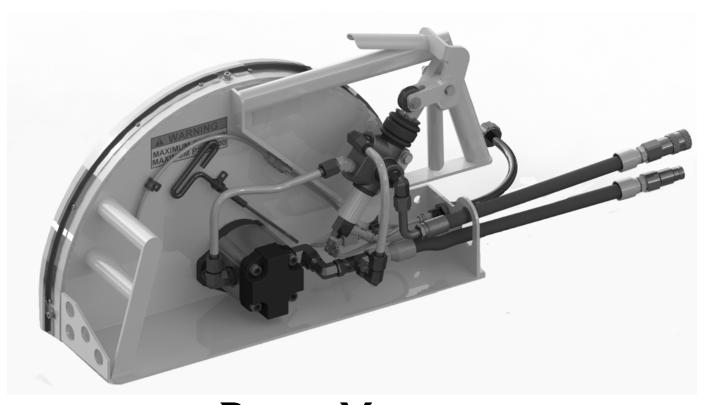


LIGHT WEIGHT FLUSH CUT HYDRAULIC HAND SAW 5800862 21.00"- 1.29IN<sup>3</sup> (12GPM)

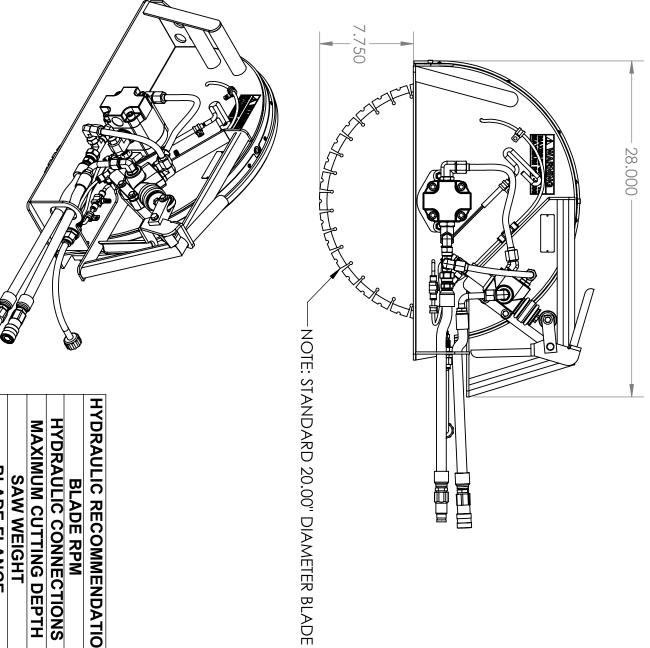


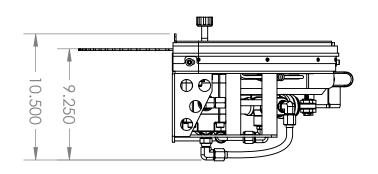
PARTS MANUAL
NOVEMBER 2014
PART NUMBER 1803031
www.DiamondProducts.com

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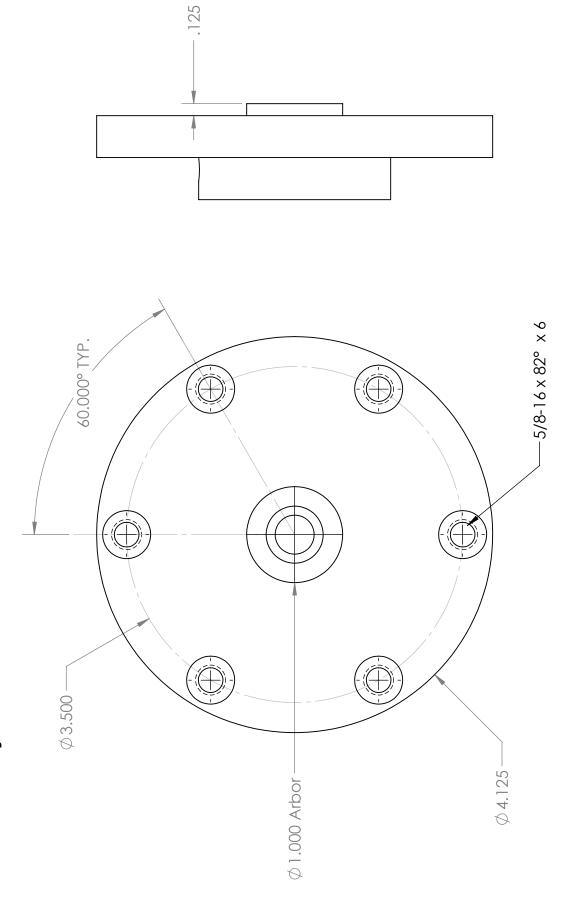
# Light Weight Flush Cut Hydraulic Hand Saw 5800862 - 21.00" 1.29° (12GPM Rated)





