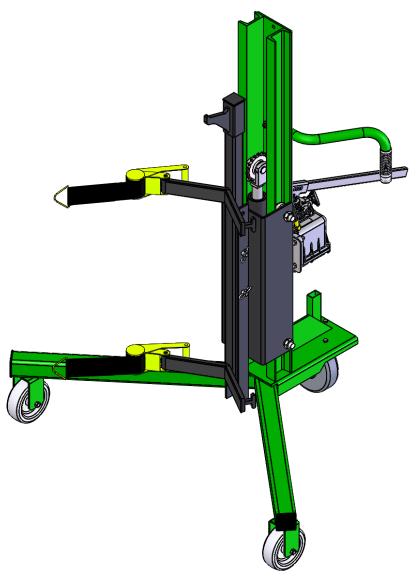


# **RAPTOR -HARRIER ATTCHMENT F88576B4**





**Instruction Manual Z40586A7** 

### **Notice to Purchaser**

All statements, technical information, and recommendations related to Valley Craft's products are based on information believed to be reliable, but the accuracy or completeness is not guaranteed. Before using this product, you must determine if it is suitable for your intended application or situation. You assume all risks and liability associated with such use or implementation.

### **Product Testing**

We perform vigorous in-house safety and durability testing to ensure that the performance of our products meets the demands of the workplace. We also expect the same from manufactures who supply components for our products. We do this to ensure that Valley Craft is a name that our customers trust and associate with quality.

#### Publication Revision Notice

Following is a history of changes to this publication, including the current revision.

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# **Safety**

Read and understand all safety information and become familiar with all safety symbols contained in this section before moving, operating or performing maintenance on this equipment.

## Safety Overview

The following general safety precautions must be observed during all phases of operation, service, and repair of this equipment. Failure to comply with these precautions or with specific safety messages elsewhere in this manual may impair the protection provided by the equipment. Such noncompliance would also violate safety standards of design, manufacture, and intended use of the instrument.

- Observe all safety signs posted in your facility.
- Observe warnings, cautions, handling information, storage requirements and other information on all container labels.
- Wear safety glasses with side shields.
- Wear the proper protective clothing, gloves and other protective equipment before handling any chemicals.
- Group the containers for the move by Hazard Class. Do not move acids with toxics, or oxidizers.
- Use maximum care and good judgment in preventing accidents and injuries and seeking first aid.
- Report unsafe conditions, equipment, practices, and on-job injuries.
- Understand your supervisor's instructions. Ask questions if you do not know how to do the job safely.
- Do not engage in tasks which you believe might be unsafe without consulting your supervisor.
- Clean up the work area and equipment upon job completion.
- Before you start work on any electrical system or circuit, check all power sources to ensure that the system or circuit is de-energized.
- Know the hazardous or potentially hazardous substances you work with or are present in your work area. Review Material Safety Data Sheets (MSDS) on these substances, or contact your supervisor.

# Safety Message Conventions

There are three types of safety notices contained in this manual: **Danger**, **Warning**, and **Caution** notices. These notices precede the procedural step or portion of text that presents the safety hazard.



# DANGER

 DANGER indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury. This signal word is to be limited to the most extreme situations.



## WARNING

 WARNING indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.



# CAUTION

 CAUTION indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices

### Material Safety Data Sheets (MSDS)

A Material Safety Data Sheet (MSDS) provides information on the safe use, handling and potential hazards of a product. This information assists with the proper response in the event of an emergency.

Valley Craft maintains material safety data sheets (MSDSs) on all our products. You are urged to obtain copies of the relevant MSDSs before using our products to protect yourself and others against any known health or safety hazards described in these MSDSs. Valley Craft strives to make safety a top priority. Do not hesitate to contact us to discuss any safety aspects of our products.

### The relevant MSDS codes for Valley Craft products are listed below.

www.conocophillips.com
 Super ATF Transmission Oil, MSDS Code 778846
 Super-Sta Grease, MSDS Code 775440

• www.batteriesplus.com

Sealed Lead Acid Battery SLA for the English version SLA Sp for the Spanish version

Paint

Contact Valley Craft Customer Service at 1-800-328-1480 or on the Web at <a href="mailto:customer@valleycraft.com">customer@valleycraft.com</a>

### Additional Safety Information

As with any mechanical device, care must be taken during the installation, operation, and maintenance of the device in order to realize the maximum benefit from its ownership.

When raising and lowering the load, be aware of pinch points. Keep hands and feet away from these areas.

When transporting a load, it is recommended that the cylinder is lowered as close to the floor as possible to reduce the chances of accidents during transport.

Do not leave load suspended for and extended period of time or premature wear to the lifting cylinder may occur.

Activate safety brake on the swivel caster when Harrier is not in use.

**Note**: All personnel involved in the use and maintenance of this device should be thoroughly familiar with the information contained in this manual. Furthermore, it is recommended that all personnel be given adequate instruction and a sufficient period of training in its actual use to insure safety of personnel and proper care of the equipment. It is suggested that the unit be initially operated empty until becoming familiar with how the unit handles.

## **Product Description**

The Harrier has been engineered for easy access and maneuverability. The simple design safely secures and transports gas and cryogenic cylinders with ease. It allows the operator to safely manipulate a variety of cylinder types and sizes 9in. to 24in. diameter, up to 800#, while reducing injury to the operator.

## Specifications

The Harrier specifications are shown in Table 1.

Table 1. Specifications

Dimensions	Height 62in x Width 50" x Depth 40"
Weight	231 lbs
Load Capacity	800 lbs
Cylinder Lift	Hand operated heavy duty hydraulic pump
Cylinder Grab	Cylinder Hook
	Two ratchet strap assemblies
Hydraulic Fluid Capacity	48 Ounces
Wheels	Rear swivel 8 x 2 phenolic caster with brake
	Front two 6 x 2 phenolic casters

### Features

The Harrier offers state-of-the-art design with many advanced features.

