



Operation and Maintenance Instructions
Parts List

HT20G Power Unit



Read and understand all of the instructions and safety information in this manual before operating or servicing this tool.



167 Stock Street, Nesquehoning, PA 18240 **Phone:** 570-645-3779 **Fax:** 570-645-4061

Website: www.hydra-tech.com

E-Mail: htpump@hydra-tech.com



HYDRA-TECH PUMPS

PORTABLE HYDRAULIC POWER UNIT

MODELS HT20G and HT20GV



This power unit features a 24 HP Honda OHV gas engine, extended run fuel tank, extra oil cooling and easy handling. It is available with a fixed displacement gear pump or pressure compensated piston pump. Great for continuous duty applications powering our pumps or other hydraulic tools and equipment.

FEATURES

- Reliable Honda Gas Engine with Oil-Alert™ Safety Shutdown
- Roll Cage Frame with Single Point Lifting Eye
- Gear-Type Hydraulic Pump (HT20G)
- Pressure Comp. Piston Pump (HT20GV)
- Variable Speed Control Lever
- Hydraulic Oil Cooler with Thermostatic Fan Control
- Quick - Disconnect Hose Couplings
- System Relief Valve
- Pressure Control Valve
- Tank Top Filler/ Strainer
- Liquid Filled Pressure Gauge
- Spin-On Return Filter W/ Indicator
- Fluid Level and Temperature Gauges

OPTIONS

- Other Flow and Pressure Combinations

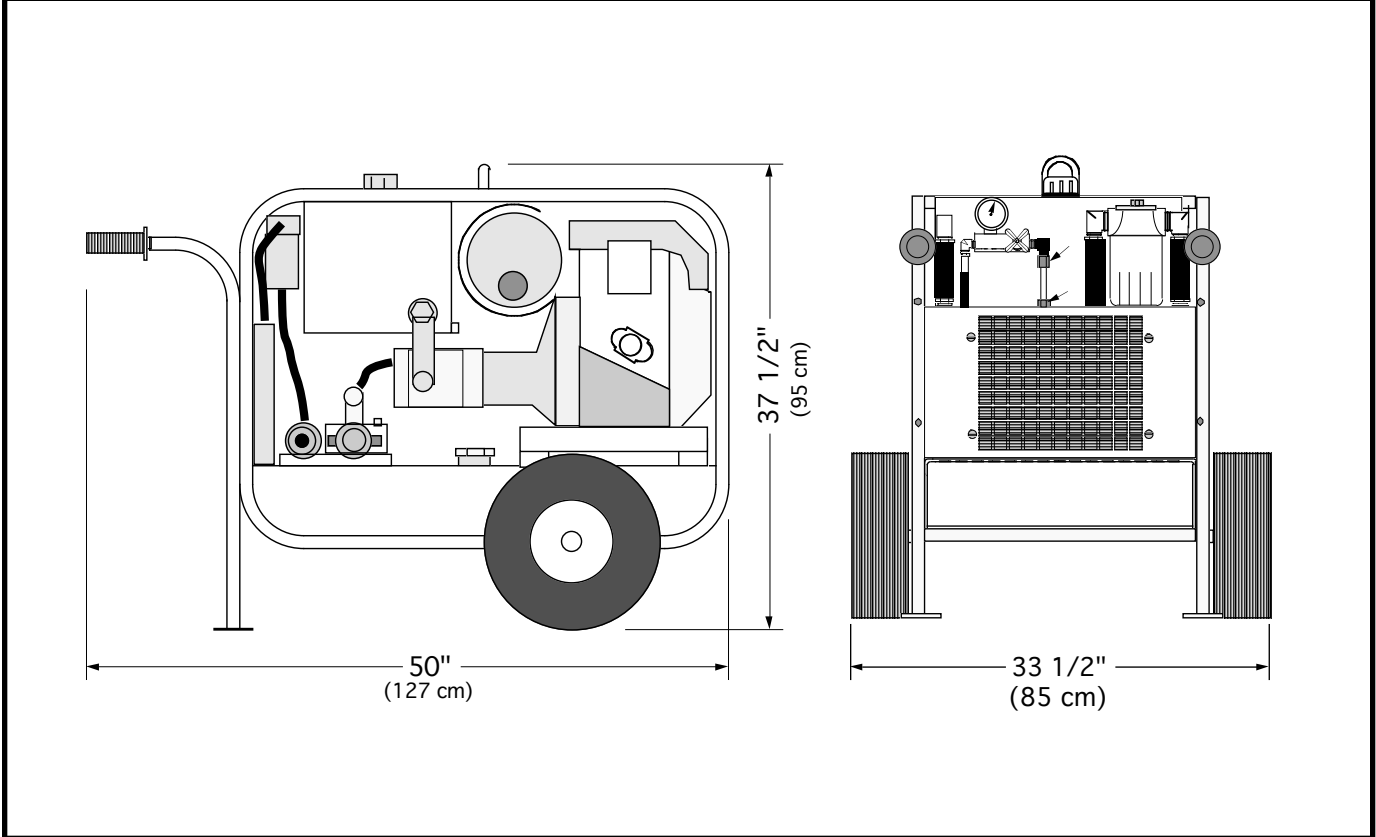
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Model HT20G / GV Overall Dimensions



