OPERATION AND PARTS MANUAL



MODEL SDP-2/SDP-3 DIAPHRAGM PUMPS

Revision #2 (11/16/03)



STOW CONSTRUCTION EQUIPMENT

A DIVISION OF MULTIQUIP INC. POST OFFICE BOX 6254 CARSON, CA 90749 310-537-3700 • 888-252-STOW [888-252-7869] FAX: 310-537-1986 • FAX: 800-556-1986 E-MAIL: stow@multiquip.com • WWW: stowmfg.com

PARTS DEPARTMENT:

800-427-1244 FAX: 800-672-7877 **SERVICE DEPARTMENT/TECHNICAL ASSISTANCE:** 800-478-1244 FAX:310-631-5032



HERE'S HOW TO GET HELP

PLEASE HAVE THE MODEL AND SERIAL NUMBER *ON-HAND* WHEN CALLING

PARTS DEPARTMENT

800-427-1244FAX: 800-672-7877310-537-3700FAX: 310-637-3284

SERVICE DEPARTMENT

800-478-1244 FAX: 310-537-4259 310-537-3700

TECHNICAL ASSISTANCE

800-478-1244 FAX: 310-631-5032

WARRANTY DEPARTMENT

800-421-1244, EXT. 279 FAX: 310-537-1173 310-537-3700, EXT. 279

SALES DEPARTMENT

310-661-4242 FAX: 310-604-9237 877-289-7869 (877-BUY-STOW)

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As a continuing effort to update our parts book, contact the STOW literature department for the latest revision of your "Operation and Parts Manual"



Specification and part number are subject to change without notice.

PARTS ORDERING PROCEDURES

When ordering parts, please supply the following information:

- Dealer account number
- Dealer name and address
- Shipping address (if different than billing address)
- Return fax number
- Applicable model number
- Quantity, part number and description of each part
- **G** Specify preferred method of shipment:
 - ✓ FedEx or UPS Ground
 - ✓ FedEx or UPS Second Day or Third Day
 - ✓ FedEx or UPS Next Day
 - Federal Express Priority One
 - 🗸 DHL
 - Truck

Here's how to get help...

Please have the model and serial number on hand when calling.

Parts Department	
800-427-1244	Fax: 800-672-7877
310-537-3700	Fax:310-637-3284
Service Department	
800-478-1244	Fax: 310-537-4259
310-537-3700	
Technical Assistance	
800-478-1244	Fax: 310-631-5032
Warranty Department	
800-421-1244, Ext. 279	Fax: 310-537-1173
310-537-3700, Ext. 279	
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310-661-4242 Fax: 310-604-9237 877-289-7869 (877-BUY-STOW)

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STOW STOW CONSTRUCTION EQUIPMENT

POST OFFICE BOX 6254 **CARSON, CA 90749**

Place Your Parts Order Via Web or Fax For Even More Savings!

Extra Discounts!

Note: Unless otherwise indicated by customer, all

orders are treated as "Standard Orders", and will ship within 24 hours. We will make every effort to

ship "Air Shipments" the same day that the order is

received, if prior to 2PM west coast time. "Stock

Orders" must be so noted on fax or web forms.

All parts orders which include complete part numbers and are received by our automated web parts order system, or by fax qualify for the following extra discounts:

Ordered via	Standard orders	Stock orders (\$750 list and above)
Fax	3%	10%
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Special freight allowances when you order 10 or more line items via Web or Fax!**

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NOTE: DISCOUNTS ARE SUBJECT TO CHANGE

Direct TOLL-FREE access to our Parts Department:

Toll-free nationwide - 800-427-1244

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STOW SDP-2/SDP-3 — SPECIFICATIONS (PUMP/ENGINE)

Table 1. Specifications (Pump)				
	Туре	SDP-2 Diaphragm Pump	SDP-3 Diaphragm Pump	
	Suction & Discharge Size	2.00 in. (50.8 mm.)	3.00 in. (76.2 mm.)	
Pump	Maximum Pumping Capacity	3,000 gallons/hour (11,340 liters/hour)	5,100 gallons/hour (19,320 liters/hour)	
	Max. Soilds Diameter	1 in. (25.4 mm)	2 in (50.8 mm)	
	Max Lift	26 ft. (7.92 meters)	26 ft. (7.92 meters)	
	Max. Head	51 ft. (15.54 meters)	51 ft. (15.54 meters)	
Dry Net Weight		140 lbs. (63 Kg.)	160 lbs. (72 Kg.)	

Table 2. Specifications (Engine)			
	Model	HONDA GX120K1QX2	
	Туре	Air-cooled 4 stroke, Single Cylinder, OHV, Horizontal Shaft Gasoline Engine	
	Bore X Stroke	2.4 in. x 1.7 in. (60 mm x 42 mm)	
	Displacement	119 cc (7.2 cu-in)	
Engine	Max Output	4.0 H.P./3600 R.P.M.	
	Fuel Tank Capacity	0.66 US gal. (2.5 liters)	
	Fuel	Unleaded Automobile Gasoline	
	Lube Oil Capacity	.60 liters (0.63 qts)	
	Speed Control Method	Centrifugal Fly-weight Type	
	Starting Method	Recoil Start	
Dimension (L x W x H)		11.7 x 13.4 x 12.5 in. (297 x 341 x 318 mm)	
Dry Net Weight		28.7 lbs (13 Kg.)	

STOW SDP-2/SDP-3 — DIMENSIONS (PUMP)





Figure 1. STOW SDP-2/SDP-3 Pump Dimensions

Table 3. Dimensions					
MODEL	A	B	C	D	E
	LENGTH	HEIGHT	WIDTH	DISCHARGE	SUCTION
SDP-2	39.87 in.	24.75 in.	24.75 in.	4.93 in.	4.25 in.
	(101.1 cm.)	(62.86 cm.)	(62.86 cm.)	(12.52 cm.)	(10.80 cm.)
SDP-3	39.87 in.	23.68 in.	29.25 in.	5.25 in.	5.43 in.
	(101.1 cm.)	(60.14 cm.)	(74.30 cm.)	(13.33 cm.)	(13.80 cm.)

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STOW SDP-2/SDP-3 — SAFETY MESSAGE ALERT SYMBOLS

FOR YOUR SAFETY AND THE SAFETY OF <u>OTHERS</u>!

Safety precautions should be followed at all times when operating this equipment. Failure to read and understand the Safety Messages and Operating Instructions could result in injury to yourself and others.



This Owner's Manual has been developed to provide complete instructions for the safe and efficient operation of the **STOW Model SDP-2** and **SDP-3 Diaphragm Pumps.** Refer to the engine manufacturers instructions for data relative to its safe operation.

Before using these pumps, ensure that the operating individual has read and understands all instructions in this manual.

SAFETY MESSAGE ALERT SYMBOLS

The three (3) Safety Messages shown below will inform you about potential hazards that could injure you or others. The Safety Messages specifically address the level of exposure to the operator, and are preceded by one of three words: **DANGER**, **WARNING**, or **CAUTION**.



Lethal Exhaust Gases



Engine exhaust gases contain poisonous carbon monoxide. This gas is colorless and odorless, and can cause death if inhaled. **NEVER** operate this equipment in a confined area or enclosed structure that does not provide ample free flow air.

Explosive Fuel



GASOLINE is extremely flammable, and its vapors can cause an explosion if ignited. **DO NOT** start the engine near spilled fuel or combustible fluids. **DO NOT** fill the fuel tank while the engine is running or hot. **DO NOT** overfill tank, since spilled fuel could ignite if it comes into contact with hot engine parts or sparks from the ignition system. Store fuel in approved containers, in well-ventilated areas and away from sparks and flames. **NEVER**



DANGER: You **WILL** be **KILLED** or SERIOUSLY injured if you do not follow



WARNING: You **CAN** be **KILLED** or SERIOUSLY injured if you do not follow directions.



CAUTION: You **CAN** be injured if you do not follow directions.

Potential hazards associated with the STOW SDP-2/SDP-3 diaphragm pumps operation will be referenced with Hazard Symbols which appear throughout this manual, and will be referenced in conjunction with Safety Message Alert Symbols.

Burn Hazards



Engine components can generate extreme heat. To prevent burns, **DO NOT** touch these areas while the engine is running or immediately after operations. Never operate the engine with heat shields or heat guards removed.

Rotating Parts



NEVER operate equipment with covers, or guards removed. Keep fingers, hands, hair and clothing away from all moving parts to prevent injury.

STOW SDP-2/SDP-3 — SAFETY MESSAGE ALERT SYMBOLS



Accidental Starting



ALWAYS place the engine ON/OFF switch in the **OFF** position when the pump is not in use.

Respiratory Hazard

Equipment Damage Messages

Other important messages are provided throughout this manual to help prevent damage to your pump, other property, or the



ALWAYS wear approved respiratory protection.

Sight and Hearing hazard



ALWAYS wear approved eye and hearing protection.

WARNING



To avoid injuries and damage to the equipment, *ALWAYS* read and understand contents of operation manual before operating equipment.





surrounding environment.

This pump, other property, or the surrounding environment could be damaged if you do not follow instructions.

STOW SDP-2/SDP-3 — RULES FOR SAFE OPERATION

DANGER:



Failure to follow instructions in this manual may lead to serious injury or even death! This equipment is to be operated by trained and qualified personnel only! This equipment is for industrial use only.

The following safety guidelines should always be used when operating the **Diaphragm Pump**:

GENERAL SAFETY

DO NOT operate or service this equipment before reading this entire manual.



- This equipment should not be operated by persons under 18 years of age.
- NEVER operate this equipment without proper protective clothing, shatterproof glasses, steeltoed boots and other protective devices required by the job.
- NEVER operate this equipment when not feeling well due to fatigue, illness or taking medicine.
- **NEVER** operate this equipment under the influence or drugs or alcohol.
- Whenever necessary, replace nameplate, operation and safety decals when they become difficult read.
- ALWAYS check the machine for loosened threads or bolts before starting.
- ALWAYS wear proper respiratory (mask) hearing and eye protection equipment when operating the pump.



