## STANLEY

#### GT & HP Power Unit Technical Bulletin

04/2024 Ver. 2

#### What has changed?

For all non-diesel models of GT and HP Power Units, a shipping cap will be installed over the breather valve of the hydraulic oil tank.



This shipping cap and attached warning tag must be removed before using the power unit. Failure to remove this cap may cause catastrophic power unit damage.

#### **CAUTION**

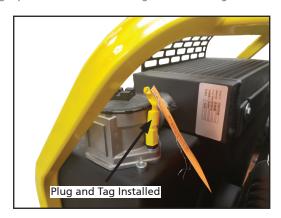
Pump damage can occur if action is not taken! Remove the attached shipping cap and tag before using this power unit. Failure to remove the shipping cap could cause catastrophic damage.

Why has the change taken place?

During shipping, it is possible for hydraulic oil to escape the hydraulic oil reservoir through the breather valve. In order to eliminate hydraulic oil spillage, STANLEY will install a cap over the breather valve before the power unit is shipped.

#### How to Remove the Shipping Cap

- 1. Unpack the power unit.
- Locate the shipping cap installed over the breather valve. Note: The shipping cap will be connected to a large information tag.





Grasp the base of the cap, pull it off of the breather valve and discard it. Note: If your power unit breather valve does not have a cap installed, you may use the power unit normally.

### **STANLEY**

# HP12 HYDRAULIC POWER UNIT



USER'S MANUAL SAFETY, OPERATION AND MAINTENANCE







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#### **IMPORTANT**

To fill out a product warranty validation form, and for information on your warranty.

Note: The warranty validation record must be submitted to validate the warranty.

**SERVICING:** This manual contains safety, operation and routine maintenance instructions. Servicing of hydraulic tools, other than routine maintenance, must be performed by an authorized and certified dealer. Please read the following warning.



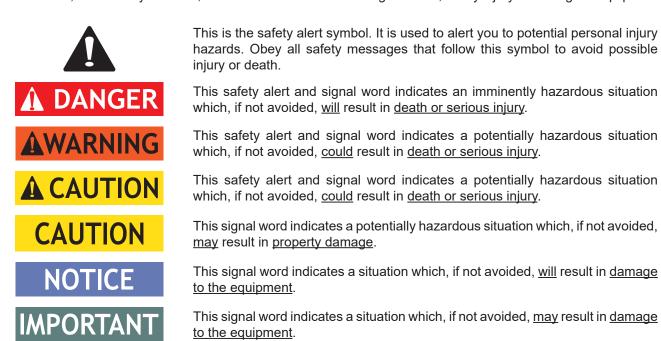
SERIOUS INJURY OR DEATH COULD RESULT FROM THE IMPROPER REPAIR OR SERVICE OF THIS TOOL.

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

For the nearest certified dealer, call STANLEY at (503) 659-5660 and ask for a Customer Service Representative.

#### **SAFETY SYMBOLS**

Safety symbols and signal words, as shown below, 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.



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

#### LOCAL SAFETY REGULATIONS

maintenance personnel.		

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

#### SAFETY PRECAUTIONS

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 tool 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 4.

In addition to this manual, read and understand safety and operating instructions in the engine "Operation & Maintenance Instructions" manual furnished with the HP12 power unit.

The HP12 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 unit. Failure to do so could result in personal injury or equipment damage.







- Operator 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 protection, head protection and safety shoes at all times when operating the power unit.
- Do not inspect or clean the power unit while it is running. Accidental engagement of the unit can cause serious injury.
- 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.
- Be sure all hoses are connected for correct flow direction to and from the tool being used.

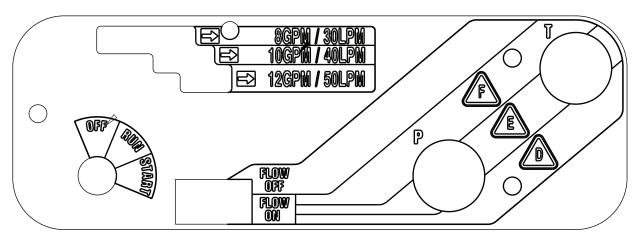
- Do not inspect hoses and fittings for leaks by using bare hands. "Pin-hole" leaks can penetrate the skin.
- NEVER OPERATE THE POWER UNIT IN A CLOSED SPACE. Inhalation of engine exhaust can be fatal.
- Do not operate a damaged or improperly adjusted power unit.
- Never wear loose clothing that can become entangled in the working parts of the power unit.
- Keep all parts of your body away from the working parts of the power unit.
- Keep clear of hot engine exhaust.
- Do not add fuel to the power unit while it 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.
- Do not reverse tool rotation direction by changing fluid flow direction.
- Allow power unit engine to cool before storing in an enclosed space.
- Always keep critical tool markings, such as labels and warning stickers, legible.
- To avoid personal injury or equipment damage, all tool repair, maintenance and service must only be performed by authorized and properly trained personnel.



#### **TOOL STICKERS AND TAGS**



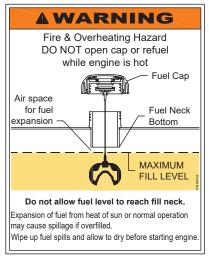
74759 Power Unit Dash Decal



76748 Single Circuit Decal



84815 Emissions Decal



88158 Fuel Overfill Warning Decal

#### **HOSE TYPES**

The rated working pressure of the hydraulic hose must be equal to or higher than the relief valve setting on the hydraulic system. There are three types of hydraulic hose that meet this requirement and are authorized for use with STANLEY hydraulic tools. They are:

**Certified non-conductive** — constructed of thermoplastic or synthetic rubber inner tube, synthetic fiber braid reinforcement, and weather resistant thermoplastic or synthetic rubber cover. Hose labeled **certified non-conductive** is the only hose authorized for use near electrical conductors.