SPECIFICATIONS

ENGINE:..... Honda GX670 Gasoline (Petrol)
HORSEPOWER:..... 24 @ 3500 RPM
HYDRAULIC OUTPUT:..... Variable, Max. 12 GPM (45 LPM)
OPERATING PRESSURE:..... Maximum 2500 PSI (170 Bar)
HOSE PORT SIZE:..... 3/4" NPT
HYDRAULIC OIL:..... SAE 10W or 20W Type AW
 also: Dexron ATF or Biodegradable Oil (Consult Factory)
OIL FILTRATION:..... 10 Micron (Standard)
OIL RESERVOIR CAPACITY:..... 8 Gallons (30 Liters)
FUEL TANK CAPACITY:..... 15 Gallons (57 Liters)
FUEL CONSUMPTION:..... Approx. 1.5 Gal/Hr (5.7 Liters/Hr)
DIMENSIONS:...H 37 1/2" (95 cm) x W 33 1/2" (85 cm) x L 50" (127 cm)
WEIGHT (Dry):..... (HT20G) 450 lbs. (204 kg)
 (HT20GV) 470 lbs. (213 kg)

* For Flows and Pressures Other Than Standard, Consult Factory

Since we are constantly working to improve our products, specifications are subject to change without notice.

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IMPORTANT SAFETY INFORMATION



SAFETY ALERT SYMBOL

This symbol is used to call your attention to hazards or unsafe practices which could result in an injury or property damage. The signal word, defined below, indicates the severity of the hazard. The message after the signal word provides information for preventing or avoiding the hazard.

⚠ DANGER

Immediate hazards which, if not avoided, **WILL** result in severe injury or death.

⚠ WARNING

Hazards which, if not avoided, **COULD** result in severe injury or death.

⚠ CAUTION

Hazards or unsafe practices which, if not avoided, **MAY** result in injury or property damage.

⚠ WARNING

Before operating this tool, see the safety information and operating instructions in the Operation Manual.

⚠ WARNING

Do not operate the pump if the impeller blades are exposed. After assembly, install the inlet screen before operating the pump.

Failure to observe this warning could result in severe injury or death.

⚠ WARNING

Do not inspect, adjust, or clean tool when it is connected to a power source. Accidental startup could result in serious injury.

⚠ WARNING



Skin injection hazard:

Oil under pressure easily punctures skin causing serious injury, gangrene or death. If you are injured by escaping oil, seek medical attention immediately.

- Do not use fingers or hands to check for leaks.
- Do not hold hose or couplers while operating the power source.
- Depressurize the hydraulic system before servicing.




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IMPORTANT SAFETY INFORMATION

	<p>⚠ WARNING</p> <p>Wear eye protection when operating or servicing this tool.</p> <p>Failure to wear eye protection could result in serious eye injury from flying debris or hydraulic oil.</p>
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<p>⚠ WARNING</p> <p>Do not exceed the maximum hydraulic flow, pressure relief or back pressure listed in the Specifications and Parts manual.</p> <p>Failure to observe this warning could result in severe injury or death.</p>

<p>⚠ WARNING</p> <p>Do not disconnect tool, hoses, or fittings while the power source is running or if the hydraulic fluid is hot. Hot hydraulic fluid could cause serious burns.</p>
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<p>⚠ CAUTION</p> <p>Hydraulic oil can cause skin irritation.</p> <ul style="list-style-type: none">• Handle the tool and hoses with care to prevent skin contact with hydraulic oil.• In case of accidental skin contact with hydraulic oil, wash the affected area immediately to remove the oil. <p>Failure to observe these precautions may result in injury.</p>
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<p>IMPORTANT</p> <p>Do not reverse hydraulic flow. Operation with hydraulic flow reversed can cause tool malfunction. Connect the supply (pressure) hose and return (tank) hose to the proper tool ports.</p>
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<p>IMPORTANT</p> <p>Procedure for disconnecting hydraulic hoses, fittings or components:</p> <ol style="list-style-type: none">1. Move the flow lever on the hydraulic power source to the OFF position.2. Stop the power source.3. Follow the sequence under Disconnecting Hoses to prevent pressure buildup. In case some pressure has built up, loosen hoses, fittings or components slowly.
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HYDRAULIC POWER UNIT SAFETY PRECAUTIONS

Hydraulic Power Unit operators and maintenance personnel must always comply with the safety precautions given in this manual and on the stickers and tags attached to the power unit and hose. These safety precautions are given for your safety. Review them carefully before operating the pump 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 in this manual.