■ NEVER touch the hot exhaust manifold, muffler or cylinder. Allow these parts to



- High Temperatures Allow the engine to cool before adding fuel or performing service and maintenance functions. Contact with hot components can cause serious burns.
- The engine of this pump requires an adequate free flow of cooling air. NEVER! operate the pump in any enclosed or narrow area where free flow of the air is restricted. If the air



flow is restricted it will cause serious damage to the pump or engine and may cause injury to people and property. Remember the pump's engine gives off **DEADLY** gases.

- ALWAYS refuel in a well-ventilated area, away from sparks and open flames.
- ALWAYS use extreme caution when working with flammable liquids. When refueling, stop the engine and allow it to cool. DO NOT smoke around or near the machine. Fire or explosion could result from fuel vapors, or if fuel is spilled on a hot engine.
- NEVER operate the pump in an *explosive* atmosphere or near combustible materials. An explosion or fire could result causing severe bodily harm or ever death.



- Topping-off to filler port is dangerous, as it tends to spill fuel.
- Refer to the Engine Owner's Manual for engine technical questions or information.
- NEVER use accessories or attachments, which are not recommended by Multiquip for this equipment. Damage to the equipment and/or injury to user may result.
- Manufacturer does not assume responsibility for any accident due to equipment modifications.



STOW SDP-2/SDP-3 — RULES FOR SAFE OPERATION

- NEVER Run engine without air cleaner. Severe engine damage may occur.
- ALWAYS read, understand, and follow procedures in Operator's Manual before attempting to operate equipment.
- ALWAYS be sure the operator is familiar with proper safety precautions and operation techniques before using pump.
- ALWAYS store equipment properly when it is not being used. Equipment should be stored in a clean, dry location out of the reach of children.
- NEVER leave the pump unattended, turn off engine when unattended.
- Unauthorized equipment modifications will void all warranties.
- NEVER pump volatile, explosive, flammable or low flash point fluids. These fluids could ignite or explode.
- NEVER operate the pump in an *explosive* atmosphere.
- Before starting the pump, check that the clean-out cover is securely fasten.
- ALWAYS ensure pump is on level ground before use.
- Become familiar with the components of the pump before operating.
- ALWAYS replace any worn or damaged warning decals.
- NEVER pump corrosive chemicals or water containing toxic substances. These fluids could create serious health and environmental hazards. Contact local authorities for assistance.
- NEVER open the priming plug when pump is hot. Hot water inside could be pressurized much like the radiator of an automobile. Allow pump to cool to the touch before loosening plug.
- NEVER open the pump housing during operation or start the pump with the clean-out cover removed. The rotating impeller inside the pump can cut or sever objects caught in it.
- NEVER block or restrict flow from discharge hose. Remove kinks from discharge line before starting pump. Operation with a blocked discharge line can cause water inside pump to overheat.
- ALWAYS fill the pump casing with water before starting the engine. Failure to maintain water inside the pump housing will cause severe damage to the pump.
- In winter drain water from pump housing to prevent freezing.

- High Temperatures Always stop engine and allow the engine to cool before adding fuel, oil or performing service and maintenance functions. Contact with *hot* components can cause serious burns.
- NEVER disconnect any "emergency or safety devices". These devices are intended for operator safety. Disconnection of these devices can cause severe injury, bodily harm or even death! Disconnection of any of these devices will void all warranties.

Maintenance Safety

- NEVER lubricate components or attempt service on a running machine.
- ALWAYS allow the machine a proper amount of time to cool before servicing.
- Keep the machinery in proper running condition.
- Fix damage to the machine immediately and always replace broken parts, or missing decals.
- Dispose of hazardous waste properly. Examples of potentially hazardous waste are used motor oil, fuel and fuel filters.
- DO NOT use food or plastic containers to dispose of hazardous waste.
- DO NOT pour waste, oil or fuel directly onto the ground, down a drain or into any water source.

Emergencies

ALWAYS know the location of the nearest *fire extinguisher*.



ALWAYS know the location of the nearest first aid kit.



In emergencies *always* know the location of the nearest phone or *keep a phone on the job site*. Also know the phone numbers of the nearest *ambulance*, *doctor* and *fire department*. This information will be invaluable in the case of an emergency.





STOW SDP-2/SDP-3 — GENERAL INFORMATION

APPLICATION

The **STOW Model SDP-2** and **SDP-3 diaphragm** pumps are designed to be used for de-watering applications. The suction and discharge ports on the **SDP-2** use a 2-inch diameter opening, which allows the pump to pump at rate of approximately 3,000 gallons/hour (gph) or 11,340 liters/hour (lph). The suction and discharge ports on the **SDP-3** use a 3-inch diameter opening, which allows the pump to pump at rate of approximately 5,100 gallons/hour (gph) or 19,320 liters/hour (lph).

Diaphragm pumps use a positive displacement design rather than centrifugal force to move water through the casing. This means the pump will deliver a specific amount of flow per stroke, revolution or cycle. These pumps are commonly referred to as mud hogs, mud hens and mud suckers. Their names reflect their popularity for use in applications where shallow depths and slurry water render centrifugal pumps ineffective

Power Plant

These diaphragm pumps are powered by an 4.0 horsepower air cooled, 4-stroke, single cylinder *HONDA GX-120* gasoline engine that incorporates a low "*Oil Alert Feature*". The drive shaft of the engine is coupled to an offset connecting rod that is coupled to a flexible diaphragm. The connecting rod alternately raises (expands) and lowers (contracts) the diaphragm at a rate between 40 and 65 strokes per minute depending on engine speed.

Oil Alert Feature

In the event of *low oil* or *no oil*, the HONDA GX-120 engine has a built-in oil alarm engine shut-down feature. In the event the oil level is low the engine will automatically shut-down.

Suction Lift

This pump is intended to be used for dewatering applications and is capable of suction lifts up to 25 feet at sea level. For optimal suction lift performance keep the suction hose or line as short as possible. In general always place the pump as close to the water as possible.

Pump Support

The pump should always be placed on *solid stationary ground* in a level position.

NEVER place the pump on *soft soil*. The suction hose or pipe connection should always be checked for tightness and leaks. A small suction leak in the hose or fittings could prevent the pump from priming.

Elevation

Higher elevations will effect the performance of the pump. Due to less atmospheric pressure at higher altitudes, pumps **DO NOT** have the priming ability that they have at sea level. This is due to the "thinner air" or lack of oxygen at higher altitudes.

A general rule of thumb is that for every 1,000 feet of elevation above sea level a pump will lose one foot of priming ability.

For example, in Flagstaff, Arizona where the elevation is approximately 7,000 feet, the pump would have a suction lift of only 18 feet rather than the 25 feet at sea level. Table 3 shows suction lift at various elevations.

Table 3. Suction Lift at Various Elevations				
Altitude Feet (Meters)	Suction Lift in Feet (Meters)			
Sea Level	10.0 (3.048)	15.0 (4.572)	20.0 (6.096)	25.0 (7.620)
2,000 (610)	8.80 (2.680)	13.2 (4.023)	17.6 (5.364)	22.0 (6.705)
4,000 (1,219)	7.80 (2.377)	11.7 (3.566)	15.6 (4.754)	19.5 (5.943)
6,000 (1,829)	6.90 (2.103)	10.4 (3.169)	13.8 (4.206)	17.3 (5.273)
8,000 (2,438)	6.20 (1.889)	9.30 (2.834)	12.4 (3.779)	15.5 (4.724)
10,000 (3,048)	5.70 (1.737)	8.60 (2.621)	11.4 (3.474)	14.3 (4.358)

Table 4 shows percentage drops in performance as elevation increases.

Table 4. Performance Loss at VariousElevations			
Altitude Feet (Meters	Discharge Flow	Discharge Head	
Sea Level	100%	100%	
2,000 (610)	97%	95%	
4,000 (1,219)	95%	91%	
6,000 (1,829)	93%	87%	
8,000 (2,438)	91%	83%	
10,000 (3,048)	88%	78%	

STOW SDP-2/SDP-3 — PUMP COMPONENTS

Figure 2 shows a typical application using the **STOW** SDP-2 or SDP-3 diaphragm pump. Please note that this pump is intended for the removal of clean water and water containing some debris and solids. Maximum size of solids should not exceed 1 inch (25 mm) in diameter. **DO NOT** set strainer on bottom of water bed. Placing the strainer above the water bed will prevent the pump from drawing in excessive amounts of sand and foreign debris.



- 1. **Pump** The **STOW** Models SDP-2 and SDP-3 are 2-inch and 3-inch diaphragm pumps respectively and are used in general de-watering applications. Typical dewatering applications consist of cleaning out cesspools and septic tanks, draining slow seepage from small excavations, trenches and construction sites, or pumping out industrial waste.
- Fill Cap Prior to operation, the pump casing should be filled with water. Remove this cap to add water to the pump. After the initial prime, a sufficient amount of water will be retained in the casing so that the operator will not need to re-prime later.

If the casing is dry or has insufficient water, the pump will have difficulty in priming which could lead to premature mechanical seal wear thus causing damage to the pump.

- 3. **Discharge Port** Connect a either a 2-inch, and 3-inch discharge hose to this port depending on pump model.
- 4. Worm Clamp Used to secure the hose to the inlet and outlet ports on the pump. Use two clamps to secure the hose on the inlet side of the pump.
- Discharge Hose Connect a flexible rubber hose to the discharge port on the pump. Make sure that the hose lays flat and is not kinked. Use only recommended type discharge hose. Contact Multiquip parts department for ordering information.

6. Suction Port – Connect either a 2-inch or 3-inch inlet hose to this port depending on pump model. Use two worm clamps to secure the hose.

