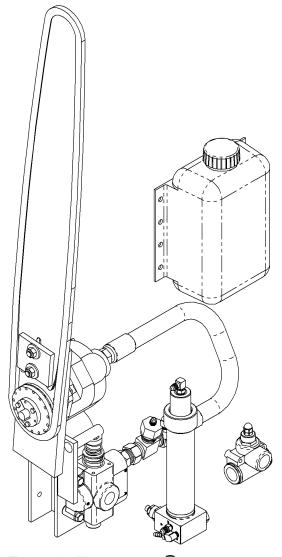
OPERATION AND PARTS MANUAL

DH0616 30G24 Simple Saw System





Information subject to change without notice.



SAFETY PRECAUTIONS

- ⇒ The unit you have purchased may require you to install additional guarding to meet State and Federal safety requirements.
- ⇒ Do not move the log when it is being cut or when the saw is down. This action may damage the bar, chain or other components or could cause bodily harm or injury.
- ⇒ The log must be clamped before cutting. The bar, chain or other components could be damaged. You could suffer bodily harm or injury.
- ⇒ Do not make repairs or adjustments to this product other than those listed in this manual except when directed to do so by 6K Products.
- ⇒ All persons working near this machine must wear eye protection and hearing protection.
- \Rightarrow Use extreme caution around the cutting chain. It is sharp and may cause bodily harm or injury.
- ⇒ Petroleum products are used with this product. Use appropriate caution when operating or servicing. These products are flammable and may cause eye or skin irritation.
- ⇒ Always use 6K Products approved parts when making repairs. Replacement parts must meet or exceed the specifications of the original equipment manufacturer.
- \Rightarrow The information in this manual is subject to change without notification.
- ⇒ This manual is intended for safe operation and maintenance of the 6K Products, 30G24 Simple Saw System. 6K Products, welcomes any and all suggestions on how to improve this manual or the 30G24 Simple Saw System.



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Introduction

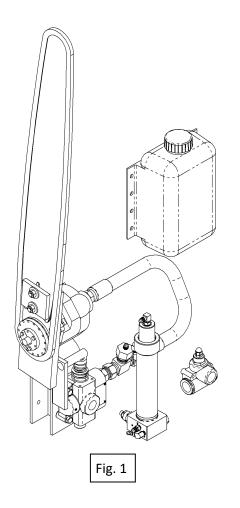
Thank you for purchasing a 6K Products product. Our goal is to provide quality products for your job. This manual contains warranty information, installation information, operation instructions, parts ordering information, and service contact information.

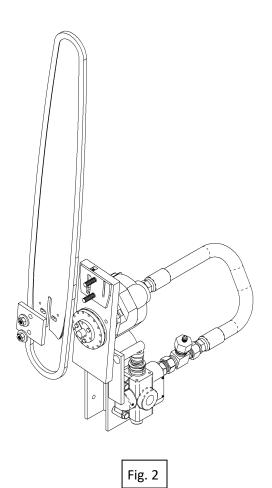
Warranty

This 6K Products product carries a one year or 2000 hour warranty on the 6K Products designed and built components covering material and workmanship. Purchased components carry the manufactures warranty. This warranty does not cover normal wear from use, damage from abuse or misuse, damage from contamination, damage from natural disasters, fire damage or incorrect installation. This warranty does not cover labor to remove and replace parts, shipping and handling of parts, or shipping and handling for items returned for repair. If any component fails you must contact 6K Products at (360)264-2141 before doing any repair work. We will provide assistance to obtain warranty from other manufactures on their components.

Installation

You will receive one box containing all the parts (Fig. 1). You will need to reassembly the saw unit as shown in figure 2.







After assembling the components as shown in figure 2, position the saw bar square to the log, at the correct height with clearance between the bar plate and the side of the largest log and weld down solidly (Fig. 3). The dimensions in figure 3 can be changed as required for your installation. Position the bar oil pump above the bar plate port when retracted, and below the bar oil tank with the bar oil tank positioned so it is easy to clean and fill. You will need to fabricate and position a lever to feed the saw through the cut and return it to the retracted position. You will need to make guarding to protect the operator from sawdust and touching the chain.