- Hand operated heavy duty hydraulic pump to raise and lower the drum
- Hands Free cylinder hook and ratchet straps
- V-leg design makes it an efficient way of handling cylinders on and around pallets.
- The small foot print is ideal for negotiating narrow aisles and doorways.
- Rear swivel phenolic caster with brake and two front fixed phenolic wheels allows the operator to move cylinders easily

## Receiving and Inspecting

When unpacking the Harrier, inspect the equipment for damage or mishandling. If damage is noted, file a damage claim with the carrier within 24 hours and call Valley Craft at 1-800-328-1480. Do not attempt to use the equipment.

Compare the contents of the shipment with the bill of lading. Report any missing items to the carrier and to Valley Craft immediately.

### Operating Procedures

Only authorized personnel are permitted to use the Harrier. Every load and every situation is different. Every lift must be evaluated and planned. Observe the following procedures when using this equipment.

#### To RAISE the Ratchet Assemblies:

Position the lever on top of the hydraulic pump in the left horizontal position, move the pump handle up and down.

#### To LOWER the Ratchet Assemblies:

The speed of decent can be regulated by rotating the lever on top of the hydraulic pump from the left horizontal position to the right horizontal position. To stop lowering, move the lever back to the left horizontal position.

### To Handle Gas Cylinders:

- A. Turn cylinder hook sideways (perpendicular) to the cylinder cradle. Cylinder Hook is not used with gas cylinders.
- B. Raise/Lower cylinder cradle to a position that is centered on the cylinder.
- C. Move the Harrier forward until the cylinder cradle comes in contact with the cylinder.
- D. Wrap the nylon straps of the ratchet assemblies around the cylinder, hook onto the welded "T", and ratchet straps until tight.
- E. Raise the cylinder and transport as needed.
- F. Release the cylinder by setting to the floor, depressing the release on the ratchet assembly and unhooking the strap from the welded "T".

### To Handle Cryogenic Cylinders:

- A. Turn cylinder hook facing forward at the top of the cylinder cradle.
- B. Raise/Lower the cylinder cradle in order to engage the "eye-hole" near the top of the cylinder.
- C. Move the Harrier forward until the cylinder cradle comes in contact with the cylinder
- D. Raise the cylinder and transport as needed.
- E. **NOTE:** The ratchet assemblies do not need to be used, but are recommended when transporting over long distances or over rough surfaces. See above steps for ratchet instructions.

### Maintenance and Adjustment Procedures

To keep the Harrier operating properly, timely maintenance and adjustments are required. These procedures should be performed only by qualified personnel who are familiar with the equipment.

As with any mechanical hydraulic actuator (piston rods, rotating pump shaft, etc.) the shaft will become coated with a minute amount of oil from the internal high pressure system. The rod protruding from the cylinder and hand pump may feel damp with oil after use. This is desirable because the oil coating serves to lubricate the shaft seal, reducing friction and assuring extended seal life.

Maintenance and adjustment procedures are shown in Table 1.

Table 1. Maintenance and Adjustment Procedures

Component	Frequency	Operation	Procedure
Cylinder	As required	Leaking	Replace seal.
		Hydraulic fluid	Order Z20768A5 Seal Kit - See Sheet # 10
Hand	As required	Leaking	Replace seal.
Pump		hydraulic fluid	Order Z20519A7 Seal Kit - See Sheet # 10
Chain	As required	Lubricate	Oil Chain
Hydraulic Fluid	Every 40 hours or after long	Check Fluid	Make sure cylinder is fully retracted. Fill Reservoir to within 1 in. to 2 in. of the fill hole. Use Super ATF Transmission Fluid.
set-aside periods Yearly	Flush hydraulic system	*NOTE: To fill/change reservoir, remove pump pod that sits on top of reservoir. See below	
		Drain all hydraulic fluid and replace with 48 ounces of Super ATF Transmission Fluid. Make sure	
	At Start of	Operate	cylinder is fully retracted.
Shift		Fully extend lift cylinder to purge oil from rod end of the cylinder	
Ratchet	At Start of	Visually	Check nylon straps for wear and replace as
Assembly	Shift	Inspect	necessary

# Troubleshooting Procedures

The Harrier is a quality product that is designed and manufactured to provide prolonged service under normal operating conditions. If troubleshooting is required, it should be performed only by qualified personnel who are familiar with the equipment.

# Replacement Procedures

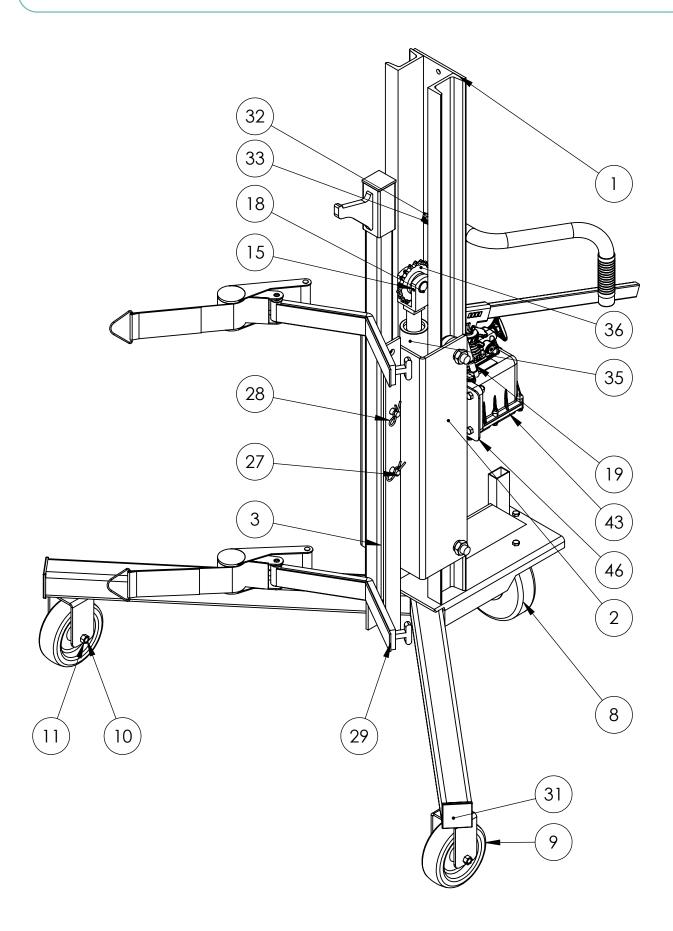
Occasionally, it may be necessary to replace a part that has been damaged or worn. Many parts on the Harrier are replaceable. If replacement of a part is required, it should be performed only by qualified personnel who are familiar with the equipment.