(8)

- 7. Suction Hose Connect a flexible rubber hose to the suction port on the pump. Make sure that the hose lays flat and is not kinked. Use only recommended type suction hose. Contact Multiquip parts department for ordering information
- Strainer Always attach a strainer to bottom side of the suction hose to prevent large objects and debris from entering the pump. Strainer should be positioned so that it will remain completely under water. Running the pump with the strainer above water for long periods can damage pump.
- 9. Transmission Oil Fill Plug Remove this plug to add SAE 80/90 EP gear oil to the transmission. Transmission oil capacity is 1-1/4 pints (550 ml.).
- 10. Connecting Rod Grease Access Hole Grease connecting rod bearing through this access hole. Grease connecting rod bearing every 25 hours of operation.

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STOW SDP-2/SDP-3 — BASIC ENGINE



Figure 3. Engine Controls and Components

INITIAL SERVICING

The engine (Figure 3) must be checked for proper lubrication and filled with fuel prior to operation. Refer to the manufacturers engine manual for instructions & details of operation and servicing. The engine shown above is a **HONDA** engine, operation for other types of engines may vary somewhat.

1. **Fuel Filler Cap** – Remove this cap to add unleaded gasoline to the fuel tank. Make sure cap is tightened securely. **DO NOT** over fill.



DANGER



cool down. In the event of a fuel spill, **DO NOT** attempt to start the engine until the fuel residue has been completely wiped up, and the area surrounding the engine is dry.

- Throttle Lever Used to adjust engine RPM speed (lever advanced forward SLOW, lever back toward operator FAST).
- Engine ON/OFF Switch ON position permits engine starting, OFF position stops engine operations.
- 4. Recoil Starter (pull rope) Manual-starting method. Pull the starter grip until resistance is felt, then pull briskly and smoothly.
- 5. Fuel Valve Lever OPEN to let fuel flow, CLOSE to stop the flow of fuel.

- 6. Choke Lever Used in the starting of a cold engine, or in cold weather conditions. The choke enriches the fuel mixture.
- Air Cleaner Prevents dirt and other debris from entering the fuel system. Remove wing-nut on top of air filter cannister to gain access to filter element.



Operating the engine without an air filter, with a damaged air filter, or a filter in need of replacement will allow dirt to enter the engine, causing rapid engine wear.

- Spark Plug Provides spark to the ignition system. Set spark plug gap to 0.6 - 0.7 mm (0.028 - 0.031 inch) Clean spark plug once a week.
- 9. Muffler Used to reduce noise and emissions.





Engine components can generate extreme heat. To prevent burns, **DO NOT** touch these areas

while the engine is running or immediately after operating. **NEVER** operate the engine with the muffler removed.

10. **Fuel Tank** – Holds unleaded gasoline. For additional information refer to engine owner's manual.

STOW SDP-2/SDP-3 — PRE-INSPECTION (ENGINE)

CAUTION



NEVER operate the pump in a confined area or enclosed area structure that does not provide ample *free flow of air*.



ALWAYS wear approved eye and hearing protection before operating the pump.



Before Starting

1. Read safety instructions at the beginning of manual.



- 2. Clean the pump, removing dirt and dust, particularly the engine cooling air inlet, carburetor and air cleaner.
- 3. Check the air filter for dirt and dust. If air filter is dirty, replace air filter with a new one as required.
- 4. Check carburetor for external dirt and dust. Clean with dry compressed air.
- 5. Check fastening nuts and bolts for tightness.

Engine Oil Check

- 1. To check the engine oil level, place the pump on secure level ground with the engine stopped.
- 2. Remove the filler dipstick from the engine oil filler hole (Figure 4) and wipe clean.



Figure 4. Engine Oil Dipstick (Removal)

- 3. Insert and remove the dipstick without screwing it into the filler neck. Check the oil level shown on the dipstick.
- 4. If the oil level is low (Figure 5), fill to the edge of the oil filler hole with the recommended oil type (Table 5). Maximum oil capacity is 1.16 quarts (1.1 liters)



Figure 5. Engine Oil Dipstick (Oil Level)

Table 5. Oil Type			
Season	Temperature	Oil Type	
Summer	25°C or Higher	SAE 10W-30	
Spring/Fall	25°C~10°C	SAE 10W-30/20	
Winter	0°C or Lower	SAE 10W-10	







Fuel Check

- 1. Remove the gasoline cap located on top of fuel tank.
- 2. Visually inspect to see if the fuel level is low. If fuel is low, replenish with unleaded fuel.
- 3. When refueling, be sure to use a strainer for filtration. **DO NOT** top-off fuel. Wipe up any spilled fuel *immediately!*

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STOW SDP-2/SDP-3 — PRE-SETUP (PUMP)

Before Starting

- 1. Read safety instructions at the beginning of manual.
- 2. Place pump as near to water as possible, on a firm flat, level surface.
- 3. To prime pump, remove fill cap (Figure 2) and fill pump casing with water. If the pump casing is not filled with water before starting, it will not begin pumping.

CAUTION:



Pump casing *must* be filled with water before using pump. Otherwise pump will not be able to begin pumping.

WARNING :



DO NOT open *fill cap* if pump is **hot!** Water inside may be under pressure.

4. Check for *leaks* between pump and engine. If water is leaking between the pump and engine housing, the seal inside the pump may be worn or damaged. Continued operation of the pump is not recommended. Further usage of the pump under these conditions may cause severe water damage to engine.

Hoses and Clamps

- Check that all hoses are *securely* attached to the pump. Make certain suction hose (Figure 2) does not have any air leakage. Tighten hose clamps and couplings as required.
- 2. It is recommended that 2 clamps be used when securing the suction hose to the inlet side (suction) of the pump.
- 3. Remember suction hoses must be *rigid* enough not to collapse when the pump is in operation.
- 4. Check that the *discharge* hose (Figure 2) is not restricted. Place hose so that it lays as straight as it is possible on the ground. Remove any twists or sharp bends from hose which may block the flow of water.



Suction and discharge hoses are available from Multiquip. Contact your nearest dealer for more information.

- 5. The discharge hose is usually a *collapsible* (thin-walled) hose, however if a thin-walled discharge hose is not available, a rigid suction hose can be substituted in its place.
- Make sure the suction strainer (Figure 2) is clean and securely attached to the water end of the suction hose. The strainer is designed to protect the pump by preventing large objects from being pulled into the pump.

CAUTION:



The strainer should be positioned so it will remain completely **under water**. Running the pump with the strainer above water for long periods can damage the pump.

CAUTION:

DO NOT pump flammable fluids, corrosive chemicals or fluids containing toxic substances. These fluids can create potentially dangerous health and environmental hazards. Contact local authorities for assistance.

CAUTION:



This pump uses a water-cooled *mechanical seal* to prevent water from seeping into the engine. The passage of water through the pump casing lubricates the seal and prevents it from overheating. *NEVER!* operate the pump without

water in the casing as this will cause damage to the mechanical seal.

STOW SDP-2/SDP-3 — PRE-SETUP (PUMP)

Gear Reduction Oil (Transmission)

- 1. Remove the **transmission oil level plug** (Figure 6). If oil begins to seep out as the plug is being removed, then it can be assumed that the transmission oil is at the proper operating level.
- If oil does not seep out as the oil level plug is being removed, then remove the transmission oil fill plug and fill with SAE 80/90 EP gear oil to the proper operating level. Transmission oil capacity is capacity is 1-1/4 pints (590 ml.).



Figure 6. Transmission Oil Level



Diaphragm pumps will handle fluids containing considerable solids (not to exceed 1.00 inch/25 mm), however, if the mixture is too heavy to be pumped, water must be added until the mixture becomes sufficently fluid for pumping.

Connecting Rod Bearing Lubrication

- 1. Grease **connecting rod bearing** thru the acess hole (Figure 7) every 25 hours of operation.
- 2. Use only *premium lithium based grease*, conforming to NLG1 Grade #2 consistency.

APPLY 2 OR 3 SHOTS OF PREMIUM LITHIUM BASE GREASE EVERY 25 HOURS OF OPERATION



Figure 7. Connecting Rod Bearing Lubrication

Helpful Hints

The capacity of this diaphragm pump will vary greatly depending on the height of the suction lift and length of the discharge hose. A discharge hose which is too small, long or high will cause the following:

- Excessive bulging of diaphragm on the down stroke.
- Valves closing with a lould snap.
- Rough operation.
- Engine overloads and slow downs.
- Reduced efficiency

STOW SDP-2/SDP-3 — INITIAL START-UP (ENGINE)

CAUTION:



DO NOT attempt to operate the pump until the Safety, General Information and Inspection sections of this manual have been *read and thoroughly understood*.

This section is intended to assist the operator with the *initial start-up* of the trash pump. It is extremely important that this section be read carefully before attempting to use the pump in the field.

Starting the Engine (HONDA engine)

1. Place the engine *fuel valve lever* (Figure 8) to the "**ON**" position.



Figure 8. Engine Fuel Valve Lever (ON Position)

2. Move the *throttle lever* (Figure 9) away from the slow position, about 1/3 of the way toward the fast position.



Figure 9. Throttle Lever (1/3 Start Position)

3. Place the *choke lever* (Figure 10) in the "**OPEN** " position if starting a *cold* engine.

Figure 10. Engine Choke Lever (Open)



4. Place the *choke lever* (Figure 9) in the "CLOSED" position if starting a *warm engine* or the *temperature is warm.*



Figure 11. Engine Choke Lever (Closed)

 Place the *engine ON/OFF switch* (Figure 12) in the "ON " position.



Figure 12. Engine ON/OFF Switch (ON Position)

6. Grasp the starter grip (Figure 13) and slowly pull it out. The resistance becomes the hardest at a certain position, corresponding to the compression point. Pull the starter grip briskly and smoothly for starting.



Figure 13. Starter Grip

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STOW SDP-2/SDP-3 — INITIAL START-UP (ENGINE)

7. If the engine has started, slowly return the choke lever (Figure 14) to the "**CLOSED**" position. If the engine has not started repeat steps 1 through 6.