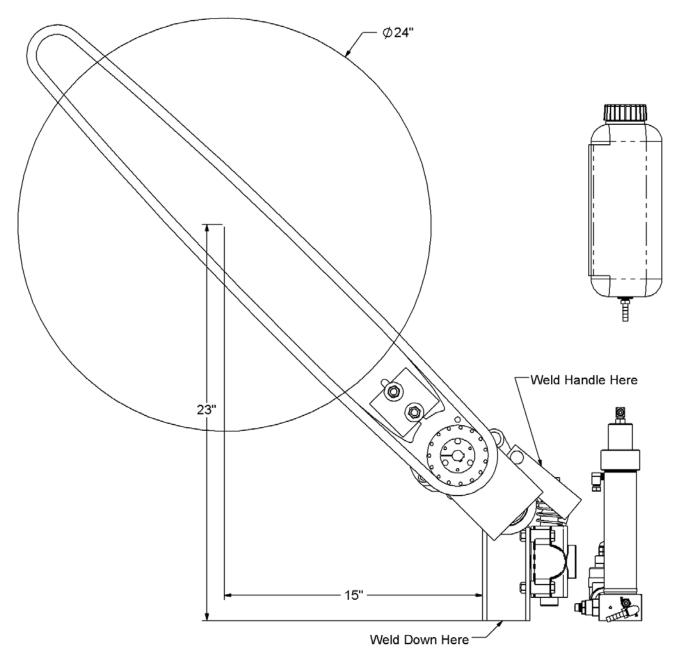


Fig. 3



Hydraulic Connections

The hydraulic requirements to operate the saw are 29 to 35 gallons per minute at 2000 psi from a fixed displacement hydraulic pump. You must install the pressure relief valve between the hydraulic pump and the selector valve to keep from damaging the hydraulic pump. Figure 4 shows hose connections for correct operation.

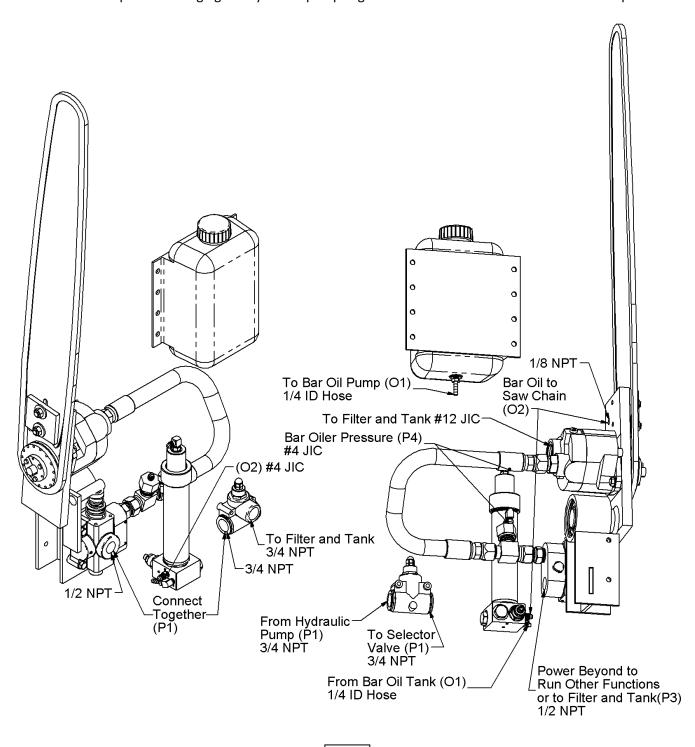


Fig. 4



The Power Beyond Port can connect to another valve for conveyor and clamp, or must go to the filter and tank. The return hose can be #12 or 3/4" diameter for the first two feet. If a longer hose is required it must be #16 or 1" up to twenty feet. If the total return hose length is greater than thirty three feet #20 or 1 1/4" hose should be used. The filter must be rated for 40 GPM plus any additional pump flowing into it. The saw motor should run between 4000 RPM and 5500 RPM. At this speed the pressure at the return to filter connection should not exceed 80 psi when the saw motor is running. We do not recommend using quick disconnects but if you choose to use quick disconnects in the tank line, first consult the manufacture to determine the correct size to keep the back pressure low enough in cold temperatures. Failure to properly size the hose and filter or properly connect the return hose to a filter and tank will shorten the motor shaft seal life and will not be covered by warranty.

Chain Tension and Sharpening

Figure 5 shows the chain tensioning screw. A #2 or #3 Phillips screwdriver is required to turn the tension screw. With the supplied saw bar, correct tension is when the cutters come off the rails roughly 1/8" with a tug of finger pressure. Refer to the Oregon Mechanical Timber Harvesting Handbook for more tensioning information and sharpening information.

