	EZ-26	2
23	3/16" Ball	16-49	2
24	5/32" Ball	22-21	6
25	Spring(446)	20-76	1
26	auto-suction screw	SL5-16	2
27	Spring (688)	EZ-22	4
28	Both-way plug	SL5-18	1
29	1/8" Ball	40-20	2
30	Stopper Ring	SL5-19	1
31	Inner Piston	630Y-03	1
32	M5 X 8 Screw	410-49	1
33	Cylinder Insert	EZ-13	2
34	Pump Piston	EZ-15	2
35	Spring (552)	EZ-16	2
36	M3 X 5 Screw	UC-37A	1
37	Release Plug	EZ-24	1
38	Spring (689)	EZ-23	2
39	Suction Valve	EZ-20	2
40	M4 X 4 Screw (F.P.)	85-47	1
41	SI-12.7 Ring	R14A-23	2
42	M3x10 Screw	658-08	2

NO.         DESCRIPTION         CODE         QTY.           43         M3 Lock Washer         5N-61         2           44         Release Lever         658-09         1           45         G4x12 Dowel Pin         658-10         1           46         Plug         SLND-12         1           47         Magnet         R0B-25         1           48         P-28 O-Ring         300-21         1           49         P-28 Back-Up Ring (B.C.)         55D-03         1           50         S-5 O-Ring         351-20         1           51         P-7 O-Ring         16-60         1           52         P-5 O-Ring (B)         610F-18         1           53         P-5 O-Ring (B)         610F-18         1           54         P-3 O-Ring (BC)         9H-38         1           55         P-3 O-Ring (BC.)         9H-38         1           57         P-6 Back-Up Ring (B.C.)         9H-38         1           57         P-6 Back-Up Ring (B.C.)         100-13         2           58         PS-6 Pent Seal         EZ-14         2           59         P-10 Back-Up Ring (B.C.)         100-13         2				
44         Release Lever         658-09         1           45         G4x12 Dowel Pin         658-10         1           46         Plug         SLND-12         1           47         Magnet         R0B-25         1           48         P-28 O-Ring         300-21         1           49         P-28 Back-Up Ring (B.C.)         55D-03         1           50         S-5 O-Ring         351-20         1           51         P-7 O-Ring         16-60         1           52         P-5 O-Ring         5N-35         1           53         P-5 O-Ring (B)         610F-18         1           54         P-3 O-Ring (B)         610F-18         1           54         P-3 O-Ring (BC.)         9H-38         1           57         P-6 Back-Up Ring (B.C.)         9H-38         1           57         P-6 Back-Up Ring (B.C.)         UC-28         2           58         PS-6 Pent Seal         EZ-14         2           59         P-10 Back-Up Ring (B.C.)         100-13         2           60         P-10 O-Ring         100-14         1           61         G35 O-Ring         658-11         2     <	NO.	DESCRIPTION	CODE	QTY.
