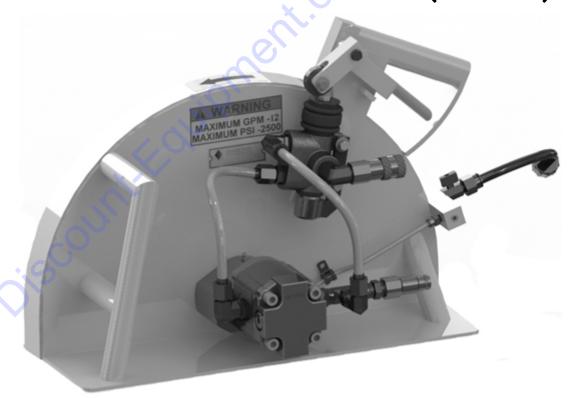




Hydraulic Hand Saw HS-20-12 20.00"- 1.29 in³ (12GPM)



PARTS MANUAL
OCTOBER 2014
PART NUMBER 1803012

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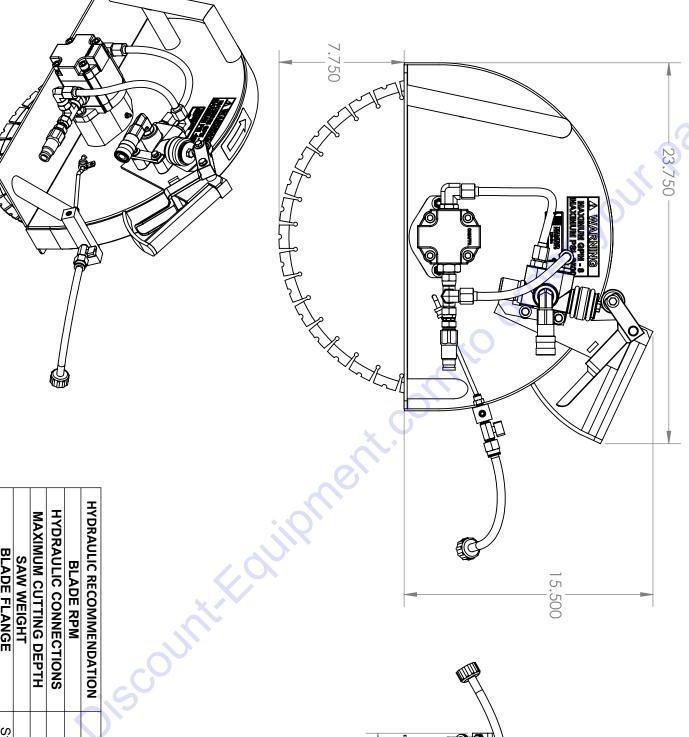
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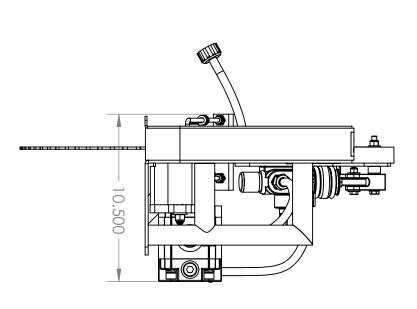
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Hydraulic Hand Saw

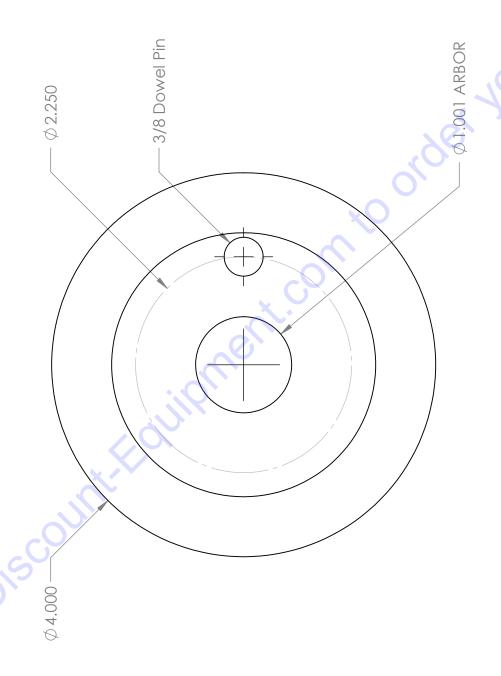
HS-20-12 20.00" 1.29in³ (12GPM Rated)