Figure 14. Choke Lever (Closed)

- 8. Before the pump is placed into operation, run the engine for several minutes. Check for fuel leaks, and noises that would associate with a lose component.
- 9. To begin pumping, place the throttle lever (Figure 15) in the "**RUN**" position.



Figure 15. Throttle Lever (Run)

Stopping The Engine

Normal Shutdown

1. Move the throttle lever to the **IDLE** position (Figure 16) and run the engine for three minutes at low speed.



Figure 16. Throttle Lever (Idle)

2. After the engine *cools*, turn the engine ON/OFF switch to the "OFF" position (Figure 17).



Figure 17. Engine ON/OFF Switch (OFF)

3. Place the *fuel shut-off lever* (Figure 18) in the "**OFF**" position.



Figure 18. Fuel Valve Lever (OFF)

Emergency Showdown

1. Move the throttle lever quickly to the **"IDLE"** position, and place the engine ON/OFF switch in the "**OFF**" position.



Pump speed can be *regulated* with the engine throttle control from full volume, 65 strokes per pinute, to about 40 strokes per minute for lesser volume seepage.Smoothest

operation can be determined by trying to pump at several speeds. Limit maximum speed to 65 strokes per minute of the diaphragm (2,800 RPM engine speed).

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NOTE PAGE

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STOW SDP-2/SDP-3 — MAINTENANCE (PUMP)

Pump Vacuum Test

CAUTION:



DO NOT attempt to start the engine unless the pump has previously been *primed* with water. Severe pump damage will occur if pump has not been primed.

To perform the pump vacuum test do the following:

- 1. Remove the pump fill cap (Figure 2), and fill the pump with water.
- 2. Start the engine as outlined in the initial start-up section, and wait for the pump to begin pumping.
- As shown in Figure 19 (next page), place a water hose inside the discharge opening of the pump, and turn on the water. This flow of water into the discharge opening will *prevent* the pump from running dry.
- Place the *Pump Vacuum Tester* (P/N 7000030) over the pump suction (inlet) opening (Figure 19) with the vacuum gauge facing upwards. It may be necessary to apply a small amount of water around the rubber seal of the vacuum tester to make a good suction fit.
- 5. Check and make sure that there are no air leaks between the vacuum tester and the inlet port on the pump. If air leaks are present reseat vacuum tester.
- Run the pump for a few minutes while monitoring the vacuum gauge. If the gauge indicates a reading between -25 and -20 in. Hg. (inches of mercury) then it can be assumed that the pump is working correctly.



25 in. Hg (inches of mercury) translates into 25 feet of lift at *sea level*.

- 7. If the vacuum tester gauge indicates a reading **below** -20 in. Hg, it can then be assumed that the pump is not functioning correctly, and corrective action needs to be taken.
- 6. To test the *flapper valve*, shut down the engine. The vacuum tester should remain attached to the pump suction inlet port by vacuum. This indicates the pump's flapper valve is seating properly to hold water in the suction hose when the engine is stopped. This prevents backflow and allows for faster priming when the engine is restarted.

Pump Cleaning

After pumping water containing large amounts of dirt and debris, perform the following:

- 1. Remove the drain plug from the pump housing (Figure 2) and drain any water left in the pump.
- 3. Clean and remove dirt, debris from pump casing. Inspect impeller and volute for wear. Replace any damaged or worn parts.

Gear Reduction Oil (Transmission)

 Change transmission oil after the first 40 hours of operation. Use SAE 80/90 EP gear oil. Transmission oil capacity is 1-1/4 pints (590 ml.). Check oil level periodically and change oil after every 400 hours of operation.

Connecting Rod Bearing Lubrication

- 1. Grease **connecting rod bearing** thru the access hole (Figure 7) every 25 hours of operation.
- 2. Use only *premium lithium based grease*, conforming to NLG1 Grade #2 consistency.

Connecting Rod Bearing Lubrication

- 1. Keep interior of pump and valves clean. Flush out pump with clear water after operation.
- 2. Remove connecting rod guard occasionally and wipe up excess grease from connecting rod bearing.

STOW SDP-2 / SDP-3 DIAPHRAGM PUMP — PARTS MANUAL— REV. #2 (12/16/03) — PAGE 21

STOW SDP-2/SDP-3 — MAINTENANCE (PUMP)



Figure 19. Pump Vacuum Tester

Engine Maintenance

Perform engine maintenance procedures as referenced by Table 6 below:

Table 6. Engine Maintenance Schedule							
DESCRIPTION (3)	OPERATION	BEFORE	FIRST MONTH OR 10 HRS.	EVERY 3 MONTHS OR 25 HRS.	EVERY 6 MONTHS OR 50 HRS.	EVERY YEAR OR 100 HRS.	EVERY 2 YEARS OR 200 HRS.
Engine Oil	CHECK	Х					
Engine Oil	CHANGE		Х				
Air Cleaner	CHECK	Х					
All Cleaner	CHANGE			X (1)			
All Nuts & Bolts	Re-tighten If Necessary	Х					
Coorte Diug	CHECK-CLEAN				Х		
Spark Plug	REPLACE						Х
Cooling Fins	CHECK				Х		
Spark Arrester	CLEAN					Х	
Fuel Tank	CLEAN					Х	
Fuel Filter	CHECK					Х	
Idle Speed	CHECK-ADJUST					X (2)	
Valve Clearance	CHECK-ADJUST						X (2)
Fuel lines	CHECK	Every 2 years (replace if necessary) (2)					

(1) Service more frequently when used in **DUSTY** areas.

(2) These items should be serviced by your servic dealer, unless you have the proper tools and are mechanically proficient. Refer to the HONDA shop Manual for service procedures

(3) For commercial use, log hours of operation to determine proper maintenance intervals.



Reference manufacturer engine manual for specific servicing instructions.

STOW SDP-2/SDP-3 — MAINTENANCE (ENGINE)

Maintenance

Perform the engine maintenance procedures as indicated below:

DAILY

Thoroughly remove dirt and oil from the engine and control area. Clean or replace the air cleaner elements as necessary. Check and retighten all fasteners as necessary. Check the spring box and bellows for oil leaks. Repair or replace as needed.

WEEKLY

- Remove the fuel filter cap and clean the inside of the fuel tank.
- Remove or clean the filter at the bottom of the tank.
- Remove and clean the spark plug (Figure 20), then adjust the spark gap to 0.028 ~0.031 inch (0.6~0.7 mm). This unit has electronic ignition, which requires no adjustments.



Figure 20. Spark Plug Gap

ENGINE OIL

- 1. Drain the engine oil when the oil is *warm* as shown in Figure 21.
- 2. Remove the oil drain bolt and sealing washer and allow the oil to drain into a suitable container.
- Replace engine oil with recommended type oil as listed in Table 5. Engine oil capacity is 1.16 quarts (1.1 liters). DO NOT overfill.
- 4. Install drain bolt with sealing washer and tighten securely.



Figure 21. Engine Oil (Draining)

DANGER:



DO NOT use gasoline as a cleaning solvent, because that would create a risk of fire or explosion.

ENGINE AIR CLEANER

- 1. Remove the air cleaner cover and foam filter element as shown in Figure 22.
- Tap the paper filter element (Figure 22) several times on a hard surface to remove dirt, or blow compressed air [not exceeding 30 psi (207 kPa, 2.1 kgf/cm²)] through the filter element from the air cleaner case side. *NEVER* brush off dirt. Brushing will force dirt into the fibers. Replace the paper filter element if it is excessively dirty.
- 3. Clean foam element in warm, soapy water or nonflammable solvent. Rinse and dry thoroughly. Dip the element in clean engine oil and completely squeeze out the excess oil from the element before installing.



Figure 22. Engine Air Cleaner

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STOW SDP-2/SDP-3 — PREPARATION FOR LONG -TERM STORAGE

Pump Storage

For storage of the pump for over 30 days, the following is required:

- Drain the fuel tank completely.
- Run the engine until the fuel is completely consumed.
- Completely drain used oil from the engine crankcase and fill with fresh clean oil, then follow the procedures described in the engine manual for engine storage.
- Remove the pump cover and clean inside of pump housing. Coat inside of pump housing with a light film of oil to reduce corrosion. A spray can of oil works well for this application.
- Cover suction and discharge ports with duct tape to prevent any foreign matter from falling into pump.
- Cover pump and engine with plastic covering or equivalent and store in a clean, dry place.
- To protect the water cooled-seals, place one-half pint of lubricating oil (new or used) through the discharge opening on the pump and crank the engine several times. This will prevent excessive corrosion and also keep the mechanical seal lubricated.

STOW SDP-2/SDP-3 — TROUBLESHOOTING (ENGINE)

	TABLE 7. ENGINE T	ROUBLESHOOTING
SYMPTOM	POSSIBLE PROBLEM	SOLUTION
Difficult to start		
	Ignition plug being bridge?	Check ignition system.
Fuel is available but spark plug	Carbon deposit at ignition?	Clean or replace ignition.
will not ignite. (Power available at high tension cable).	Short circuit due to defective insulators?	Replace insulators.
	Improper spark gap?	Set spark plug gap to the correct gap.
Fuel is available but spark plug will not ignite. (Power NOT	Short circuit at stop switch?	Check stop switch circuit. Replace stop switch if defective.
available at high tension cable).	Ignition coil defective?	Replace ignition coil.
	Muffler clogged with carbon deposits?	Clean or replace muffler.
Fuel is available and spark plug ignites (compression normal) .	Mixed fuel quality is inadequate?	Check fuel to oil mixture.
ignites (compression normal).	Fuel in use inadequate (water, dust)?	Flush fuel sytem and replace with fresh fuel.
	Air Cleaner clogged?	Clean or replace air cleaner.
	Defective cylinder head gasket?	Tighten cylinder head bolts or replace head gasket.
Fuel is available and spark plug ignites (compression low).	Cylinder worn?	Replace cylinder.
	Spark plug loose?	Tighen spark plug.
Operation not satisfactory		
	Air cleaner clogged?	Clean or replace air cleaner.
Not enough power available	Air in fuel line?	Bleed (remove air) from fuel line.
(compression normal, no miss- firing).	Fuel level in carbureator float chamber improper?	Adjust carbureator float
	Carbon deposits in cylinder?	Clean or replace cylinder
	Ignition coil defective?	Flush fuel sytem and replace with fresh fuel.
Not enough power available (compression normal, miss-	Ignition plug often shorts?	Replace ignition wires, clean ignition.
firing).	Fuel in use inadequate (water, dust)?	Flush fuel sytem and replace with fresh fuel.
	Excessive carbon depostion in combustion chamber?	Clean or replace crankcase.
Engine overheats.	Exhaust or muffler clogged with carbon.	Clean or replace muffler.
	Spark plug heat value incorrect?	Replace spark plug with correct type spark plug.