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51         P-7 O-Ring         16-60         1           52         P-5 O-Ring         5N-35         1           53         P-5 O-Ring (B)         610F-18         1           54         P-3 O-Ring (U801)         EZ-21         2           55         P-3 O-Ring (U801)         EZ-21         2           56         P-3 Back-Up Ring (B.C.)         9H-38         1           57         P-6 Back-Up Ring (B.C.)         UC-28         2           58         PS-6 Pent Seal         EZ-14         2           59         P-10 Back-Up Ring (B.C.)         100-13         2           60         P-10 O-Ring         100-14         1           61         G35 O-Ring         658-11         2           62         Retainer         SLND-14         1           63         Bush         R14A-19         1           64         Filter Screen         R14A-22         2           65         ANO1 Nut         Y30-41         2           66         AS1101 Thrust Washer         220-06         1           67         Spring (420)         9H2-02         1           68         Power Unit         SLND-11         1 <td>49</td> <td>P-28 Back-Up Ring (B.C.)</td> <td>55D-03</td> <td>1</td>	49	P-28 Back-Up Ring (B.C.)	55D-03	1
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53         P-5 O-Ring (B)         610F-18         1           54         P-3 O-Ring         16-36         2           55         P-3 O-Ring (U801)         EZ-21         2           56         P-3 Back-Up Ring (B.C.)         9H-38         1           57         P-6 Back-Up Ring (B.C.)         UC-28         2           58         PS-6 Pent Seal         EZ-14         2           59         P-10 Back-Up Ring (B.C.)         100-13         2           60         P-10 O-Ring         100-14         1           61         G35 O-Ring         658-11         2           62         Retainer         SLND-14         1           63         Bush         R14A-19         1           64         Filter Screen         R14A-22         2           65         ANO1 Nut         Y30-41         2           66         AS1101 Thrust Washer         220-06         1           67         Spring (420)         9H2-02         1           68         Power Unit         SLND-11         1           69         Switch Unit(14)         658-12A         1           70         Housing Set         6HS-Small         1	51	P-7 O-Ring	16-60	1
54         P-3 0-Ring (U801)         EZ-21         2           55         P-3 0-Ring (U801)         EZ-21         2           56         P-3 Back-Up Ring (B.C.)         9H-38         1           57         P-6 Back-Up Ring (B.C.)         UC-28         2           58         PS-6 Pent Seal         EZ-14         2           59         P-10 Back-Up Ring (B.C.)         100-13         2           60         P-10 O-Ring         100-14         1           61         G35 O-Ring         658-11         2           62         Retainer         SLND-14         1           63         Bush         R14A-19         1           64         Filter Screen         R14A-22         2           65         ANO1 Nut         Y30-41         2           66         AS1101 Thrust Washer         220-06         1           67         Spring (420)         9H2-02         1           68         Power Unit         SLND-11         1           69         Switch Unit(14)         658-12A         1           70         Housing Set         6HS-Small         1           72         Top Cover         658-15         1	52	P-5 O-Ring	5N-35	1
55         P-3 O-Ring (U801)         EZ-21         2           56         P-3 Back-Up Ring (B.C.)         9H-38         1           57         P-6 Back-Up Ring (B.C.)         UC-28         2           58         PS-6 Pent Seal         EZ-14         2           59         P-10 Back-Up Ring (B.C.)         100-13         2           60         P-10 O-Ring         100-14         1           61         G35 O-Ring         658-11         2           62         Retainer         SLND-14         1           63         Bush         R14A-19         1           64         Filter Screen         R14A-22         2           65         ANO1 Nut         Y30-41         2           66         AS1101 Thrust Washer         220-06         1           67         Spring (420)         9H2-02         1           68         Power Unit         SLND-11         1           69         Switch Unit(14)         658-12A         1           70         Housing Set         6HS-Small         1           72         Top Cover         658-15         1           73         Switch Knob         658-16         1 <td>53</td> <td>P-5 O-Ring (B)</td> <td>610F-18</td> <td>1</td>	53	P-5 O-Ring (B)	610F-18	1