See sheet 12 for available replacement parts. Identify the part number you need. Contact Valley Craft Customer Service at 1-800-328-1480 or on the web at customer@valleycraft.com.

Information required when contacting Valley Craft:

- A. Company name and address
- B. Contact persons name
- C. Telephone number
- D. E-Mail address
- E. Model Number
- F. Date of Manufacture
- G. Part number of parts ordering

The model number and date of manufacture is stamped on a metal tag located on the frame above the push handle.



TIEM NO.   PART   DESCRIPTION   QTY.			BOM Table	
The company	ITEM NO		DESCRIPTION	OTY
2 F64984A6 HARRIER ASSY-ATIMT 3 F64499A3 HARRIER RS ATIMT 4 F64498A4 HARRIER HOOK WLDMT-ATIMT 5 F62980A9 RATCHET ASSY-2.0X53.00 7000 2 6 Z40469A9 DECAL-LOAD CAP 800 1 7 Z40457A3 DECAL-CAUTION STRADDLE LIFT 1 8 Z30538A8 CSTR-8X2 SWL PHN TLB 1 9 Z30552A4 WHL-6 x 2 PNH 2 10 Z10585A9 S-HHC 1/2-13X3-1/4 2 11 Z10393A3 NUT-LOCK 1/2-13 2 11 Z10113A2 S-HHC 1/4-20X1-1/4 13 Z10043A7 NUT-NUT-NIX NE 1/4-20 2 14 Z20734A0 BREATHER 4 SAE SINTEREDCOMES WITH CYLINDERS 1 5 Z10072A1 PIN-SPG 1/4X1-1/2 1 16 Z20615A7 FTG STR 6400-4-4-O 1 1 7 Z10241A7 BOLT-U 5/16-18 X 2-1/2 1 18 F52067A6 PIN-CLEVIS 1.00X2.375 (KANBAN) 1 19 Z20736A8 HOSE-20.00/613 2 0 Z10045A5 NUT-NYL NE 5/16-18 2 2 Z10186A4 S-SHC 1/4-20X1/2 GR8 1 22 Z10186A4 S-SHC 1/4-20X1/2 GR8 1 22 Z10123A0 S-HHC 5/16-18X1 2 2 Z10123A0 S-HC 5/16-18X1 2 2 Z1006A4 NUT-HEX KEPS 5/16-18 2 2 Z10123A0 S-HC 5/16-18X1 2 2 Z10123A0 S-HC 5/16-18X1 2 2 Z1006A4 NUT-HEX KEPS 5/16-18 2 2 Z1 Z1020A6 NUT-HEX FULL 1/2-13 2 2 Z1 Z1020A6 NUT-HEX FULL 1/2-13 2 2 Z1 Z1 Z1 Z	112//11/0.	NUMBER		۷11،
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8 Z30538A8 CSTR-8X2 SWL PHN TLB 1 9 Z30552A4 WHL-6 x 2 PNH 2 10 Z10585A9 S-HHC 1/2-13X3-1/4 2 11 Z10393A3 NUT-LOCK 1/2-13 2 12 Z10113A2 S-HHC 1/4-20X1-1/4 2 13 Z10043A7 NUT-NYL NE 1/4-20 2 14 Z20734A0 BREATHER 4 SAE SINTEREDCOMES WITH CYLINDERS 1 15 Z10072A1 PIN-SPG 1/4X1-1/2 1 16 Z20615A7 FTG STR 6400-4-4-O 1 17 Z10241A7 BOLT-U 5/16-18 X 2-1/2 1 18 F52067A6 PIN-CLEVIS 1.00X2.375 (KANBAN) 1 19 Z20736A8 HOSE-20.00/613 1 20 Z10045A5 NUT-NYL NE 5/16-18 2 21 Z10186A4 S-SHC 1/4-20X1/2 GR8 1 23 Z10035A7 NUT-HEX KEPS 1/4-20 4 24 Z10020A6 WASHER-1/4 FLAT USS 4 22 Z10186A4 S-SHC 1/4-20X1/2 GR8 1 23 Z10035A7 NUT-HEX KEPS 1/4-20 4 24 Z10020A4 NUT-HEX FULL 1/2-13 2 25 Z10123A0 S-HHC 5/16-18X1 2 26 Z10036A6 NUT-HEX FULL 1/2-13 2 27 Z30573A3 PIN-CLEVIS 1/2 X 3 2 28 Z10036A6 NUT-HEX KEPS 5/16-18 2 27 Z30573A3 PIN-CLEVIS 1/2 X 3 2 28 Z10064A1 PIN-HITCH CLIP #16 1/8 X 1.44 2 29 Z50037A1 RUBBER PAD-1/8 X 1-3/4 ADH 2 30 Z10525A3 BUSH-SPAN 3/4X1/2x2-7/16 2 31 Z30083A6 CAPLUG 2-1/2 SQ X 11GA 2 32 Z10006A2 WASHER-3/8 FNDR 2 33 Z10004A3 NUT-NYL NE 3/8-16 2 34 Z50085A2 GRIP-HDL 1-1/4" BLK 2 35 Z20755A8 CYL ASSY/RAPTOR 1 36 F63091A3 SPROCKET ASSY/SDC IB BRG 1.01 (purchased) 37 Z20704A0 FTG 90 6500-4-4 SWL 1 38 Z10122A1 S-HHC 5/16-18X3/4 2 41 F63858RB CHAIN-RLR ASSY LONG 1 42 Z10134A7 S-HHC 3/8-16X1-1/2 4 43 Z20202A4 WASHER-3/8 FLAT SAE 4	6			<u> </u>
9				<u> </u>
10   Z10585A9   S-HHC 1/2-13X3-1/4   2   11   Z10393A3   NUT-LOCK 1/2-13   2   2   Z10113A2   S-HHC 1/4-20X1-1/4   2   2   3   Z10043A7   NUT-NYL NE 1/4-20   2   2   3   Z10043A7   NUT-NYL NE 1/4-20   2   3   Z100734A0   BREATHER 4 SAE SINTEREDCOMES   WITH CYLINDERS   1   15   Z10072A1   PIN-SPG 1/4X1-1/2   1   16   Z20615A7   FTG STR 6400-4-4-O   1   17   Z10241A7   BOLT-U 5/16-18 X 2-1/2   1   18   F52067A6   PIN-CLEVIS 1.00X2.375 (KANBAN)   1   19   Z20736A8   HOSE-20.00/613   1   2   Z10200A6   WASHER-1/4 FLAT USS   4   2   Z10200A6   WASHER-1/4 FLAT USS   4   2   Z101035A7   NUT-HEX KEPS 1/4-20   4   2   Z10020A4   S-SHC 1/4-20X1/2 GR8   1   2   Z10200A6   NUT-HEX FULL 1/2-13   2   2   Z   Z1013A0   S-HHC 5/16-18X1   2   Z   Z   Z   Z   Z   Z   Z   Z   Z	8			<u> </u>
12	· ·	<del> </del>		2
12			- , ,	2
14				2
14	12			2
14	13	Z10043A/		
15	14	Z20734A0		1
16         Z20615A7         FTG STR 6400-4-4-O         1           17         Z10241A7         BOLT-U 5/16-18 X 2-1/2         1           18         F52067A6         PIN-CLEVIS 1.00X2.375 (KANBAN)         1           19         Z20736A8         HOSE-20.00/613         1           20         Z10045A5         NUT-NYL NE 5/16-18         2           21         Z10200A6         WASHER-1/4 FLAT USS         4           22         Z10186A4         S-SHC 1/4-20X1/2 GR8         1           23         Z10035A7         NUT-HEX KEPS 1/4-20         4           24         Z10020A4         NUT-HEX FULL 1/2-13         2           25         Z10123A0         S-HHC 5/16-18X1         2           26         Z10036A6         NUT-HEX KEPS 5/16-18         2           27         Z30573A3         PIN-CLEVIS 1/2 X 3         2           28         Z10064A1         PIN-HITCH CLIP #16 1/8 X 1.44         2           29         Z50037A1         RUBBER PAD-1/8 X 1-3/4 ADH         2           30         Z10525A3         BUSH-SPAN 3/4X1/2x2-7/16         2           31         Z30083A6         CAPLUG 2-1/2 SQ X 11GA         2           32         Z100047A3         NUT-NYL NE	15	710072A1		1