All Hydra-Tech hydraulic power units 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 and hoses before operation. 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, dangerous terrain conditions, and confined spaces.
- Establish a training program for all operators to ensure safe operations.
- Do not operate the power unit unless thoroughly trained or under the supervision of an instructor.
- Always wear safety equipment such as goggles, head protection, hearing protection, and safety shoes at all times when operating the power unit.
- Do not inspect or clean the hydraulic pump or hydraulic tool while the hydraulic power source is engaged. Disconnect both hydraulic hoses before attempting to clean or inspect the pump or hydraulic tool. Accidental engagement of the power unit can cause serious injury.
- Always disconnect the battery cable before attempting any repair.
- Do not operate this power unit without first reading and understanding the Operating Instructions.
- Never operate the power unit near energized transmission lines. Know the location of buried or covered services before starting work.
- Do not wear loose fitting clothing when operating the power unit. Loose fitting clothing may get entangled with the power unit and cause serious injury.
- Supply hoses must have a minimum working pressure rating of 3000 psi/204 bar.
- The hydraulic circuit control valve must be in the "OFF" position when coupling or uncoupling the hydraulic hoses. Wipe all couplers clean before connecting. Failure to do so may result in damage to the quick couplers and cause overheating. Use only lint-free cloths.
- Be sure all hose connections are tight.
- Do not operate the power unit at oil temperatures above 140° F/60° C. Operation at higher oil temperatures can cause operator discomfort and may cause damage to the equipment.
- Do not operate a damaged, improperly adjusted, or incompletely assembled power unit.
- To avoid personal injury or equipment damage, all power unit repair, maintenance and service must only be performed by authorized and properly trained personnel.
- Do not exceed the rated limits of the power unit or use the power unit for applications beyond its design capacity.
- Always keep critical power unit markings, such as labels and warning stickers legible.
- Always replace parts with replacement parts recommended by Hydra-Tech Pumps.
- Check fastener tightness often and before each daily use.
- **NEVER** put your hands or any other body part into the area near the cooling fan and belts while the power unit is running.
- Only lift the power unit by the lifting bracket and be sure the lifting equipment is suitable for the rated weight of the power unit. Do not lift with hydraulic hoses attached.
- Do not touch the engine, exhaust piping, or muffler – these surfaces are hot and will burn you. Keep any flammable material away from these surfaces.
- When moving power units mounted on trailers always insure that the towing vehicle is suitable for the weight of the power unit. Always insure that the safety chains are securely fastened to the tow vehicle and the trailer lights are operating properly.
- **DO NOT OPERATE THIS POWER UNIT NEAR FLAMMABLE LIQUIDS OR FLAMMABLE VAPORS OR GASES.**

Operating Instructions

HT20G Power Unit

BEFORE STARTING:

1. Fill oil reservoir to the top of the sight glass with a good grade of hydraulic oil with anti-wear additives. Use oils recommended below (minimum viscosity of 150SSU @ 100 Deg. F. (38 Deg. C.) or their equivalent:

Pennzoil	Hydraulic Oil No. 46
Texaco	Rando HDAZ
Shell	Tellas Hydraulic Oils
Mobil	D.T.E. 20 Series
Chevron	EP Hydraulic Oils
Exxon	Univis N Hydraulic Oils

Note: When using this equipment in environmentally sensitive areas we recommend using biodegradable oil such as Chevron Clarity, Terresolve EnviroLogic 146, or Exxon Univis Bio 40.

Note: When using this equipment in high temperature environments we recommend using Dexron Automatic Transmission fluid.

2. Fill fuel tank with clean gasoline as per engine manufacturers recommendations. (see Engine Manual)
3. Check engine oil (See engine instruction manual for correct oil for each climate).
4. Connect hydraulic hoses from power unit to equipment to be powered. **Be sure to completely connect the hydraulic couplings or damage will result to the hydraulic system.** Pressure and return hoses cannot be connected incorrectly because the couplings are incompatible. **Always be sure the connections are clean before assembling.**
5. Turn the hydraulic control valve (#49) counter-clockwise until the handle rotates freely. This de-energizes the hydraulic system to permit easy starting of engine and also allows you to turn off the hydraulic system without stopping the engine.

STARTING PROCEDURE:

1. Start engine at low speed and allow several minutes for warm up. (See engine manual)
2. Turn the hydraulic control valve (#49) clockwise until it stops. This energizes the hydraulic system. Check operation and/or rotation of device being powered. If correct, increase engine speed to achieve desired output.

NOTE: If maximum performance is not required, it is best to slow engine speed to meet the needed flow. This saves fuel and extends the life of the equipment.

STOPPING PROCEDURE:

1. To stop the power unit, decrease engine speed and turn the hydraulic control valve (#49) counter-clockwise to de-energize the hydraulic system.
2. To stop the engine turn the key-switch to the off position.
3. After initially starting the system, check the hydraulic oil level in the reservoir. Filling the hoses initially will cause the level to drop slightly.

Maintenance Instructions

HT20G Power Unit

ENGINE: (#4)

Maintain engine as per "Honda Instruction Booklet" provided with each unit.

HYDRAULIC PUMP: (#5)

1. The hydraulic pump is a Rexroth-Bosch gear pump capable of giving a long and dependable service life as long as the hydraulic oil is kept clean and the filters are changed at regular intervals.
2. To check the hydraulic output, energize the system with the hydraulic pump high-pressure port plugged (if equipped with valve quick disconnect couplers, simply disconnect the hydraulic hose) and read the pressure gauge supplied on the unit. This reading should always be above 1800 PSI at full throttle (the reading will normally be between 2000-2500 PSI).
3. If hydraulic pump failure is suspected, be sure to check operation of the relief valve. (See Relief Valve section below). If pump is still not functioning properly, replace pump or have it serviced by a Rexroth-Bosch authorized service center.

