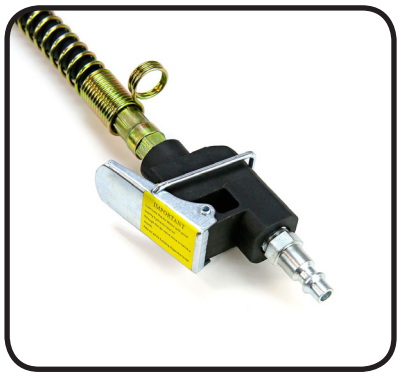
22 TON HYDRAULIC BOTTLE JACK

ITEM: 55060, 55063



OWNER'S MANUAL AND SAFETY INSTRUCTIONS

SAVE THIS MANUAL: KEEP THIS MANUAL FOR SAFETY WARNINGS, PRECAUTIONS, ASSEMBLY, OPERATING, INSPECTION, MAINTENANCE AND CLEANING PROCEDURES. WRITE THE PRODUCT'S SERIAL NUMBER ON THE BACK OF THE MANUAL NEAR THE ASSEMBLY DIAGRAM (OR MONTH AND YEAR OF PURCHASE IF PRODUCT HAS NO NUMBER).

FOR QUESTIONS PLEASE CALL OUR CUSTOMER SUPPORT: (909) 628 4900 MON-FRI 9AM TO 3PM PST

WARNING

GENERAL SAFETY WARNINGS

Read all safety warnings and instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury. Save all warnings and instructions for future reference.

SAFETY

The warnings, precautions, and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator. Read carefully and understand all ASSEMBLY AND OPERATION INSTRUCTIONS before operating. Failure to follow the safety rules and other basic safety precautions may result in serious personal injury.

- **Read and understand all instructions.** Failure to follow all instructions may result in serious injury or property damage.
- **DO NOT** allow persons to operate or assemble the product until they have read this manual and have developed a thorough understanding of how it works.
- Store idle equiptment. When not in use, tools must be stored in a dry location to inhibit rust. ALWAYS lock up tools and keep out of the reach of children.
- I**nspect the work area before each use**. Keep work area clean, dry, free of clutter, and well-lit. Cluttered, wet, or dark work areas can result in injury. Using the product in confined work areas may put you dangerously close to cutting tools and rotating parts.
- **Dress properly. DO NOT** wear loose clothing, dangling objects, or jewelery. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewelery, or long hair can be caught in moving parts.
- **Check for damaged parts before each use.** Carefully check that the product will operate properly and perform its intended function. Replace damaged or worn parts immediately. Never operate the product with a damaged part.
- **Keep children and bystanders away from the work area while operating the tool. DO NOT** allow children to handle the product.
- Remove keys and adjusting wrenches. Check that the keys and adjusting wrenches are removed from the tool or machine before starting work.
- Stay alert, watch what you are doing, and use common sense when operating the tool. **DO NOT** use the tool while you are tired or under the influence of drugs, alcohol, or medication.
- **DO NOT overreach.** Keep proper footing and balance at all times.
- **Wear the proper personal protective equipment when necessary.** Use ANSI Z87.1 compliant safety goggles (not safety glasses) with side shields, or when needed, a face shield.
- **DO NOT** operate the tool if under the influence of drugs or alcohol. read the warning labels to determine if your judgement. If there is any doubt, **DO NOT** operate the tool.
- Use the right tool for the job. **DO NOT** attempt to force a small tool to do the work of a larger tool. **DO NOT** modify this tool or use the tool for a purpose it was not intended.