56         P-3 Back-Up Ring (B.C.)         9H-38         1           57         P-6 Back-Up Ring (B.C.)         UC-28         2           58         PS-6 Pent Seal         EZ-14         2           59         P-10 Back-Up Ring (B.C.)         100-13         2           60         P-10 O-Ring         100-14         1           61         G35 O-Ring         658-11         2           62         Retainer         SLND-14         1           63         Bush         R14A-19         1           64         Filter Screen         R14A-22         2           65         ANO1 Nut         Y30-41         2           66         AS1101 Thrust Washer         220-06         1           67         Spring (420)         9H2-02         1           68         Power Unit         SLND-11         1           69         Switch Unit(14)         658-12A         1           70         Housing Set         6HS-Small         1           72         Top Cover         658-15         1           73         Switch Knob         658-16         1           74         Spring(693)         658-17         1	54	P-3 O-Ring	16-36	
57         P-6 Back-Up Ring (B.C.)         UC-28         2           58         PS-6 Pent Seal         EZ-14         2           59         P-10 Back-Up Ring (B.C.)         100-13         2           60         P-10 O-Ring         100-14         1           61         G35 O-Ring         658-11         2           62         Retainer         SLND-14         1           63         Bush         R14A-19         1           64         Filter Screen         R14A-22         2           65         ANO1 Nut         Y30-41         2           66         AS1101 Thrust Washer         220-06         1           67         Spring (420)         9H2-02         1           68         Power Unit         SLND-11         1           69         Switch Unit(14)         658-12A         1           70         Housing Set         6HS-Small         1           72         Top Cover         658-15         1           73         Switch Knob         658-16         1           74         Spring(693)         658-17         1           75         Hanging Strap         558-08         1	55	P-3 O-Ring (U801)	EZ-21	2
58         PS-6 Pent Seal         EZ-14         2           59         P-10 Back-Up Ring (B.C.)         100-13         2           60         P-10 O-Ring         100-14         1           61         G35 O-Ring         658-11         2           62         Retainer         SLND-14         1           63         Bush         R14A-19         1           64         Filter Screen         R14A-22         2           65         ANO1 Nut         Y30-41         2           66         AS1101 Thrust Washer         220-06         1           67         Spring (420)         9H2-02         1           68         Power Unit         SLND-11         1           69         Switch Unit(14)         658-12A         1           70         Housing Set         6HS-Small         1           72         Top Cover         658-15         1           73         Switch Knob         658-15         1           74         Spring(693)         658-17         1           75         Hanging Strap         558-07A         2           76         Lever Stopper         558-08         1 <t< td=""><td>56</td><td>P-3 Back-Up Ring (B.C.)</td><td>9H-38</td><td>1</td></t<>	56	P-3 Back-Up Ring (B.C.)	9H-38	1
59         P-10 Back-Up Ring (B.C.)         100-13         2           60         P-10 O-Ring         100-14         1           61         G35 O-Ring         658-11         2           62         Retainer         SLND-14         1           63         Bush         R14A-19         1           64         Filter Screen         R14A-22         2           65         ANO1 Nut         Y30-41         2           66         AS1101 Thrust Washer         220-06         1           67         Spring (420)         9H2-02         1           68         Power Unit         SLND-11         1           69         Switch Unit(14)         658-12A         1           70         Housing Set         6HS-Small         1           72         Top Cover         658-15         1           73         Switch Knob         658-15         1           74         Spring(693)         658-16         1           75         Hanging Strap         558-07A         2           76         Lever Stopper         558-08         1           77         Retaining Plate         458-01         1	57	P-6 Back-Up Ring (B.C.)	UC-28	2
60         P-10 O-Ring         100-14         1           61         G35 O-Ring         658-11         2           62         Retainer         SLND-14         1           63         Bush         R14A-19         1           64         Filter Screen         R14A-22         2           65         ANO1 Nut         Y30-41         2           66         AS1101 Thrust Washer         220-06         1           67         Spring (420)         9H2-02         1           68         Power Unit         SLND-11         1           69         Switch Unit(14)         658-12A         1           70         Housing Set         6HS-Small         1           72         Top Cover         658-15         1           73         Switch Knob         658-16         1           74         Spring(693)         658-17         1           75         Hanging Strap         558-08         1           77         Retaining Plate         458-01         1           78         Spring (639)         458-02         1           79         Spring (639)         458-02         1           80	58	PS-6 Pent Seal	EZ-14	
