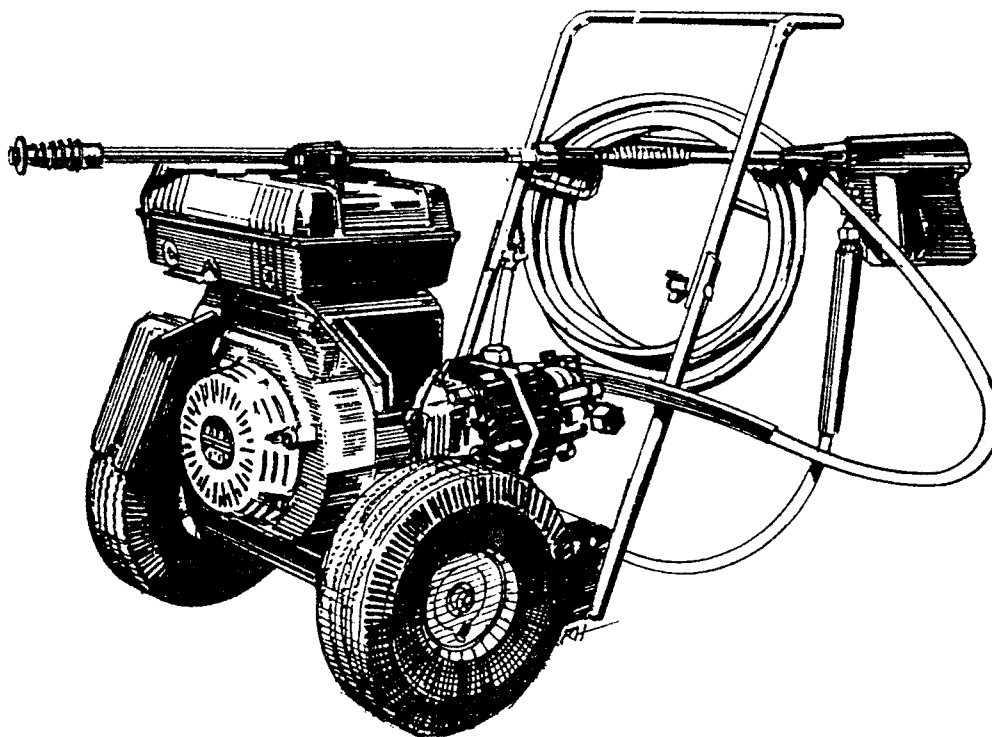


GENERAC 5700CP High Pressure Washer

Owner's Manual
Operating Instructions and Maintenance

GENERAC
5700CP
GENERAC
ENGINE POWERED TOOLS

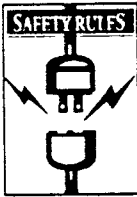
PRESSURE
WASHER
CUSTOMER HELPLINE
1-800-270-1408
HOURS: Mon. - Fri. 8 a.m. to 5 p.m.
(CST)



Model No. 0602-0 (3 gpm High Pressure Washer) Manual No. 99274 (Revision 0 1/29/96)



THIS SYMBOL POINTS OUT IMPORTANT SAFETY INSTRUCTIONS, WHICH, IF NOT FOLLOWED, COULD ENDANGER THE PERSONAL SAFETY AND/OR PROPERTY OF YOURSELF AND OTHERS. READ AND FOLLOW ALL INSTRUCTIONS IN THE MANUAL BEFORE ATTEMPTING TO OPERATE THIS UNIT.



CAUTION: ALWAYS DISCONNECT SPARK PLUG WIRE AND PLACE WIRE WHERE IT CANNOT CONTACT SPARK PLUG, TO PREVENT ACCIDENTAL STARTING WHEN SETTING UP, TRANSPORTING, ADJUSTING OR MAKING REPAIRS TO YOUR HIGH PRESSURE WASHER.

■ TRAINING

- Engine exhaust gases contain DEADLY carbon monoxide gas. This dangerous gas, if breathed in sufficient concentrations, can cause unconsciousness or even death. Operate this equipment only in the open air where adequate ventilation is available.

WARNING:

The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

- Gasoline is highly FLAMMABLE and its vapors are EXPLOSIVE. Do not permit smoking, open flames, sparks or heat in the vicinity while handling gasoline. Avoid spilling gasoline on a hot engine. Allow unit to cool for 2 minutes before refueling. Comply with all laws regulating storage and handling of gasoline.
- Locate this pressure washer in areas away from combustible materials, combustible fumes or dust.
- The high pressure equipment is designed to be used with Sears authorized parts only. If you use this equipment with parts that do not comply with minimum specifications, the user assumes all risks and liabilities.
- Some chemicals or detergents may be harmful if inhaled or ingested, causing severe nausea, fainting or poisoning. The harmful elements may cause property damage or severe injury.
- Do not allow CHILDREN to operate the Pressure Washer at any time.

■ PREPARATION

- Operate engine only at governed speed. Running the engine at excessive speeds increases the hazard of personal injury. Do not tamper with parts which may increase or decrease the governed speed.
- Do not wear loose clothing, jewelry or anything that may be caught in the starter or other rotating parts.
- Before starting the Pressure Washer in cold weather, check all parts of the equipment and be sure ice has not formed there.
- Units with broken or missing parts, or without protective housing or covers should NEVER be operated.
- The muffler and air cleaner must be installed and in good condition before operating the Pressure Washer. These components act as spark arrestors if the engine backfires.
- Check the fuel system for leaks or signs of deterioration such as chafed or spongy hose, loose or missing clamps or damaged tank or cap. Correct all defects before operating the Pressure Washer.

■ OPERATION

- Do not spray flammable liquids.
- Never aim the gun at people, animals or plants.
- High pressure spray can cause paint chips or other particles to become airborne and fly at high speeds.