BLADE FLANGE	SAW WEIGHT	MAXIMUM CUTTING DEPTH	HYDRAULIC CONNECTIONS	BLADE RPM	HYDRAULIC RECOMMENDATION
Standard 1.00 Arbor, 3/8 Single Pi	34lbs, No Blade	7.75"	Parker No Spill 1/2"	2150 rpm @ 12gpm	2500psi - 12 gpm

6030206 - Blade Flange Standard 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 Discount-equipment 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.

∞ (26)(30) ~ HS-20-12 20.00" 1.29in3 (12GPM Rated) **Hydraulic Hand Saw** (32)

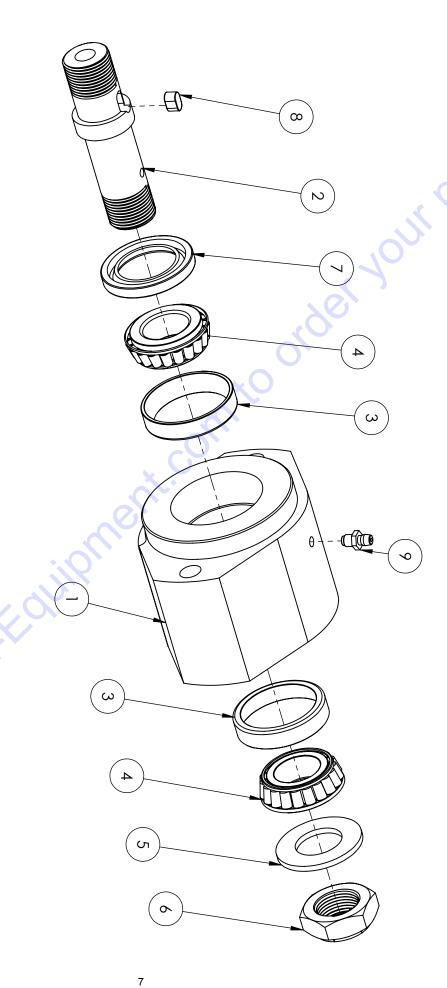
Hydraulic Hand Saw

HS-20-12 20.00" 1.29in³ (12GPM Rated)

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	6030262	20.00" Hand Saw Frame	1
2	6040436	Bearing Block Assembly (Regular)	100
3	6070252	HS Metro Valve Assembly	1
4	2502924	Elbow Fitting, 1/2" MORB x 1/2" MJIC 90 Deg.	1
5	2702689	Fitting, 1/2"MORB x 1/2" MJIC	1
6	2600458	Cassappa Hyd. Motor, 1.29ci W/Anti-Cav Plate	1
7	2502920	Adaptor, #12 O-Ring x 1/2 MJIC	1
8	3200332	Swivel Run Tee, 08-MJIC x 08-MJIC x 08-FJIC	1
9	3201274	Adaptor Fitting, 1/2" MPT x 1/2" FJIC	1
10	3200105	Nipple, 1/2" Q.D.	1
11	6070418	Regular Hydrualic Hand Saw Single Trigger Assembly	1
12	3200104	Coupler, 1/2" Q.D.	1
13	3205555	Elbow, 1/2" MORB x 1/2" MPT 90 Deg.	1
14	6030206	Outer Flange 4"	1
15	6030205	Inner Flange 4"	1
16	2900605	3/8 x 7/8 Dowel Pin	1
18	2900167	1-14 LH Jam Nut	1
19	2903040	3/8-16 x 4.00 Carriage Bolt	2
20	2900567	5/16" Flat Washer	2
21	2900018	Lock Nut, 3/8-16 Nylon	2
22	3200803	Elbow Fitting, 1/2" MJIC x 5/8" MORB	1
23	3201271	Water Valve, 1/4"NPT	1
24	3201875	Hose Assy, 3/8" x 12, 3/4" F.Garden x 1/4"MPT	1
25	2502911	Valve Cap, Hand Saw 20" & 24"	1
26	2505906	U-Cup Seal, 1.00 ID x 1.50 OD	1
27	2900126	1/4" USS Flat Washer	2
28	2900392	1/4-20 x 1.75" HHCS	2
29	2900024	1/4" Split Lock Washer	2
30	6070457	20.00 Hand Saw Front Hydraulic Tube	1
31	1800864	Warning Label, 12GPM 2500 PSI	1
32	1800169	DP S/N Nameplate	1
33	1800865	Rotation Label	1
34	3200802	Elbow Fitting, 1/2"MJIC x 1/2" FJIC 90 Deg.	1
35	6070458	20.00" Hand Saw Rear Hydraulic Tube	1
36	2506350	Push-Connect Fitting, 1/4" Tube x 1/8"MPT	2
37	3201094	1/8" Solid Hex-Socket Plug	1
38	2502914	1/4" Cable/Hose Loop Clamp	2
39	1104098	1/4 O.D. Flexible Tubing (Sold Per Inch)	24
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Bearing Block Assembly