IMPORTANT SAFETY INFORMATION

- **Maintain tools with care.** Keep tools sharp and clean for better performance. Follow instructions for lubricating and changing accessories. The handles must be kept clean, dry and free of oil and grease.
- When servicing, use only identical replacement parts. **Use of any other parts will void the warranty.**
- The flutes on these tools are sharp and can cut you. **Handle with care.**
- **DO NOT** use any high speed means, such as a lathe or drill press, to cut threads with these Taps and Dies. High speed use may overheat the tool , causing loss of heat-treatment and premature failure. Use of high speed means will void the warranty.
- Taps and dies are heat treated and not designed to be sharpened. After considerable use, corrosion, or high speed use these tools may lose their cutting edge. They will be less effective and may break.
- **DO NOT** overload this equipment. Know the weight of the item being lifted.
- Use the Jack for lifting only. Immediately after lifting, Support the load with appropriate supporting equipment.
- Place the jack correctly. Only use this tool on a surface that is stable, level, clean and dry and capable of sustaining the load.
- Stabilize the load. Ensure that the load remains stable at all times. **DO NOT** move the load while it is on the jack.
- When lifting a vehicle, apply the emergency break and block all the wheels.
- Stabilize the load. Ensure that the load remains stable at all times. **DO NOT** move the load while it is on the jack.
- Observe work area conditions. **DO NOT** use machines or power tools in damp or wet locations.
- **DO NOT** force the tool. It will do the job better and safer at the rate for which it was intended. **DO NOT** use innapropriate attachments in an attempt to exceed the tools capacity.