17         Z10241A7         BOLT-U 5/16-18 X 2-1/2         1           18         F52067A6         PIN-CLEVIS 1.00X2.375 (KANBAN)         1           19         Z20736A8         HOSE-20.00/613         1           20         Z10045A5         NUT-NYL NE 5/16-18         2           21         Z10200A6         WASHER-1/4 FLAT USS         4           22         Z10186A4         S-SHC 1/4-20X1/2 GR8         1           23         Z10035A7         NUT-HEX KEPS 1/4-20         4           24         Z10020A4         NUT-HEX FULL 1/2-13         2           25         Z10123A0         S-HHC 5/16-18X1         2           26         Z10036A6         NUT-HEX KEPS 5/16-18         2           27         Z30573A3         PIN-CLEVIS 1/2 X 3         2           28         Z10064A1         PIN-HITCH CLIP #16 1/8 X 1.44         2           29         Z50037A1         RUBBER PAD-1/8 X 1-3/4 ADH         2           30         Z10525A3         BUSH-SPAN 3/4X1/2x2-7/16         2           31         Z30083A6         CAPLUG 2-1/2 SQ X 11GA         2           32         Z10006A2         WASHER-3/8 FNDR         2           33         Z10047A3         NUT-NYL NE 3/8-				1
18         F52067A6         PIN-CLEVIS 1.00X2.375 (KANBAN)         1           19         Z20736A8         HOSE-20.00/613         1           20         Z10045A5         NUT-NYL NE 5/16-18         2           21         Z10200A6         WASHER-1/4 FLAT USS         4           22         Z10186A4         S-SHC 1/4-20X1/2 GR8         1           23         Z10035A7         NUT-HEX KEPS 1/4-20         4           24         Z10020A4         NUT-HEX FULL 1/2-13         2           25         Z10123A0         S-HHC 5/16-18X1         2           26         Z10036A6         NUT-HEX KEPS 5/16-18         2           27         Z30573A3         PIN-CLEVIS 1/2 X 3         2           28         Z10064A1         PIN-HITCH CLIP #16 1/8 X 1.44         2           29         Z50037A1         RUBBER PAD-1/8 X 1-3/4 ADH         2           30         Z10525A3         BUSH-SPAN 3/4X1/2x2-7/16         2           31         Z30083A6         CAPLUG 2-1/2 SQ X 11GA         2           32         Z10006A2         WASHER-3/8 FNDR         2           33         Z10047A3         NUT-NYL NE 3/8-16         2           34         Z50085A2         GRIP-HDL 1-1/4" BLK<		†		1
19			PIN-CLEVIS 1 00X2 375 (KANBAN)	i
20		720736A8		<u> </u>
21       Z10200A6       WASHER-1/4 FLAT USS       4         22       Z10186A4       S-SHC 1/4-20X1/2 GR8       1         23       Z10035A7       NUT-HEX KEPS 1/4-20       4         24       Z10020A4       NUT-HEX FULL 1/2-13       2         25       Z10123A0       S-HHC 5/16-18X1       2         26       Z10036A6       NUT-HEX KEPS 5/16-18       2         27       Z30573A3       PIN-CLEVIS 1/2 X 3       2         28       Z10064A1       PIN-HITCH CLIP #16 1/8 X 1.44       2         29       Z50037A1       RUBBER PAD-1/8 X 1-3/4 ADH       2         30       Z10525A3       BUSH-SPAN 3/4X1/2x2-7/16       2         31       Z30083A6       CAPLUG 2-1/2 SQ X 11GA       2         32       Z10006A2       WASHER-3/8 FNDR       2         33       Z10047A3       NUT-NYL NE 3/8-16       2         34       Z50085A2       GRIP-HDL 1-1/4" BLK       2         35       Z20755A8       CYL ASSY/RAPTOR       1         36       F63091A3       SPROCKET ASSY-50C18 BRG 1.01       1         (purchased)       1         37       Z20704A0       FTG 90 6500-4-4 SWL       1         38				2
22         Z10186A4         S-SHC 1/4-20X1/2 GR8         1           23         Z10035A7         NUT-HEX KEPS 1/4-20         4           24         Z10020A4         NUT-HEX FULL 1/2-13         2           25         Z10123A0         S-HHC 5/16-18X1         2           26         Z10036A6         NUT-HEX KEPS 5/16-18         2           27         Z30573A3         PIN-CLEVIS 1/2 X 3         2           28         Z10064A1         PIN-HITCH CLIP #16 1/8 X 1.44         2           29         Z50037A1         RUBBER PAD-1/8 X 1-3/4 ADH         2           30         Z10525A3         BUSH-SPAN 3/4X1/2x2-7/16         2           31         Z30083A6         CAPLUG 2-1/2 SQ X 11GA         2           32         Z10006A2         WASHER-3/8 FNDR         2           33         Z10047A3         NUT-NYL NE 3/8-16         2           34         Z50085A2         GRIP-HDL 1-1/4" BLK         2           35         Z20755A8         CYL ASSY/RAPTOR         1           36         F63091A3         SPROCKET ASSY-50C18 BRG 1.01         1           37         Z20704A0         FTG 90 6500-4-4 SWL         1           38         Z1012A1         S-HHC 5/16-18X3/4 <td></td> <td></td> <td>,</td> <td></td>			,	