**Wire-braided** (conductive) — constructed of synthetic rubber inner tube, single or double wire braid reinforcement, and weather resistant synthetic rubber cover. *This hose is conductive and must never be used near electrical conductors.* 

**Fabric-braided** (not certified or labeled non-conductive) — constructed of thermoplastic or synthetic rubber inner tube, synthetic fiber braid reinforcement, and weather resistant thermoplastic or synthetic rubber cover. This hose is **not certified non-conductive** and must never be used near electrical conductors.

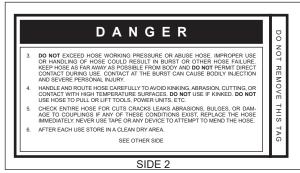
#### **HOSE SAFETY TAGS**

To help ensure your safety, the following DANGER tags are attached to all hose purchased from STANLEY. 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 from your STANLEY Distributor.

#### THE TAG SHOWN BELOW IS ATTACHED TO "CERTIFIED NON-CONDUCTIVE" HOSE





(Shown smaller than actual size)

#### THE TAG SHOWN BELOW IS ATTACHED TO "CONDUCTIVE" HOSE.





(Shown smaller than actual size)



#### **HOSE RECOMMENDATIONS**

# Tool to Hydraulic Circuit Hose Recommendations

The chart to the right shows recommended minimum hose diameters for various hose lengths based on gallons per minute (GPM)/liters per minute (LPM). These recommendations are intended to keep return line pressure (back pressure) to a minimum acceptable level to ensure maximum tool performance.

This chart is intended to be used for hydraulic tool applications only based on STANLEY tool operating requirements and should not be used for any other applications.

All hydraulic hose must have at least a rated minimum working pressure equal to the maximum hydraulic system relief valve setting.

All hydraulic hose must meet or exceed specifications as set forth by SAE J517.

Oil	Oil Flow	Hose L	Hose Lengths	Inside Diameter	iameter	USE	Min. Workin	Min. Working Pressure
GPM	LPM	FEET	METERS	INCH	MM	(Press/Return)	PSI	BAR
		Certified No	on-Conductive	Hose - Fiber	r Braid - for	Certified Non-Conductive Hose - Fiber Braid - for Utility Bucket Trucks	Frucks	
4-9	15-34	up to 10	up to 3	3/8	10	Both	2250	155
	Conductiv	ve Hose - Wire	<b>Braid or Fiber</b>	Braid -DO N	NOT USE NE	Conductive Hose - Wire Braid or Fiber Braid -DO NOT USE NEAR ELECTRICAL CONDUCTORS	AL CONDUCT	ORS
4-6	15-23	up to 25	up to 7.5	3/8	10	Both	2500	175
4-6	15-23	26-100	7.5-30	1/2	13	Both	2500	175
5-10.5	19-40	up to 50	up to 15	1/2	13	Both	2500	175
5-10.5	19-40	51-100	15-30	5/8	16	Both	2500	175
1 0 7	7	000	00	5/8	16	Pressure	2500	175
c. -c.	04-8-	000-001	06-00	3/4	19	Return	2500	175
10-13	38-49	up to 50	up to 15	5/8	16	Both	2500	175
7	20 40	77	75 20	2/8	16	Pressure	2500	175
2	94-00	001-100	06-61	3/4	19	Return	2500	175
7	20 40	000 001	30.60	3/4	19	Pressure	2500	175
2-0	94-00	002-001	00-00	1	25.4	Return	2500	175
0,7	70	30 04 000	0 0	2/8	16	Pressure	2500	175
2	49-00	cz oj dn	o 01 dn	3/4	19	Return	2500	175
70 7	000	700	000	3/4	19	Pressure	2500	175
01-61	49-00	20-100	05-0	1	25.4	Return	2500	175

