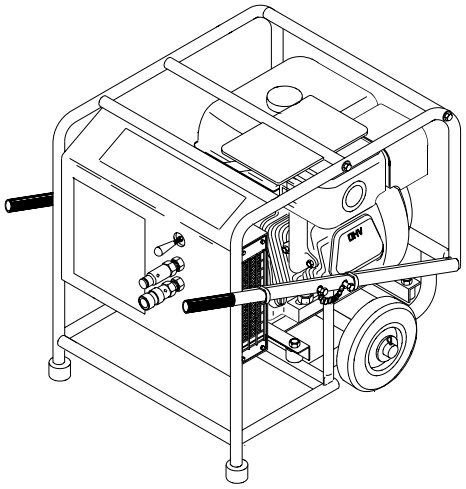
HP0815231C

Hydraulic Power Unit



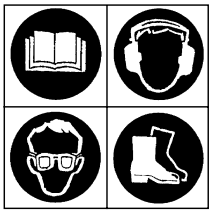
Safety, Operation and Routine Maintenance

User's Manual

⚠ DANGER

SERIOUS INJURY OR DEATH COULD RESULT FROM THE IMPROPER REPAIR OR SERVICE OF THIS TOOL.

REPAIRS AND / OR SERVICE TO THIS TOOL MUST ONLY BE DONE BY AN AUTHORIZED AND CERTIFIED DEALER.



STANLEY®

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OPS USA/CE VERSION
40125 04/99 Ver 1

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SAFETY FIRST

It is the responsibility of the operator
and service technician to read rules and
instructions for safe and proper
operation and maintenance.

A cautious worker
using common sense
is the greatest safety device

CONTENTS

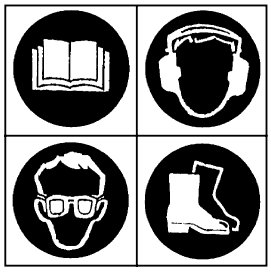
SERVICING THE HP08 POWER UNIT: This manual contains safety, operation, and routine maintenance instructions. Stanley Hydraulic Tools recommends that servicing of hydraulic tools and power units, other than routine maintenance, must be performed by an authorized and certified dealer. Please read the following warning.

⚠ DANGER

SERIOUS INJURY OR DEATH COULD RESULT FROM THE IMPROPER REPAIR OR SERVICE OF THIS EQUIPMENT.

REPAIRS AND / OR SERVICE TO THIS EQUIPMENT MUST ONLY BE DONE BY AN AUTHORIZED AND CERTIFIED DEALER.

For the nearest authorized and certified dealer, call Stanley Hydraulic Tools, 1-503-659-5660 and ask for a Customer Service Representative.



⚠ DANGER

Do not operate this equipment or associated equipment until the following safety instructions have been thoroughly read and understood! Read this manual before installing, operating or maintaining this equipment.

Tool operators and maintenance personnel must always comply with the safety precautions given in this manual and on the stickers and tags attached to the equipment.

These safety precautions are given for your safety. Review them carefully before operating the power unit and before performing general maintenance or repairs.

Supervising personnel should develop additional precautions relating to the specific work area and local safety regulations. If so, place the added precautions in the space provided on page 3.

In addition to this manual, read and understand safety and operating instructions in the Engine Operation Manual furnished with the power unit.

GENERAL SAFETY PRECAUTIONS

The HP08 Hydraulic Power Unit will provide safe and dependable service if operated in accordance with the instructions given in this manual. Read and understand this manual and any stickers and tags attached to the power unit. Read and understand the engine manual furnished with the unit. Failure to do so could result in personal injury or equipment damage.

- Operators must start in a work area without bystanders. The operator must be familiar with all prohibited work areas such as excessive slopes and dangerous terrain conditions.
- Establish a training program for all operators to ensure safe operation.
- Do not operate the power unit unless thoroughly trained or under the supervision of an instructor.
- Always wear safety equipment such as goggles, ear and head protection, and safety shoes at all times when operating the power unit and a hydraulic tool.
- Do not inspect or clean the power unit while the unit is running.
- Always use hoses and fittings rated at 2500 psi/172 bar with a 4 to 1 safety factor. Be sure all hose connections are tight.
- Make sure all hoses are connected for correct flow direction to and from the tool being used.
- Do not inspect hoses and fittings for leaks by using bare hands. "Pin-hole" leaks can penetrate the skin.
- **Never operate the power unit in a closed space.** Inhalation of engine exhaust can be fatal.
- Do not operate a damaged or improperly adjusted power unit.

- Never wear loose clothing that can get entangled in the working parts of the power unit.
- Keep all parts of your body away from the working parts of the power unit.
- Always wear appropriate safety equipment such as goggles, ear protection, and toe guards. Certain tools used in conjunction with the power unit may require other safety equipment such as breathing filters.
- Keep clear of hot engine exhaust.
- Do not add fuel to the power unit while the power unit is running or is still hot.
- Do not operate the power unit if gasoline odor is present.
- Do not use flammable solvents around the power unit engine.
- Do not operate the power unit within 3.3 ft/1 m of buildings, obstructions, or flammable objects.
- Allow the engine to cool before storing the power unit in an enclosure.
- To avoid personal injury or equipment damage, all tool repair, maintenance and service must only be performed by authorized and properly trained personnel.

LOCAL SAFETY REGULATIONS

Enter any local safety regulations here. Keep these instructions in an area accessible to the operator and maintenance personnel.

SAFETY SYMBOLS

Safety symbols are used to emphasize all operator, maintenance and repair actions which, if not strictly followed, could result in a life-threatening situation, bodily injury or damage to equipment.

⚠ DANGER

This safety symbol may appear on the tool. It is used to alert the operator of an action that could place him/her or others in a life threatening situation.