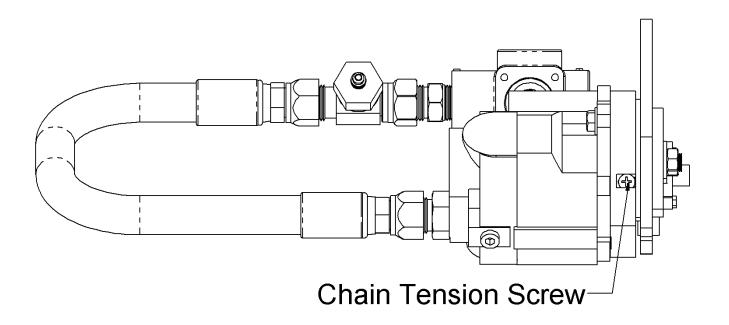
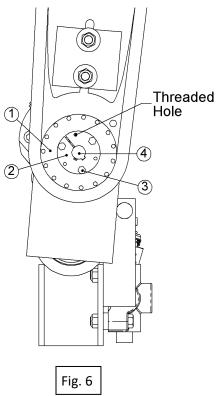


Fig. 5



Sprocket Removal and Replacement

The chain saw sprocket is connected to the shaft with a tapered bushing. To remove the sprocket remove the Cap Screws (Fig. 6, Item 3) and screw them into the Threaded Holes, tighten up to 36 inch pounds to push the Sprocket (Fig. 6, Item 1) off the Bushing (Fig. 6, Item 2). You may need to tap the Sprocket towards the motor with a hammer to assist in getting the Sprocket loose from the Bushing. Lightly drive a flat blade screwdriver into the slot of the Bushing.



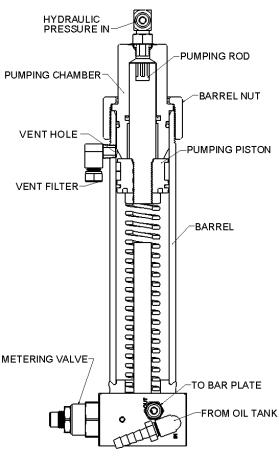
Pry between the Bushing and the Sprocket to get the Bushing off the shaft. Watch that the Drive Key (Fig. 6, item 4) does not get lost.

To install the Sprocket, slide the Sprocket (Fig. 6, item 1) over the motor shaft, slide the Bushing (Fig. 6, item 2) onto the shaft with the Drive Key (Fig. 6, item 4) aligned. Position the sprocket groove offset towards the motor about the width of the bar groove with the Bushing just contacting the Sprocket. Insert the Cap Screws (Fig. 6, item 3) through the large hole in the Bushing and screw them into the threaded holes of the Sprocket. Torque the Cap Screws (Fig. 6, item 3) to 36 inch pounds. Check to make sure the sprocket groove is aligned with the bar groove. If the alignment is not correct, remove and replace the sprocket and bushing and adjust the position before tightening the cap screws.



Bar Oil Pump Adjustments

The DH0144 bar oil pump (Fig. 7) is a single acting pump that can pump up to 32 cc, or 1.08 oz., of bar oil per cycle, enough for about 30 seconds of cutting. There is a hose connected to the selector valve manifold (Fig. 4, P4 page 6) that connects to the fitting (Fig. 7, hydraulic pressure in) on the bar oil pump. When a cut is started flow and pressure from the manifold pushes on the pumping rod and piston to force a metered amount of oil to the bar. Very little rotational adjustment is needed for the metering valve in Figure 7. Turning it clockwise reduces the speed oil is pumped and turning it counterclockwise increases the speed the oil comes out. If you run the tank out of oil you may need to prime the pump. To prime the pump remove the barrel nut and pull out the pumping chamber, pumping piston, and pumping rod. Fill the barrel with bar oil up to the vent hole. Reinstall the pumping rod assembly into the pumping chamber with care to not damage the rod seal. Reinstall the pumping chamber and pumping rod assembly into the barrel, with care to not damage the piston or the O-ring, and retighten the barrel nut. To reduce the chance of seal damage make sure the seals are oiled and wiggle in a circular motion as you push the parts together.





Operating Instructions

Before, and periodically during, operation you must check the bar oil level and chain tension. We recommend using a good quality bar oil of the correct viscosity for your areas operating temperatures. Because of the wide temperature range between winter and summer two different viscosity oils may be required. Tension the chain as described on page 7. The log being cut must be clamped prior to sawing. Lowering the saw bar will allow the selector valve to shift starting the saw chain and pumping bar oil. Returning the saw to the up stop will stop the saw chain and reset the bar oil pump.