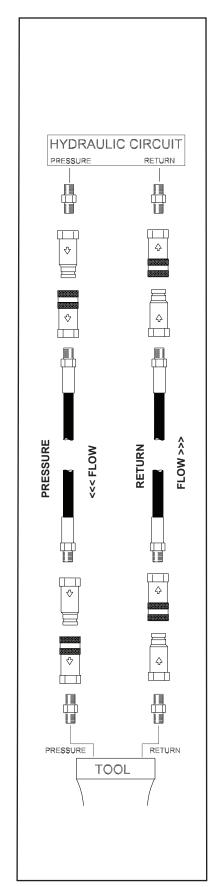


Figure 1. Typical Hose Connections

#### **HTMA / EHTMA REQUIREMENTS**

#### HTMA / EHTMA REQUIREMENTS

#### **TOOL TYPE**

HTMA HYDRAULIC SYSTEM REQUIREMENTS	TYPE I	TYPE II	TYPE RR	TYPE III
Flow range	4-6 GPM	7-9 GPM	9-10.5 GPM	11-13 GPM
	(15-23 LPM)	(26-34 LPM)	(34-40 LPM)	(42-49 LPM)
Nominal operating pressure (At the power supply outlet)	1500 psi	1500 psi	1500 psi	1500 psi
	(103 bar)	(103 bar)	(103 bar)	(103 bar)
System relief valve setting (At the power supply outlet)	2100-2250 psi	2100-2250 psi	2200-2300 psi	2100-2250 psi
	(145-155 bar)	(145-155 bar)	(152-159 bar)	(145-155 bar)
Maximum back pressure (At tool end of the return hose)	250 psi	250 psi	250 psi	250 psi
	(17 bar)	(17 bar)	(17 bar)	(17 bar)
Measured at a max fluid viscosity of: (At minimum operating temperature)	400 ssu*	400 ssu*	400 ssu*	400 ssu*
	(82 centistokes)	(82 centistokes)	(82 centistokes)	(82 centistokes)
Temperature: Sufficient heat rejection capacity to limit maximum fluid temperature to: (At maximum expected ambient temperature)	140° F	140° F	140° F	140° F
	(60° C)	(60° C)	(60° C)	(60° C)
Minimum cooling capacity at a temperature difference of between ambient and fluid temps	3 hp	5 hp	6 hp	7 hp
	(2.24 kW)	(3.73 kW)	(5.22 kW)	(4.47 kW)
	40° F	40° F	40° F	40° F
	(22° C)	(22° C)	(22° C)	(22° C)

**Note:** Do not operate the tool at oil temperatures above 140° F (60° C). Operation at higher temperatures can cause operator discomfort at the tool.

Filter minimum full-flow filtration	25 microns	25 microns	25 microns	25 microns
Sized for flow of at least: (For cold temp startup and maximum dirt-holding capacity)	30 GPM	30 GPM	30 GPM	30 GPM
	(114 LPM)	(114 LPM)	(114 LPM)	(114 LPM)
Hydraulic fluid, petroleum based (premium grade, antiwear, non-conductive) Viscosity (at minimum and maximum operating temps)	100-400 ssu	100-400 ssu	100-400 ssu	100-400 ssu
	(20-82	(20-82	(20-82	(20-82
	centistokes)	centistokes)	centistokes)	centistokes)

**Note:** When choosing hydraulic fluid, the expected oil temperature extremes that will be experienced in service determine the most suitable temperature viscosity characteristics. Hydraulic fluids with a viscosity index over 140 will meet the requirements over a wide range of operating temperatures.

\*SSU = Saybolt Seconds Universal

#### **CLASSIFICATION**

EHTMA HYDRAULIC SYSTEM REQUIREMENTS	B 15Lpm at 138bar EHIMA CATEGORY	20Lpm at 138bar EHTMA CATEGORY	30Lpm at 138bar EHTMA CATEGORY	40Lpm et 138bor EHMA CATEGORY	F SOLpm at 138bar EHINA CATEGORY
Flow range	3.5-4.3 GPM (13.5-16.5 LPM)	4.7-5.8 GPM (18-22 LPM)	7.1-8.7 GPM (27-33 LPM)	9.5-11.6 GPM (36-44 LPM)	11.8-14.5 GPM (45-55 LPM)
Nominal operating pressure (At the power supply outlet)	1870 psi	1500 psi	1500 psi	1500 psi	1500 psi
	(129 bar)	(103 bar)	(103 bar)	(103 bar)	(103 bar)
System relief valve setting (At the power supply outlet)	2495 psi	2000 psi	2000 psi	2000 psi	2000 psi
	(172 bar)	(138 bar)	(138 bar)	(138 bar)	(138 bar)

Note: These are general hydraulic system requirements. See tool specification page for tool specific requirements.



#### **OPERATION**

#### PREPARATION FOR USE

Do not operate HP12 until you have completed the following steps:

READ THE ENGINE "OPERATING & MAINTENANCE INSTRUCTIONS" MANUAL.

#### **CHECK ENGINE CRANKCASE OIL LEVEL**

Check the oil level before starting the engine. Make sure the oil level is at the FULL MARK on the dipstick. Do not overfill. Use detergent oil classified "For Service SE, SF, SG" as specified in the engine "Operating & Maintenance Instructions" manual. See the "Operating & Maintenance Instructions" manual for oil viscosity grade.

#### **CHECK ENGINE FUEL LEVEL**

If fuel level is low, fill with unleaded gasoline (85 octane minimum).

#### **CHECK HYDRAULIC FLUID**

Ensure there is hydraulic fluid in the hydraulic oil tank. Below is a list of recommended oils.

Brand	Biodegradable	Description
CITGO	No	Hydurance AW32
AMS Oil	No	HVH 32
Exxon Mobil	No	Univis HVI26*
Exxon Mobil	No	DTE 10 Excel
Shell	No	S2 V 32
Chevron	No	Rando HDZ 32
Conoco Phillips	No	Unax AW-WR-32
Clarion (CITGO)	Yes	Green Bio 32
Exxon Mobil	Yes	EAL 224H
Chevron	Yes	Clarity AW32
Terresolve	Yes	Envirologic 132
Shell	Yes	Naturelle HF-E-32

<sup>\*</sup>Recommended for extreme cold temperatures

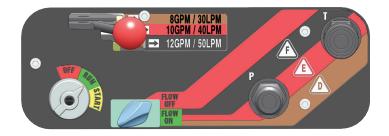
#### **INSTALL HYDRAULIC CONNECTIONS**

STANLEY recommends you use hose lengths of 25 ft/8 m with 1/2 inch/12.7 mm inside diameter. Hoses must have a working pressure rating of at least 2500 psi/175 bar. Hose ends must have male threads compatible with H.T.M.A. quick disconnect fittings (NPT).