6040436 - Assembled Regular Cut Bearing Block Assembly



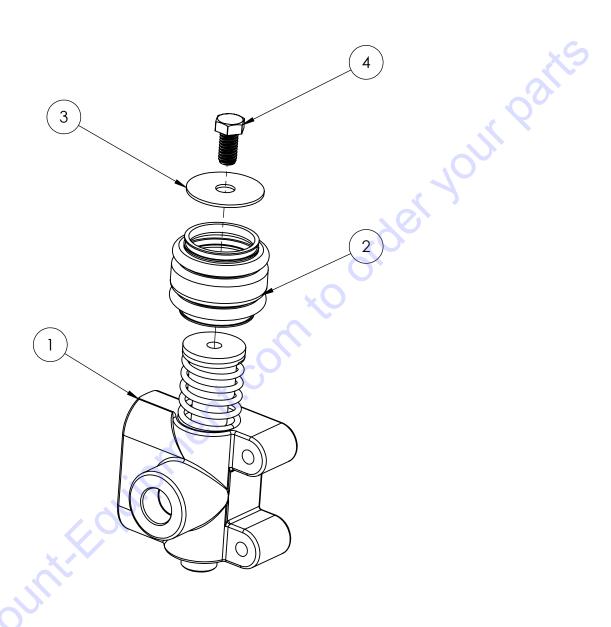
NOTE: WHEN REPAIRING/REBUILDING BEARING BLOCK, LOCK NUT (2902961) MUST BE TORQUED TO 50LB-FT. ROTATE SHAFT BY HAND TO ENSURE NO END PLAY IN SHAFT, SHAFT SHOULD NOT BE OVERTIGHTENED.

WHEN REPAIRING/REBUILDING BEARING BLOCK, GREASE ADEQUATELY USIING NLGI No.2 GREASE. BEARING BLOCK GREASE CAPACITY IS 1.5oz.

Bearing Block 1 4610 2 13 2 r 1" 1 knut RH 1 "x 1/4" 1	\(\frac{1}{2}\), \(\frac{1}{2}\)	7020000	9
Bearing Block 1 4610 2 13 2 r 1" 1 knut RH 1 "× 1/4" 1	Key 250" v 420" Rounder	2503751	8
Bearing Block 1 4610 2 13 2 r 1" 1 knut RH 1	Seal, 1-1/4" x 1.979" x 1/4"	2501494	7
Bearing Block 1 4610 2 13 2 r 1" 1	Expanding Hex Locknut RH	2902961	6
Bearing Block 1 4610 2 13 2	Spindle Washer 1"	2502934	5
Bearing Block 1 4610 2	Bearing L44643	2501628	4
Bearing Block 1	Bearing Race L44610	2501629	3
	Shaft, Regular Hand Saw Bearing Block	2702647	2
gular HS 1	Bearing Housing, Regular HS	2502546	1
QIY.	Description	ITEM NO. PART NUMBER	ITEM NO.