RESERVOIR/SUCTION STRAINER: (#24,25)

1. Since this unit only contains 8 gallons of hydraulic oil, it is recommended the oil be changed every 500 hours of operation. When changing the oil the suction strainer should be cleaned.
2. The suction strainer is mounted inside the reservoir and may be removed for cleaning by draining the oil from the reservoir. Strainer may then be removed and cleaned.
3. Clean the strainer with solvent or kerosene and dry with compressed air, then re-install, making sure dirt does not enter the reservoir. Make certain the pipe connection is tight.

SIGHT GLASS: (#30)

1. Always maintain the hydraulic oil level to the top of the sight glass.

Be sure the operating temperature never exceeds 140 degrees F (60 degrees C). **If the temperature becomes excessive**, shut down the system and let cool. Check for insufficient oil in reservoir, kinked hydraulic hoses, inadequate ventilation of the reservoir or oil cooler, clogged return line filter, or blocked hydraulic circuit (**e.g. submersible pump impeller or tool jammed or hydraulic hose couplings improperly connected**) causing excess pressure to open the relief valve and dump hot oil into the reservoir.

RETURN FILTER: (#51)

1. The return filter is located on the rear of the reservoir alongside the high-pressure outlet. The filter element should be changed every 250 hours of operation.
2. Use only the exact replacement filter elements with 10-micron filtration. The element is the "spin-on" type.
3. Filter elements must be replaced when changing the oil in the reservoir.
4. If the hydraulic oil becomes emulsified or visibly dirty, change oil and filter regardless of the service interval.
5. As always, keep dirt from entering the hydraulic system.

RELIEF VALVE: (#11)

1. The relief valve is mounted on a bracket on top of the fuel tank and is of the "remote vent" type.
2. The valve is preset at 2000-2500 PSI. To prevent damage to any hydraulic components in the system, do not set valve above 2500 PSI.
3. This valve is energized by the control valve and re-circulates oil back to the reservoir when it is de-energized or subjected to pressures over the relief valve setting.
4. If a faulty relief valve is suspected, first, check pressure gauge reading at full throttle with control valve energized and high pressure ports blocked off. On models equipped with valved quick disconnect couplers, simply disconnect the high pressure hose. If reading is below 1800 PSI, remove

cartridge (#11A) from relief valve body and inspect for damage or debris caught between valve seats inside cartridge.

5. If debris is found, remove it and re-install cartridge in valve body and check pressure reading again. If any visual damage is present (e.g. cracks, excessive wear, etc.), replace cartridge. Valve body itself should not need replacement unless visible damage such as cracks or damage threads occur.
6. To set relief valve, loosen locking nut on the adjusting screw end of cartridge, back off adjusting screw with hex wrench several turns. Energize system the same as in testing procedure. Slowly turn adjusting screw until pressure reading reaches 2000 - 2500 PSI (Depending on factory settings). Tighten locking nut and test again.

HYDRAULIC CONTROL VALVE (H.C. Valve): (#49)

1. The hydraulic control valve is mounted on the rear of the reservoir alongside the pressure gauge.
2. The function of the control valve is to energize the relief valve by means of closing off the vent port and, in turn, creating pressure in the hydraulic system.
3. The control valve should be almost maintenance free.
4. When checking the relief valve, check the control valve and tubing for leaks. Replace valve, tubing or tube fitting at the first sign of leakage.

FILLER CAP AND STRAINER: (#23)

1. The filler cap is mounted on top of the reservoir and is used to vent air in and out of the reservoir.
2. It is equipped with a strainer to prevent debris from entering the reservoir when filling. Do not attempt to defeat the purpose of this strainer by poking holes in it or removing it.

HYDRAULIC OIL COOLER: (#53)

1. The hydraulic oil cooler is mounted on the end of the chassis. This unit has a 30PSI check valve built-in to allow cold oil to by-pass the cooler to reduce back-pressure when the power unit is starting up cold. The oil is cooled by the flow of air pulled through it by the electric fan.
2. Be sure the cooler fins are kept clean at all times.

COOLER FAN: (#37)