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 coupling. Additional fittings, such as reducers 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.

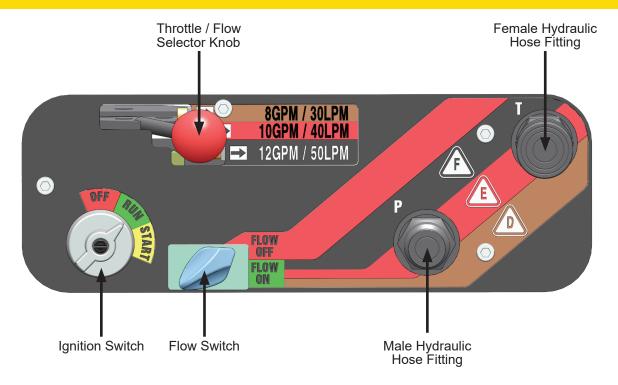
Use thread tape or pipe joint compound when installing quick disconnect couplings to hose or tool fittings. Follow the instructions furnished with the selected thread sealant. **DO NOT OVERTIGHTEN THE FITTINGS.** 



Connect the pressure hose to the bottom (male) fitting.

Connect the return hose to the top (female) fitting.

#### **OPERATION**



#### **CONTROLS**

HP12 can provide one 8 GPM/30 LPM circuit, one 10 GPM/40 LPM circuit or one 12 GPM/45 LPM circuit.

#### **STARTUP**

1. Toggle the Flow Switch to the "FLOW OFF" position.

Note: HP12 will not start unless the Flow Switch is in the "FLOW OFF" position.

- 2. Pull the choke knob out
- 3. Select the desired flow using the Flow Selector Knob.
- 4. Turn the Ignition Switch to the "START" position. After the engine starts, release the switch.
- Gradually push in the choke knob as the engine begins to idle smoothly.
- 6. Allow the engine to warm up.
- 7. Connect hoses and the tool.
- 8. Toggle the Flow Switch to the "FLOW ON" position.

#### CHANGING CIRCUIT FLOW

- 1. Toggle the Flow Switch to the "FLOW OFF" position
- 2. Select the desired circuit flow using the Flow Selector Knob.
- 3. Toggle the Flow Switch to the "FLOW ON" position.

#### SHUTDOWN

- 1. Toggle the Flow Switch to the "FLOW OFF" position.
- 2. Allow the engine to idle for approximately one minute
- 3. Turn the Ignition Switch to the "OFF" position.

#### **COLD WEATHER STARTUP**

Hydraulic fluid becomes thicker in cold weather. STANLEY recommends that the engine be run at a low idle (5 GMP/20 LPM setting) long enough to bring the fluid temperature up to a minimum of 50°F/10°C. Allow the hydraulic fluid to circulate through the tool hoses until they are warm.

Once the hydraulic oil is warm, you may operate the HP12 as normal.

#### **MAINTENANCE & TESTING**

#### **ENGINE MAINTENANCE SCHEDULE**

Follow the maintenance instructions provided in the engine "Operating & Maintenance Instructions" manual.

#### HYDRAULIC SYSTEM MAINTENANCE

- Check hydraulic fluid level daily and fill if needed.
- Check hydraulic lines and fittings daily for leaks, kinks or damage. Do not use your hand to perform this check.
- · Remove condensed moisture from the hydraulic fluid:
  - 1. Set the flow selector to a 8 GPM/20 LPM flow.
  - 2. Start the engine and pump the fluid, out of the male hose fitting, into a 5 gal. container.
  - 3. When hydraulic tank is empty, turn the Ignition Switch to the "Off" position.
  - Let the water settle to the bottom of the container.
  - Pour the hydraulic fluid back into the tank, being careful to not disturb the water sitting at the bottom of the container.
- Change the hydraulic filter every 200 hours of operation. Change more often if used in cold, moist or dusty conditions.
- Check oil cooler. Remove debris with air pressure.

#### **BATTERY**

- Do not charge the battery with an automotive battery charger. Charging at higher than 2 amps will damage the battery.
- If the engine stalls during operation, set the ignition switch to the "OFF" position to preserve battery charge.

#### **STORAGE**

- Clean the unit thoroughly. Do not pressure wash.
- Always store the unit in a clean and dry location.
- If storing for over 30 days, add an additive to the fuel tank to prevent the fuel from gumming. Run the engine to circulate the additive.
- Replace crankcase oil.

#### **GENERAL**

Tests should be performed periodically to ensure HP12 is operating at maximum efficiency. STANLEY Circuit Tester ,part number 04182, can be used to isolate problems in both the engine and hydraulic system.

#### **TESTING THE HYDRAULIC CIRCUIT**

Test to ensure the hydraulic pump is supplying the correct flow and pressure, and that the system relief valve is operating properly. Before testing, make sure the engine is warm and operating smoothly.

- 1. Turn the flow selector switch to the "OFF" position.
- 2. Set the flow control to the flow you would like to test.
- 3. Connect the STANLEY Circuit Tester to the tool hoses.
- 4. Fully open the tester restrictor valve (counterclockwise).
- 5. Start the engine.
- 6. The test flow gauge should read +/- 1 GPM of the selected flow.
- 7. Slowly turn the restrictor valve clockwise while watching the pressure gauge. The flow rate should not change as the pressure reaches 2100-2200 psi/148-155 bar.
- 8. At 2100-2200 psi/148-155 bar, the relief valve should begin to open. The flow rate should start to drop because the relief valve is allowing fluid to bypass to the hydraulic fluid tank. The relief valve is preset at the factory. If it does not open within the above range, the relief valve must be reset as follows:
  - a. The relief valve is located on the right side of the unit, behind the dash panel (7, page 17). Use a wrench to loosen the nut on the relief valve.
  - b. Use an Allen wrench to adjust the relief valve. Turn clockwise to raise the opening pressure, and counterclockwise to reduce the opening pressure.
  - c. Tighten the nut and test again.