	SAW WEIGHT	MAXIMUM CUTTING DEPTH		BLADE RPM	HYDRAULIC RECOMMENDATION
30lbs, No Blade	7.70	7 75"	Parker No Spill 1/2"	2150 rpm @ 12 gpm	2500psi - 12 gpm

### 2502545 - Blade Flange Flush Cut Hydraulic Hand Saws



### HAND SAW SAFETY WARNINGS



### PERSONAL SAFETY

- Read and completely understand instructions before operating saw.
- DO NOT operate saw under the influence of drugs or alcohol.
- Always wear safety approved hearing, eye, head and repertory protection.
- Sturdy boots with non-slip soles aid in providing proper footing. Use of steel-toed safety boots is recommended.
- Under certain conditions sparks may fly, therefore never wear clothes made of flammable material or operate near flammable items.
- Know how to stop the saw quickly in case of emergency.
- Keep all parts of your body away from the blade at all times, blades are sharp and can cause serious injury or death.
- Do not use hands to search for hydraulic leaks, fluid escaping under pressure can penetrate skin and cause severe injury. If any fluid is injected into the skin, seek medical attention immediately.
- Wear heavy work gloves to avoid contact with concrete slurry, which can cause serious skin irritation.



















### **BLADE SAFETY**

- Examine cutting blades before each use. Blades should have no cracks, nicks, or flaws. Center hole should be undamaged as well. Use only blades recommended for your model.
- This saw should cut only material that is specified on each cutting blade. Read instructions which are located on the blade to determine which material the blade is designed to cut.
- Use only steel centered diamond blades manufactured for use on concrete cutting hand saws DO NOT use high speed steel blades, carbide tipped blades, or abrasive blades.
- Inspect blade flanges for damage, excessive wear, and cleanliness before mounting blade. Blades should fit snugly on clean, undamaged shaft.
- Use only blades marked with a maximum operating speed greater than the blade shaft speed.
- DO NOT remove flow control form hydraulic circuit. Do NOT exceed the maximum safely allowable speed. DO NOT operate this equipment if you suspect it of exceeding this speed.

### **GENERAL SAW SAFETY**

- Always relieve all pressure before disconnecting hydraulic hoses. DO NOT apply pressure to damaged hoses or fittings.
- Always remember to keep both hands on the handles when the saw is running.
- Never leave the saw unattended with the hydraulic hoses connected to power unit.

### **CUTTING/WORK AREA SAFETY**

- Never operate the saw in any application or job where you are not trained or supervised.
- Operate only in well ventilated areas.
- Keep bystanders and or animals out of work area.
- DO NOT operate the saw in areas of combustible materials or fumes. Sparks may occur from blade that could
  cause a fire or explosion.
- Know the material and work area you are sawing. Hazardous conditions such as live electric, water, or gas lines can be concealed in material.



The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.



### HAND SAW OPERATING PROCEDURES

### **Blade Mounting**

- Be certain that you have correct diamond blade for the application. Contact your authorized servicing dealer for the correct specification. Ensuring that the correct blade is used will greatly increase performance and durability of blades resulting in cost savings.
- The blade shaft flanges and arbor must be inspected for damage and cleaned before mounting the blade. If damaged, replace worn or broken parts. Inspect blade for damage to arbor hole and flange area before attempting to mount blade.
- Make sure the arrow on the blade is pointing in the proper direction of rotation. The drive pin in the
  outer blade flange must go completely through the blade into the matching hole in the inner blade
  flange. Using the wrench provided, tighten flanged nut securely (Approximately 30 ft. lbs.). Note that
  the flanged nut has left hand threads, which tighten by turning counter clockwise.