61         G35 O-Ring         658-11         2           62         Retainer         SLND-14         1           63         Bush         R14A-19         1           64         Filter Screen         R14A-22         2           65         ANO1 Nut         Y30-41         2           66         AS1101 Thrust Washer         220-06         1           67         Spring (420)         9H2-02         1           68         Power Unit         SLND-11         1           69         Switch Unit(14)         658-12A         1           70         Housing Set         6HS-Small         1           72         Top Cover         658-15         1           73         Switch Knob         658-15         1           74         Spring(693)         658-16         1           75         Hanging Strap         558-08         1           76         Lever Stopper         558-08         1           77         Retaining Plate         458-02         1           79         Spring (639)         458-02         1           79         Spring (77)         410-01         1           80	59	P-10 Back-Up Ring (B.C.)	100-13	2
62         Retainer         SLND-14         1           63         Bush         R14A-19         1           64         Filter Screen         R14A-22         2           65         ANO1 Nut         Y30-41         2           66         AS1101 Thrust Washer         220-06         1           67         Spring (420)         9H2-02         1           68         Power Unit         SLND-11         1           69         Switch Unit(14)         658-12A         1           70         Housing Set         6HS-Small         1           72         Top Cover         658-15         1           73         Switch Knob         658-16         1           74         Spring(693)         658-16         1           75         Hanging Strap         558-08         1           76         Lever Stopper         558-08         1           77         Retaining Plate         458-01         1           79         Spring (639)         458-02         1           79         Spring (177)         410-01         1           80         M3 X 5 Screw (T.P.)         ROB-94         1 <td< td=""><td>60</td><td>P-10 O-Ring</td><td>100-14</td><td>1</td></td<>	60	P-10 O-Ring	100-14	1
63         Bush         R14A-19         1           64         Filter Screen         R14A-22         2           65         ANO1 Nut         Y30-41         2           66         AS1101 Thrust Washer         220-06         1           67         Spring (420)         9H2-02         1           68         Power Unit         SLND-11         1           69         Switch Unit(14)         658-12A         1           70         Housing Set         6HS-Small         1           72         Top Cover         658-15         1           73         Switch Knob         658-16         1           74         Spring(693)         658-16         1           75         Hanging Strap         558-07A         2           76         Lever Stopper         558-08         1           77         Retaining Plate         458-01         1           79         Spring (639)         458-02         1           79         Spring (177)         410-01         1           80         M3 X 5 Screw (T.P.)         ROB-94         1           81         M3 X 6 Screw         ROB-159         8	61	G35 O-Ring	658-11	2
64         Filter Screen         R14A-22         2           65         ANO1 Nut         Y30-41         2           66         AS1101 Thrust Washer         220-06         1           67         Spring (420)         9H2-02         1           68         Power Unit         SLND-11         1           69         Switch Unit(14)         658-12A         1           70         Housing Set         6HS-Small         1           72         Top Cover         658-15         1           73         Switch Knob         658-16         1           74         Spring(693)         658-16         1           75         Hanging Strap         558-07A         2           76         Lever Stopper         558-08         1           77         Retaining Plate         458-01         1           78         Spring (639)         458-02         1           79         Spring (177)         410-01         1           80         M3 X 5 Screw (T.P.)         R0B-94         1           81         M3 X 6 Screw         R150-02         1           82         M4 X 10 Screw         R0B-159         8 <t< td=""><td>62</td><td>Retainer</td><td>SLND-14</td><td>1</td></t<>	62	Retainer	SLND-14	1