Parts and Service Information

For parts and service contact 6K Products. Our hours of operation are 8:00 AM to 4:30 PM, Monday through Friday, Pacific Time excluding holidays.

Phone: 360-264-2141

Fax: 360-264-5105

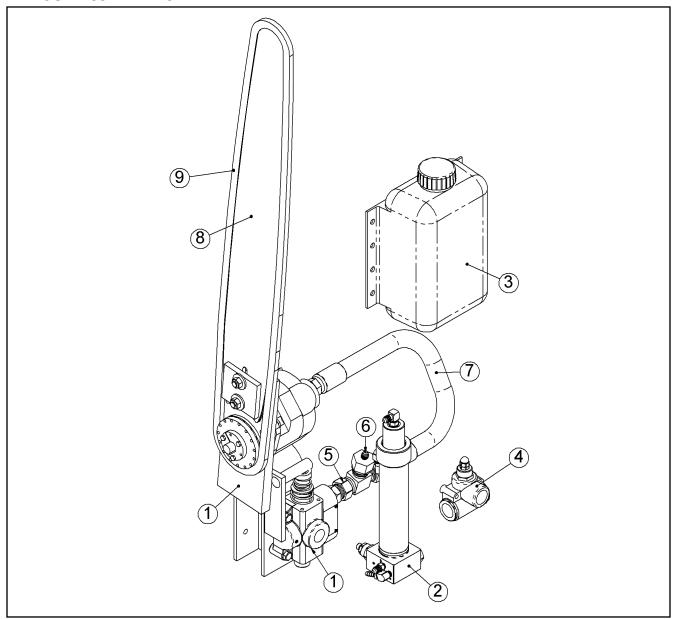
Email ed@6kproducts.com

Mail and shipping address:

6K Products 1006 143rd Ave. S.E. Tenino, WA 98589



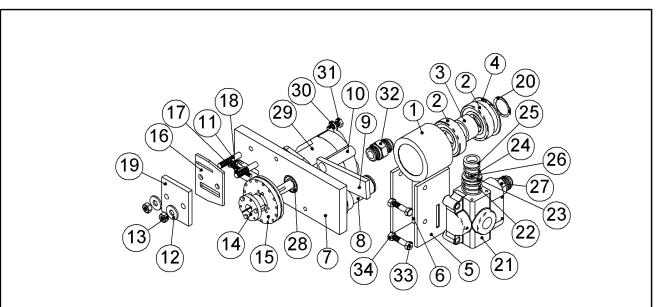
MAIN SUB ASSEMBLIES



| ITEM No. | QTY. | PART No. | DESCRIPTION | REMARKS |
|----------|------|----------|--|---------|
| 1 | 1 | DH0637 | 30G SIMPLE SAW ASSEMBLY | |
| 2 | 1 | DH0144 | BAR OIL PUMP ASSEMBLY | |
| 3 | 1 | DH0152 | BAR OIL TANK ASSEMBLY | |
| 4 | 1 | VH0014 | 3/4 NPT 2000 PSI RELIEF VALVE | |
| 5 | 1 | HH0822 | #12 JIC SWIVEL RUN TEE | |
| 6 | 1 | HH0947 | TUBE REDUCER FM JIC TO M JIC, 892-12-4 | |
| 7 | 1 | DH0638 | 24" #12 MOTOR HOSE ASSEMBLY | |
| 8 | 1 | DH0066 | HARVESTER BAR, 75 CM | |
| 9 | 1 | DH0055 | SAW CHAIN, 80 GAUGE, 89 DRIVE LINKS | |