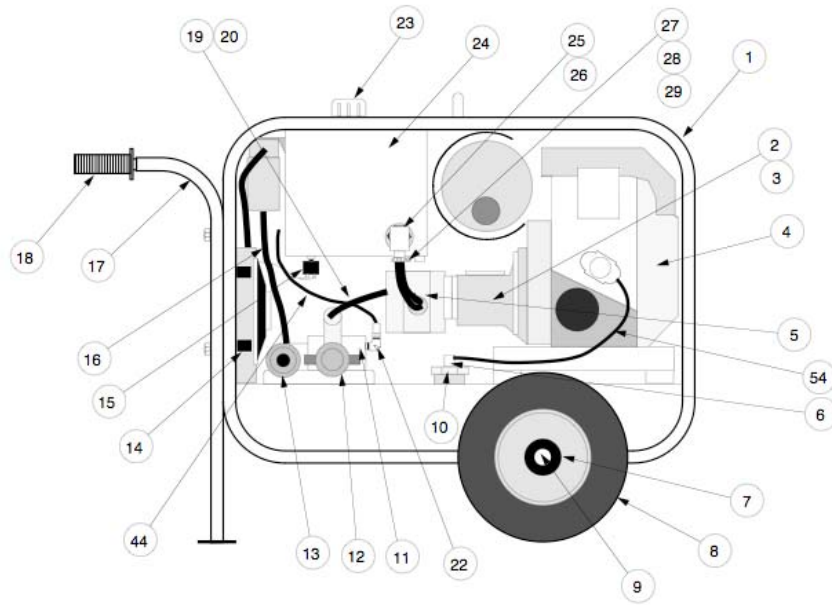
1. This unit uses a 12 volt DC fan that is activated by a thermal switch that energizes the fan when the hydraulic oil temperature reaches 120° F. The fan is mounted up against the oil cooler. No maintenance is required on this unit. If fan fails to operate, check electrical connections and by-pass thermal switch by jumping the wires and test. If fan still fails to operate it must be replaced.

THERMAL SWITCH: (#15)

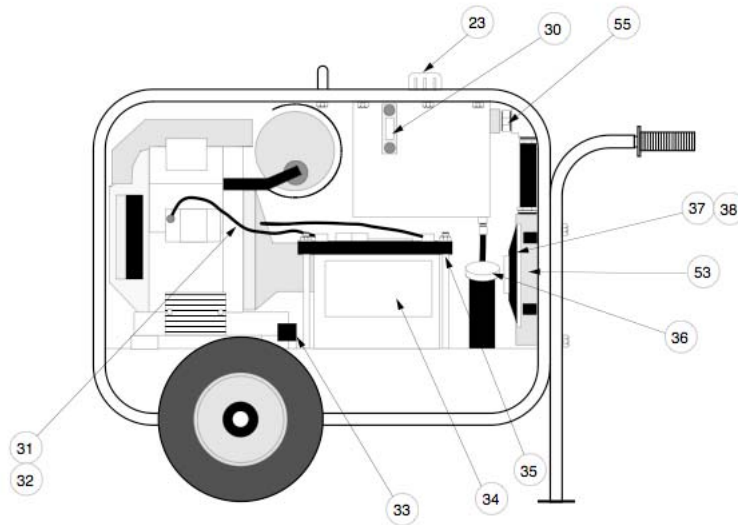
1. The thermal switch is located on the side or bottom of the reservoir near the suction strainer. The function of this device is to activate the cooler fan when the hydraulic oil temp. reaches 120° F. No maintenance is required on this unit. To test this device, disconnect wires from the switch and test with a continuity tester. The circuit should be open at temperatures below 120° F. and closed at temperatures above 120° F. If switch fails to operate, check electrical connections and by-pass thermal switch by jumping the wires and test. If fan operates without the switch the switch must be replaced.

HYDRAULIC HOSE COUPLERS: (#12,13)

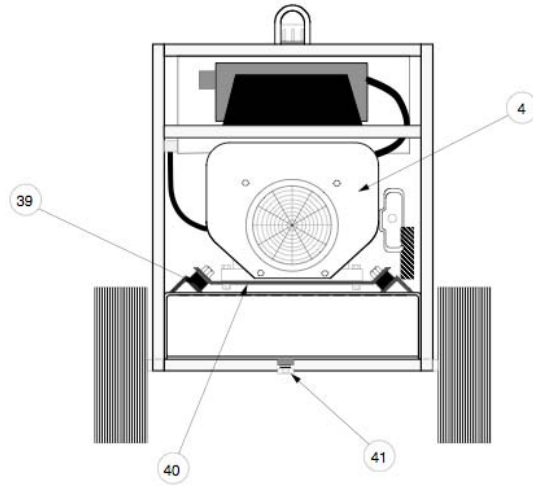
1. Be sure the quick-disconnect hose couplings are kept clean at all times. Cleaning can be done with kerosene or solvent and brush or compressed air.