### **BEFORE SAWING**

- Do not use conventional (wet) diamond blades without water. You must have 2.5-5 gallons of water per minute flowing over the blade for proper cooling and ensuring proper blade life. For wet sawing, be sure to spray holes in the water manifold are open and each side of the blade receives adequate water flow.
- Test your water supply for pressure and flow rate before starting saw.
- Mark the cutting line clearly so that the saw operator can follow the line without difficulty.

### **CUTTING THE LINE**

- With the saw blade above the cut, squeeze the trigger to start the water flowing and allow the saw blade to reach the desired speed before the blade contact the surface. Pivot the saw on the front roller and slowly lower the blade into the cut line. Do not exceed more than 2.00" cutting depth per pass. At the end of the cut, pivot the saw on the front roller and raise the blade until it clears the cut, then release the trigger. Allow the blade to come to a stop before setting down. Increase the depth of cut by 2.00" by increasing the blade diameter and follow the previous cut line. This procedure is known as step cutting. Continue with this procedure in 2.00" increments until you have reached your desired depth of cut.
- When cutting vertical wall cuts, start from the top working down. Make the first pass shallow, being extra careful not to go off the cut line. Increase cut depth with each pass following the previous cut. If the first cut starts to wander, stop sawing and correct the cut by plunging a straight and deeper cut before and after the error. After this go back with the blade cutting twice the depth of the error and cut between the two using the blade to guide past the error.
- Horizontal cuts are the most difficult to make correctly. Before starting the horizontal cut, make sure
  there is enough room for you to work without reaching beyond your area of control. When sawing from
  a lift or scaffolding, always figure the amount of hoses you will need to tie off. Leave only what you
  need for the job.

### **HAND SAW MAINTENANCE INSTRUCTIONS**

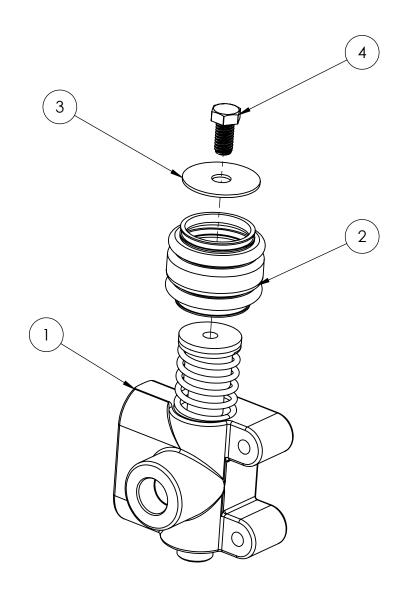
- Check all hydraulic hoses and connections daily. Any leakage of hydraulic fluid will require immediate
  retightening or replacement of parts. When replacing hydraulic components use only parts with proper
  pressure ratings. WARNING! Before disconnecting hoses, be sure to relieve all pressure. Do not use
  damaged or non-rated hoses or fittings.
- Tighten fasteners occasionally. Nuts and bolts may become loose particularly after the first few hours of use.
- Check hydraulic supply for correct pressure and flow rate that is appropriate for your saw, all saw have a GPM rating decals.
- Clean saw by removing all accumulated dust or slurry after use. If allowed to dry, the slurry will harden and could impair efficiency and performance.
- Inspect the blade guard frequently for damage and wear. Concrete slurry can erode the aluminum in the blade guard. If any portions of the blade guard measures less than 3/16" (.187) discard unit.

### DETAIL A SCALE 1:3 46) $\infty$ $\mathcal{C}$ 12) Light Weight Flush Cut Hydraulic Hand Saw 5800862 - 21.00" 1.293 (12GPM Rated) (29)(49) (35)24)( $\left( \frac{2}{2}\right)$ 25) [23]