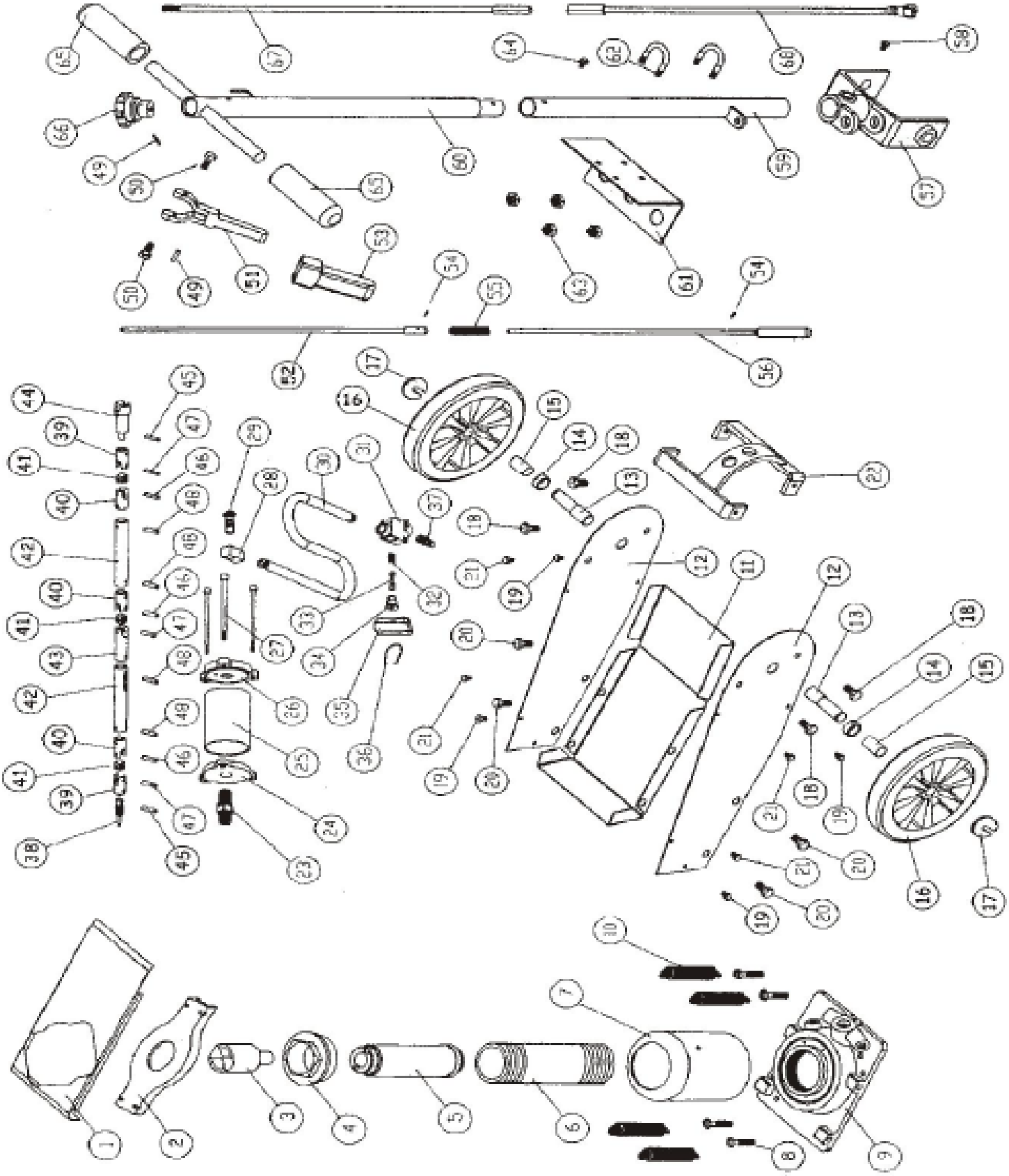
SAVE THESE WARNINGS

SPECIFICATIONS

CAPACITY	22 Tons
HEIGHT MOVEMENT	8-7/8"
RAM	17-1/8"
AIR INLET FITTING	2.1" Diameter, 4/34" Length
WEIGHT	1/4 NPT
WHEEL DIAMETER	72
AIR HOSE	3/8" (O.D.) x 48" Long with crimped hose fittings
AIR PRESSURE	120-200PSI