- Never allow any part of the body to come in contact with the fluid stream. DO NOT come in contact with a fluid stream created by a leak in the high pressure hose.
- High pressure stream of fluid that this equipment can produce can pierce skin and its underlying tissues, leading to serious injury and possible amputation.
- Always wear eye protection when you use this equipment or when you are in the vicinity where the equipment is in use.
- Operate the pressure at no more than the PSI fluid pressure rated for your pressure washer.
- Never move the machine by pulling on the high pressure hose. Use the handle provided on the top of the unit.
- Always be certain the spray gun, nozzles and accessories are correctly attached.
- Never use a spray gun which does not have a trigger lock or trigger guard in place and in working order.
- Use a respirator or mask whenever there is a chance that vapors may be inhaled. Read all instructions with mask so you are certain the mask will provide the necessary protection against inhaling harmful vapors.
- High pressure spray may damage fragile items including glass. Do not point spray gun at glass when in the jet spray mode.
- Keep the hose connected to machine or the spray gun while the system is pressurized. Disconnecting the hose while the unit is pressurized is dangerous.
- Hold the spray gun firmly in your hand before you start the unit. Failure to do so could result in an injury from a whipping spray gun. Do not leave the spray gun unattended while the machine is running.
- The cleaning area should have adequate slopes and drainage to reduce the possibility of a fall due to slippery surfaces.
- Keep water spray away from electric wiring or fatal electric shock may result.
- Do not adjust unloader valve to a pressure in excess of machine rating.
- Do not secure trigger gun in the pull-back (open) position.
- Do not by-pass any safety device on this machine.
- Do not leave trigger closed for more than 5 minutes with engine running. This could damage the pump.
- The muffler and engine heat up during operation and remain hot immediately after shutting it down. Avoid contact with a hot muffler or engine or you could be severely burned.

■ MAINTENANCE AND STORAGE

- Operate and store this unit on a stable surface.
- High pressure hose can develop leaks from wear, kinking, abuse, etc. Water spraying from a leak is capable of injecting material into skin. Inspect hose each time before using it. Check all hoses for cuts, leaks, abrasions or bulging of cover, or damage or movement of couplings. If any of these conditions exist, replace hose immediately. Never repair high pressure hose. Replace it with another hose that meets minimum pressure rating of your pressure washer.



Specifications

CONGRATULATIONS on your purchase of a GENERAC high pressure washer. It has been designed, engineered and manufactured to give you the best possible dependability and performance.

Should you experience any problem you cannot easily remedy, please contact your nearest GENERAC Authorized Service facility, or call the 1-800 number listed on the front of this manual. We have competent, well-trained technicians and the proper tools to service or repair this unit.

Please read and retain this manual. The instructions will enable you to assemble and maintain your high pressure washer properly. Always observe the "SAFETY RULES."

MODEL NUMBER 0602-0

SERIAL NUMBER _____

DATE OF PURCHASE _____

THE MODEL AND SERIAL NUMBERS WILL BE FOUND ON A DECAL ATTACHED TO THE PRESSURE WASHER. YOU SHOULD RECORD BOTH SERIAL NUMBER AND DATE OF PURCHASE AND KEEP IN A SAFE PLACE FOR FUTURE REFERENCE.

CUSTOMER RESPONSIBILITIES

- Read and observe the safety rules.
- Follow regular schedule in maintaining, caring for and using your high pressure washer.
- Follow the instructions under "Maintenance" and "Storage" sections of this Owner's Manual.

PRODUCT SPECIFICATIONS

PRESSURE WASHER SPECIFICATIONS

OUTLET PRESSURE	Adjustable to 1900 psi
FLOW RATE	3 Gallons per minute
DETERGENT MIX	Use undiluted detergent
WATER SUPPLY TEMPERATURE	Not to exceed 140°F
SUCTION HEIGHT	3 FT. maximum