65         ANO1 Nut         Y30-41         2           66         AS1101 Thrust Washer         220-06         1           67         Spring (420)         9H2-02         1           68         Power Unit         SLND-11         1           69         Switch Unit(14)         658-12A         1           70         Housing Set         6HS-Small         1           70         Housing Set         6HS-Small         1           72         Top Cover         658-15         1           73         Switch Knob         658-16         1           74         Spring(693)         658-17         1           75         Hanging Strap         558-07A         2           76         Lever Stopper         558-08         1           77         Retaining Plate         458-01         1           78         Spring (639)         458-02         1           79         Spring (177)         410-01         1           80         M3 X 5 Screw (T.P.)         ROB-94         1           81         M3 X 6 Screw         R150-02         1           82         M4 X 10 Screw         ROB-159         8 <t< td=""><td>63</td><td>Bush</td><td>R14A-19</td><td>1</td></t<>	63	Bush	R14A-19	1
66         AS1101 Thrust Washer         220-06         1           67         Spring (420)         9H2-02         1           68         Power Unit         SLND-11         1           69         Switch Unit(14)         658-12A         1           70         Housing Set         6HS-Small         1           70         Housing Set         6HS-Small         1           72         Top Cover         658-15         1           73         Switch Knob         658-16         1           74         Spring(693)         658-17         1           75         Hanging Strap         558-07A         2           76         Lever Stopper         558-08         1           77         Retaining Plate         458-01         1           78         Spring (639)         458-02         1           79         Spring (177)         410-01         1           80         M3 X 5 Screw (T.P.)         ROB-94         1           81         M3 X 6 Screw         R150-02         1           82         M4 X 10 Screw         ROB-159         8           83         5 X 45 Drive Pin (AW)         Y30-12         2	64	Filter Screen	R14A-22	2
67         Spring (420)         9H2-02         1           68         Power Unit         SLND-11         1           69         Switch Unit(14)         658-12A         1           70         Housing Set         6HS-Small         1           72         Top Cover         658-15         1           73         Switch Knob         658-16         1           74         Spring(693)         658-17         1           75         Hanging Strap         558-07A         2           76         Lever Stopper         558-08         1           77         Retaining Plate         458-01         1           78         Spring (639)         458-02         1           79         Spring (177)         410-01         1           80         M3 X 5 Screw (T.P.)         ROB-94         1           81         M3 X 6 Screw         R150-02         1           82         M4 X 10 Screw         ROB-159         8           83         5 X 45 Drive Pin (AW)         Y30-12         2           85         Blade         Y60-99         2           69-1         Main Switch Unit         658-18         1	65	ANO1 Nut	Y30-41	2
68         Power Unit         SLND-11         1           69         Switch Unit(14)         658-12A         1           70         Housing Set         6HS-Small         1           72         Top Cover         658-15         1           73         Switch Knob         658-16         1           74         Spring(693)         658-17         1           75         Hanging Strap         558-07A         2           76         Lever Stopper         558-08         1           77         Retaining Plate         458-01         1           78         Spring (639)         458-02         1           79         Spring (177)         410-01         1           80         M3 X 5 Screw (T.P.)         ROB-94         1           81         M3 X 6 Screw         R150-02         1           82         M4 X 10 Screw         ROB-159         8           83         5 X 45 Drive Pin (AW)         Y30-12         2           85         Blade         Y60-99         2           69-1         Main Switch Unit         658-18         1           69-2         Circuit Board         651-14         1  <	66	AS1101 Thrust Washer	220-06	1
69       Switch Unit(14)       658-12A       1         70       Housing Set       6HS-Small       1         72       Top Cover       658-15       1         73       Switch Knob       658-16       1         74       Spring(693)       658-17       1         75       Hanging Strap       558-07A       2         76       Lever Stopper       558-08       1         77       Retaining Plate       458-01       1         78       Spring (639)       458-02       1         79       Spring (177)       410-01       1         80       M3 X 5 Screw (T.P.)       ROB-94       1         81       M3 X 6 Screw       R150-02       1         82       M4 X 10 Screw       ROB-159       8         83       5 X 45 Drive Pin (AW)       Y30-12       2         85       Blade       Y60-99       2         69-1       Main Switch Unit       658-18       1         69-2       Circuit Board       651-14       1	67	Spring (420)	9H2-02	1