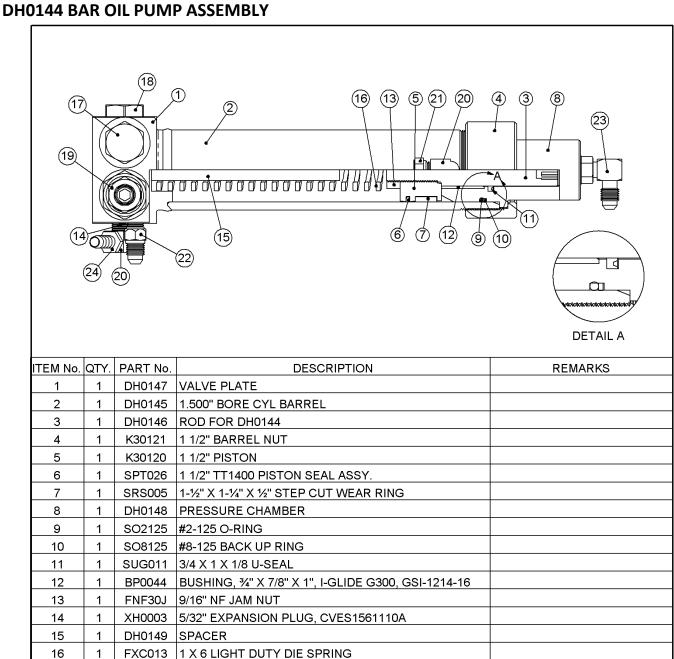


DH0637 SIMPLE SAW ASSEMBLY



| ITEM No. | QTY. | PART No. | DESCRIPTION | REMARKS |
|----------|------|----------|--|---------|
| 1 | 1 | DH0127 | PIVOT HOUSING | |
| 2 | 2 | B62R07 | BALL BEARING, 6207-2RS | |
| 3 | 1 | DH0173 | BEARING SPACER | |
| 4 | 1 | FRI283 | SPIRAL RETAINING RING, WHM-283 | |
| 5 | 2 | DH0323 | VALVE PLATE | |
| 6 | 1 | DH0322 | SPACER PLATE | |
| 7 | 1 | DH0232 | BAR PLATE | |
| 8 | 1 | DH0126 | PIVOT PIN | |
| 9 | 1 | DH0241 | STOP BAR | |
| 10 | 1 | DH0242 | VALVE PIN | |
| 11 | 2 | FST005 | M10 X 1.5 X 52 STUD | |
| 12 | 2 | FMW100P | 10MM REGULAR PLAIN WASHER | |
| 13 | 2 | FMN10CP | M10 X 1.5 NUT | |
| 14 | 1 | GM1002 | QD - JA X 5/8 BUSHING | |
| 15 | 1 | | 15T404TL SPROCKET | |
| 16 | 1 | | BAR SPACER | |
| 17 | 1 | | TENSION BAR | |
| 18 | 1 | | 1/4 -20 X 2 SS PAN HD PHILLIPS SCREW | |
| 19 | 1 | | CLAMP PLATE | |
| 20 | 1 | FRS137 | 1.375 ø SHAFT, RETAINING RING | |
| 21 | 1 | VH0002 | CROSS 40 GPM SELECTOR VALVE | |
| 22 | 1 | FXC019 | 1.437 OD X 1.69 X .100 WIRE | |
| 23 | 1 | DH0325 | SPRING HEAD | |
| 24 | 1 | | 1.18 OD X 1.53 X .091 WIRE | |
| 25 | 1 | | SPRING HEAD | |
| 26 | 1 | | 1/2 X 1 SOCKER SHOULDER SCREW- STRIPPER BOLT | |
| 27 | 1 | | MALE JIC TO PIPE ADAPTER,816-12-12 | |
| 28 | 1 | | BALL BEARING, 6202-2RS X 5/8" BORE | |
| 29 | 1 | VMCR11 | CROSS 40MH015DADRD | |
| 30 | 2 | FWZ15H | 3/8 HT WASHER | |
| 31 | 2 | | 3/8 X 1 GRADE 8 NC HEX HEAD CAP SCREW | |
| 32 | 1 | HH0683 | MALE ORB TO JIC ADAPTER, 850-12-12 | |
| 33 | 2 | | 3/8 X 1 ¾ GRADE 8 NC HEX HEAD CAP SCREW | |
| 34 | 2 | FNC15S | 3/8" NC STOVER NUT | |





Items 1 and 2

Items 6,7,9,10,11 and 12

VHH041 CARTRIDGE VALVE, HydraForce CV08-20-0-N-25

VHH015 CARTRIDGE VALVE, HydraForce CV08-20-0-N-04

VHH042 CARTRIDGE VALVE, HydraForce FC10-20A

HH0738 90° ADJUSTABLE MALE ORB TO JIC, 853-4-4

HBP106 | 1/8" TO 1/8" 90° STREET ELBOW

HB0007 HOSE END, 1/8 PIPE X 1/4 HOSE

DH0355 BAR OIL PUMP BARREL ASSEMBLY

HH0427 MALE JIC TO PIPE ADAPTER,816-4-2

FGG030 1/8 NPT vent

DH0356 | SEAL KIT



DH0152 BAR OIL TANK ASSEMBLY