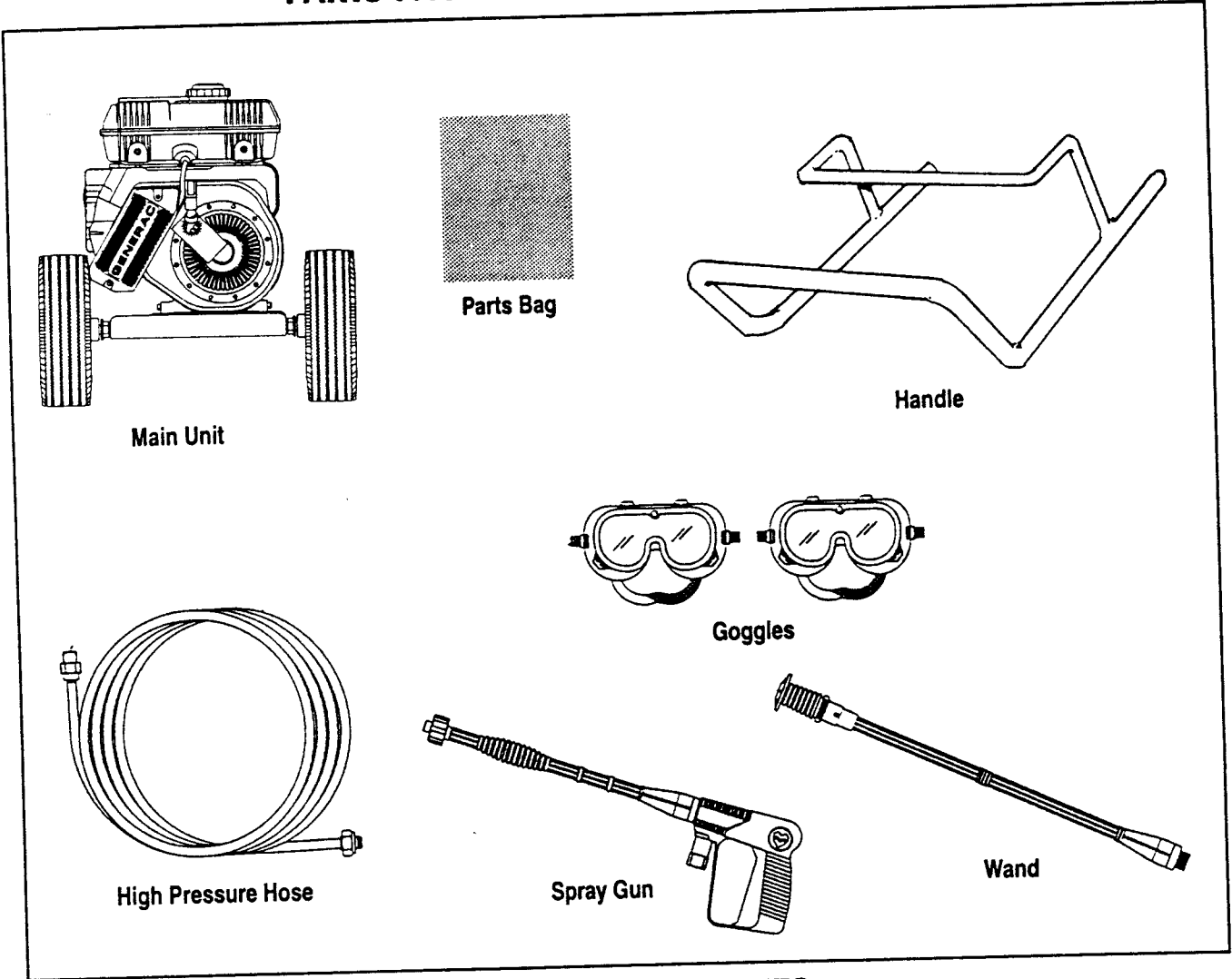
ENGINE SPECIFICATIONS

ENGINE MODEL	GN-Series
RATED HORSEPOWER	6.5
DISPLACEMENT	190cc
SPARK PLUG: Type:	Champion R12YC or equivalent
Set Gap To:	0.030 inch (0.76mm)
GASOLINE CAPACITY	1 U.S. gallon
OIL (20 oz. capacity)	SAE 30 weight
SOLID STATE IGNITION AIR GAP	0.0125 inch

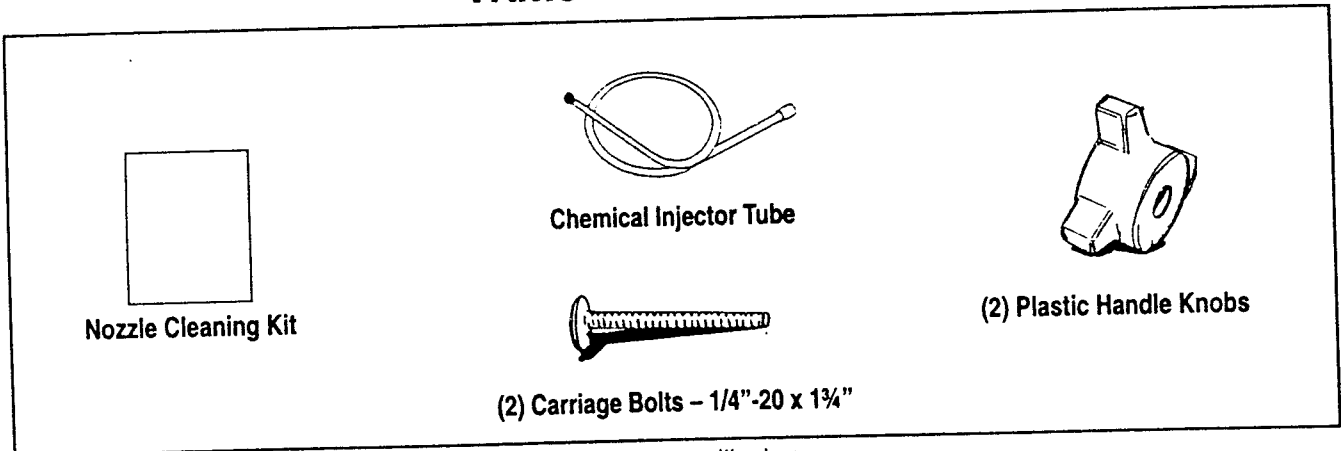
NOTE: The engine of your pressure washer is equipped with a spark arrestor muffler. The spark arrestor must be maintained in effective working order by the owner/operator.

In the State of California a spark arrestor is required by law (Section 4442 of the California Public Resources Code). Other states may have similar laws. Federal laws apply on federal lands.