70         Housing Set         6HS-Small         1           72         Top Cover         658-15         1           73         Switch Knob         658-16         1           74         Spring(693)         658-17         1           75         Hanging Strap         558-07A         2           76         Lever Stopper         558-08         1           77         Retaining Plate         458-01         1           78         Spring (639)         458-02         1           79         Spring (177)         410-01         1           80         M3 X 5 Screw (T.P.)         ROB-94         1           81         M3 X 6 Screw         R150-02         1           82         M4 X 10 Screw         ROB-159         8           83         5 X 45 Drive Pin (AW)         Y30-12         2           85         Blade         Y60-99         2           69-1         Main Switch Unit         658-18         1           69-2         Circuit Board         651-14         1	68	Power Unit	SLND-11	1
72         Top Cover         658-15         1           73         Switch Knob         658-16         1           74         Spring(693)         658-17         1           75         Hanging Strap         558-07A         2           76         Lever Stopper         558-08         1           77         Retaining Plate         458-01         1           78         Spring (639)         458-02         1           79         Spring (177)         410-01         1           80         M3 X 5 Screw (T.P.)         ROB-94         1           81         M3 X 6 Screw         R150-02         1           82         M4 X 10 Screw         ROB-159         8           83         5 X 45 Drive Pin (AW)         Y30-12         2           85         Blade         Y60-99         2           69-1         Main Switch Unit         658-18         1           69-2         Circuit Board         651-14         1	69	Switch Unit(14)	658-12A	1
73         Switch Knob         658-16         1           74         Spring(693)         658-17         1           75         Hanging Strap         558-07A         2           76         Lever Stopper         558-08         1           77         Retaining Plate         458-01         1           78         Spring (639)         458-02         1           79         Spring (177)         410-01         1           80         M3 X 5 Screw (T.P.)         ROB-94         1           81         M3 X 6 Screw         R150-02         1           82         M4 X 10 Screw         ROB-159         8           83         5 X 45 Drive Pin (AW)         Y30-12         2           85         Blade         Y60-99         2           69-1         Main Switch Unit         658-18         1           69-2         Circuit Board         651-14         1	70	Housing Set	6HS-Small	1
74         Spring(693)         658-17         1           75         Hanging Strap         558-07A         2           76         Lever Stopper         558-08         1           77         Retaining Plate         458-01         1           78         Spring (639)         458-02         1           79         Spring (177)         410-01         1           80         M3 X 5 Screw (T.P.)         ROB-94         1           81         M3 X 6 Screw         R150-02         1           82         M4 X 10 Screw         ROB-159         8           83         5 X 45 Drive Pin (AW)         Y30-12         2           85         Blade         Y60-99         2           69-1         Main Switch Unit         658-18         1           69-2         Circuit Board         651-14         1	72	Top Cover	658-15	1
75         Hanging Strap         558-07A         2           76         Lever Stopper         558-08         1           77         Retaining Plate         458-01         1           78         Spring (639)         458-02         1           79         Spring (177)         410-01         1           80         M3 X 5 Screw (T.P.)         ROB-94         1           81         M3 X 6 Screw         R150-02         1           82         M4 X 10 Screw         ROB-159         8           83         5 X 45 Drive Pin (AW)         Y30-12         2           85         Blade         Y60-99         2           69-1         Main Switch Unit         658-18         1           69-2         Circuit Board         651-14         1	73	Switch Knob	658-16	1
76         Lever Stopper         558-08         1           77         Retaining Plate         458-01         1           78         Spring (639)         458-02         1           79         Spring (177)         410-01         1           80         M3 X 5 Screw (T.P.)         ROB-94         1           81         M3 X 6 Screw         R150-02         1           82         M4 X 10 Screw         ROB-159         8           83         5 X 45 Drive Pin (AW)         Y30-12         2           85         Blade         Y60-99         2           69-1         Main Switch Unit         658-18         1           69-2         Circuit Board         651-14         1	74	Spring(693)	658-17	1