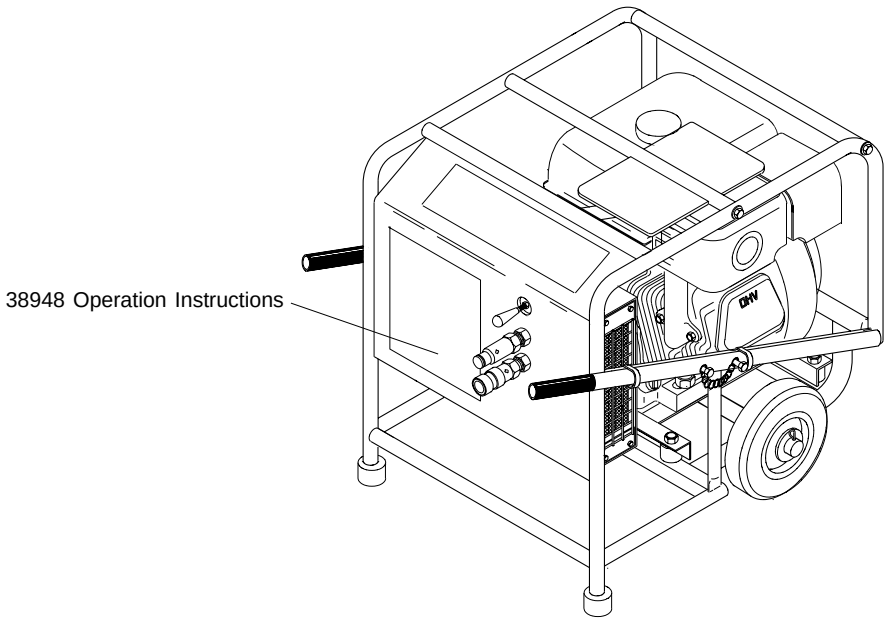
⚠ WARNING

This safety symbol appears in these instructions to identify an action that could cause bodily injury to the operator or other personnel.

⚠ CAUTION

This safety symbol appears in these instructions to identify an action or condition that could result in damage to the tool or other equipment.

Always observe safety symbols. They are included for your safety and for the protection of the tool.



The safety tag (p/n 15875) at right is attached to the power unit when shipped from the factory. Read and understand the safety instructions listed on this tag before removal. We suggest you retain this tag and attach it to the power unit when not in use.

DANGER

1. FAILURE TO USE HYDRAULIC HOSE **LABELED AND CERTIFIED AS NON-CONDUCTIVE** WHEN USING HYDRAULIC TOOLS ON OR NEAR ELECTRICAL LINES MAY RESULT IN DEATH OR SERIOUS INJURY.

   BEFORE USING HOSE **LABELED AND CERTIFIED AS NON-CONDUCTIVE** ON OR NEAR ELECTRIC LINES BE SURE THE HOSE IS **MAINTAINED AS NON-CONDUCTIVE**. THE HOSE SHOULD BE REGULARLY TESTED FOR ELECTRIC CURRENT LEAKAGE IN ACCORDANCE WITH YOUR SAFETY DEPARTMENT INSTRUCTIONS.

2. A HYDRAULIC LEAK OR BURST MAY CAUSE OIL INJECTION INTO THE BODY OR CAUSE OTHER SEVERE PERSONAL INJURY.

   A **DO NOT** EXCEED SPECIFIED FLOW AND PRESSURE FOR THIS TOOL. EXCESS FLOW OR PRESSURE MAY CAUSE A LEAK OR BURST.

   B **DO NOT** EXCEED RATED WORKING PRESSURE OF HYDRAULIC HOSE USED WITH THIS TOOL. EXCESS PRESSURE MAY CAUSE A LEAK OR BURST.

   C CHECK TOOL HOSE COUPLERS AND CONNECTORS DAILY FOR LEAKS. **DO NOT** FEEL FOR LEAKS WITH YOUR HANDS. CONTACT WITH A LEAK MAY RESULT IN SEVERE PERSONAL INJURY.

IMPORTANT

READ OPERATION MANUAL AND SAFETY INSTRUCTIONS FOR THIS TOOL BEFORE USING IT.

USE ONLY PARTS AND REPAIR PROCEDURES APPROVED BY STANLEY AND DESCRIBED IN THE OPERATION MANUAL.

TAG TO BE REMOVED ONLY BY TOOL OPERATOR.

SEE OTHER SIDE

15875

DANGER

D DO NOT LIFT OR CARRY TOOL BY THE HOSES. DO NOT ABUSE HOSE. DO NOT USE KINKED, TORN OR DAMAGED HOSE.

3. MAKE SURE HYDRAULIC HOSES ARE PROPERLY CONNECTED TO THE TOOL BEFORE PRESSURING SYSTEM. SYSTEM PRESSURE HOSE MUST ALWAYS BE CONNECTED TO TOOL "IN" PORT. SYSTEM RETURN HOSE MUST ALWAYS BE CONNECTED TO TOOL "OUT" PORT. REVERSING CONNECTIONS MAY CAUSE REVERSE TOOL OPERATION WHICH CAN RESULT IN SEVERE PERSONAL INJURY.

4. DO NOT CONNECT OPEN-CENTER TOOLS TO CLOSED-CENTER HYDRAULIC SYSTEMS. THIS MAY RESULT IN LOSS OF OTHER HYDRAULIC FUNCTIONS POWERED BY THE SAME SYSTEM AND/OR SEVERE PERSONAL INJURY.

5. BYSTANDERS MAY BE INJURED IN YOUR WORK AREA. KEEP BYSTANDERS CLEAR OF YOUR WORK AREA.

6. WEAR HEARING, EYE, FOOT, HAND AND HEAD PROTECTION.

7. TO AVOID PERSONAL INJURY OR EQUIPMENT DAMAGE, ALL TOOL REPAIR MAINTENANCE AND SERVICE MUST ONLY BE PERFORMED BY AUTHORIZED AND PROPERLY TRAINED PERSONNEL.