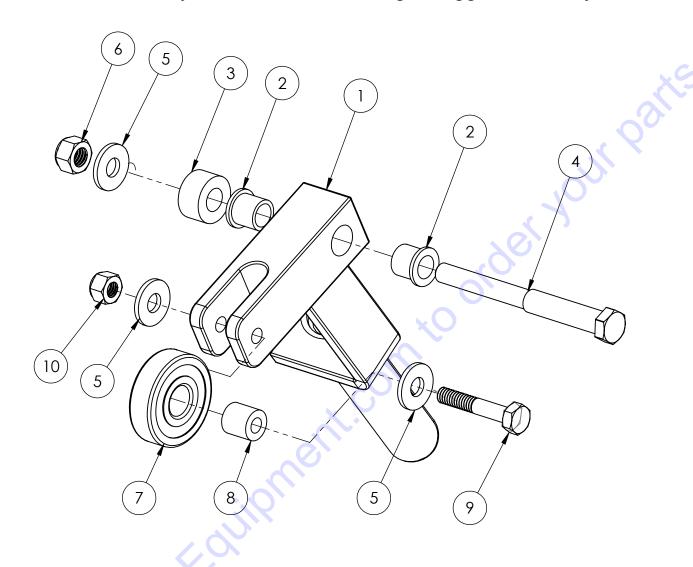
Metro Valve Assembly

6070252 - Valve Assembly



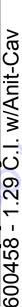
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	2702688	Metro Flow Valve	1
2	2507033	Bellow, Hand Saw	1
3	2907070	Washer, 3/8" x 1-5/8"	1
4	2900196	3/8-16x.750 HEX CAP SCREW	1

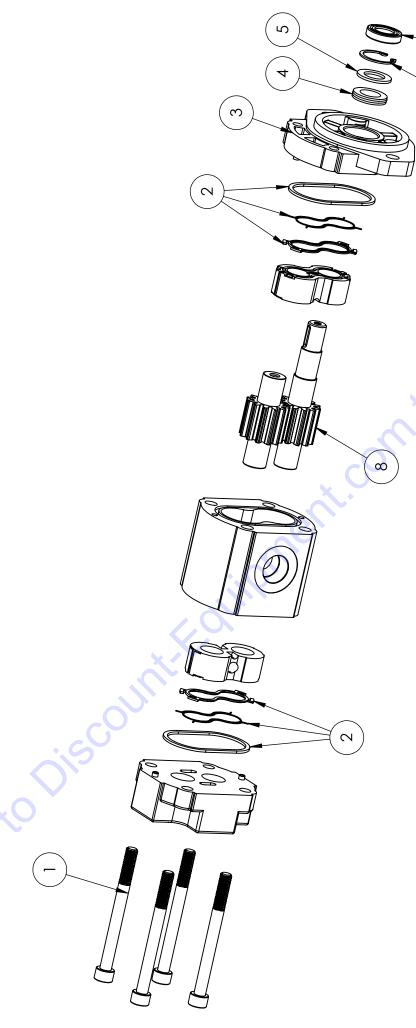
<u>Single Trigger Assembly</u> 6070418 - Standard Hydraulic Hand Saw Single Trigger Assembly



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	6040498 Weld Solid	Single Trigger	1
2	2501583	Bearing, 3/8" ID Flanged Bronze	2
3	2501515	Bushing UHMW	1
4	2501568	Pivot Bolt	1
5	2900126	1/4" USS Flat Washer	3
6	2900039	5/16"-18 Nylock Hex Nut	1
7	2502897	Bearing	1
8	2502576	1/4" x 1/2" Sleeve Bushing	1
9	2900048	1/4-20 x 1.50" HHCS (Grade 5)	1
10	2900010	1/4-20 Nylon-Insert Hex Locknut	1

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





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Hand Saw Maintenance & Repair Record

Date	Service Performed	Part Used
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EQUIPMENT AND PARTS WARRANTY

Discount-equipment warrants all equipment sold 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 Discount-equipment under this Warranty is limited to replacement or repair of defective parts, 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 Discount-equipment 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.

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