22.30.35TON AIR/HYDRAULIC SERVICE JACK

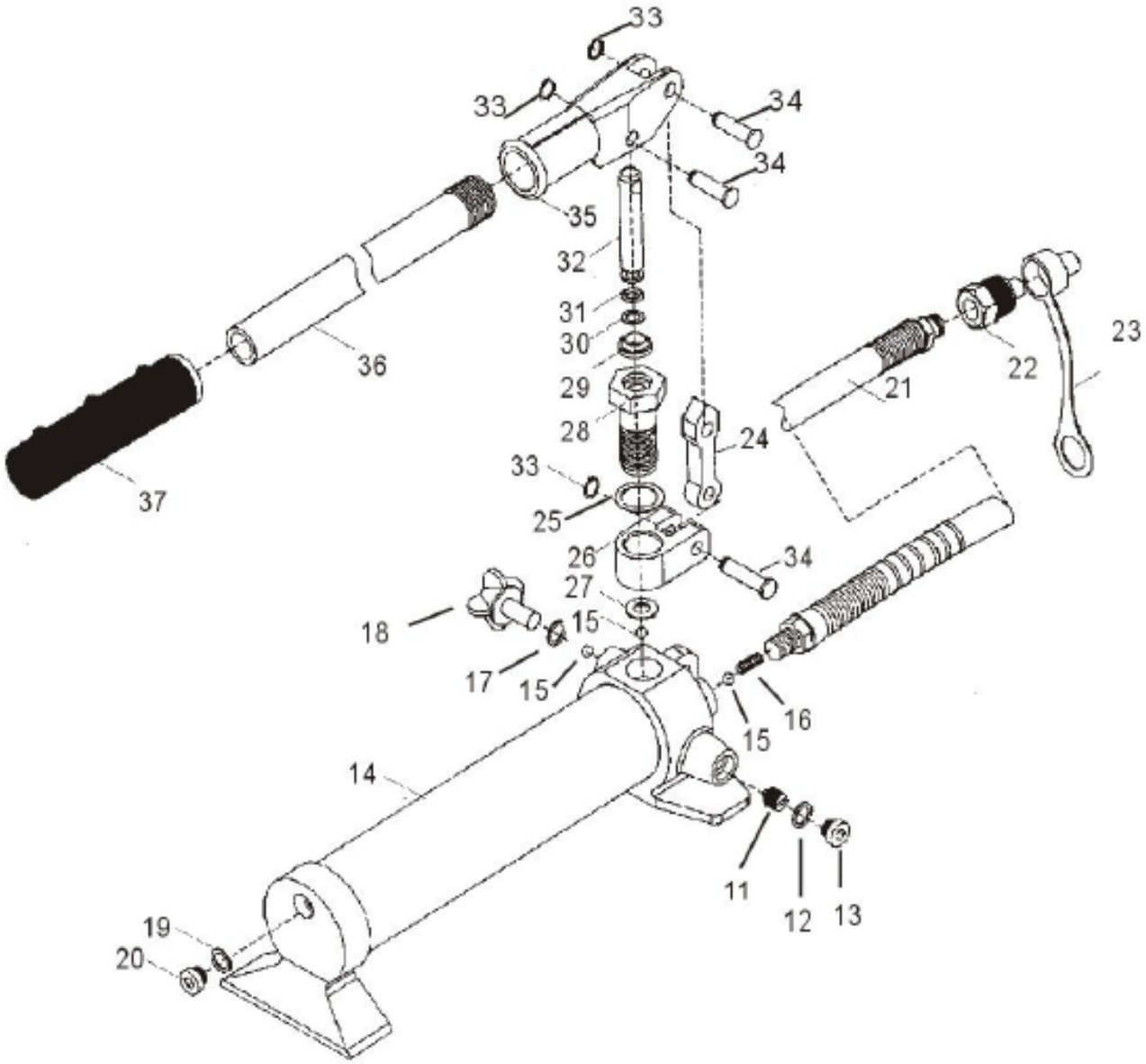
ASSEMBLY DRAWING



PARTS LIST

NO.	DESCRIPTION	QTY	NO.	DESCRIPTION	QTY
1	Cover	1	35	Handle Cover	1
2	Top Cover	1	36	Lock Spring	1
3	Rod	4	37	Union	1
4	End Cover	1	38	Oil Return Valve	1
5	Piston	1	39	Universal Joint	2
6	Ram	1	40	Universal Joint	3
7	Cover	1	41	Connecting Block	3
8	Screw	4	42	Connecting Pipe	2
9	Base	1	43	Universal Joint	1
10	Spring	1	44	Universal Joint	1
11	Base Plate	1	45	Pin 03	2
12	Side Plate	2	46	Pin 05	3
13	Wheel Axis	2	47	Rivet 03	3
14	Bush	2	48	Spring Pin 04	4
15	Bush	2	49	Spring Pin 03	2
16	Wheel	2	50	Screw M6	2
17	Snap Ring	2	51	Adjustable Handle	1
18	Screw M10	4	52	Adjustable Pole	1
19	Screw M6	4	53	Handle Cover	1
20	Screw M10	4	54	Snap Pin	2
21	Screw M5	4	55	Adjustable Spring	1
22	Side Plate Support	1	56	Adjustable Pole	1
23	Union	1	57	Handle Support	1
24	Tri-angle Base Plate	1	58	Screw M8	1
25	Cylinder	1	59	Handle	1
26	Tri-angle Top Plate	1	60	Handle	1
27	Hex Bolt M8	3	61	Top Frame	1
28	Swivel Connector	1	62	U-Bolt M8	2
29	Swivel Connector	1	63	Nut M8	4
30	Rubber Hose	1	64	Screw M6	1
31	Case	1	65	Handle Cover	2
32	Taper Spring	1	66	Knob	1
33	Piston Rod	1	67	Oil Return Valve	1
34	Throttle	1	68	Oil Return Valve	1

PARTS DIAGRAM



NO.	DESCRIPTION	NO.	DESCRIPTION	NO.	DESCRIPTION	NO.	DESCRIPTION
1	Metal Box	13	Screw	25	Sealing Ring	37	Handle Sleeve
2	Tube	14	Reservoir	26	Socket Base	38	Cylinder
3	Base	15	Steel Ball	27	Copper Washer	39	Screw Cover
4	Spreader Ram Toe	16	Spring	28	Pump Reservoir	40	Bushing
5	Plate Head	17	O-Ring	29	Dust Proof Ring	41	Screw
6	wedge Head	18	Oil Return Valve	30	O-Ring	42	Nuts
7	Square Head	19	O-Ring	31	Nylon Sealing	43	Pull Spring
8	Movable Connection	20	Screw	32	Piston	44	Retaining Ring
9	Serrated Saddle	21	Hydraulic Hose	33	Retaining Ring	45	Ring
10	Rubber Head	22	Coupler	34	Pin	46	Nylon Sealing
11	Screw	23	Dust Proof Cover	35	Handle Socket		
12	O-Ring	24	Connect Tube	36	Handle		

Lifting:

1. Assemble the handle, according to the assembly drawing.

2. Turn the handwheel clockwise until snug.

3. Adjust the handle angle degree as needed to place the jack into position under the load.

4. Adjust the extension screw as needed.

5. Connect the air supply hose lock fitting into the air inter fitting. The lever should be OFF, not in the locked postion.

6. Press the lever to the ON position and lock using the lock lever. This provides a continous air supply to the air motor.

7. Raise the jack by altenately lifting and lowering the handle assembly.

Lowering:

CAUTION: Avoid rapid descent of the load. Turn the release valve off slowly.