IMPORTANT

READ OPERATION MANUAL AND SAFETY INSTRUCTIONS FOR THIS TOOL BEFORE USING IT.

USE ONLY PARTS AND REPAIR PROCEDURES APPROVED BY STANLEY AND DESCRIBED IN THE OPERATION MANUAL.

TAG TO BE REMOVED ONLY BY TOOL OPERATOR.

SEE OTHER SIDE

15875

SAFETY TAG P/N 15875 (shown smaller than actual size)

HYDRAULIC HOSE REQUIREMENTS

HOSE TYPES

Hydraulic hose types authorized for use with Stanley Hydraulic Tools are as follows:

❶ Certified non-conductive

❷ Wire-braided (conductive)

❸ Fabric-braided (not certified or labeled non-conductive)

Hose ❶ listed above is the only hose authorized for use near electrical conductors.

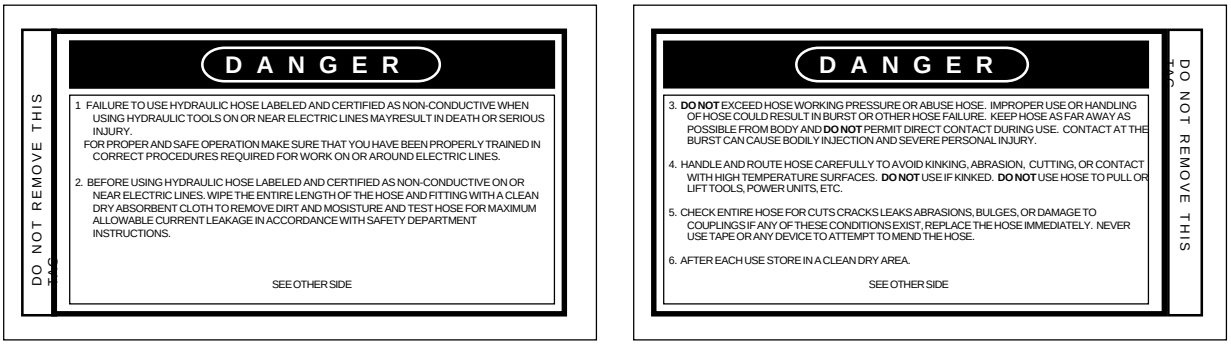
Hoses ❷ and ❸ listed above are **conductive** and **must never** be used near electrical conductors.

HOSE SAFETY TAGS

To help ensure your safety, the following DANGER tags are attached to all hose purchased from Stanley Hydraulic Tools. DO NOT REMOVE THESE TAGS.

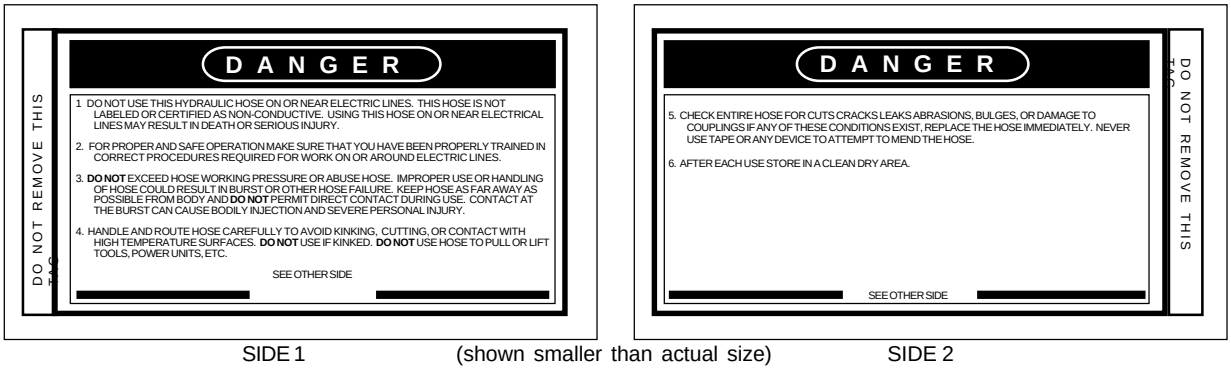
If the information on a tag is illegible because of wear or damage, replace the tag immediately. A new tag may be obtained at no charge from your Stanley Distributor.

The tag shown below is attached to "certified non-conductive" hose.



SIDE 1 (shown smaller than actual size) SIDE 2

The tag shown below is attached to "conductive" hose.



SIDE 1 (shown smaller than actual size) SIDE 2

HOSE PRESSURE RATING

The rated working pressure of the hydraulic hose **must be equal to or higher than** the relief valve setting on the hydraulic system.

PREPARATION FOR USE

Do not operate the power unit until you have read the *engine* operating and maintenance instructions manual furnished with the unit.

1. ENGINE CRANKCASE OIL LEVEL

Always check the oil level before starting tne engine. Make sure the oil level is at the FULL MARK on the dipstick. Do not overfill. Use detergent oil classified "For Service SD, SE, SF, SG" as specified in the engine operating and maintenance manual.

2. ENGINE FUEL LEVEL

Check the fuel level. If low, fill with un-leaded gasoline with a minimum of 85 octane. Do not mix oil with gasoline.

3. HYDRAULIC FLUID

Check the sight gauge on the hydraulic fluid reservoir for the proper fiuid level. If the sight gauge indicates the fluid level is low, add hydraulic fluid. Use fluids meeting the following specifications.