#### **TROUBLESHOOTING**

Problem	Cause	Remedy
Engine will not start.	Flow Switch is not in the "FLOW OFF" position.	Make sure the Flow Switch is in the "FLOW OFF" position before attempting to start the power unit.
	Battery is not connected.	Check the battery cables for continuity and re-attach to the battery.
	Weak battery charge.	Test the battery voltage and charge if necessary. If the battery will not hold a charge, replace.
	No Fuel.	Ensure the power unit is cool, then add fuel.
	Fuel filter is plugged.	Replace the fuel filter.
	Defective spark plugs.	Remove the spark plugs and check the gap. Replace if necessary.
Hydraulic fluid is blowing out of the fluid reservoir vent.	Hydraulic fluid tank is overfilled.	Remove hydraulic fluid from the tank.
	Hydraulic pump is leaking.	Check the pump connections (see page 21). Tighten if necessary.
The hydraulic tool connected to the power unit will not operate.	The Flow Selector Knob is not in the proper position for the connected tool.	Ensure that the Flow Selector Knob is positioned for the correct fluid flow for your tool.
	The tool is not properly connected to the power unit.	Check the connection hoses from the power unit to the tool. Ensure the pressure and the return hoses are in the proper ports on the tool.
	The quick disconnect fittings are defective.	Disconnect the fittings from the hose and ensure there is free flow from each end of the fittings.
	The hydraulic fluid level in the reservoir is too low.	Check the fluid level in the hydraulic fluid tank. Add more fluid if necessary.
	The pump coupling is defective.	Power down the unit and check the coupling between the hydraulic pump and the engine (4, page 19).
	The relief valve is stuck open.	Adjust the valve or replace if necessary (7, page 17).
	Suction hoses are kinked.	Visually check the suction hose for a kink. The hose should have a smooth curve.
	The solenoid is not working.	Check electrical connections (see page 22). Replace if necessary.
	The attached tool is defective.	Refer to the tool manual.

#### **SPECIFICATIONS**

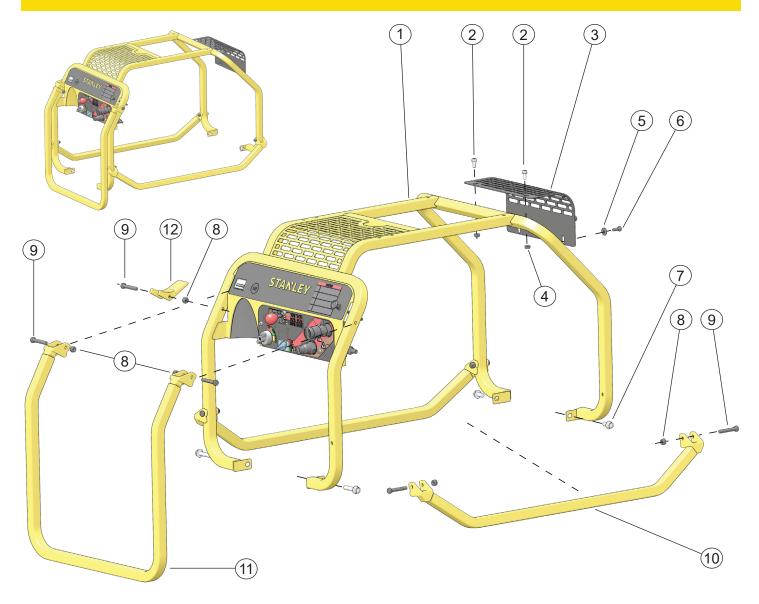
Engine:	23 hp Briggs
Capacity One 8 GPM/30 LPM Circuit, One 10 GPM/40 LPM	If or One 12 GPM/50 LPM Circuit
Length:	36 in. / 91.4 cm
Width:	23 in: / 58.4 cm
Height:	29.5 in. / 74.9 cm
Weight (Wet): Single Circuit Briggs	330 lbs / 149.6 kg
Fuel Tank Capacity:	5.5 gal. / 20.8 ltr
Estimated Gas Consumption Per Hour	
Hydraulic Reservoir Capacity:	3 gal. / 11 ltr
Relief Valve setting	
Full relief setting	2500 psi / 172 bar
HTMA Category"D" (30 LPM @ 138 bar)	

**POWER UNITS, TRACHORSE & GAS/FUEL DRIVEN EQUIPMENT: A1**. Federal Emission Component Compliance 40CFR part 1060.120 STANLEY warrants all fuel system emission components for 2 years from the date of original purchase provided there has been no abuse, neglect, modifications or improper maintenance.

**Components Covered:** The emission-related warranty covers all components whose failure would increase the evaporative emissions. Your emission-related warranty does not cover components whose failure would not increase evaporative emissions. Coverage under this warranty extends only to the following parts; fuel tank, fuel cap, fuel hose and vapor hose from the fuel tank to the engine and any connectors that are apart of the fuel system.