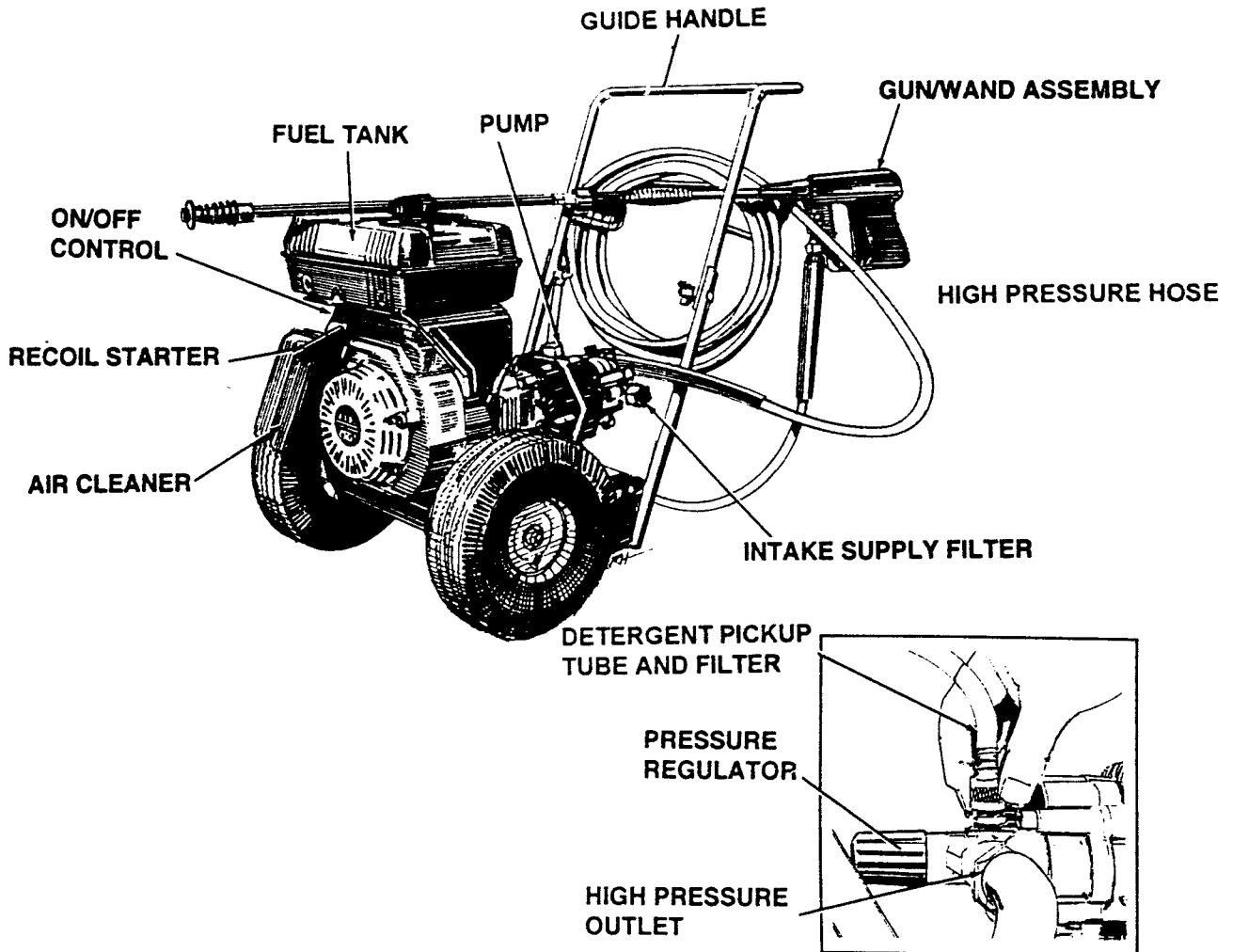
PARTS PACKED SEPARATELY IN CARTON



PARTS BAG CONTENTS



READ THIS OWNER'S MANUAL AND SAFETY RULES BEFORE OPERATING YOUR HIGH PRESSURE WASHER. Compare the illustrations with your high pressure washer to familiarize yourself with the locations of various controls and adjustments. Save this manual for future reference.



PRESSURE REGULATOR — Allows you to adjust the pressure of the outlet stream.

ENGINE ON-OFF CONTROL — Sets engine in starting mode for recoil starter; turns OFF running engine.

AIR CLEANER - Dry type filter element limits the amount of dirt and dust that gets in the engine.

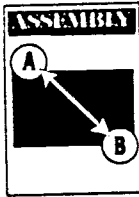
GUN AND WAND ASSEMBLY— Controls the application of water onto cleaning surface with trigger device. Includes safety latch.

INTAKE SUPPLY FILTER — Filters inlet water supply.

DETERGENT PICKUP TUBE AND FILTER — Mixes water and detergent in outlet water flow.

HIGH PRESSURE OUTLET — Connection for high pressure hose.

RECOIL STARTER — Used for starting the engine manually.



Read these instructions and Operator's Manual in its entirety before you attempt to assemble or operate your new high pressure washer. Your high pressure washer has, for the most part, been assembled at the factory. Before you can operate your new high pressure washer, you must attach the guide handle and properly connect the high pressure hose and the water supply.

IF YOU HAVE ANY PROBLEMS WITH THE ASSEMBLY OF YOUR PRESSURE WASHER, PLEASE CALL THE PRESSURE WASHER HELPLINE AT 1-800-270-1408.

■ TOOLS NEEDED

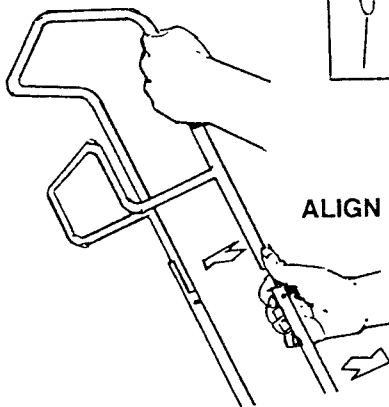
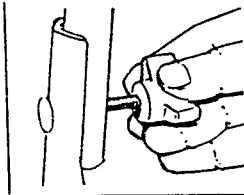
You will need (2) large adjustable wrenches or (2) sets of large pliers OR one adjustable wrench and one set of pliers.

■ TO REMOVE PRESSURE WASHER FROM CARTON

- Remove the guide handle wrapped in plastic.
 - Remove the 50-foot high pressure hose.
 - Remove the two accessories bags and the goggles
- Refer to Page 4, "Contents of Hardware Pack" for an illustrated listing of all the items included with your pressure washer. Become familiar with each piece before assembling the pressure washer. Check all contents against the illustrations on Page 4. If any parts are missing or damaged, call the pressure washer helpline at 1-800-270-1408.