23         Z10035A7         NUT-HEX KEPS 1/4-20         4           24         Z10020A4         NUT-HEX FULL 1/2-13         2           25         Z10123A0         S-HHC 5/16-18X1         2           26         Z10036A6         NUT-HEX KEPS 5/16-18         2           27         Z30573A3         PIN-CLEVIS 1/2 X 3         2           28         Z10064A1         PIN-HITCH CLIP #16 1/8 X 1.44         2           29         Z50037A1         RUBBER PAD-1/8 X 1-3/4 ADH         2           30         Z10525A3         BUSH-SPAN 3/4X1/2x2-7/16         2           31         Z30083A6         CAPLUG 2-1/2 SQ X 11GA         2           32         Z10006A2         WASHER-3/8 FNDR         2           33         Z10047A3         NUT-NYL NE 3/8-16         2           34         Z50085A2         GRIP-HDL 1-1/4" BLK         2           35         Z20755A8         CYL ASSY/RAPTOR         1           36         F63091A3         SPROCKET ASSY-50C18 BRG 1.01         1           37         Z20704A0         FTG 90 6500-4-4 SWL         1           38         Z10122A1         S-HHC 5/16-18X3/4         2           39         Z41156A5         LABEL-VALLEYCRAFT PAPER	22		,	1
24         Z10020A4         NUT-HEX FULL 1/2-13         2           25         Z10123A0         S-HHC 5/16-18X1         2           26         Z10036A6         NUT-HEX KEPS 5/16-18         2           27         Z30573A3         PIN-CLEVIS 1/2 X 3         2           28         Z10064A1         PIN-HITCH CLIP #16 1/8 X 1.44         2           29         Z50037A1         RUBBER PAD-1/8 X 1-3/4 ADH         2           30         Z10525A3         BUSH-SPAN 3/4X1/2x2-7/16         2           31         Z30083A6         CAPLUG 2-1/2 SQ X 11GA         2           32         Z10006A2         WASHER-3/8 FNDR         2           33         Z10047A3         NUT-NYL NE 3/8-16         2           34         Z50085A2         GRIP-HDL 1-1/4" BLK         2           35         Z20755A8         CYL ASSY/RAPTOR         1           36         F63091A3         SPROCKET ASSY-50C18 BRG 1.01 (purchased)         1           37         Z20704A0         FTG 90 6500-4-4 SWL         1           38         Z10122A1         S-HHC 5/16-18X3/4         2           39         Z41156A5         LABEL-VALLEYCRAFT PAPER         1           40         Z40473A3         TAG	23		0 0110 17 1 201117 2 0110	1
31         Z30083A6         CAPLUG 2-1/2 SQ X 11GA         2           32         Z10006A2         WASHER-3/8 FNDR         2           33         Z10047A3         NUT-NYL NE 3/8-16         2           34         Z50085A2         GRIP-HDL 1-1/4" BLK         2           35         Z20755A8         CYL ASSY/RAPTOR         1           36         F63091A3         SPROCKET ASSY-50C18 BRG 1.01 (purchased)         1           37         Z20704A0         FTG 90 6500-4-4 SWL         1           38         Z10122A1         S-HHC 5/16-18X3/4         2           39         Z41156A5         LABEL-VALLEYCRAFT PAPER         1           40         Z40473A3         TAG/SERIAL NUMBER/PRINT 2 (COLORS)         1           41         F63858RB         CHAIN-RLR ASSY LONG         1           42         Z10134A7         S-HHC 3/8-16X1-1/2         4           43         Z20895A0         HAND PUMP w/HANDLE         1           44         Z10202A4         WASHER-3/8 FLAT SAE         4				2
31         Z30083A6         CAPLUG 2-1/2 SQ X 11GA         2           32         Z10006A2         WASHER-3/8 FNDR         2           33         Z10047A3         NUT-NYL NE 3/8-16         2           34         Z50085A2         GRIP-HDL 1-1/4" BLK         2           35         Z20755A8         CYL ASSY/RAPTOR         1           36         F63091A3         SPROCKET ASSY-50C18 BRG 1.01 (purchased)         1           37         Z20704A0         FTG 90 6500-4-4 SWL         1           38         Z10122A1         S-HHC 5/16-18X3/4         2           39         Z41156A5         LABEL-VALLEYCRAFT PAPER         1           40         Z40473A3         TAG/SERIAL NUMBER/PRINT 2 (COLORS)         1           41         F63858RB         CHAIN-RLR ASSY LONG         1           42         Z10134A7         S-HHC 3/8-16X1-1/2         4           43         Z20895A0         HAND PUMP w/HANDLE         1           44         Z10202A4         WASHER-3/8 FLAT SAE         4				2
31         Z30083A6         CAPLUG 2-1/2 SQ X 11GA         2           32         Z10006A2         WASHER-3/8 FNDR         2           33         Z10047A3         NUT-NYL NE 3/8-16         2           34         Z50085A2         GRIP-HDL 1-1/4" BLK         2           35         Z20755A8         CYL ASSY/RAPTOR         1           36         F63091A3         SPROCKET ASSY-50C18 BRG 1.01 (purchased)         1           37         Z20704A0         FTG 90 6500-4-4 SWL         1           38         Z10122A1         S-HHC 5/16-18X3/4         2           39         Z41156A5         LABEL-VALLEYCRAFT PAPER         1           40         Z40473A3         TAG/SERIAL NUMBER/PRINT 2 (COLORS)         1           41         F63858RB         CHAIN-RLR ASSY LONG         1           42         Z10134A7         S-HHC 3/8-16X1-1/2         4           43         Z20895A0         HAND PUMP w/HANDLE         1           44         Z10202A4         WASHER-3/8 FLAT SAE         4	26			2