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STOW SDP-2/SDP-3 — TROUBLESHOOTING (ENGINE/PUMP)

TABLE 7. ENGINE TROUBLESHOOTING (Continued)				
SYMPTOM	POSSIBLE PROBLEM	SOLUTION		
Operation not satisfactory				
	Governor adjustment improper?	Adjust governor to correct lever.		
	Governor spring defective?	Clean or replace ignition.		
Rotational speed fluctuates.	Fuel flow erratic?	Check fuel line.		
	Air taken in through suction line?	Check suction line.		
Recoil starter not working	Dust in rotating part?	Clean recoil starter assembly.		
properly.	Spring spring failure?	Replace sprial spring.		

TABLE 8. PUMP TROUBLESHOOTING				
SYMPTOM	POSSIBLE PROBLEM	SOLUTION		
	Not enough priming water in the housing?	Add water.		
	Engine speed too low?	Increase throttle.		
	Strainner plugged?	Clean strainer.		
	Suction hose damaged?	Replace or repair hose, and clamps		
	Air leak at suction port?	Check that fittings are tight and properly sealed.		
Pump does not take on water.	Pump is located too high above water line?	Move pump closer to water.		
	Debris collecting in pump housing?	Clean pump housing.		
	Water leaking out weep hole between pump and engine?	Check condition of mechanical seal and gaskets, between pump end and engine housing.		
	Valves not seated correctly?	Check that valves are seated correctly. Pour water in in suction chamber to help seal valves.		
	Pump does not prime correctly?	Check diaphragm for breaks or leaks.		
Pump takes in water, little or no	Engine speed too low?	Increase throttle speed.		
discharge.	Suction strainer partially plugged?	Clean strainer.		
Suction hose leaks at inlet.	Fittings/clamps are not sealed properly?	Tighten, replace or add clamp. (Keep extra seals on pump)		
	Hose diameter is too large?	Use smaller diameter hose or replace hose.		
Discharge hose does not stay	Pressure too high?	Check pressure, add additional clamp.		
on coupling.	Hose kinked or end blocked?	Check hose.		

STOW SDP-2/SDP-3 — EXPLANATION OF CODE IN REMARKS COLUMN

How to read the marks and remarks used in this parts book.

Items Found In the "Remarks" Column

Serial Numbers-Where indicated, this indicates a serial number range (inclusive) where a particular part is used.

Model Number-Where indicated, this shows that the corresponding part is utilized only with this specific model number or model number variant.

Items Found In the "Items Number" Column

All parts with same symbol in the number column, *, #, +, %, or <, belong to the same assembly or kit.





If more than one of the same reference number is listed, the last one listed indicates newest (or latest) part available.

STOW SDP-2/SDP-3 — SUGGESTED SPARE PARTS

STOW *SDP-2/SDP-3* DIAPHRAGM PUMP *1 TO 3 UNITS* WITH HONDA *GX120K1QX2* ENGINE

Qty.	P/N	Description
3	17210ZE0505	ELEMENT AIR CLEANER DUAL
3	9807955846	SPARK PLUG
1	17620ZH7023	CAP, FUEL WITH GASKET
1	28462ZH8003	ROPE STARTER
1	2022331	DIAPHRAGM 2-INCH
		DIAPHRAGM 3-INCH
2	2023356	FLAP VALVE 2-INCH
2	SP3311N	FLAP VALVE 3-INCH
1	2023322	PLUG, 2 & 3-INCH FILL
1	2023323	GASKET, 2 & 3-INCH PLUG
1	0742304050	STRAINER 2-INCH



Part number on this Suggested Spare Parts List may super cede/ replace the P/N shown in the text pages of this book.

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STOW SDP-2 — WATERBOX & GROOVE ASSY. (2-INCH)

WATERBOX & GROOVE ASSY. (2-INCH)



STOW SDP-2 — WATERBOX & GROOVE ASSY. (2-INCH)

WATERBOX & GROOVE ASSY. (2-INCH)

<u>NO.</u>	PART NO.	PART NAME	<u>QTY.</u>	REMARKS
1	SP3354A1	SUCTION CONN & GROOVE PIN ASSY.	1	
2	SP3322	2" FILL PLUG	1	
3	SP3323	2" PLUG GASKET	1	
4	SP3015	EXTRA HEAVY NIPPLE	2	
5	2023812	3/8"X1-1/2" HEX SCREW	4	
5A	2023800	3/8" LOCKWASHER	4	
6	2021838	1/8"X3/8" SPRING PIN	2	
7	2023358	VALVE WEIGHT	2	
8	2023356	FLAP VALVE	2	
9	2023357	VALVE BINDER	2	
10	2021032	RD. HD. MACH. SCREW #10-32X1/2"	4	
11	SP3351A1	WATERBOX & GROOVE PIN ASSY.	1	
12	SP3355A1	DISCHARGE CONNECTION	1	
13	2023458	STUD, 3/8"-16 X 2 UNC	3	
13A	2061213	HEX NUT, 3/8"-16	3	
14	SP3353A1	DIAPHRAGM BOTTOM	1	
15	SP2331TPE	DIAPHRAGM	1	
16	0742304050	STRAINER	1	
17	2023816	NUT, HEX 3/8"-16 UNC	3	

STOW SDP-2 — PUMP ASSY. (2-INCH)

2-INCH PUMP ASSY.



NOTES:

TORQUE TO 7-8 FT. LBS.

TORQUE TO 10-11 FT. LBS.

TORQUE TO 35-40 FT. LBS.

5 TORQUE TO 55-60 FT. LBS.

STOW SDP-2 — PUMP ASSY. (2-INCH)

2-INCH PUMP ASSY.

-			0T V	
<u>NO.</u>	<u>PART NO.</u>	PART NAME	<u>QTY.</u>	<u>REMARKS</u>
16		SCREW, 1/2"X2-1/4" HEX, HN	2	
		HEX NUT, 1/2" -13 UNC	2	
17	SP3350	PUMP FRAME	1	
18	2025818	JAM NUT, 5/8-18 UNF	1	
19	3051213	HEX SCREW 1/2"-13 UNC X 1-3/4"	4	
19A	2021200	WASHER, LOCK 1/2"	4	
20	2023212	SCREW, #10-32X3/8" FT. HD. MACH	6	
21	SP3360	RETAINING WASHER	2	
22	SP3352	CONNECTING ROD	1	
23	2020316	GREASE FITTING, 3/16" DRIVE TYPE STR.		
24	SP4864	BEARING, CONNECTING ROD	1	
25	2020807	WOODRUFFKEY	2	
26	SP4895	CRANK ARM	1	
27	2021232	OIL SEAL	1	
28	2021232	SCREW, HEX 1/2"X1-1/2"-13 UNC	1	
			1	
29	2025656	,	1	
30	2024540	PLUG, 3/8" VENTED PIPE, PLASTIC		
31	SP4850	CASE	1	
32	2024858	GASKET, GEAR CASE	1	
33	2063070	BEARING, BALL	1	
34	2024853	GEAR SHAFT	1	
35	2025058	GEAR, 79 TOOTH	1	
36	2063040	BEARING, BALL	2	
37	2024852	PINION, 11 TOOTH	1	
38	2023417	GEAR, 85 TOOTH INTERNAL	1	
39	2023020	BEARING, BALL	1	
40	2021434	PIN, 1/4"X3/4" DOWEL	2	
41	SP4851	COVER	1	
42	SP3321	LIFTING HOOK	1	
43	2021420	SCREW, HEX 1/4"-20 UNC X 1-1/4"	2	
43A	2021402	WASHER, LOCK 1/4"	2 2	
44	2061880	NEEDLE BEARING	1	
45	2024854	14T PINION (3/4" BORE)	1	
46	2025100	RETAINING RING	1	
47	2029106	BEARING, BALL	1	
48	3051421	SCREW, 1/4-20" UNC X1"	9	
48A	2021421	WASHER, LOCK 1/4"	9	
49	2021827	PLUG, 1/8" NPT SQ. HD. PIPE	2	
50	2024859	O-RING	1	
51	2025162	SCREW, HEX 5/16"-24 UNF X1"	4	
51A	2025167	WASHER, LOCK 5/16"	4	
52	SP4856		1	
53	2025160	SCREW, SOCKET HD. 5/16"-18 UNC X1"	4	
53A	2025165	LOCK WASHER CS W/INTERNAL TOOTH	4	
54	2025601	KEY 3/16" SQ. X 1" LG	1	
63	SP3691	GUARD	1	
64	2021012	SELF TAPPING MACH. SCREWS	2	
65	2021402	WASHER, FLAT 1/4"	2	

STOW SDP-3 — WATERBOX & GROOVE ASSY. (3-INCH)

WATERBOX & GROOVE ASSY. (3-INCH)



STOW SDP-3 — WATERBOX & GROOVE ASSY. (3-INCH)

WATERBOX & GROOVE ASSY. (3-INCH)

<u>NO.</u>	PART NO.	PART NAME	<u>QTY.</u>	REMARKS
1	SP3309A1	PIN, SUCTION CONN & GROOVE ASSY.	1	
2	SP3322	PLUG, 2" FILL	1	
3	SP3323	GASKET, 2" PLUG	1	
4	SP3041	NIPPLE, EXTRA HEAVY	2	
5	AO100500175	SCREW, 1/2"-13 X 1-3/4" HX	4	
5A	2023800	3/8" LOCKWASHER	4	
6	2021838	PIN, 1/8"X3/8" SPRING	2	
7	SP3313	VALVE WEIGHT	2	
8	SP3311N	FLAP VALVE	2	
9	SP3312	VALVE BINDER	2	
10	2021032	RD. HD. MACH. SCREW #10-32X1/2"		
11	SP3308A1	PIN, WATERBOX & GROOVE ASSY.	1	
12	SP3310A1	DISCHARGE CONNECTION	1	
13	AO200500200ZC	BOLT, 1/2" X 2" CARR.	3	
14	SP3306A1	DIAPHRAGM BOTTOM	1	
15	SP2726TPE	DIAPHRAGM	1	
16	SP3364	STRAINER	1	
17	2023816	NUT, HEX 3/8"-16 UNC	3	
			3	

STOW SDP-3 — PUMP ASSY.