STEP 1 - ATTACH THE GUIDE HANDLE

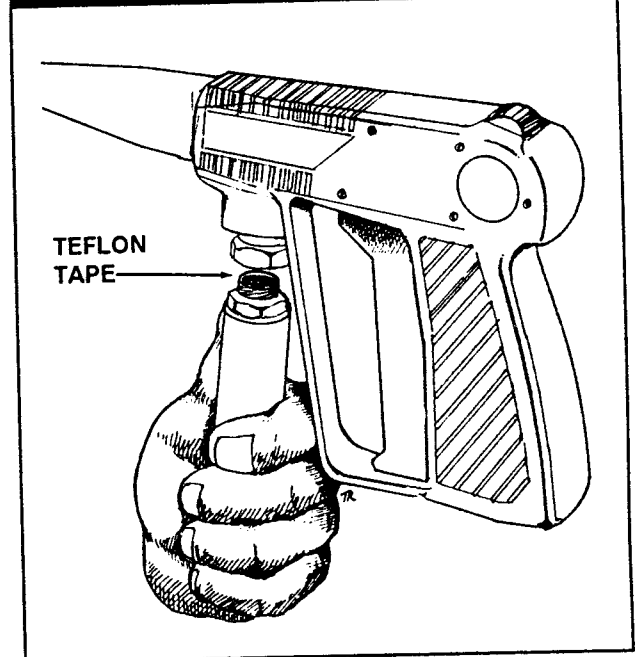
INSERT CARRIAGE BOLTS



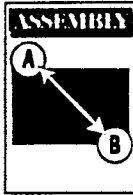
ALIGN HOLES

- Place the guide handle into the slots on the legs already connected to the main unit. Align the holes. Hold one side of the handle as shown in STEP 1 and apply inward pressure with your thumb. This should allow you enough room to slide the handle into the slots and align the holes.
- Insert the carriage bolts through the holes as shown in illustration for Step 1 and attach the plastic knobs. Tighten the knobs by hand.
- Note that one end of the high pressure hose is covered with teflon tape. If tape is not properly applied, reapply it so threads are fully covered. The tape seals the connection from hose to spray gun.

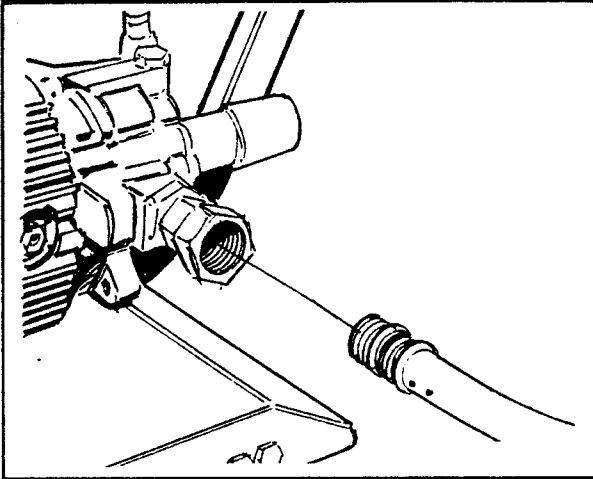
Step 2 — ATTACH HOSE TO GUN



- Attach gun to end of high pressure hose covered with teflon tape. Use two adjustable wrenches to tighten the fitting.



Step 3 — CONNECT GARDEN HOSE TO WATER INLET OPENING



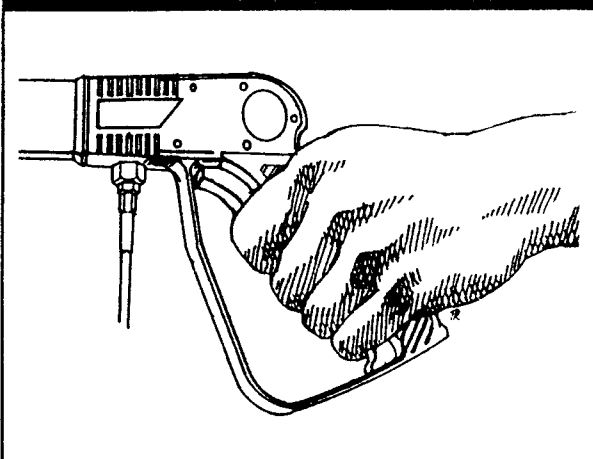
- Check inlet screen to be sure it is not damaged.
- Attach garden hose to the water inlet.
- Check that high pressure hose is attached to pump outlet and spray gun.



CAUTION: You must assemble the spray gun and attach all hoses before you start the engine. Starting the engine without all the hoses connected will damage the pump.

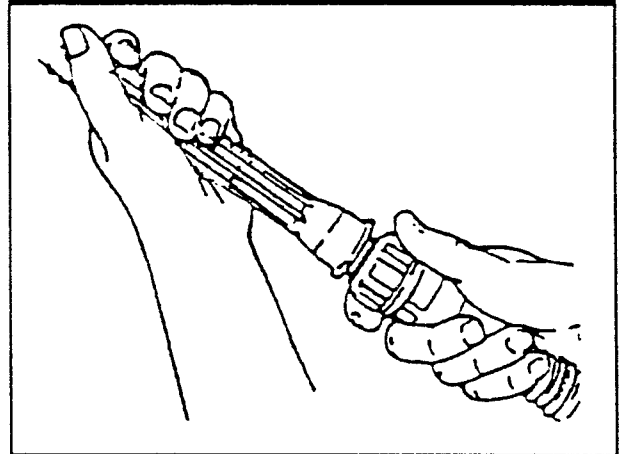
- Turn ON water.

Step 4 — SQUEEZE TRIGGER TO PURGE PUMP SYSTEM OF AIR AND IMPURITIES



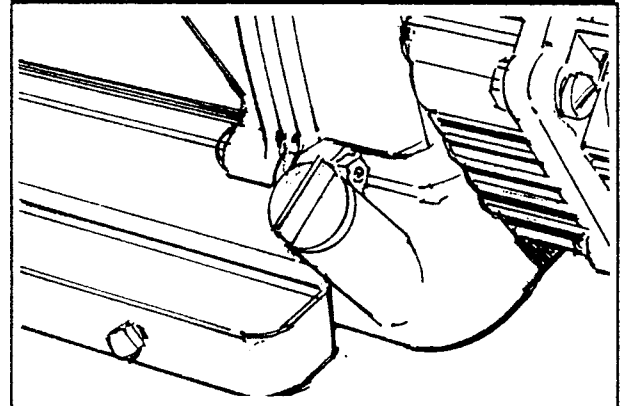
CAUTION: Before starting the pressure washer, be sure you are wearing adequate eye protection. Goggles are included with this unit.