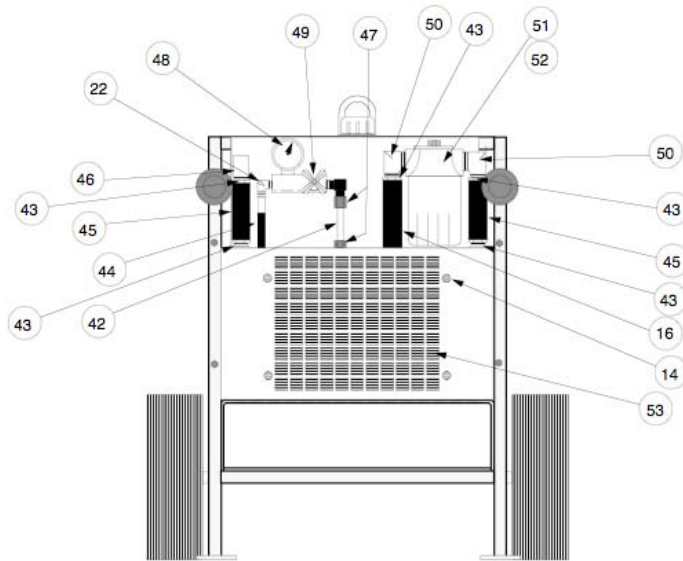
**RIGHT SIDE VIEW
(PARTS)**



**LEFT SIDE VIEW
(PARTS)**



**HT20G FRONT VIEW
(PARTS)**



**REAR VIEW
(Parts)**

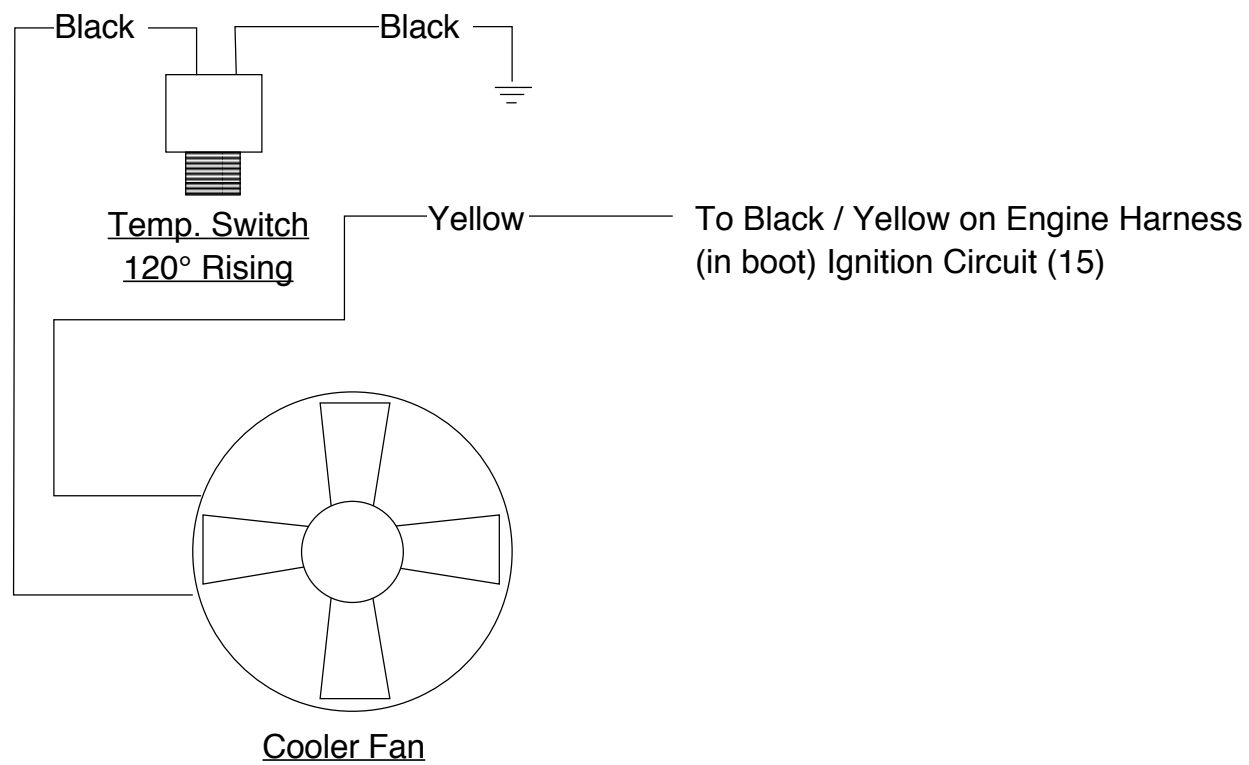
PARTS LIST



HT20G Power Unit

(When ordering parts mention serial # of unit)