1. Release the lock level to stop air flow to the air motor.

2. Remove the air supply hose from the air inlet fitting.

3. Lower the extension screw as needed by turning clockwise.

4. Remove the jack.

MAINTENANCE

IMPORTANT: Use only good hydraulic jack oil. Avoid mixing different types of fluid and **NEVER** use brake fluid, turbine oil, transmission fluid, motor oil or glycerin. Improper fluid can cause premature failure of the jack and the potential for sudden and immediate loss of the load.

General Care:

1. Periodically lubricate the joints and extension screw with light oil as needed.

2. Clean the outside of the jack with a clean, dry cloth.

3. If the jack is exposed to moisture, wipe with a dry cloth and lubricate as noted above.

4. Store jack with the extension screw and ram fully collapsed.

Purging Air from the Hydraulic System:

Air bubbles can become trapped inside the hydraulic system, therby reducing the efficiency of the jack. Purge the aor from the system if the lift efficiency drops.

1. Turn the handwheel 1-1/2 turns counterclockwise.

2. Remove the oil filter plug on the side of the jack reservoir by gently pulling.

3. Connect the air supply hose lock fitting into the air inlet fittong. Open the air valve and work for a moment to purge air from the hydraulic system.

4. Turn the handwheel clockwise until snug.

5. Top off jack reservoir as described below, then replace the filter plug.

Oil Replacement:

1. Place the jack in an upright postion.

2. Completely lower the ram.

3. Remove the filter plug.

4. Fill with high quality hydraulic jack oil to the lower rim of the fill hole.

5. Purge air from the hydraulic system as previously described.

6. Top off with more hydraulic oil.

7. Replace the filter plug.

PROBLEM	POSSIBLE CAUSE	POSSIBLE SOLUTION
Jack will not lift load	Release valve not tightly closed. Overload condition. Air supply inadequate	Esure release valve tightly closed. Remedy overload condition. Ensure adequate air supply
Jack bleeds off after lift	Release valve not tightly closed. Overload condition. Hydraulic unit malfunction	Ensure relase valve is tightly closed. Remedy overload condition
Jack will not lower after unloading	Reservoir overlifted. Linkages binding	Drain fluid to proper level. Clean and moving parts
Poor lift performance	Fluid level low. Air trapped in system	Ensure proper fluid level. With ram fully retracted, remove the oil filter, plug to let pressurized air escape, reinstall oil filler plug
Will not lift to full extension	Fluid level low	Ensure proper fluid levels

DISCLAIMER

PLEASE READ THE FOLLOWING CAREFULLY

THE MANUFACTURER AND/OR DISTRIBUTOR HAS PROVIDED THE PARTS LIST AND ASSEMBLY DIAGRAM IN THIS MANUAL AS A REFERENCE TOOL ONLY. NEITHER THE MANUFACTURER OR DISTRIBUTOR MAKES ANY REPRESENTATION OR WARRANTY OF ANY KIND TO THE BUYER THAT HE OR SHE IS QUALIFIED TO MAKE ANY REPAIRS TO THE PRODUCT, OR THAT HE OR SHE IS QUALIFIED TO REPLACE ANY PARTS OF THE PRODUCT. IN FACT, THE MANUFACTURER AND/OR DISTRIBUTOR EXPRESSLY STATES THAT ALL REPAIRS AND PARTS REPLACEMENTS SHOULD BE UNDERTAKEN BY CERTIFIED AND LICENSED TECHNICIANS, AND NOT BY THE BUYER. THE BUYER ASSUMES ALL RISK AND LIABILITY ARISING OUT OF HIS OR HER REPAIRS TO THE ORIGINAL PRODUCT OR REPLACEMENT PARTS THERETO, OR ARISING OUT OF HIS OR HER INSTALLATION OF REPLACEMENT PARTS THERETO.

Record Product's Serial Number Here:_____

Note: If product has no serial number, record month and year of purchase instead.

Note: Some parts are listed and shown for illustration purposes only and are not available individually as replacement parts.

⚠ SAVE THESE INSTRUCTIONS.

Questions, Problems or Missing Parts?

Before returning to a retailer, our exceptional customer service is available to help.

Call Us: 909.628.4900

Hours of Operation: 9 to 4pm PST, Monday - Friday

Email: info@starktoolsusa.com

PRODUCT MADE IN CHINA