Step 5 — CONNECT NOZZLE EXTENSION TO SPRAY GUN



BEFORE YOU CAN START USING YOUR NEW PRESSURE WASHER, YOU MUST PREPARE THE ENGINE.

Step 6 — ADD OIL TO ENGINE

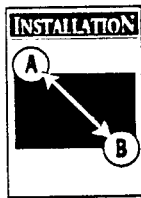


■ ADD ENGINE OIL BEFORE INITIAL START

Remove one of the yellow Oil Fill Caps and add engine oil until oil level is at point of overflowing. Check engine oil level before starting each time thereafter. If oil level is below point of overflowing, fill to proper level.



CAUTION: Any attempt to crank or start the engine before it has been properly serviced with the recommended oil results in an engine failure.



The recommended oils include the following:

- During summer months: SAE 30. SAE 10W-30 is an acceptable substitute.
- During winter months: 5W-30. DO NOT USE 10W-40.

Crankcase oil capacity is about 620ml or about 20 fluid ounces. Use no special additives.

■ STEP 7 — ADD FUEL

Use regular UNLEADED gasoline, and add slowly, to fuel tank. You may also use regular leaded gasoline if UNLEADED is not available. Fuel capacity is one (1) U.S. gallon (4 liters).



CAUTION: Do not overfill the fuel tank. Always allow room in the fuel tank for expansion.

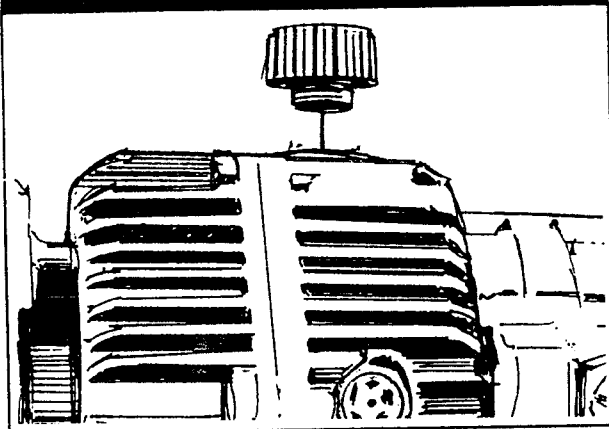


WARNING: NEVER FILL FUEL TANK INDOORS. NEVER FILL FUEL TANK WHEN ENGINE IS RUNNING OR HOT. DO NOT SMOKE WHEN FILLING FUEL TANK.

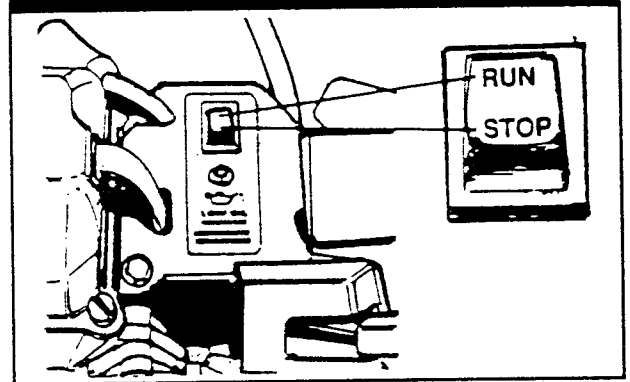
The pump is supplied complete with oil, but before you use the pressure washer, you must remove the red cap from the oil fill hole on the pump and insert the Oil Breather Cap into the pump (Step 8).

Check that the oil level is correct at the oil lever window. If you need to add oil, use 80W-90 Gear Lube.

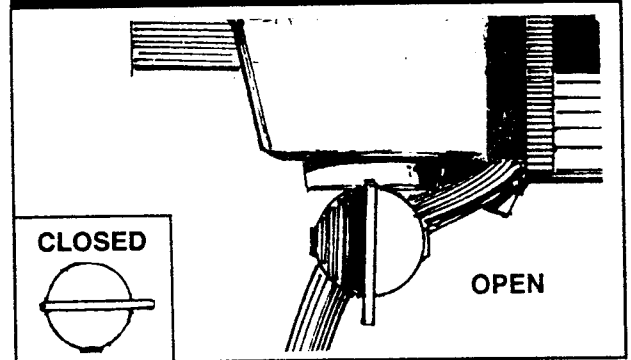
Step 8 — INSTALL OIL BREATHER CAP INTO WATER PUMP



Step 9 — PLACE ENGINE RUN-STOP SWITCH TO "RUN" POSITION.

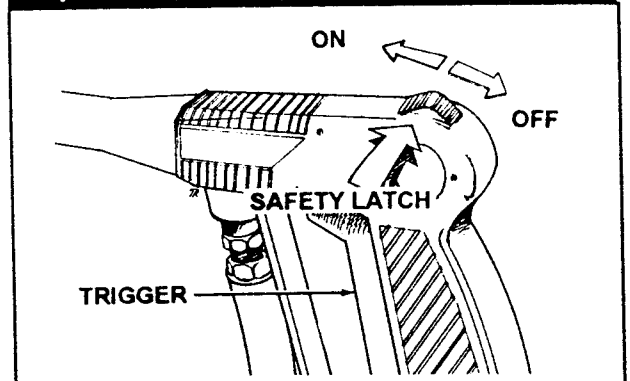


Step 10 — OPEN FUEL SHUT-OFF VALVE



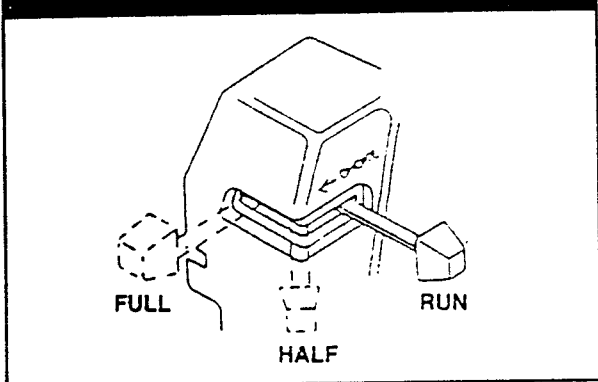
NOTE: The spray gun includes a SAFETY LATCH that allows you to prevent trigger acutation. Use it after the engine is started to prevent the washer from inadvertently spraying while you prepare chemical application or perform other tasks.