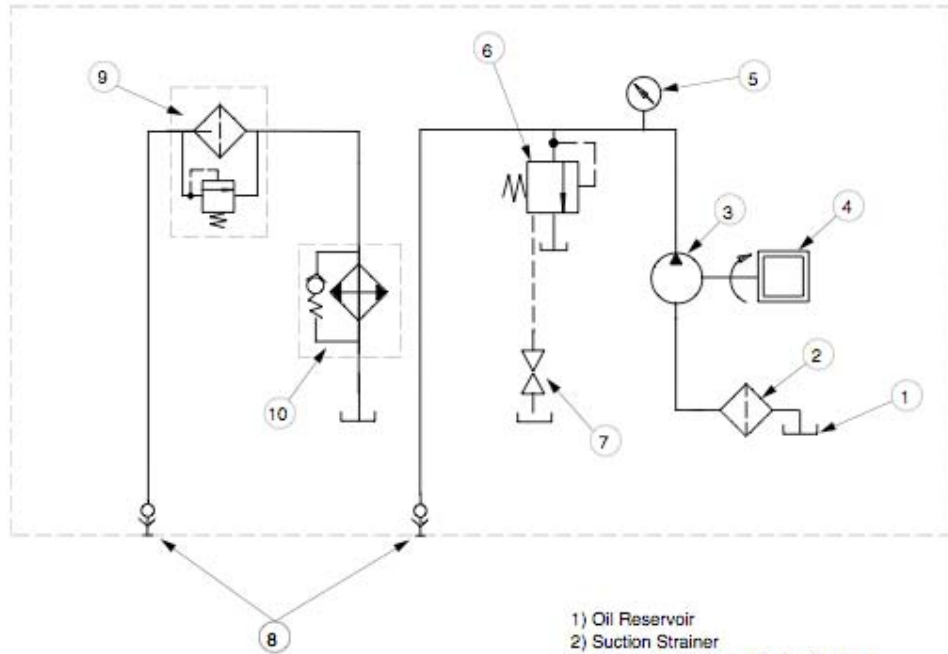
Item	Part #	Description
1.	6901600	Frame/Fuel Tank Assy.
2.	6902796	Pump Drive Adaptor
3.	6901610A	Shaft Coupling
4.	6901611A	Engine-Honda GX670
5.	6901795	Hydraulic Pump
6.	6908212	Fuel Pick-up Tube
7.	0509345	Axle Collar (6 Req.)
8.	6901612	Wheel & Tire Assy. (2 Req.)
9.	6901613	Axle
10.	6901901	Fuel Gauge Assy.
11.	6901524	Relief Valve Assy.
	6901734	Relief Valve (Cartridge Only)
	6908286	Relief Valve (Body Only)
12.	0802174	Q.D. Coupling (Female)
13.	0802175	Q.D. Coupling (Male)
14.	6908101	Cooler Mounting Kit (2 Req.)
15.	0601614	Fan Temperature Switch
16.	6901615	Hose Assy. (Relief Valve to Filter)
17.	6901603	Handle (2 Req.)
18.	0501219	Handle Grip
19.	6901616	High Pressure Hose Assy
20.	6901617	Pump H.P. Fitting
21.	-----	N/A
22.	0201621	1/4" JIC Elbow (2 Req.)
23.	0401526	Filler/Strainer Assy
24.	6901601	Reservoir
25.	6901619	Suction Strainer
26.	6901620	Suction Elbow
27.	0101772	Hose Camp (2 Req.)
28.	6901622	Suction Hose
29.	6901623	Pump Suction Fitting
30.	0409371	Sight Level Gauge

Item	Part #	Description
31.	0609388	Battery Cable (Pos.)
32.	0601179	Battery Cable (Neg.)
33.	0601624	Fan Relay (If Equipped)
34.	0609346	Battery
35.	6909390	Battery Hold Down Assy.
36.	6908061	Fuel Filler Cap
37.	6901625	Cooler Fan Assy
38.	6901607	Fan Bracket (2 Req.)
39.	0501210	Vibration Isolator (4 Req.)
40.	6901608	Engine Mounting Plate
41.	0201626	Drain Plug
42.	6901627	Vent Tube
43.	0901628	Brass Hose Fitting (6 Req.)
44.	6901629	Hose Assy. (Control Valve)
45.	6901630	Cooler Hose Assy. (2 Req.)
46.	0301631	Brass Elbow
47.	0201522	90° Tube fitting (2 Req.)
48.	0408030	Pressure Gauge
49.	6901521	Control Valve
50.	0301632	Brass Street Elbow (2 Req.)
51.	0401713	Hydraulic Filter Assy.
52.	0409366	Filter Cartridge Only
53.	6901824	Oil Cooler
54.	6901633	Fuel Suction Hose
55.	0201708	Hex Nipple (4 Req.)
56.	0201710	H.P. Tee
57.	0203502	H.P. Street Elbow
58.	0301634	L.P. Tee
59.	0301635	L.P. Nipple 2"
60.	0301636	L.P. Elbow
61.	0301637	L.P. Nipple 2-1/2"



Cooler Fan Wiring (HT20G/GV)	
 HYDRA-TECH PUMPS	
3/25/08	K.R. 
Scale: NTS	Drawing# 20G-CFW

HYDRAULIC SCHEMATIC HT20G Power Unit



- 1) Oil Reservoir
- 2) Suction Strainer
- 3) Fixed Displacement Hydraulic Pump
- 4) Gas Engine
- 5) Pressure Gauge
- 6) Pilot Controlled System Relief Valve
- 7) Hydraulic Control Valve (On/Off)
- 8) Valved Quick Disconnect Coupling
- 9) Return Filter w/ By-Pass Valve
- 10) Hydraulic Oil Cooler w/ Cold Oil By-pass Valve



HONDA ENGINES

Distributor's Limited Warranty

Honda General Purpose Engines

This warranty is limited to Honda general purpose engines distributed by American Honda Motor Co., Inc., Power Equipment Division, 4900 Marconi Drive, Alpharetta, Georgia 30005. The following warranty applies to engines purchased at retail or placed into rental service on or after January 1, 2009.