### <u>Light Weight Flush Cut Hydraulic Hand Saw</u> 5800862 - 21.00" 1.29<sup>3</sup> (12GPM Rated)

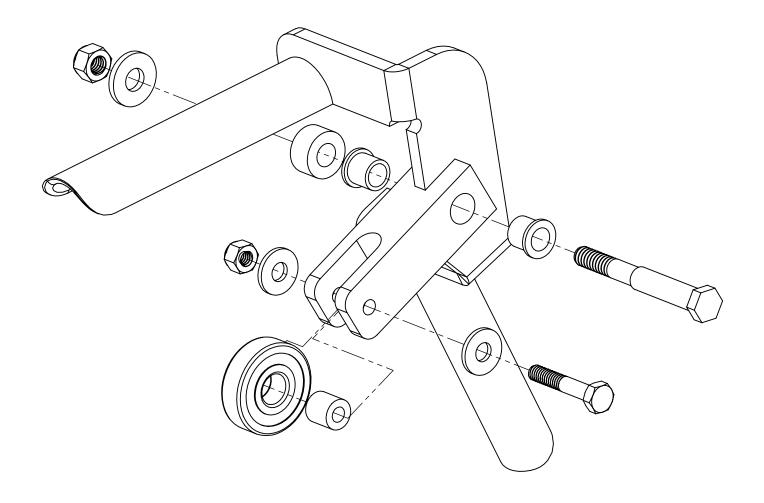
ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	6075088	21.00" Flush Cut Hand Saw	1
2	2600458	Hydraulic Motor, 1.29 C.I. w/Anti-Cav HS	1
3	6070252	Metro Valve Assembly	1
4	2901001	1/4-20 x 2.50" Hex Head Cap Screw	2
5	2900126	1/4" USS Flat Washer	4
6	2900010	1/4-20 Nylon-Insert Hex Locknut	2
7	6075084	Hand Saw Valve Cap	1
8	2506345	3 Way Poppet Valve	1
9	2506348	Push Quick Fitting, Male Elbow 1/8NPT x .250 OD	1
10	2506346	Push Lock Fitting, Run Tee 1/8 NPT x 1/4 OD	1
11	3205539	1/4" NPT Bulkhead Coupler	1
12	3201875	Hose Assy, 3/8" x 12, 3/4" F.Garden x 1/4"MPT 1/4"	1
13	2502914	Cable/Hose Loop Clamp	3
14	2506349	Push Lock Fitting, 1/4 NPT x 1/4 OD	1
15	2506347	Push Quick Fitting, 1/4 OD Flow Control	2
		1/4" O.D. Felxible Tubing (Sold Per Inch)	
16	1104098	T-HANDLE HEX KEY 3/16	30
21	2900750	21.00" Hand Saw Sweep	1
23	6075093	6-32 x .250" PHPMS-SS	1
24	2907006	21.00" Flush Cut Hand Saw Cover	8
25	6075089	1/4-20 x 5/8 SHCS	1
26	2907005		3
27 28	2900009 2502924	1/4 SAE Flat Washer	2
		Elbow Fitting, 1/2" MORB x 1/2" MJIC 90 Deg.	
29	3200803	Elbow Fitting, 1/2" MJIC x 5/8" MORB	1
30	3200332	Swivel Run Tee, 08-MJIC x 08-MJIC x 08-FJIC	1
31	3200805	Elbow Fitting, 3/4"MORB x 1/2" MJIC	1
32	3200802	Elbow Fitting, 1/2"MJIC x 1/2" FJIC 90 Deg.	2
33	3200367	08-ORING x 08-MJIC 45°	1
34	6070505	Hydraulic Tube Assembly (LWFC21, Rear)	1
35	6070504	Hydraulic Tube Assembly (LWFC21, Front)	1
36	6075097	Hand Saw Pressure Whip Hose, 24.00"	1
37	6075098	HS Return Hose, 24"	1
38	3200104	Coupler, 1/2" Q.D.	1
39	3200105	Nipple, 1/2" Q.D.	1
40	2900046	Carriage Bolt, 3/8"-16 X 1-1/4"	2
41	2903018	USS 3/8" Flat Washer	2
42	2900018	Lock Nut, 3/8-16 Nylon	2
43	6075131	Blade Hub, Hand Saw LW	1
44	2900056	1/4-20 x .250" Set Screw	3
45	2900008	1/4-20 x .750" HHCS	1
46	2503336	Key, 5/32" Sq. x 5/8"	1
47	2903013	5/16-18 Flat Socket Head Cap Screw	6
48	2505906	U-Cup Seal, 1.00 ID x 1.50 OD	1
49	1800169	Serial Number Plate, US	1
50	1800864	Warning Label, 12GPM 2500 PSI	1
51	1800865	Rotation Label	1
52	2505905	Dual Trigger Assembly, Hydraulic Hand Saws	1