31         Z30083A6         CAPLUG 2-1/2 SQ X 11GA         2           32         Z10006A2         WASHER-3/8 FNDR         2           33         Z10047A3         NUT-NYL NE 3/8-16         2           34         Z50085A2         GRIP-HDL 1-1/4" BLK         2           35         Z20755A8         CYL ASSY/RAPTOR         1           36         F63091A3         SPROCKET ASSY-50C18 BRG 1.01 (purchased)         1           37         Z20704A0         FTG 90 6500-4-4 SWL         1           38         Z10122A1         S-HHC 5/16-18X3/4         2           39         Z41156A5         LABEL-VALLEYCRAFT PAPER         1           40         Z40473A3         TAG/SERIAL NUMBER/PRINT 2 (COLORS)         1           41         F63858RB         CHAIN-RLR ASSY LONG         1           42         Z10134A7         S-HHC 3/8-16X1-1/2         4           43         Z20895A0         HAND PUMP w/HANDLE         1           44         Z10202A4         WASHER-3/8 FLAT SAE         4	27			2
31         Z30083A6         CAPLUG 2-1/2 SQ X 11GA         2           32         Z10006A2         WASHER-3/8 FNDR         2           33         Z10047A3         NUT-NYL NE 3/8-16         2           34         Z50085A2         GRIP-HDL 1-1/4" BLK         2           35         Z20755A8         CYL ASSY/RAPTOR         1           36         F63091A3         SPROCKET ASSY-50C18 BRG 1.01 (purchased)         1           37         Z20704A0         FTG 90 6500-4-4 SWL         1           38         Z10122A1         S-HHC 5/16-18X3/4         2           39         Z41156A5         LABEL-VALLEYCRAFT PAPER         1           40         Z40473A3         TAG/SERIAL NUMBER/PRINT 2 (COLORS)         1           41         F63858RB         CHAIN-RLR ASSY LONG         1           42         Z10134A7         S-HHC 3/8-16X1-1/2         4           43         Z20895A0         HAND PUMP w/HANDLE         1           44         Z10202A4         WASHER-3/8 FLAT SAE         4			,	$\frac{2}{2}$
31         Z30083A6         CAPLUG 2-1/2 SQ X 11GA         2           32         Z10006A2         WASHER-3/8 FNDR         2           33         Z10047A3         NUT-NYL NE 3/8-16         2           34         Z50085A2         GRIP-HDL 1-1/4" BLK         2           35         Z20755A8         CYL ASSY/RAPTOR         1           36         F63091A3         SPROCKET ASSY-50C18 BRG 1.01 (purchased)         1           37         Z20704A0         FTG 90 6500-4-4 SWL         1           38         Z10122A1         S-HHC 5/16-18X3/4         2           39         Z41156A5         LABEL-VALLEYCRAFT PAPER         1           40         Z40473A3         TAG/SERIAL NUMBER/PRINT 2 (COLORS)         1           41         F63858RB         CHAIN-RLR ASSY LONG         1           42         Z10134A7         S-HHC 3/8-16X1-1/2         4           43         Z20895A0         HAND PUMP w/HANDLE         1           44         Z10202A4         WASHER-3/8 FLAT SAE         4	29			2
31         Z30083A6         CAPLUG 2-1/2 SQ X 11GA         2           32         Z10006A2         WASHER-3/8 FNDR         2           33         Z10047A3         NUT-NYL NE 3/8-16         2           34         Z50085A2         GRIP-HDL 1-1/4" BLK         2           35         Z20755A8         CYL ASSY/RAPTOR         1           36         F63091A3         SPROCKET ASSY-50C18 BRG 1.01 (purchased)         1           37         Z20704A0         FTG 90 6500-4-4 SWL         1           38         Z10122A1         S-HHC 5/16-18X3/4         2           39         Z41156A5         LABEL-VALLEYCRAFT PAPER         1           40         Z40473A3         TAG/SERIAL NUMBER/PRINT 2 (COLORS)         1           41         F63858RB         CHAIN-RLR ASSY LONG         1           42         Z10134A7         S-HHC 3/8-16X1-1/2         4           43         Z20895A0         HAND PUMP w/HANDLE         1           44         Z10202A4         WASHER-3/8 FLAT SAE         4			·	$\frac{2}{2}$
32         Z10006A2         WASHER-3/8 FNDR         2           33         Z10047A3         NUT-NYL NE 3/8-16         2           34         Z50085A2         GRIP-HDL 1-1/4" BLK         2           35         Z20755A8         CYL ASSY/RAPTOR         1           36         F63091A3         SPROCKET ASSY-50C18 BRG 1.01 (purchased)         1           37         Z20704A0         FTG 90 6500-4-4 SWL         1           38         Z10122A1         S-HHC 5/16-18X3/4         2           39         Z41156A5         LABEL-VALLEYCRAFT PAPER         1           40         Z40473A3         TAG/SERIAL NUMBER/PRINT 2 COLORS         1           41         F63858RB         CHAIN-RLR ASSY LONG         1           42         Z10134A7         S-HHC 3/8-16X1-1/2         4           43         Z20895A0         HAND PUMP w/HANDLE         1           44         Z10202A4         WASHER-3/8 FLAT SAE         4				
33         Z10047A3         NUT-NYL NE 3/8-16         2           34         Z50085A2         GRIP-HDL 1-1/4" BLK         2           35         Z20755A8         CYL ASSY/RAPTOR         1           36         F63091A3         SPROCKET ASSY-50C18 BRG 1.01 (purchased)         1           37         Z20704A0         FTG 90 6500-4-4 SWL         1           38         Z10122A1         S-HHC 5/16-18X3/4         2           39         Z41156A5         LABEL-VALLEYCRAFT PAPER         1           40         Z40473A3         TAG/SERIAL NUMBER/PRINT 2 COLORS         1           41         F63858RB         CHAIN-RLR ASSY LONG         1           42         Z10134A7         S-HHC 3/8-16X1-1/2         4           43         Z20895A0         HAND PUMP w/HANDLE         1           44         Z10202A4         WASHER-3/8 FLAT SAE         4	32			2