3-INCH PUMP ASSY.



NOTES:

TORQUE TO 7-8 FT. LBS.

TORQUE TO 10-11 FT. LBS.

A TORQUE TO 35-40 FT. LBS.

5 TORQUE TO 55-60 FT. LBS.
STOW SDP-3 — PUMP ASSY.

3-INCH PUMP ASSY.

0 1101	TTOMI AGOI.			
NO.	<u>PART NO.</u>	PART NAME	QTY.	<u>REMARKS</u>
16		SCREW, 1/2"X2-1/4" HEX, HN	2	
16A	2061213	HEX NUT, 1/2" -13 UNC	2	
17	SP4771	PUMP FRAME	1	
	OEBX	NUT, 3/4-16 UNF. JAM	1	
19	3051213	HEX SCREW 1/2"-13 UNC X 1-3/4"	4	
19A	2021200	WASHER, LOCK 1/2"	4	
20	2023212	SCREW, #10-32X3/8" FT. HD. MACH	6	
21	SP3360	WASHER, RETAINING	2	
22	SP3352	CONNECTING ROD	1	
			4	
23	2020316	GREASE FITTING, 3/16" DRIVE TYPE STR.	I	
24	SP5581	BEARING, CONNECTING ROD	1	
25	2020807	WOODRUFF KEY	2	
26	SP5583	CRANK ARM	1	
27	2021232	OIL SEAL	1	
28	2021211	SCREW, HEX 1/2"X1-1/2"-13 UNC	1	
		,	4	
29	2025656		I	
30	2024540	PLUG, 3/8" VENTED PIPE, PLASTIC	1	
31	SP4850	CASE	1	
32	2024858	GASKET, GEAR CASE	1	
33	2063070	BEARINĠ, BALL	1	
34	2024853	GEAR SHAFT	1	
			4	
35	2025058	GEAR, 79 TOOTH	1	
36	2063040	BEARING, BALL	2	
37	2024852	PINION, 11 TOOTH	1	
38	2023417	GEAR, 85 TOOTH INTERNAL	1	
39	2023020	BEARING, BALL	1	
40	2021434	PIN, 1/4"X3/4" DOWEL	2	
41	SP4851	COVER	1	
			1	
42	SP3321			
43	2021420	SCREW, HEX 1/4"-20 UNC X 1-1/4"	2	
43A	2021402	WASHER, LOCK 1/4"	2	
44	2061880	NEEDLE BEARING	1	
45	2024854	14T PINION (3/4" BORE)	1	
46	2025100	RETAINING RING	1	
47	2029106	BEARING, BALL	1	
48		,		
	3051421	SCREW, 1/4-20" UNC X1"	9	
48A	2021421	WASHER, LOCK 1/4"	9	
49	2021827	PLUG, 1/8" NPT SQ. HD. PIPE	2	
50	2024859	O-RING	1	
51	2025162	SCREW, HEX 5/16"-24 UNF X1"	4	
51A	2025167	WASHER, LOCK 5/16"	4	
52	SP4856	ENGINE ADAPTER	1	
53	2025160	SCREW, SOCKET HD. 5/16"-18 UNC X1"	4	
53A	2025165	LOCK WASHER CS W/INTERNAL TOOTH	4	
54	2025601	KEY 3/16" SQ. X 1" LG	1	
63	SP3691	GUARD	1	
64	DC290X19050FZ	SCREW, 10-24X1/2" SELF TAPPING	2	
65	2021402	WASHER, FLAT 1/4"	2	
00			4	

STOW SDP-2/3 — AXLE, HANDLE, ENGINE MTG. AND BUMPER ASSY.

AXLE, HANDLE, ENGINE MOUNTING AND BUMPER ASSY.



STOW SDP-2/3 — AXLE, HANDLE, ENGINE MTG. AND BUMPER ASSY.

AXLE, HANDLE, ENGINE MOUNTING AND BUMPER ASSY.

NO.	PART NO.	PART NAME	QTY.	REMARKS
1	2020274A	WHEELS SEMI-PNEUMATIC	2	
2	2023400	WASHER, FLAT 3/4" SAE	2	
3	2023161	COTTER PIN, 3/16" X 1-1/4" LG	2	
4	2023816	SCREW, HEX 3/8"-16 UNC X 1-1/4"	2	
5	2023039	AXLE CLAMP	2	
6	2023800	WASHER LOCK	2	
7	2063816	NUT HEX 3/8"-16 UNC	2	
8	2023320A	HANDLE	1	
9	2021213	SCREW HEX 1/2"-13 UNC X 2-1/2"	2	
10	2021200	WASHER, LOCK	4	
11	2025111	NUT HEX 5/16""-18 UNC	4	
12	2025167	WASHER, LOCK 5/16"	4	
13	3055160	WASHER, FLAT 5/16"	8	
14	2022676	WASHER, SLOTTED HOLE 1/32" THK	4	
15	2023327	BUMPER	1	
16	2025169	SCREW, HEX 5/16"-18 UNC X 2"	2	
17	GX160K1QX2	HONDA ENGINE 4.0 HP	1	

HONDA GX120K1QX2 ENGINE — AIR CLEANER ASSY.

AIR CLEANER ASSY.





HONDA GX120K1QX2 ENGINE — AIR CLEANER ASSY.

AIR CLEANER ASSY.

<u>NO.</u>	PART NO.	PART NAME	<u>QTY.</u>	REMARKS
1	16271ZE1000	GASKET, ELBOW	1	
2	17210ZE0505	ELEMENT, AIR CLEANER (DUAL)	1	INCLUDES ITEMS W/*
3*	17218ZE0505	FILTER, OUTER	1	
4	17230ZE0820	COVER, AIR CLEANER (DUAL)	1	
5*	17232891000	GROMMET, AIR CLEANER	1	
7#	17238ZE0010	COLLAR, AIR CLEANER	2	
8#	17239ZE1000	COLLAR B, AIR CLEANER	1	
9	17410ZE0030	ELBOW, AIR CLEANER	1	INCLUDES ITEMS W/#
12	90325044000	WINGNUT, TOOL BOX SETTING	2	
13	957010602000	BOLT, FLANGE 6X20	1	
14	9405006000	NUT, FLANGE 6MM	2	

HONDA GX120K1QX2 ENGINE — CAMSHAFT ASSY.

CAMSHAFT ASSY.



HONDA GX120K1QX2 ENGINE — CAMSHAFT ASSY.

CAMSHAFT ASSY.

<u>NO.</u>	PART NO.	PART NAME	<u>QTY.</u>	<u>REMARKS</u>
1	14100ZE0812	CAMSHAFT ASSEMBLY		INCLUDES ITEMS W/*
2	14410ZE0010	ROD, PUSH	2	
3	14431ZE1000	ARM, VALVE ROCKER	2	
4	14441ZE1010	LIFTER, VALVE	2	
5	14451ZE1013	PIVOT, ROCKER ARM	2	
6*	14568ZE1000	SPRING, WEIGHT RETURN	1	
7	14711ZF0010	VALVE, IN.	1	
8	14721ZF0000	VALVE, EX.	1	
9	14751ZF1000	SPRING, VALVE	2	
10	14771ZE1000	RETAINER, IN. VALVE SPRING	1	
11	14773ZE1000	RETAINER, EX. VALVE SPRING	1	
12	14781ZE1000	ROTATOR, VALVE	1	
13	14791ZE0010	PLATE, PUSH ROD GUIDE	1	
14	90012ZE0010	BOLT, PIVOT 8MM	2	
15	90206ZE1000	NUT, PIVOT ADJ.	2	

HONDA GX120K1QX2 ENGINE — CARBURETOR ASSY.

CARBURETOR ASSY.



HONDA GX120K1QX2 ENGINE — CARBURETOR ASSY.

CARBURETOR ASSY.

<u>NO.</u>	PART NO.	PART NAME	QTY.	REMARKS
1*	16010ZE1812	GASKET SET	1	
2*	16011ZE0005	VALVE SET, FLOAT	1	
3*	16013ZE0005	FLOAT SET	1	
4*	16015ZE1811	CHAMBER SET, FLOAT	1	
5*	16016ZH7W01	SCREW SET	1	
6*	16024ZE1811	SCREW SET, DRAIN	1	
7*	16028ZE0005	SCREW SET B	1	
8*	16044ZE0005	CHOKE SET	1	
9	16100ZH7W51	CARBURETOR ASSEMBLY, BE60B B	1	INCLUDES ITEMS W/*
10*	16124ZE0005	SCREW, THROTTLE STOP	1	
11*	16166ZH7W50	NOZZLE, MAIN	1	
12*	16173001004	GASKET, FUEL STRAINER CUP	1	
13	16211ZE0000	INSULATOR, CARBURETOR	1	
14	16212ZH7800	GASKET, INSULATOR	1	
15	16220ZE1020	SPACER, CARBURETOR	1	
16	16221ZH8801	GASKET, CARBURETOR	1	
17	16610ZE1000	LEVER, CHOKE (STANDARD)	1	INCLUDES ITEMS W/+
18*	16953ZE1812	LEVER,VALVE	1	
19*	16954ZE1811	PLATE, LEVER SETTING	1	
20*	16956ZE1811	SPRING, VALVE LEVER	1	
21*	16957ZE1812	GASKET, VALVE	1	
22*	16967ZE0811	CUP, FUEL STRAINER	1	
23*	93500030080G	SCREW, PAN (3 X 6)	2	
24#	9430520122	PIN, SPRING (2 X 12)	1	
25	99101ZH80550	JET, MAIN (#55) (OPTIONAL)	1	
25	99101ZH80580	JET, MAIN (#58) (OPTIONAL)	1	
25*	99101ZH80600	JET, MAIN (#60)	1	
26*	99204ZE00350	JET, SET, PILOT (#35)	1	

CONTROL ASSY.