Step 11 — SET SAFETY LATCH ON GUN HANDLE





Step 12 — FOR COLD ENGINE, MOVE LEVER TO FULL CHOKE POSITION



- For warm engine, move choke lever to half choke or "RUN" position.
- Press trigger on pressure washer gun.
- Grasp engine starter recoil handle and pull once.
- When engine starts, move choke lever to RUN position. If engine fails to start, move choke lever to RUN position and pull starter rope (2 pulls max.)
- If engine still fails to start, move choke lever to FULL position, press trigger on pressure washer gun and pull starter recoil handle once.



CAUTION: Do not run pump without water supply connected. Do not allow pump to run for more than 5 minutes without pulling the trigger on spray gun. If not in use for more than 5 minutes without pulling trigger, relieve pressure and shut off unit. You must follow this caution or the pump will be damaged.

STOPPING YOUR PRESSURE WASHER

- First move engine RUN-STOP switch to STOP position.
- **Simply shutting OFF engine will not release pressure in the system.** When engine has shut down, pull the trigger on the gun to relieve the pressure in the hose.

HOW TO USE YOUR WASHER

You now should know how to START your pressure washer and how to STOP it. The information in this section will tell you how to adjust the spray pattern and apply detergent or any other cleaning chemicals.

■ HOW TO USE ADJUSTABLE NOZZLE



WARNING: NEVER ADJUST SPRAY PATTERN WHEN SPRAYING. NEVER PUT HANDS IN FRONT OF SPRAY NOZZLE TO ADJUST SPRAY PATTERN. YOU COULD BE INJURED.

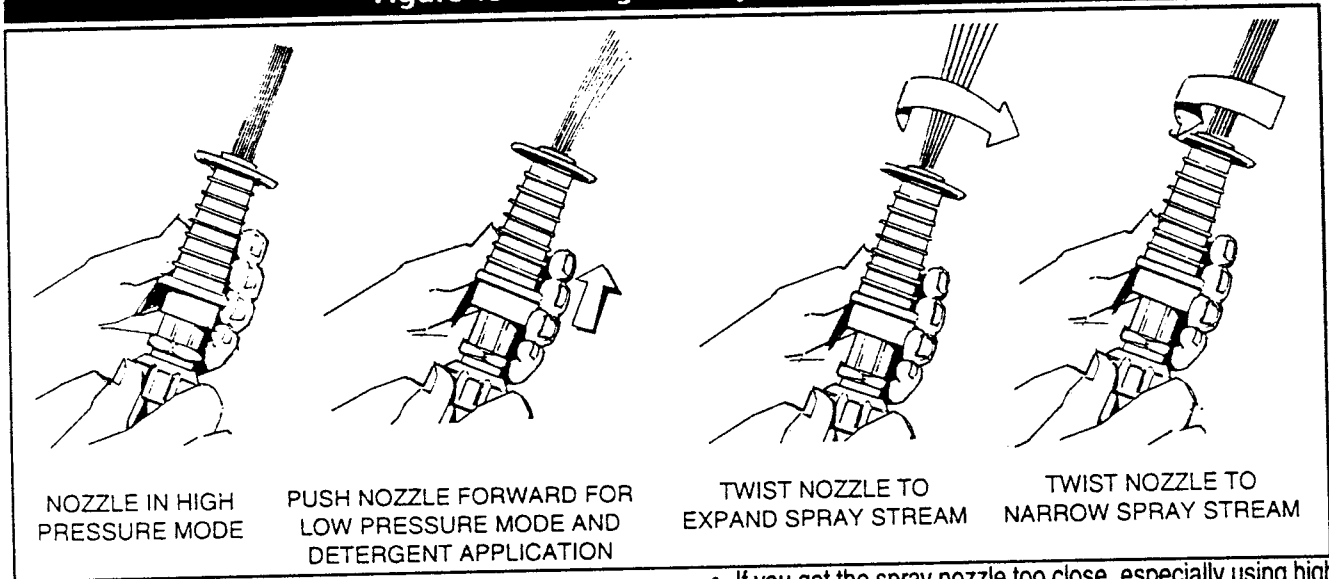
ON COIN-OPERATED TYPE PRESSURE WASHERS IF YOU WANT TO CHANGE THE SPRAY FORCE, YOU EITHER PRESS A BUTTON OR TURN A DIAL.

YOUR ENGINE-POWERED PRESSURE WASHER HAS NO BUTTONS TO PUSH OR DIALS TO TURN.

On the end of your spray gun is a nozzle that you can slide forward and backward and that you can also twist from side to side. This adjustable nozzle takes the place of buttons or dials. With the adjustable nozzle you can adjust the spray pattern to be either high pressure or low pressure. You can also adjust the spray so it is concentrated in a stream pattern or expanded into a fan pattern. Use this nozzle to apply detergent.

- Slide the nozzle forward when you wish to adjust the spray to low pressure mode (Fig. 13 on Page 10). Slide the nozzle backward to achieve high pressure.
- Point the nozzle toward the ground and press the trigger to test the pattern (Fig. 14 on Page 10).