Viscosity (Fluid Thickness)

U.S.	METRIC
50°F 450 SSU Maximum	10°C 95 Centistokes
100°F 130-200 SSU	38°C 27-42 C.S.
140°F 85 SSU Minimum	60°C 16.5 C.S. Minimum

PourPoint -10°F/-23°C Minimum (for cold startup)

Viscosity Index (ASTM D-2220) 140 Minimum

Demulsibility (ASTM D-1401) 30 Minutes Maximum

Flash Point (ASTM D-92) 340°F/171°C Minimum

Rust Inhibition (ASTM D-665 A & B) Pass

Oxidation (ASTM D-943) 1000 Hours Minimum

Pump Wear Test (ASTM D-2882) 60 mg Maximum

The following fluids work well over a wide temperature range, allow moisture to settle out and resist biological growth that may occur in cool operating hydraulic circuits. These fluids are recommended by Stanley. Other fluids that meet or exceed the specifications of these fluids may also be used.
Chevron AW-MV-32
Exxon "Univis" J-26

Mobil D.T.E. 13

Gulf "Harmony" AW-HVI-150-32

Shell "Tellus" T-32

Texaco "Rando" HD-AZ

Union "Unax" AW-WR-32

4. HYDRAULIC CONNECTIONS

Facing the control valve, the left-hand male quick disconnect fitting is the pressure (FLUID OUT) fitting. The right-hand female quick disconnect fitting is the return (FLUID IN) fitting.

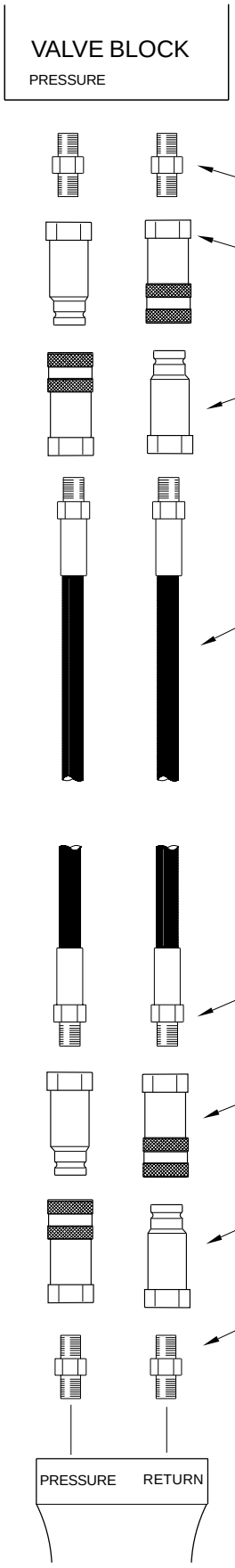
The recommended hose length is 25 ft/8 m with a 1/2 inch/12.7 mm inside diameter. The hoses must have a working pressure rating of at least 2500 psi/175 bar. Each hose end must have male thread ends compatible with E.H.T.M.A./H.T.M.A. (HYDRAULIC TOOL MANUFACTURERS ASSOCIATION) quick disconnect fittings (NPT type threads). (see next page)

Longer hoses are not recommended. If small diameter or long hoses are used, or if restrictive fittings are connected to the supply and return ports, the pressure required to push the fluid through the system and back to the hydraulic tank will be higher. If the pressure is too high, this may cause the engine to stall. Also see "HYDRAULIC HOSE REQUIREMENTS" earlier in this manual.

5. GENERAL

The HP08 Power Unit provides one hydraulic tool circuit with an oil flow of 5 gpm/19 lpm up to 2000 psi/140 bar. Oil flow is regulated by sliding the throttle lever to the full throttle position.

HYDRAULIC HOSE & FITTING CONNEC-TIONS



ADAPTER, 1/2 INCH MALE PIPE x -10 SAE O-RING
(STANLEY P/N 07882 ADAPTER)

E.H.T.M.A./H.T.M.A. 1/2 INCH MALE QUICK DISCONNECT COUPLER
(STANLEY P/N 24061 COUPLER NOSE or STANLEY P/N 03974 COUPLER SET - nose & body)

E.H.T.M.A./H.T.M.A. 1/2 INCH FEMALE QUICK DISCONNECT COUPLER
(STANLEY P/N 24060 COUPLER BODY or STANLEY P/N 03974 COUPLER SET - nose & body)

1/2 INCH I.D. HOSE, 25 FT LONG.
*(**FOR 25 FEET**, STANLEY P/N 05008 HYDRAULIC HOSES)*

1/2 INCH MALE PIPE HOSE END

E.H.T.M.A./H.T.M.A. 1/2 INCH MALE QUICK DISCONNECT COUPLER
(STANLEY P/N 24061 COUPLER NOSE or STANLEY P/N 03974 COUPLER SET - nose & body)

E.H.T.M.A./H.T.M.A. 1/2 INCH FEMALE QUICK DISCONNECT COUPLER
(STANLEY P/N 24060 COUPLER BODY or STANLEY P/N 03974 COUPLER SET - nose & body)

ADAPTER, 3/8 INCH MALE PIPE x -8 SAE O-RING
(STANLEY P/N 00936 ADAPTER) ***NOTE:*** *ADAPTERS OR HOSE WHIPS ARE INCLUDED WITH TOOLS.*

QUICK DISCONNECT COUPLERS

E.H.T.M.A./H.T.M.A. approved quick disconnect couplings are installed to hydraulic hoses so that the direction of oil flow is always from the male to the female quick disconnect as shown on the next page. Quick disconnect couplings and hose fittings are selected so that additional fittings such as reducer or adapter fittings are not required.

If adapter fittings are used, they must be approved steel hydraulic fittings meeting a minimum operating pressure rating of 2500 psi/172 bar. Do not use galvanized pipe fittings or black pipe fittings.

Use thread sealant compound when installing quick disconnect couplings to hose or tool fittings. Follow the instructions furnished with the selected thread sealant. DO NOT OVERTIGHTEN THE FITTINGS.