HONDA GX120K1QX2 ENGINE — CONTROL ASSY.

CONTROL ASSY.

<u>NO.</u>	PART NO.	PART NAME	QTY.	<u>REMARKS</u>
3	16500ZH7820	CONTROL ASSEMBLY (REMOTE)	1	INCLUDES ITEMS W/#
4	16551ZE0010	ARM, GOVERNOR	1	
5	16555ZE0000	ROD, GOVERNOR	1	
6	16561ZE0020	SPRING, GOVERNOR	1	
7	16562ZE0020	SPRING, THROTTLE RETURN	1	
8#	16571ZH7000	LEVER, CONTROL	1	
9#	16574ZE1000	SPRING, LEVER	1	
10#	16575ZH8000	WASHER, CONTROL LEVER	1	
11#	16576891000	HOLDER, CABLE		
12#	16578ZE1000	SPACER, CONTROL LEVER	1	
14#	16580ZH7810	BASE CONTROL	1	
15#	16584883300	SPRING, CONTROL ADJUSTING	1	
16#	16592ZE1810	SPRING, CABLE RETURN		
18	90013883000	BOLT, FLANGE 6X12 (CT200)	1	
19	90015ZE5010	BOLT, GOVERNOR ARM	1	
20	90022888010	BOLT, FLANGE 6X20 (CT200)	1	
21#	90114SA0000	NUT, SELF- LOCK 6MM	1	
24#	93500050250H	SCREW, PAN 5X25	1	
25#	93500050160A	SCREW, PAN	1	
26	9405006000	NUT, FLANGE 6MM	1	

HONDA GX120K1QX2 ENGINE — CRANKCASE COVER ASSY.

CRANKCASE COVER ASSY.



HONDA GX120K1QX2 ENGINE — CRANKCASE COVER ASSY.

CRANKCASE COVER ASSY.

<u>NO.</u>	PART NO.	PART NAME	<u>QTY.</u>	REMARKS
1	11300ZE0640	COVER ASSEMBLY, CRANKCASE (W- TYPE)	1	INCLUDES ITEMS W/*
2	11381ZH7800	GASKET, CASE COVER	1	
3	15600ZE1003	CAP ASSEMBLY, OIL FILLER	1	INCLUDES ITEMS W/#
4	15600ZG4003	CAP ASSEMBLY, OIL FILLER	1	INCLUDES ITEMS W/+
7#	15625ZE1003	GASKET, OIL FILLER CAP	1	
8+	15625ZE1003	GASKET, OIL FILLER CAP	1	
9	90015883000	BOLT, FLANGE 6X28	7	
10*	91001878003	BEARING, RADIAL BALL	1	
11*	91203ZE0003	OIL SEAL 22X41X6	1	
12	9430108140	PIN A, DOWEL 8X14	2	

HONDA GX120K1QX2 ENGINE — CRANKSHAFT ASSY.

CRANKSHAFT ASSY.



HONDA GX120K1QX2 ENGINE — CRANKSHAFT ASSY.

CRANKSHAFT ASSY.

<u>NO.</u>	PART NO.	PART NAME	<u>QTY.</u>	REMARKS
1	13310ZE0601	CRANKSHAFT, H-TYPE	1	
2	90745ZE1600	KEY 4.78 X4.78X38	1	

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HONDA GX120K1QX2 ENGINE — CYLINDER BARREL ASSY.

CYLINDER BARREL ASSY.



HONDA GX120K1QX2 ENGINE — CYLINDER BARREL ASSY.

CYLINDER BARREL ASSY.

<u>NO.</u>	PART NO.	PART NAME	<u>QTY.</u>	REMARKS
2	120A0ZH7810	CYLINDER ASSEMBLY (OIL ALERT)	1	INCLUDES ITEMS W/*
3	15510ZE1033	SWITCH ASSEMBLY, OIL LEVEL	1	
4	16510ZE1000	GOVERNOR ASSEMBLLY	1	INCLUDES ITEMS W/#
5#	16511ZE1000	WEIGHT, GOVERNOR	2	
6#	16512ZE1000	HOLDER, GOVERNOR WEIGHT	1	
7#	16513ZE1000	PIN, GOVERNOR WEIGHT	2	
8	16531ZE1000	SLIDER, GOVERNOR	1	
9	16541ZE1000	SHAFT, GOVERNOR ARM	1	
10	90131ZE1000	BOLT, DRAIN PLUG	2	
11	90451ZE1000	WASHER, THRUST 6mm	1	
12	90601ZE1000	WASHER, DRAIN PLUG 10.2mm	2	
13	90602ZE1000	CLIP, GOVERNOR HOLDER	1	
14*	91001878003	BEARING, RADIAL BALL 62/22	1	
15*	91202ZE6003	OIL SEAL 22X35X6	1	
16	91353671003	O- RING 13.5X1.5 (ARAI)	1	
17	9405010000	NUT, FLANGE 10mm	1	
18	9410106800	WASHER, PLAIN 6mm	2	
19	9425108000	PIN, LOCK 8mm	1	
20	957010601200	BOLT, FLANGE 6X12	2	

HONDA GX120K1QX2 ENGINE — CYLINDER HEAD ASSY.

CYLINDER HEAD ASSY.



HONDA GX120K1QX2 ENGINE — CYLINDER HEAD ASSY.

CYLINDER HEAD ASSY.

<u>NO.</u>	PART NO.	PART NAME	<u>QTY.</u>	REMARKS
1	12210ZH7000	CYLINDER HEAD	1	INCLUDES ITEMS W/*
2*	12204ZE1306	GUIDE, VALVE (OS) OPTIONAL	1	
3*	12205ZE1315	GUIDE, EX. VALVE (OS) OPTIONAL	1	INCLUDES ITEMS W/+
4*+	12216ZE5300	CLIP, VALVE GUIDE	1	
5	12251ZH7800	GASKET, CYLINDER HEAD	1	
6	12310ZE1000	COVER, HEAD	1	
6	12310ZE1010	COVER, HEAD	1	
7	12391ZE1000	GASKET, CYLINDER HEAD COVER	1	
8	15721ZH8000	TUBE, BREATHER	1	
9	90013883000	BOLT, FLANGE 6X12 (CT200)	4	
10	90043ZE1020	BOLT, STUD 6X109	2	
11	90047ZE1000	BOLT, STUD 8X32	2	
12	9430110160	PIN, A, DOWEL 10X16	2	
14	957230805500	BOLT, FLANGE 8X55	4	
15	9807955846	SPARK PLUG BPR6ES (NGK)	1	

HONDA GX120K1QX2 ENGINE — FAN COVER ASSY.

FAN COVER ASSY.



HONDA GX120K1QX2 ENGINE — FAN COVER ASSY.

FAN COVER ASSY.

<u>NO.</u>	<u>PART NO.</u>	PART NAME	<u>QTY.</u>	REMARKS
1	11347371300	GROMMET, ADJUSTING COVER	1	
2	19610ZE0000ZE	COVER, FAN *NH1* BLACK	1	
3	19611ZH7810	PLATE, SIDE (OIL ALERT)	1	
4	90601ZH7013	CLIP, HARNESS	1	
5	19630ZH7000	SHROUD	1	
6	32197ZH8003	SUB- HARNESS	1	
7	36100ZE1015	SWITCH ASSEMBLY, ENGINE STOP	1	
7	36100ZH7003	SWITCH ASSEMBLY, ENGINE STOP	1	
8	36101ZE1010	WIRE, STOP SWITCH 370MM	1	
9	90013883000	BOLT, FLANGE 6X12 (CT200)	6	
10	90022888010	BOLT, FLANGE 6X12 (CT200)	1	
11	34150ZH7003	ALERT UNIT, OIL	1	
13	957010600800	BOLT, FLANGE 6X8	1	

HONDA GX120K1QX2 ENGINE — FLYWHEEL ASSY.

FLYWHEEL ASSY.



HONDA GX120K1QX2 ENGINE — FLYWHEEL ASSY.

FLYWHEEL ASSY.

<u>NO.</u>	PART NO.	PART NAME	<u>QTY.</u>	REMARKS
1	13331357000	KEY, SPECIAL WOODRUFF 25X18	1	
2	19511ZE0000	FAN, COOLING	1	
4	28451ZH8003	PULLEY, STARTER	1	
5	31100ZE0010	FLYWHEEL	1	
7	90201878003	NUT, SPECIAL 14MM	1	

HONDA GX120K1QX2 ENGINE — FUELTANK ASSY.

FUEL TANK ASSY.



HONDA GX120K1QX2 ENGINE — FUELTANK ASSY.

FUEL TANK ASSY.

<u>NO.</u>	PART NO.	PART NAME	<u>QTY.</u>	REMARKS
1	16854ZH8000	RUBBER, SUPPORTER 107MM	1	
2	16955ZE1000	JOINT, FUEL TANK	1	
3	17510ZE0020ZD	TANK, FUEL *NH1* (BLACK)	1	
5	17620ZH7023	CAP, FUEL FILLER	1	INCLUDES ITEMS W/*
6*	17631ZH7003	GASKET, FUEL FILLER CAP	1	
11	91353671003	O- RING 13.5X1.5 (ARAI)	1	
12	9405006000	NUT, FLANGE 6MM	2	
13	950014500360M	BULK HOSE, FUEL (4.5X3000) (4.5X140)) 1	
14	9500202080	CLIP, TUBE (B8)	2	
15	90004ZH7003	BOLT, FLANGE 6X29	1	

HONDA GX120K1QX2 ENGINE — IGNITION COIL ASSY.