The equipment is designed, built, and equipped so it conforms at the time of sale to the ultimate purchaser and each subsequent purchaser and is in compliance with 40 C.F.R. 1060.120 standards. The equipment is free from defects in materials and workmanship that may keep it from meeting these requirements.

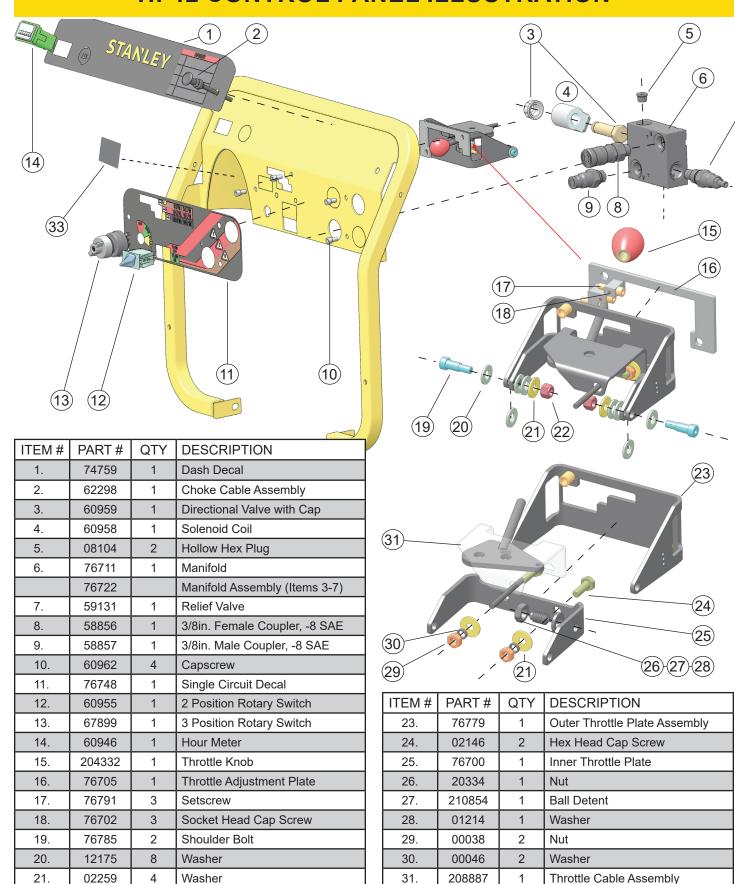
#### **HP12 FRAME PARTS ILLUSTRATION**



ITEM#	PART#	QTY	DESCRIPTION
1.	76755	1	Frame Weldment
2.	59075	2	Hex Flange Bolt
3.	59079	1	Cooler Guard
4.	59095	2	Hex Flange Nut
5.	60945	2	Washer
6.	15476	2	Hex Head Capscrew - Use if hydraulic oil tank was manufactured <b>BEFORE</b> 1/1/2021.
	14903	2	Hex Head Capscrew - Use if power unit or hydraulic oil tank was manufactured <b>AFTER</b> 1/1/2021
7.	23530	2	Rear Hex Flange Bolt
8.	03906	7	Locknut - Model HP12B Only
9.	370502	7	Hex Head Capscrew

ITEM#	PART#	QTY	DESCRIPTION
10.	62268	2	Lift Handle
11.	62267	1	Rear Lift Handle
12.	58916	1	Handle Lock

#### **HP12 CONTROL PANEL ILLUSTRATION**



32.

33.

76710

88158

1

1

00719

2

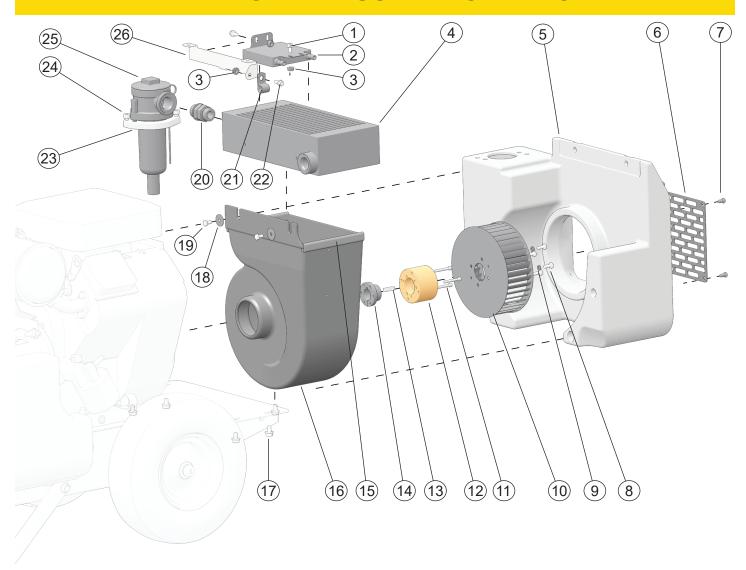
Nut

22

Wire Harness (see page 22)