STARTING THE ENGINE

1. Ensure the hydraulic control lever is in the "**OFF**" position.
2. Turn the fuel shut-off valve located at the rear of the engine to the "**OPEN**" position.
3. Move the choke control to the "**CHOKE**" position.
4. Push the rocker "ON/OFF" switch to the **"ON"** position.
5. Grasp the starter grip and pull rapidly.
6. When the engine starts, open the choke gradually.
7. When the engine is warmed up the throttle may be advanced.

TOOL OPERATION

1. Connect the hoses and the tool (SEE "HYDRAULIC HOSE & FITTING CONNECTIONS" earlier in this manual.
2. After the engine is warm and running, set the throttle control to "**FAST**".
3. Move the circuit control lever to the right to activate the circuit.

ENGINE SHUTDOWN

1. Place the circuit control lever in the "**OFF**" position.
2. Move the throttle control to the "**SLOW**" position.
3. Allow the engine to idle for approximately one minute and then push the rocker "ON/OFF" switch to the "**OFF**" position.
4. Turn the fuel shut-off to the "**CLOSED**" position.

COLD WEATHER STARTING

1. Use the procedures described under "STARTING THE ENGINE" and then follow the procedure below.
2. Hydraulic fluids are thicker in cold weather, therefore, it is recommended that the engine be run at low idle long enough to bring the fluid temperature up to a minimum of 50°F/10°C or until the hydraulic filter feels warm.
3. If the tools and tool hoses are cold, it is recommended to allow hydraulic fluid to circulate through the tool hoses until warm before using the tools.

For more detailed information on starting and stopping the engine, consult the engine manual.

ENGINE MAINTENANCE

Follow the maintenance schedule and general maintenance instructions in the engine maintenance and operation manual furnished with the power unit. Normal maintenance includes:

- Service pre-cleaner every 25 hours of operation.
- Service air cleaner cartridge every 100 hours of operation.
- Replace in-line fuel filter every 50 hours or sooner if required.
- Replace the spark plug every 100 hours of operation.
- Change engine oil after first 5 hours of operation, then after every 50 hours of operation. If engine has been operating under heavy load or in high ambient temperature, change the oil every 25 hours of operation.
- Check oil level daily.
- Remove dirt and debris from engine with a cloth or brush daily. Do not use water spray.

HYDRAULIC SYSTEM MAINTENANCE

Observe the following for maximum performance and service life from the hydraulic system.

- Always keep hydraulic system and fluids clean.
- Keep water out of fluid. (See paragraph b. below.)
- Keep air out of hydraulic lines. Hydraulic system overheating and foam at the hydraulic tank breather indicate air is present in the lines. Keep all suction line fittings and clamps tight.
- Hydraulic system wear is noted by increased heat during tool operation, reduced tool performance and eventual system breakdown.
- Operate with the fluid temperature at 50 - 140 F/10 - 60 C for improved seal and hose life, and maximum efficiency.

FILLING THE RESERVOIR

Make sure the engine is stopped before opening the filler cap. Fill slowly with the recommended fluid. Fluid must be visible in the sight gauge at all times. Add fluid as needed. Stop filling when the sight gauge indicates a full reading. Secure the filler cap before restarting the engine.

REMOVING CONDENSED MOISTURE FROM HYDRAULIC FLUID

Condensation is a frequent problem with cool mobile hydraulic circuits. This condition occurs in moist or cold climates. When warm air in the hydraulic tank draws moisture from the cooler air outside, water accumulates in the tank.

To remove water from the hydraulic system, use the "PRESSURE" hose without the quick-disconnect coupler attached. Run the engine at the idle setting and pump the fluid into a clean 5 gal./20 ltr container.

Turn the engine "OFF" as soon as the hydraulic tank (reservoir) is empty. DO NOT operate the engine with an empty hydraulic tank as pump damage may occur.

- Allow the fluid to sit long enough for the water to settle to the bottom of the container. Slowly pour the fluid back into the hydraulic tank, avoiding the water at the bottom of the container.
- Check hydraulic lines and fittings for leaks, kinks, etc. daily. Do not use your hand to perform this check.
- Change the hydraulic filter element every 200 hours of operation. Change more often if cold, moist or dusty conditions exist.
- Check oil cooler for debris. Remove debris with air pressure.

CHECKING SUCTION HOSE

Make sure the suction hose (from the hydraulic tank to the pump inlet) is not kinked and is clamped securely. This reduces the risk of pump cavitation and sucking air into the system. All pump fittings should be tight.

CHECKING HYDRAULIC LINES AND FITTINGS

Check for loose fittings, leaks, etc., throughout the hydraulic circuit.

STORAGE

- Clean the unit thoroughly before storage. Do not use water pressure.
- Always store the unit in a clean and dry facility.
- If the unit will be stored for a prolonged period (over 30 days), add a fuel additive to the fuel tank to prevent the fuel from gumming. Run engine for a short period to circulate the additive.
- Replace crankcase oil with new oil.
- Remove the spark plug and pour approximately 1 ounce (30 ml) of engine oil into the cylinder. Replace the spark plug and crank the engine slowly to distribute the oil.
- Check hydraulic reservoir for water. If water is found, change the oil and circulate it through the tool hose and tool. (See "HYDRAULIC SYSTEM MAINTENANCE" earlier in this section).
- Disconnect tool hoses. Allow the water to settle from the fluid overnight. Install a new filter (if dirty).