### Metro Valve Assembly 6070252 - Valve Assembly



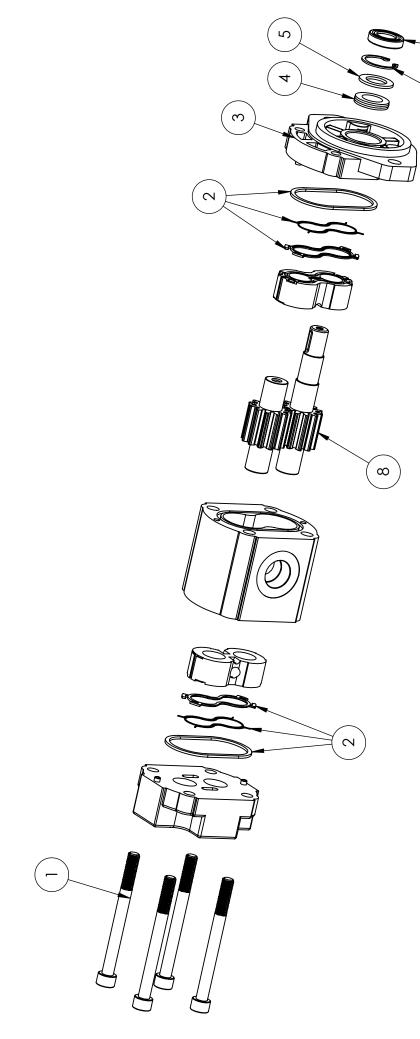
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	2702688	Metro Flow Valve	1
2	2507033	Bellow, Hand Saw	1
3	2907070	Washer, 3/8" x 1-5/8"	1
4	2900196	3/8-16x.750 HEX CAP SCREW	1

### **Dual Trigger Assembly** 2505905 - For Use on Hydraulic Hand Saws



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	6075083	HS Dual Trigger Weldment	1
2	2502897	Bearing	1
3	2502576	1/4" x 1/2" Sleeve Bushing	1
4	2501583	Bearing, 3/8" ID Flanged Bronze	2
5	2501515	Bushing UHMW	1
6	2900048	1/4-20 x 1.50" HHCS (Grade 5)	1
7	2900126	1/4" USS Flat Washer	2
8	2900010	1/4-20 Nylon-Insert Hex Locknut	1
9	2506344	Hand Saw Pivot Bolt	1
10	2900567	5/16" Flat Washer	1
11	2900039	5/16"-18 Nylock Hex Nut	1

## Casappa Hydraulic Motor 2600458 - 1.29 C.I. w/Anit-Cav



QTY.	4	_	_	_	_		_	
Ø								
DESCRIPTION	M10-1.50 × 110MM SHCS	Hydraulic Motor Seal Kit, Bi-Rotational PLM 20.03-20.31	Cassappa Motor Front Cover	Hydraulic Motor Seal	Backing Ring		Seal Snap Ring	Seal Snap Ring Wiper Seal
LAKI NOMBEK	2901971	2502933	3205792	2501630	2502563	70000	2/0/005	2/0/005 2507139
ITEM NO.		2 2	ю	4	5	7	0	0

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### **Hand Saw Maintenance & Repair Record**

Date	Service Performed	Part Used

### EQUIPMENT AND PARTS WARRANTY

Diamond Products warrants all equipment manufactured by it against defects in workmanship or materials for a period of one (1) year from the date of shipment to Customer.

The responsibility of Diamond Products under this Warranty is limited to replacement or repair of defective parts at Diamond Products' Elyria, Ohio factory, or at a point designated by it, of such parts as shall appear to us upon inspection at such parts, to have been defective in material or workmanship, with expense for transportation and labor borne by Customer.

In no event shall Diamond Products be liable for consequential or incidental damages arising out of the failure of any Product to operate properly.

Integral units such as engines, electric motors, batteries, transmissions, etc., are excluded from this Warranty and are subject to the prime manufacturer's warranty.

THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, AND ALL SUCH OTHER WARRANTIES ARE HEREBY DISCLAIMED.