Fuel Overfill Decal

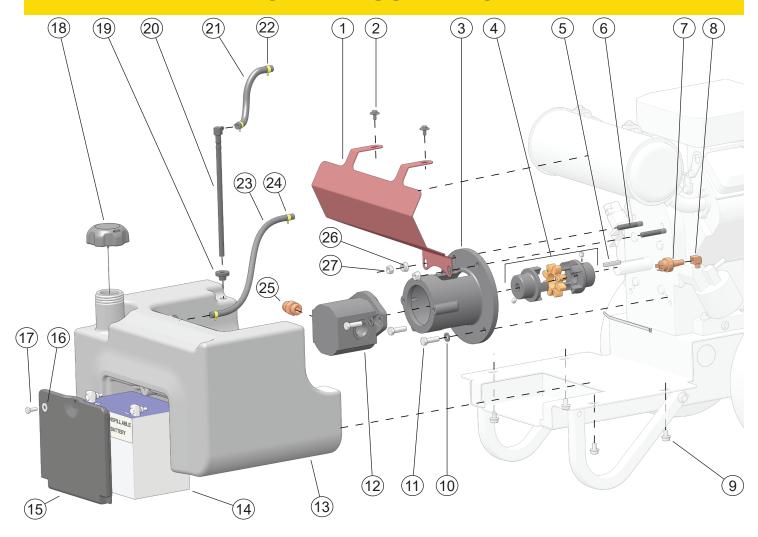
#### **HP12 ENGINE ILLUSTRATION - FRONT**



			,
ITEM#	PART#	QTY	DESCRIPTION
1.	59074	2	Flange Bolt
2.	1	-	Provided as Part of Engine
3.	59095	3	Nut
4.	59091	1	Oil Cooler
5.	59077	1	Hydraulic Oil Tank
6.	59080	1	Front Grille
7.	17821	4	Button Head Capscrew
8.	80986	4	Hex Head Capscrew
9.	80984	4	Lock Washer
10.	65107	1	Blower Wheel
11.	00111	3	Capscrew
12.	65108	1	Blower Hub
13.	20990	1	Key
14.	59076	1	Bushing

ITEM#	PART#	QTY	DESCRIPTION
15.	62296	2	Weather Strip
16.	59083	1	Blower Housing
17.	40433	5	Flange Bolt
18.	26831	2	Washer
19.	01213	2	Hex Head Capscrew
20.	51292	1	Standard Thread Union
21.	60774	1	Hose Clamp
22.	59075	1	Flange Bolt
23.	64937	1	Grip Plate
24.	43687	2	Capscrew
25.	40080	1	Filter Assembly
26.	66215	1	Cooler Mount

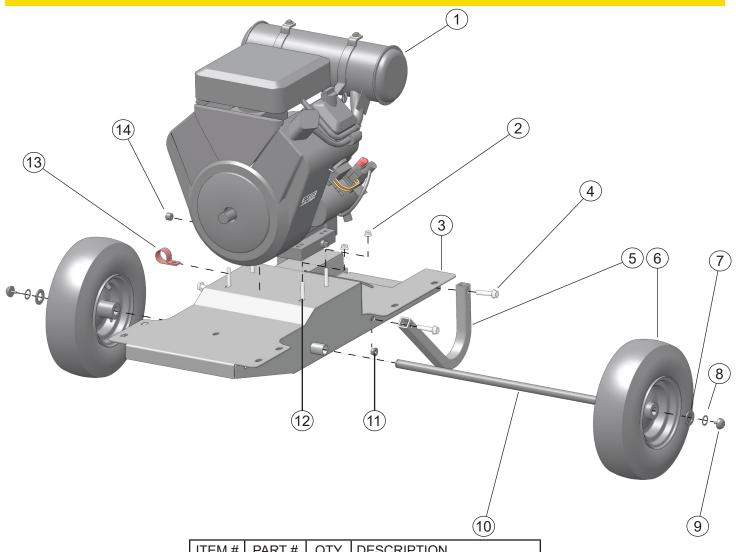
#### **HP12 ENGINE ILLUSTRATION - BACK**



ITEM#	PART#	QTY	DESCRIPTION
1.	66214	1	Heat Shield
2.	36152	2	Hex Washer Screw
3.	56655	1	Pump Mount
4.	56656	1	Coupling
5.	07819	1	Square Key
6.	62385	2	Stud
7.	31765	1	Pressure Switch
8.	69387	1	1/8in NPT Elbow Fitting
9.	40433	4	Flange Bolt
10.	01459	4	Washer
11.	07860	4	Hex Head Capscrew
12.	81743	1	Pump
13.	73050	1	Fuel Tank
14.	04303	1	Battery

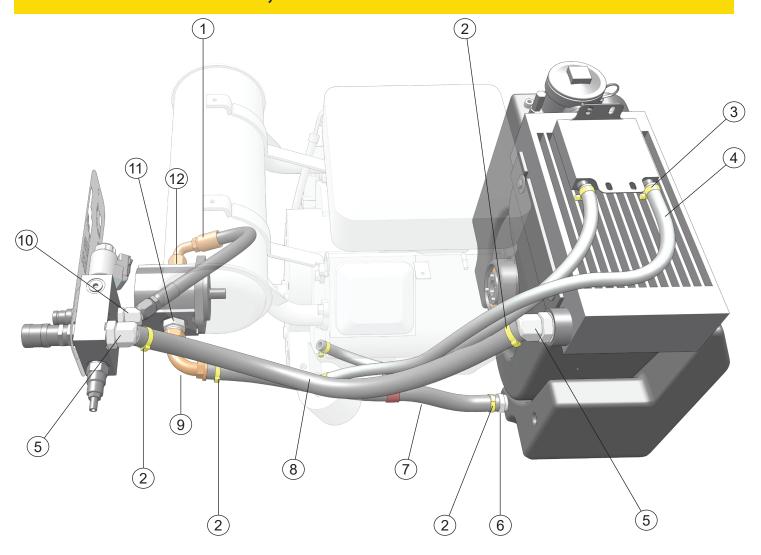
ITEM#	PART#	QTY	DESCRIPTION
15.	60921	1	Battery Cover
16.	60945	1	Washer
17.	15476	1	Hex Head Cap Screw
18.	71794	1	Fuel Tank Cap
19.	60920	2	Grommet
20.	60919	1	Fuel Elbow
21.	62289	1	Fuel Hose
22.	72317	2	Hose Clamp
23.	72571	1	Fuel Vapor Hose
24.	72451	3	Hose Clamp
25.	350104	1	Connector
26.	18893	2	Flange Nut
27.	371503	1	Nut