TROUBLE SHOOTING

PROBLEM	CAUSE	REMEDY
Engine will not run.	Ignition switch off.	Set the switch to "ON" before pulling the starter grip.
	Fuel Shut-Off Not Open.	Open Fuel Shut-Off.
	No fuel.	Add Fuel.
	Fuel filter plugged.	Replace fuel filter.
	Defective spark plug. replace.	Remove plug, check gap, clean or
Fluid blowing out of fluid reservoir vent.	Defective pump seal.	Replace pump seal.
	Hydraulic tank overfilled.	Correct the fluid level.
Hydraulic tool won't operate.	Control lever setting incorrect.	Set control lever to "TOOL ON".
	Incorrect hose connection to tool.	Make sure the tool hose circuit goes from right (pressure) fitting to tool and back to the left fitting (return). Fluid always flows from the male to female fittings.
	Quick disconnect fittings defective.	Detach from hose, connect set together and check for free flow.
	Hydraulic fluid level low. using the recommended fluid.	Check for correct fluid level. Fill
	Pump coupling defective. between blower and pump.	Check coupling between pump and blower. The coupler should slide only ..03-.06 in./.80-1.60 mm inches
	Relief valve stuck open.	Adjust or replace valve.
	Suction hose kinked.	Make sure suction hose from fluid reservoir to pump inlet has a smooth curve.

SPECIFICATIONS

Capacity ..... One 19 lpm / 5 gpm circuit
Pressure Range ..... 70-140 bar / 1000-2000 psi
Engine RPM 3600
Couplers ..... EHTMA/HTMA Flush Face Type Male & Female

Weight (with oil) ..... 54.4 kg / 120 lbs
Overall Length ..... 71 cm / 28 in.
Overall Width ..... 48 cm / 19 in.
Overall Height ..... 71 cm / 28 in.
Engine ..... Vanguard 9.5 hp
Fuel Tank Capacity ..... 9 ltr / 2.5 gal
Oil Reservoir Capacity ..... 3 ltr / .80 gal

..... 20 lpm @ 138 bar

Sound Power Level ..... Lwa 98

ACCESSORIES

PART NO. DESCRIPTION

25417 Spin-on Filter
05008 25 feet of dual hydraulic hose (less couplers)
24069 HTMA Flush Face Coupler Set with 3/8 NPTF threads (male & female)
24070 HTMA Flush Face Coupler Set with 1/2 NPTF threads (male & female)
04182 Flow & Pressure Tester
28317 Flow & Pressure Tester with Digital Flow & Temperature Readout

HP0815231C PARTS LIST

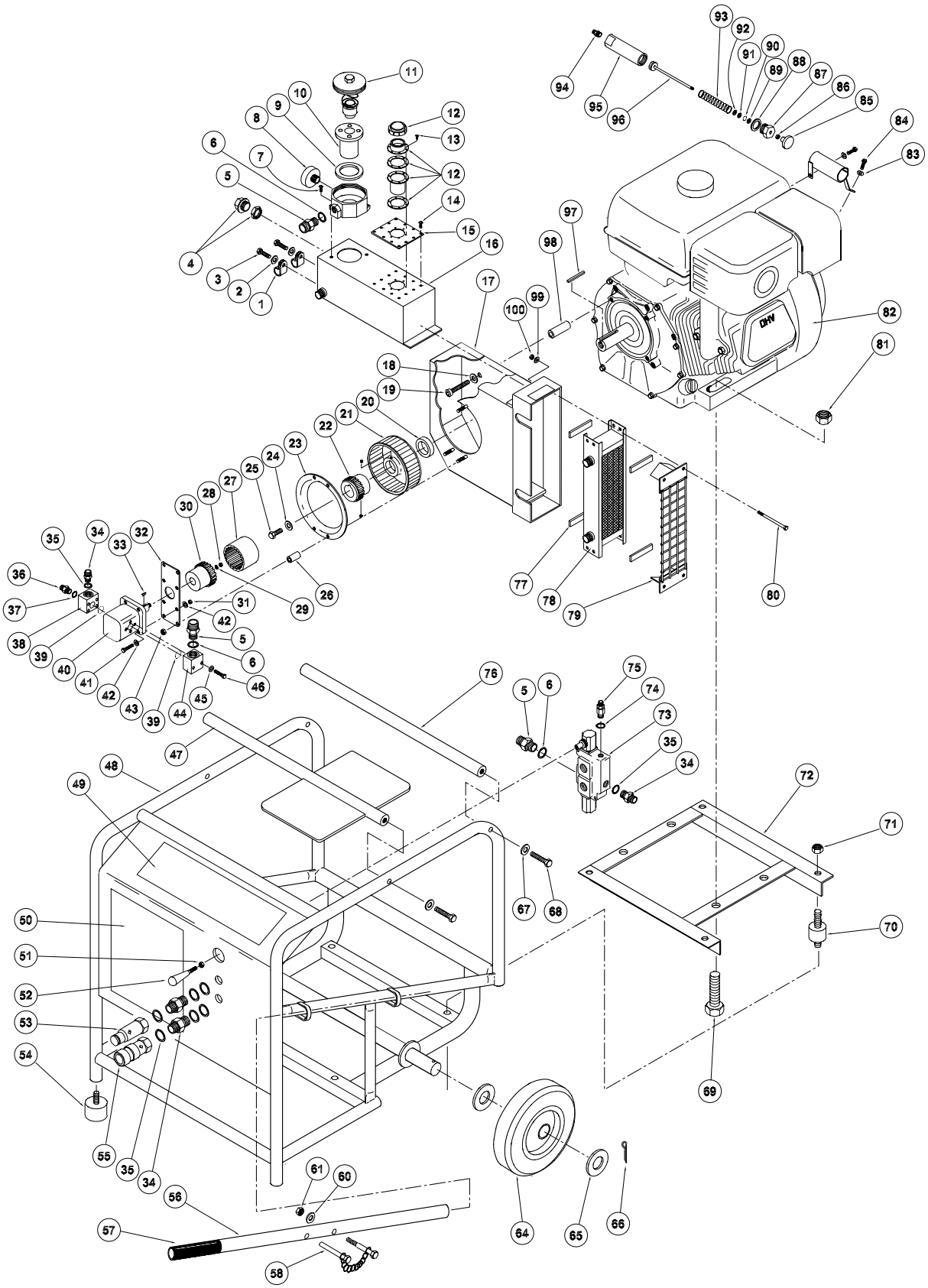
Item No	Part No	Qty	Description
1	38902	2	Clamp, Plastic
2	38903	2	Washer
3	38904	2	Capscrew
4	38905	1	Sight Glass Assy
5	38906	3	1/2 x 3/4 BSP Nipple
6	38907	3	1/2 Bonded Seal
7	38904	2	Capscrew
8	38908	1	Condition Gauge
9	38909	1	O-ring
10	38910	1	Filter Element
11	38911	1	Filter Assy
12	38912	1	Filler Assy
13	38913	6	Self Tapping Scrw, M5
14	38914	16	Capscrew, M6 x 15
15	38915	1	Mounting Plate
16	38916	1	Tank
17	38917	1	Cooler Weldment
18	38918	4	Washer
19	38919	4	Capscrew, 5/16 -24
20	38920	1	Spacer
21	38921	1	Blower Wheel
22	38922	1	Coupling, Engine Half
23	38923	1	Guide Ring
24	38924	1	Washer
25	38925	1	Capscrew
26	38926	4	Spacer
27	38927	1	Collar
28	38928	1	Nut
29	38929	1	Washer
30	38930	1	Coupling, Pump Half
31	38931	4	Nut
32	38932	1	Pump Plate
33	38933	1	Key
34	38934	4	3/8 x 3/8 BSP Nipple
35	38935	8	3/8 Bonded Seal
36	38936	1	Nipple
37	38937	1	Bonded Seal
38	38938	1	Porting Block, OUT
39	38939	2	O-ring
40	38940	1	Pump
41	38941	4	Capscrew, M6 x 30
42	38942	8	Washer
43	38931	4	Nut
44	38943	1	Porting Block, IN
45	38944	4	Washer
46	38945	4	Capscrew
47	38946	1	Cross Tube, FRONT
48	38947	1	Frame
49		1	Decal, Stanley Logo
50	38948	1	Decal, Ops Instructions
51	38949	1	Nut
52	38950	1	Lever
53	38951	1	Coupler, Male
54	38952	2	Foot
55	38953	1	Coupler, Female
56	39006	2	Handle Bar
57	39007	2	Grip
58	39008	1	Peg & Chain Assy
59	-----	--	NO ITEM
60	39009	2	Washer