PRODUCTS COVERED BY THIS WARRANTY:	LENGTH OF WARRANTY: (FROM DATE OF ORIGINAL PURCHASE)	
PRODUCT	PRIVATE RESIDENTIAL ⁽³⁾	COMMERCIAL/RENTAL/INSTITUTIONAL
GX & GXV Series Engines (except models listed below)	36 months	36 months ⁽¹⁾
GXV160, GXV140	24 months	24 months
GX22, GX25, GX31, GX35, GXH50, GXV50, GXV57, & GS & GSV Series	24 months	12 months ⁽²⁾
GC & GCV Series Engines	24 months	3 months ⁽²⁾

(1) Honda GX and GXV general purpose engines installed in concession-type vehicles are covered by this warranty for a period of 12 months from the date of original retail purchase.

(2) Honda GC/GS and GCV/GSV general purpose engines are not covered by this warranty when installed on concession type vehicles.

(3) Private Residential: Used in maintaining owner's primary and/or secondary residence. Any other use, including but not limited to informal "for hire" use, is considered commercial/rental/institutional use.

To Qualify for this Warranty:

The Honda general purpose engine must be purchased from a Honda general purpose engine dealer or distributor authorized to sell that product in the United States, Puerto Rico, or the U.S. Virgin Islands. This limited warranty applies to the first retail purchaser and each subsequent owner during the applicable warranty time period.

What American Honda Will Repair or Replace Under Warranty:

American Honda will repair or replace, at its option, any part that is proven to be defective in material or workmanship under normal use during the applicable warranty time period. Warranty repairs and replacements will be made without charge for parts or labor. Anything replaced under warranty becomes the property of American Honda Motor Company, Inc. All parts replaced under warranty will be considered as part of the original product and any warranty on those parts will expire coincident with the original product warranty.

To Obtain Warranty Service:

You must take your Honda general purpose engine, or the equipment in which it is installed, together with proof of original retail purchase date, at your expense, to a Honda engine dealer or distributor authorized to sell that product in the United States, Puerto Rico, or the U.S. Virgin Islands, during their normal business hours. Many Honda engine dealers and distributors are listed in the yellow pages of the telephone directory under gasoline engines, lawn & garden equipment & supplies, etc.

If you are unable to obtain warranty service, or are dissatisfied with the warranty service you receive, take the following steps: First, contact the owner of the dealership or distributor involved; normally this should resolve the problem. However, if you should require further assistance, write or call the Power Equipment Customer Relations Department of American Honda Motor Co., Inc.

American Honda Motor Co., Inc.
Power Equipment Customer Relations Department
4900 Marconi Drive
Alpharetta, Georgia 30005-8847
Telephone: (770) 497-6400

Exclusions:

This warranty does not extend to parts affected or damaged by the product in which the engine is installed, or by collision, misuse, neglect, parts worn beyond service limits due to normal wear/normal service life, parts affected or damaged by the conversion to or use of fuel other than the fuel(s) which the engine is originally manufactured to use, poor operation related to fuel contamination or fuel quality, parts damaged by fuel contamination, the incorporation of, or use of, unsuitable attachments or parts, the unauthorized alteration of any part or any causes other than defects in material or workmanship of the engine. Use of the Honda general purpose engine for racing or competition will void this warranty. Any engine that is part of a product that has ever been declared a total loss or sold for salvage by a financial institution or insurer.

Disclaimer of Consequential Damage and Limitation of Implied Warranties:

American Honda disclaims any responsibility for loss of time or use of the engine, or the equipment in which the engine is installed, transportation, commercial loss, or any other incidental or consequential damage. Any implied warranties are limited to the duration of this written limited warranty. Some states do not allow limitations on how long an implied warranty lasts and/or do not allow the exclusion or limitation of incidental or consequential damages, so the above exclusions and limitations may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state.

American Honda Motor Co., Inc.
January 2009

HYDRA-TECH PUMPS LIMITED WARRANTY

Hydra-Tech Pumps warrants to the original purchaser only that this product is free from defects in material and workmanship, and agrees to repair or replace, at Hydra-Tech's option, any part found to be defective within **12 months from purchase or 500 hours of use**, whichever ever comes first, from the date of purchase. This warranty is not transferable. This warranty **does not** cover damage as a result of normal wear, incorrect operation, incorrect handling, abuse, or lack of proper maintenance. Any modification or alteration of this equipment will void the warranty. Hydra-Tech **does not** warranty engines – warranty claims on engines must be handled through your local engine distributor. Any claim for warranty damage must be accompanied by digital photos of the defective part or parts, the serial number from the equipment, and a detailed description of the defect and possible causes. All warranty claims should be emailed to htpump@hydra-tech.com or mailed to Hydra-Tech Pumps, 167 Stock Street, Nesquehoning, Pennsylvania 18240 USA.

Pumps and/or Power Units judged by Hydra-Tech Pumps to have been defective in workmanship or materials when shipped from the factory and within the warranty period will be either repaired or replaced at Hydra-Tech's option free of charge including motor freight both ways within the continental United States.

THIS WARRANTY DOES NOT COVER DAMAGES RESULTING FROM CARELESS HANDLING, IMPROPER INSTALLATION, LACK OF SERVICE, INCORRECT POWER OR FAULTY APPLICATION SUCH AS PUMPING ABRASIVES, CORROSIVES, OR FLUIDS IN EXCESS OF 140 DEGREES F.

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