#### **HP12 ENGINE ILLUSTRATION - BASE**



ITEM#	PART#	QTY	DESCRIPTION
1.	76721	1	Engine
2.	12787	4	Flange Nut
3.	58897	1	Frame Base Weldment
4.	58976	4	Flange Bolt
5.	58975	2	Foot
6.	56633	2	Wheel and Tire - Model HP12B Only
7.	21318	2	Washer - Model HP12B Only
8.	31240	2	Retaining Ring - Model HP12B Only
9.	21714	2	Handle Bumper - Model HP12B Only
10.	58917	1	Axle - Model HP12B Only
11.	18893	2	Flange Nut
12.	58942	4	Flange Bolt
13.	24287	1	Hose Clamp
14.	01212	1	Pipe Plug

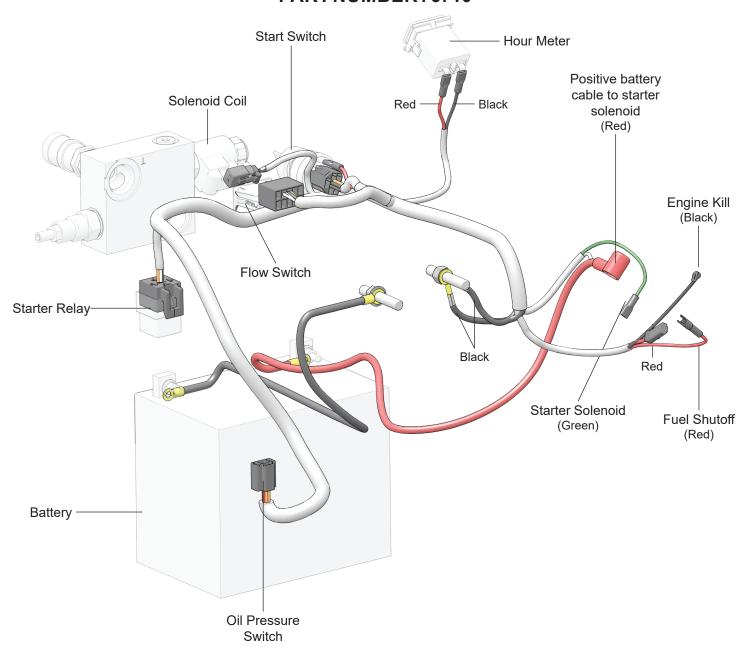
#### **HOSES, FITTINGS AND CLAMPS**



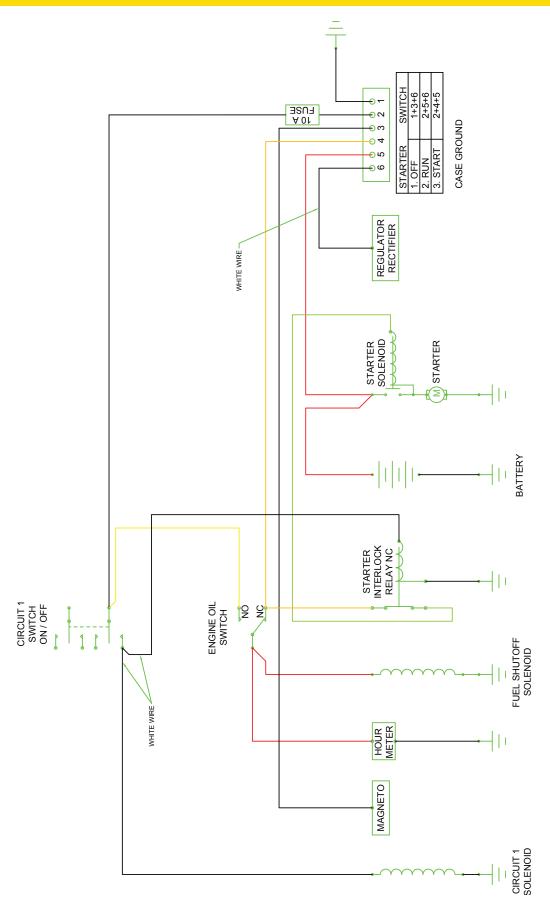
ITEM#	PART#	QTY	DESCRIPTION
1.	58943	1	Hose
2.	62199	4	Hose Clamp
3.	69384	4	Hose Clamp
4.	69383	2	Hose
5.	40364	2	45° Elbow Fitting
6.	59105	1	Hose Barb
7.	59089	1	Hose
8.	59088	1	Hose
9.	58569	1	90° Elbow Fitting
10.	350000	1	45° Fitting
11.	02773	1	Adapter
12.	350104	1	Connector

#### **MAIN WIRING HARNESS**

#### PARTNUMBER 76710



#### **ELECTRICAL SCHEMATIC**



# STANLEY

STANLEY 3810 SE Naef Road, Milwaukie, Oregon 97267 USA (503) 659-5660 / Fax (503) 652-1780