35         Z20755A8         CYL ASSY/RAPTOR         1           36         F63091A3         SPROCKET ASSY-50C18 BRG 1.01 (purchased)         1           37         Z20704A0         FTG 90 6500-4-4 SWL         1           38         Z10122A1         S-HHC 5/16-18X3/4         2           39         Z41156A5         LABEL-VALLEYCRAFT PAPER         1           40         Z40473A3         TAG/SERIAL NUMBER/PRINT 2 COLORS         1           41         F63858RB         CHAIN-RLR ASSY LONG         1           42         Z10134A7         S-HHC 3/8-16X1-1/2         4           43         Z20895A0         HAND PUMP w/HANDLE         1           44         Z10202A4         WASHER-3/8 FLAT SAE         4	33			2
35       Z20755A8       CYL ASSY/RAPTOR       1         36       F63091A3       SPROCKET ASSY-50C18 BRG 1.01 (purchased)       1         37       Z20704A0       FTG 90 6500-4-4 SWL       1         38       Z10122A1       S-HHC 5/16-18X3/4       2         39       Z41156A5       LABEL-VALLEYCRAFT PAPER       1         40       Z40473A3       TAG/SERIAL NUMBER/PRINT 2 COLORS       1         41       F63858RB       CHAIN-RLR ASSY LONG       1         42       Z10134A7       S-HHC 3/8-16X1-1/2       4         43       Z20895A0       HAND PUMP w/HANDLE       1         44       Z10202A4       WASHER-3/8 FLAT SAE       4	34		GRIP-HDL 1-1/4" BLK	2
36         F63091A3         SPROCKET ASSY-50C18 BRG 1.01 (purchased)         1           37         Z20704A0         FTG 90 6500-4-4 SWL         1           38         Z10122A1         S-HHC 5/16-18X3/4         2           39         Z41156A5         LABEL-VALLEYCRAFT PAPER         1           40         Z40473A3         TAG/SERIAL NUMBER/PRINT 2 COLORS         1           41         F63858RB         CHAIN-RLR ASSY LONG         1           42         Z10134A7         S-HHC 3/8-16X1-1/2         4           43         Z20895A0         HAND PUMP w/HANDLE         1           44         Z10202A4         WASHER-3/8 FLAT SAE         4	35		CYL ASSY/RAPTOR	
37   Z20704A0   FTG 90 6500-4-4 SWL   1   38   Z10122A1   S-HHC 5/16-18X3/4   2   39   Z41156A5   LABEL-VALLEYCRAFT PAPER   1   40   Z40473A3   TAG/SERIAL NUMBER/PRINT 2   1   COLORS   1   41   F63858RB   CHAIN-RLR ASSY LONG   1   42   Z10134A7   S-HHC 3/8-16X1-1/2   4   43   Z20895A0   HAND PUMP w/HANDLE   1   44   Z10202A4   WASHER-3/8 FLAT SAE   4			SPROCKET ASSY-50C18 BRG 1.01	1
38         Z10122A1         S-HHC 5/16-18X3/4         2           39         Z41156A5         LABEL-VALLEYCRAFT PAPER         1           40         Z40473A3         TAG/SERIAL NUMBER/PRINT 2 COLORS         1           41         F63858RB         CHAIN-RLR ASSY LONG         1           42         Z10134A7         S-HHC 3/8-16X1-1/2         4           43         Z20895A0         HAND PUMP w/HANDLE         1           44         Z10202A4         WASHER-3/8 FLAT SAE         4	36	F63091A3	(purchased)	ı
38         Z10122A1         S-HHC 5/16-18X3/4         2           39         Z41156A5         LABEL-VALLEYCRAFT PAPER         1           40         Z40473A3         TAG/SERIAL NUMBER/PRINT 2 COLORS         1           41         F63858RB         CHAIN-RLR ASSY LONG         1           42         Z10134A7         S-HHC 3/8-16X1-1/2         4           43         Z20895A0         HAND PUMP w/HANDLE         1           44         Z10202A4         WASHER-3/8 FLAT SAE         4	37	Z20704A0	FTG 90 6500-4-4 SWL	1
39     Z41156A5     LABEL-VALLEYCRAFT PAPER     1       40     Z40473A3     TAG/SERIAL NUMBER/PRINT 2 COLORS     1       41     F63858RB     CHAIN-RLR ASSY LONG     1       42     Z10134A7     S-HHC 3/8-16X1-1/2     4       43     Z20895A0     HAND PUMP w/HANDLE     1       44     Z10202A4     WASHER-3/8 FLAT SAE     4	38		S-HHC 5/16-18X3/4	2
40     Z40473A3     TAG/SERIAL NUMBER/PRINT 2 COLORS     1       41     F63858RB     CHAIN-RLR ASSY LONG     1       42     Z10134A7     S-HHC 3/8-16X1-1/2     4       43     Z20895A0     HAND PUMP w/HANDLE     1       44     Z10202A4     WASHER-3/8 FLAT SAE     4	39		LABEL-VALLEYCRAFT PAPER	1
41       F63858RB       CHAIN-RLR ASSY LONG       1         42       Z10134A7       S-HHC 3/8-16X1-1/2       4         43       Z20895A0       HAND PUMP w/HANDLE       1         44       Z10202A4       WASHER-3/8 FLAT SAE       4	40	Z40473A3		1
42       Z10134A7       S-HHC 3/8-16X1-1/2       4         43       Z20895A0       HAND PUMP w/HANDLE       1         44       Z10202A4       WASHER-3/8 FLAT SAE       4	41	F63858RB	CHAIN-RLR ASSY LONG	1
43 Z20895A0 HAND PUMP w/HANDLE 1 44 Z10202A4 WASHER-3/8 FLAT SAE 4			S-HHC 3/8-16X1-1/2	4
44   Z10202A4   WASHER-3/8 FLAT SAE   4				
45 710500 4 7 NUT LIEV KEDO 0 (0.1.)	44			4
45  Z10500A/	45	Z10500A7	NUT-HEX KEPS 3/8-16	4
46 F57524 MOUNTING PLATE 1			MOUNTING PLATE	1