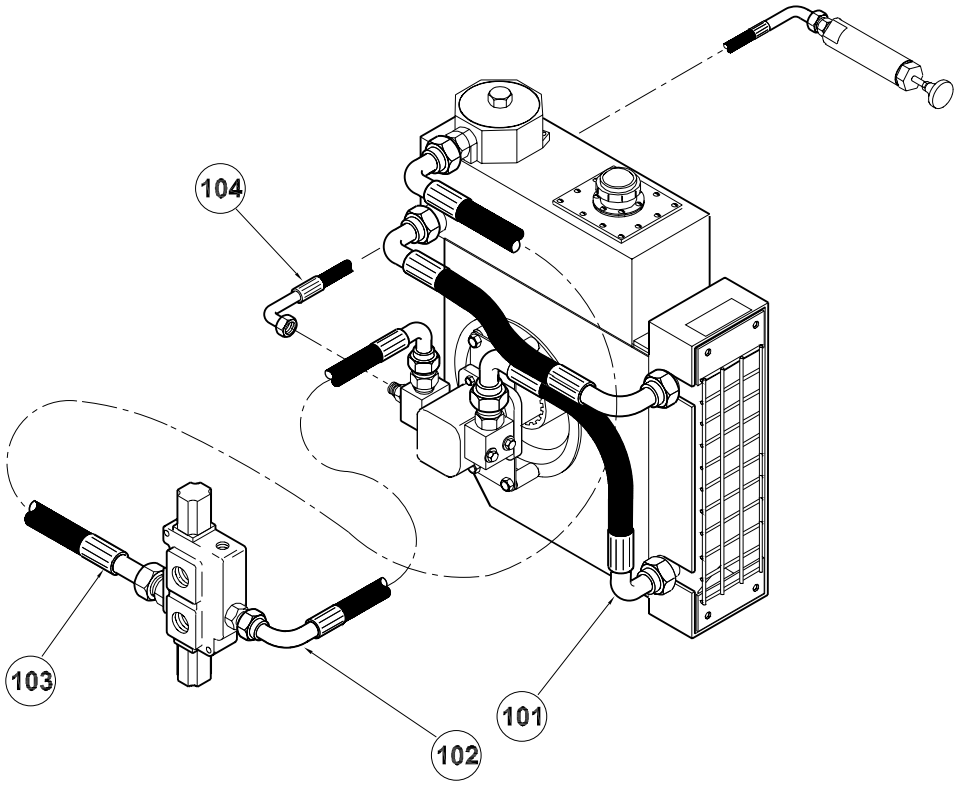
Item No	Part No	Qty	Description
61	39010	2	Nut
62	-----	--	NO ITEM
63	-----	--	NO ITEM
64	39011	2	Wheel
65	39012	4	Washer
66	39013	2	Cotter Pin
67	39015	4	Washer
68	39016	4	Capscrew
69	39017	4	Capscrew
70	39019	4	Engine Mount
71	38949	4	Nut
72	39020	1	Mounting Plate
73	39023	1	Control Valve
74	39025	1	O-ring
75	39026	1	Relief Vavle
76	39027	1	Cross Tube, REAR
77	39028	4	Rubber Strip
78	39029	1	Oil Cooler
79	39030	1	Cooler Guard
80	39031	4	Capscrew, M6 x 75 Nyloc
81	39032	4	Nut
82	39033	1	Engine, Honda
83		2	Washer
84		2	Capscrew
85	39034	1	Knob
86	39035	1	Nut
87	39036	1	End Cap
88	39037	1	O-ring
89	39038	1	Back-up Ring
90	39039	1	O-ring
91	39040	1	Washer
92	39041	1	Washer
93	39042	1	Spring
94	39043	1	Piston
95	39044	1	Cylinder
96	39045	1	1/8 x 1/4 BSP Nipple
97	39046	1	Key
98	39047	4	Spacer
99	39048	4	Washer
100	39049	4	Nut, M6

NOTE: Use Part Number and Part Name when ordering.