77       Retaining Plate       458-01       1         78       Spring (639)       458-02       1         79       Spring (177)       410-01       1         80       M3 X 5 Screw (T.P.)       ROB-94       1         81       M3 X 6 Screw       R150-02       1         82       M4 X 10 Screw       ROB-159       8         83       5 X 45 Drive Pin (AW)       Y30-12       2         85       Blade       Y60-99       2         69-1       Main Switch Unit       658-18       1         69-2       Circuit Board       651-14       1	75	Hanging Strap	558-07A	2
78         Spring (639)         458-02         1           79         Spring (177)         410-01         1           80         M3 X 5 Screw (T.P.)         ROB-94         1           81         M3 X 6 Screw         R150-02         1           82         M4 X 10 Screw         ROB-159         8           83         5 X 45 Drive Pin (AW)         Y30-12         2           85         Blade         Y60-99         2           69-1         Main Switch Unit         658-18         1           69-2         Circuit Board         651-14         1	76	Lever Stopper	558-08	1
79         Spring (177)         410-01         1           80         M3 X 5 Screw (T.P.)         ROB-94         1           81         M3 X 6 Screw         R150-02         1           82         M4 X 10 Screw         ROB-159         8           83         5 X 45 Drive Pin (AW)         Y30-12         2           85         Blade         Y60-99         2           69-1         Main Switch Unit         658-18         1           69-2         Circuit Board         651-14         1	77	Retaining Plate	458-01	1
80       M3 X 5 Screw (T.P.)       ROB-94       1         81       M3 X 6 Screw       R150-02       1         82       M4 X 10 Screw       ROB-159       8         83       5 X 45 Drive Pin (AW)       Y30-12       2         85       Blade       Y60-99       2         69-1       Main Switch Unit       658-18       1         69-2       Circuit Board       651-14       1	78	Spring (639)	458-02	1
81       M3 X 6 Screw       R150-02       1         82       M4 X 10 Screw       R0B-159       8         83       5 X 45 Drive Pin (AW)       Y30-12       2         85       Blade       Y60-99       2         69-1       Main Switch Unit       658-18       1         69-2       Circuit Board       651-14       1	79	Spring (177)	410-01	1
82       M4 X 10 Screw       ROB-159       8         83       5 X 45 Drive Pin (AW)       Y30-12       2         85       Blade       Y60-99       2         69-1       Main Switch Unit       658-18       1         69-2       Circuit Board       651-14       1	80	M3 X 5 Screw (T.P.)	ROB-94	1
83       5 X 45 Drive Pin (AW)       Y30-12       2         85       Blade       Y60-99       2         69-1       Main Switch Unit       658-18       1         69-2       Circuit Board       651-14       1	81	M3 X 6 Screw	R150-02	1
85       Blade       Y60-99       2         69-1       Main Switch Unit       658-18       1         69-2       Circuit Board       651-14       1	82	M4 X 10 Screw	ROB-159	8
69-1         Main Switch Unit         658-18         1           69-2         Circuit Board         651-14         1	83	5 X 45 Drive Pin (AW)	Y30-12	
69-2 Circuit Board 651-14 1	85		Y60-99	2
69-2 Circuit Board 651-14 1	69-1	Main Switch Unit	658-18	1
<del>                                     </del>	69-2		651-14	1
69-3 LED Harness 558-05 1	69-3	LED Harness	558-05	1



# TROUBLESHOOTING GUIDE

PROBLEM	CAUSE	SOLUTION
	Insufficient Hydraulic Oil	Consult Factory for Repair Service
MOTOR RUNS, BUT THE TOOL JAWS WILL NOT ADVANCE	Air Block in Hydraulic System	Invert tool to allow air to rise towards the top of the oil bladder
	Defective Hydraulic Circuit	Consult Factory for Repair Service
MOTOR RUNS, TOOL JAWS ADVANCE, BUT WILL NOT	Insufficient Hydraulic Oil	Consult Factory for Repair Service
BUILD PRESSURE	Defective Suction Valve or Bypass Cartridge	Consult Factory for Repair Service
	Defective Battery	Charge or Replace Battery
	Bad Contact or Loose Battery Connections	Check all Connections and Wires
MOTOR WILL NOT RUN AT ALL	Misaligned Switch	Check to Make Sure that Switch is Properly Aligned with Trigger
		Consult Factory for Repair Service
TOOL JAWS WILL NOT RELEASE	Tool Did Not Complete a Full Cycle and Bypass	Press Trigger and allow Tool to Bypass, Then Release Tool Jaws
	Connector is Jammed in Tool Jaws	Press and Hold Release Trigger While Prying Tool Jaws Apart
	Release Trigger is Bent or Misaligned	Consult Factory for Repair Service



# **NOTES**



### **NOTES**



# **NOTES**



A **SPARTACO** COMPANY

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