IGNITION COIL ASSY.



HONDA GX120K1QX2 ENGINE — IGNITION COIL ASSY.

IGNITION COIL ASSY.

<u>NO.</u>	PART NO.	PART NAME	<u>QTY.</u>	REMARKS
1	30500ZE1033	COIL ASSEMBLY, IGNITION	1	
2	30700ZE1013	CAP ASSEMBLY, NOISE SUPPRESSOR	1	
8	90121952000	BOLT, FLANGE 6X25	2	

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HONDA GX120K1QX2 ENGINE — MUFFLER ASSY.

MUFFLER ASSY.



HONDA GX120K1QX2 ENGINE — MUFFLER ASSY.

MUFFLER ASSY.

<u>NO.</u>	PART NO.	PART NAME	<u>QTY.</u>	REMARKS
1	18310ZF1000	MUFFLER	1	
3	18320ZF1H01	PROTECTOR, MUFFLER	1	
7	18381ZH8800	GASKET, MUFFLER	1	
10	90050ZE1000	SCREW, TAPPING 5X8	4	
13	94001080000S	NUT, HEX. 8MM	2	

HONDA GX120K1QX2 ENGINE — PISTON ASSY.

PISTON ASSY.



HONDA GX120K1QX2 ENGINE — PISTON ASSY.

PISTON ASSY.

<u>NO.</u>	<u>PART NO.</u>	PART NAME	QTY.	<u>REMARKS</u>
1	13010ZK7V01	RING SET, PISTON (STANDARD)	1	
1	13011ZE6013	RING SET, PISTON (OS 0.25), OPTIONAL	1	
1	13012ZK7V01	RING SET, PISTON (OS 0.50), OPTIONAL	. 1	
1	13013ZK7V01	RING SET, PISTON (OS 0.75), OPTIONAL	1	
2	13101ZH7000	PISTON, STANDARD	1	
2	13102ZH7000	PISTON, OS 0.25	1	
2	13103ZH7000	PISTON, OS 0.50	1	
2	13104ZH7000	PISTON, 0.75	1	
3	13111ZE0000	PIN, PISTON	1	
4	132A0ZE0000	ROD ASSY, CONNECTING (UNDER SIZE)	1	INCLUDES ITEMS W/*
4	13200ZE0000	ROD ASSEMBLY, CONNECTING	1	INCLUDES ITEMS W/*
5*	90001ZE1000	BOLT, CONNECTING ROD	2	
6	90551ZE0000	CLIP, PISTON PIN 13MM	2	

HONDA GX120K1QX2 ENGINE — RECOIL STARTER ASSY.

RECOIL STARTER ASSY.



HONDA GX120K1QX2 ENGINE — RECOIL STARTER ASSY.

RECOIL STARTER ASSY.

<u>NO.</u>	PART NO.	PART NAME	QTY.	REMARKS
1	28400ZH8013ZB	STARTER ASSY., RECOIL *NH1* (BLACK)	1	INCLUDES ITEMS W/*
2*	28410ZH8003ZB	CASE, RECOIL STARTER *NH1* (BLACK)	1	
3*	28420ZH8013	REEL, RECOIL STARTER	1	
4*	28422ZH8013	RATCHET, STARTER	2	
5*	28433ZH8003	GUIDE, RATCHET	1	
6*	28441ZH8003	SPRING, FRICTION	1	
7*	28442ZH8003	SPRING, RECOIL STARTER	1	
8*	28443ZH8003	SPRING, RETURN	2	
9*	28461ZH8003	KNOB, RECOIL STARTER	1	
10*	28462ZH8003	ROPE, RECOIL STARTER	1	
11*	90003ZH8003	SCREW, SETTING	1	
12	9008ZE2003	BOLT, FLANGE 6X10	3	

HONDA GX120K1QX2 ENGINE — GASKET KIT ASSY.

GASKET KIT ASSY.

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HONDA GX120K1QX2 ENGINE — GASKET KIT ASSY.

GASKET KIT ASSY.

<u>NO.</u>	PART NO.	PART NAME	<u>QTY.</u>	REMARKS
2	06111ZH7405	GASKET KIT	1	INCLUDES ITEMS W/*
3*	11381ZH7800	GASKET, CASE COVER	1	
4*	12251ZH7800	GASKET, CYLINDER HEAD	1	
5*	12391ZE1000	GASKET, CYLINDER HEAD COVER	1	
6*	16212ZH7800	GASKET, INSULATOR	1	
7*	16221ZH8801	GASKET, CARBURETOR	1	
8*	18381ZH8800	GASKET, MUFFLER	1	

HONDA GX120K1QX2 ENGINE — LABELS ASSY.

LABELS ASSY.



HONDA GX120K1QX2 ENGINE — LABELS ASSY.

LABELS ASSY.

<u>NO.</u>	<u>PART NO.</u>	PART NAME	<u>QTY.</u>	REMARKS
1	87521ZH7020	EMBLEM	1	
3	87522ZH9000	LABEL, CAUTION	1	
4	87528ZE1810	MARK, CHOKE	1	
6	87532ZH8810	MARK, OIL ALERT (E)	1	

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Effective: July 15, 2003

TERMS AND CONDITIONS OF SALE — PARTS

Terms and Conditions of Sale

STOW Construction Equipment



PAYMENT TERMS

Terms of payment for unit sales are 2% 15 days net 30 days from date of invoice unless otherwise specifically stated on our invoice. Parts invoices have terms of net 10 days. Minimum parts billing is \$15.00 net.

Applicable discounts will be computed on merchandise value only. Late charges will be assessed at prevailing rates. Cash discounts cannot be taken on current billings if any previously billed amounts are past due.

FREIGHT POLICY

Freight policy is established to offer customers every advantage possible. Due to bulk freight ratings on some equipment and other shipping considerations, freight policies differ by equipment type. Actual back freight may be charged for shipments originating from other than specified FOB warehouses. See Freight Policy for details.

All STOW domestic sales are FOB nearest available designated MQ/STOW warehouse. Export orders are ex-works factory located in Carson, CA or Boise, ID.

Additions to orders already shipped cannot be accepted for freight minimums.

Should STOW elect to make partial shipments of an order originally complying with the "freight allowed" requirements, transportation charges will be absorbed by STOW on any subsequent shipment applying to that order.

All other orders will be shipped collect or prepaid with charges added to the invoice. STOW's responsibility ceases when a signed manifest has been obtained from the carrier, and any claim for shortage or damage must be settled between the consignee and the carrier.

Parts: FOB Carson, California or Boise, Idaho. See Freight Policy for details and additional discounts.

DROP SHIPMENTS

STOW reserves the right to refuse Drop Shipments outside the normal service area of the purchasing dealer.

FIELD WAREHOUSES

Field Warehouses are currently located in California, Georgia, Idaho, Iowa, and New Jersey

SPECIAL EXPEDITING SERVICE

The higher of a \$35.00 surcharge or actual costs will be added to the invoice for special handling, including bus shipments, or in cases where STOW personnel must personally deliver the equipment or parts to the carrier.

RETURNED GOODS POLICY

Return shipments may be accepted and credit allowed, subject to the following provisions.

- 1. A Returned Material Authorization (RMA) must be approved by STOW prior to shipment. Approvals for returned goods must be with just cause and are at the sole discretion of STOW. A copy of the Authorization must accompany the shipment to the designated Warehouse.
- 2. Parts being returned must be listed as currently supplied on the current parts list.
- 3. Parts must be in new and resalable condition in the original package, with part numbers clearly marked.
- 4. Units and accessories must be current models in the latest price list and in new and resalable condition.
- 5. Special order items are not returnable for credit.
- 6. Credit on returned parts and units will be issued at actual dealer net price at time of purchase less 15% restocking charge.
- 7. All returned shipments are to be made to the STOW designated receiving point. freight prepaid at the sender's expense.

The sender will be notified of any material received that does not meet the above provisions. Such material will be held for 30 days from notification pending instructions. If a reply is not received within 30 days, the material will be returned to the sender at his expense with no credit issued.

PRICING. REBATES AND **SPECIFICATIONS**

Every effort will be made to provide adequate notice of changes; however, prices and equipment specifications are subject to change without notice.

Price changes are effective on a specific date and all orders received on or after that date will be billed at the revised price.

Rebates for price reductions and added charges for price increases will not be made for stock in dealer inventory at the time of a price change.

STOW reserves the right to guote and sell direct to Government agencies and to Original Equipment Manufacturer accounts who use our products as integral parts of their own products.

LIMITATION OF SELLER'S LIABILITY

STOW shall not be liable hereunder for damages in excess of the purchase price of the item with respect to which damages are claimed and in no event shall STOW be liable for loss of profit or good will or for any other special, consequential or incidental damages.

LIMITATION OF WARRANTIES

FAX:310-604-9237

There are no warranties, express or implied, made by STOW. hereunder on Products manufactured or distributed by it except the warranty against defects in material and workmanship on new Products to the original purchaser, as set forth in the STOW New Product Limited Warranty.



A DIVISION OF MULTIQUIP INC Atlanta • Boise • Newark • Quebec Canada

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NOTE PAGE

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OPERATION AND PARTS MANUAL

<u>Here's how to get help</u>
PLEASE HAVE THE MODEL AND SERIAL
NUMBER ON-HAND WHEN CALLING
PARTS DEPARTMENT
800-427-1244 FAX: 800-672-7877
310-537-3700 FAX: 310-637-3284
SERVICE DEPARTMENT
800-478-1244 FAX: 310-537-4259
310-537-3700
TECHNICAL ASSISTANCE
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