HP0815231C Power Unit

Jan 2000





Item No	Part No	Qty	Description
101	39050	1	Hose Assy, Suction, Pump to Cooler
102	39051	1	Hose Assy, Pressure, Pump to Valve
103	39052	1	Hose Assy, Return, Valve to Tank
104	39053	1	Hose Assy, Pressure, Pump Block to Throttle Actuator

WARRANTY

Stanley Hydraulic Tools (hereinafter called "Stanley"), subject to the exceptions contained below, warrants new hydraulic tools for a period of one year from the date of sale to the first retail purchaser, or for a period of 2 years from the shipping date from Stanley, whichever period expires first, to be free of defects in material and/or workmanship at the time of delivery, and will, at its option, repair or replace any tool or part of a tool, or new part, which is found upon examination by a Stanley authorized service outlet or by Stanley's factory in Milwaukie, Oregon to be DEFECTIVE IN MATERIAL AND/OR WORKMANSHIP.

EXCEPTIONS FROM WARRANTY

NEW PARTS: New parts which are obtained individually are warranted, subject to the exceptions herein, to be free of defects in material and/or workmanship at the time of delivery and for a period of 6 months after the date of first usage. Seals and diaphragms are warranted to be free of defects in material and/or workmanship at the time of delivery and for a period of 6 months after the date of first usage or 2 years after the date of delivery, whichever period expires first. Warranty for new parts is limited to replacement of defective parts only. Labor is not covered.

FREIGHT COSTS: Freight costs to return parts to Stanley, if requested by Stanley for the purpose of evaluating a warranty claim for warranty credit, are covered under this policy if the claimed part or parts are approved for warranty credit. Freight costs for any part or parts which are not approved for warranty credit will be the responsibility of the individual.

SEALS & DIAPHRAGMS: Seals and diaphragms installed in new tools are warranted to be free of defects in material and/or workmanship for a period of 6 months after the date of first usage, or for a period of 2 years from the shipping date from Stanley, whichever period expires first.

CUTTING ACCESSORIES: Cutting accessories such as breaker tool bits are warranted to be free of defects in material and or workmanship at the time of delivery only.

ITEMS PRODUCED BY OTHER MANUFACTURERS: Components which are not manufactured by Stanley and are warranted by their respective manufacturers.

a. Costs incurred to remove a Stanley manufactured component in order to service an item manufactured by other manufacturers.

ALTERATIONS & MODIFICATIONS: Alterations or modifications to any tool or part. All obligations under this warranty shall be terminated if the new tool or part is altered or modified in any way.

NORMAL WEAR: any failure or performance deficiency attributable to normal wear and tear such as tool bushings, retaining pins, wear plates, bumpers, retaining rings and plugs, rubber bushings, recoil springs, etc.

INCIDENTAL/CONSEQUENTIAL DAMAGES: To the fullest extent permitted by applicable law, in no event will STANLEY be liable for any incidental, consequential or special damages and/or expenses.

FREIGHT DAMAGE: Damage caused by improper storage or freight handling.

LOSS TIME: Loss of operating time to the user while the tool(s) is out of service.

IMPROPER OPERATION: Any failure or performance deficiency attributable to a failure to follow the guidelines and/or procedures as outlined in the tool's operation and maintenance manual.

MAINTENANCE: Any failure or performance deficiency attributable to not maintaining the tool(s) in good operating condition as outlined in the Operation and Maintenance Manual.

HYDRAULIC PRESSURE & FLOW, HEAT, TYPE OF FLUID: Any failure or performance deficiency attributable to excess hydraulic pressure, excess hydraulic back-pressure, excess hydraulic flow, excessive heat, or incorrect hydraulic fluid.

REPAIRS OR ALTERATIONS: Any failure or performance deficiency attributable to repairs by anyone which in Stanley's sole judgement caused or contributed to the failure or deficiency.

MIS-APPLICATION: Any failure or performance deficiency attributable to mis-application. "Mis-application" is defined as usage of products for which they were not originally intended or usage of products in such a matter which exposes them to abuse or accident, without first obtaining the written consent of Stanley. PERMISSION TO APPLY ANY PRODUCT FOR WHICH IT WAS NOT ORIGINALLY INTENDED CAN ONLY BE OBTAINED FROM STANLEY ENGINEERING.

WARRANTY REGISTRATION: STANLEY ASSUMES NO LIABILITY FOR WARRANTY CLAIMS SUBMITTED FOR WHICH NO TOOL REGISTRATION IS ON RECORD. In the event a warranty claim is submitted and no tool registration is on record, no warranty credit will be issued without first receiving documentation which proves the sale of the tool or the tools' first date of usage. The term "DOCUMENTATION" as used in this paragraph is defined as a bill of sale, or letter of intent from the first retail customer. A WARRANTY REGISTRATION FORM THAT IS NOT ALSO ON RECORD WITH STANLEY WILL NOT BE ACCEPTED AS "DOCUMENTATION".

NO ADDITIONAL WARRANTIES OR REPRESENTATIONS

This limited warranty and the obligation of Stanley thereunder is in lieu of all other warranties, expressed or implied including merchantability or fitness for a particular purpose except for that provided herein. There is no other warranty. This warranty gives the purchaser specific legal rights and other rights may be available which might vary depending upon applicable law.

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