## Warranty and Limitation of Liability

Valley Craft products are warranted for a period of one (1) year from date of shipment from Valley Craft's plant to be free from defects in material and workmanship under correct use, normal operation and proper application. However, parts of other than Valley Craft manufacture are subject ONLY to the original manufacturer's warranty. Valley Craft's obligation under warranty shall be limited to repair or exchange, at Valley Craft's option, FOB origin factory, of any Valley Craft product or part which proves to be defective as provided herein. Valley Craft reserves the right to either inspect the product at Buyer's location, or require it to be returned to the factory for inspection. The warranty contained herein does not extend to goods damaged, or subject to accident, abuse or misuse after shipment from Valley Craft's factory, nor to goods altered or repaired by anyone other than an authorized Valley Craft representative.

Buyer or user shall not alter, modify or use a Valley Craft product for anything other than its intended function. Valley Craft shall not in any way be responsible for the consequences of any such alteration, modification or misuse.

VALLEY CRAFT MAKES NO EXPRESS WARRANTIES OTHER THAN THOSE WHICH ARE SPECIFICALLY DESCRIBED HEREIN. Any description of the goods sold hereunder, including any references to Buyer's specifications and any descriptions in catalogs, circulars and other written material published by Valley Craft, is for the sole purpose of identifying such goods and shall not create an express warranty that the goods shall conform to such descriptions.

THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED. THERE ARE NO IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THIS WARRANTY STATES VALLEY CRAFT'S ENTIRE AND EXCLUSIVE LIABILITY AND BUYER'S EXCLUSIVE REMEDY FOR ANY CLAIM OR DAMAGES IN CONNECTION WITH VALLEY CRAFT PRODUCTS, THEIR DESIGN. SUITABILITY FOR USE, INSTALLATION OR OPERATION OR FOR ANY CLAIMED DEFECTS. VALUEY CRAFT WILL IN NO EVENT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES WHATSOEVER, NOR FOR ANY SUM IN EXCESS OF THB PRICE RECEIVED FOR THE GOODS FOR WHICH LIABILITY IS CLAIMED.

## **Technical Assistance/Warranty Procedure**

#### What's Covered:

- Parts and Labor to correct manufacturer's defect within one year of purchase.
- Freight Cost

#### What's Not:

Normal wear items (seal kits, bearings, tires, etc.)

#### What Voids the Warranty:

- Dirt/Grime that directly causes malfunction of product
- Abuse (i.e. Overloading, damaged, not property maintained, etc.)
- Product altered by customer
  - \*See "Items not Under Warranty" below for items that have the warranty voided.

### Items Under Warranty (less than one year old):

Warranty replacement parts are provided only when the problem can be identified with near certainty. If not, the
customer will return item to Valley Craft, freight collect, for troubleshooting and/or repair. When repaired,
product will be returned to customer, freight prepaid. Otherwise, customer may call local authorized service
technician for assistance. Under this arrangement, replacement parts will be sent at no charge but labor
costs will NOT be covered.

### Items NOT Under Warranty (greater than one year old or "having warranty voided):

Customer will return item to valley Craft, freight prepaid, for troubleshooting and/or repair. Valley Craft will call
customer with \$\$ estimate of parts and labor for approval before repairing. Product will be returned to
customer, freight collect.



Valley Craft is a modern metals fabricating manufacturer specializing in material handling, storage and specialized solutions designed with safety and usability in mind, and the simplification of even the heaviest of workloads. Since developing the first hand truck with a brake in 1952, Valley Craft has been a true pioneer in safety-conscious material handling and solution-driven products. Our commitment to continuous improvement in a Lean Manufacturing environment results in safe, functional, quality equipment at affordable prices.

#### Valley Craft, Inc.

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