Figure 13 — Using the Adjustable Nozzle



- If you get the spray nozzle too close, especially using high pressure mode, you may damage the cleaning surface.
- Do not get closer than 6 inches when cleaning automobile tires.

Figure 14 — Testing the Spray Pattern

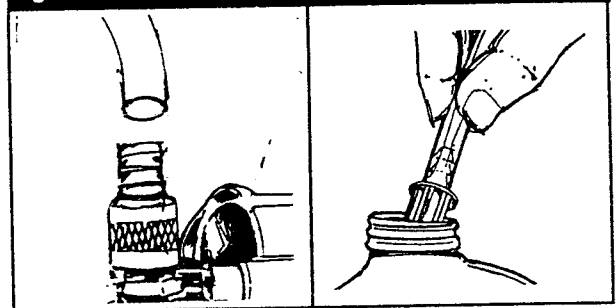


- Twisting the nozzle adjusts the spray pattern from a narrow stream to an expanded stream.
- For most effective cleaning, keep spray nozzle between 8 to 24 inches of cleaning surface.

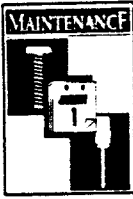
■ INJECTING CLEANING AGENTS

1. If you use a detergent or wax, connect the clear plastic tube into the injector fitting on the pump (Fig. 15). Then place the small filter in the detergent container.

Figure 15 — Setting up Chemical Injector System



CAUTION: Keep the plastic injector tube from coming in contact with the hot muffler. This will damage the plastic tube. When inserting the filter into a cleaning agent bottle, route the tube so as to keep it from inadvertently contacting the hot muffler.



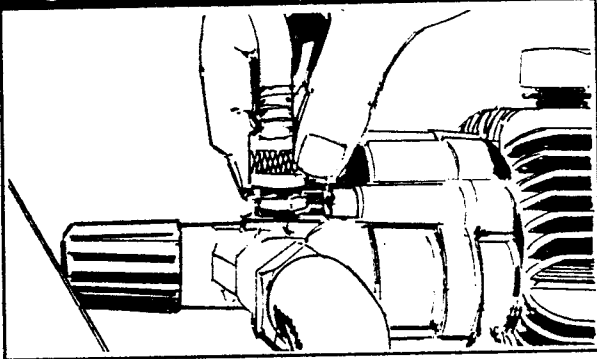
NOTE: You can order multi-purpose cleaner/degreaser (Part #88181); car wash detergent (Part #88182); and car wax (Part #88183) from Generac. See your Dealer/Distributor.



CAUTION: Use soaps designed specifically for pressure washers. Household detergents could damage the pump.

2. Set nozzle to low pressure. Be sure to use the LOW PRESSURE mode when applying detergent or wax. Refer to "ADJUST NOZZLE" diagram.
3. Press trigger.
4. Adjust knob on injector (Fig. 16) for concentration of detergent-to-water that you want for your cleaning job.

Figure 16 — Adjusting Chemical Concentration



NOTE: Wash your hands after they come in contact with the Generac detergents and cleaning agents.

■ TO CLEAN

Start at lower portion of area to be washed and work upward, using long, even overlapping strokes. Detergent or degreaser works best when you apply it to a dry surface first. Let it set for 3-5 minutes before washing and rinsing.

■ RINSE

Push the nozzle sleeve to high pressure and wait for detergent to clear. Start at the top of area to be rinsed, working down with the same action as for cleaning.

NOTE: Never use garden hose inlet to siphon detergent or wax.

■ TO STOP

If you have used chemical injector hose you must flush it with clean water before stopping the engine. Place the injector filter into a pail of clear water while running Pressure Washer with nozzle in low pressure mode. Flush for five minutes.

1. To shut off the pump, move Engine RUN-STOP Switch to STOP position.
2. Simply shutting OFF engine will not release pressure in the system. When engine has shut down, pull the trigger on the gun to relieve the pressure in the hose.

■ PRESSURE WASHER ACCESSORIES

- Cleaning Agents: Multipurpose Detergent (order #88181); Car Wash (order #88182); Car Wax (order #88183)
- Turbo Nozzle (order #90580)
- Rotating Brush Kit (order #89080)
- Under Body Lance (order #89076)
- Utility Brush Kit (order #89079)
- 50-foot Hose Extension (order #92500)

PREPARING THE UNIT FOR STORAGE

Water should not remain in the unit for long periods of time. Sediments of minerals can deposit on pump parts and "freeze" pump action. If you do not plan to use the Pressure Washer for more than 30 days, follow this procedure:

1. Flush detergent hose by placing the injector filter into a pail of clear water while running Pressure Washer with nozzle in low pressure mode. Flush for five minutes.
2. Shut off the engine and let it cool, then remove all hoses.
3. Place engine RUN-STOP Switch in STOP position.

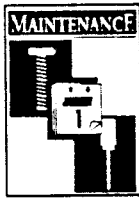


CAUTION: Be sure switch is in "STOP" position before you continue. If you start engine without proper water supply connected, you can damage pump.

4. Empty the pump of all pumped liquids by pulling recoil handle about 6 times. This should remove most of the liquid in the pump.

NOTE: To protect unit from freezing temperatures, draw windshield washer fluid into pump by pouring windshield washer fluid into a 3-foot section of garden hose connected to inlet adaptor and pulling recoil handle twice.

5. Store in a clean, dry area.



ENGINE PREPARATION



WARNING: NEVER STORE ENGINE WITH FUEL IN TANK INDOORS OR IN ENCLOSED, POORLY VENTILATED AREAS WHERE FUMES MAY REACH AN OPEN FLAME, SPARK OR PILOT LIGHT AS ON A FURNACE, WATER HEATER, CLOTHES DRYER OR OTHER GAS APPLIANCE.

Use a fuel additive such as STA-BIL, or an equivalent, to prevent gum deposits from forming in the engine's fuel system.

NOTE: If you did use "gasohol", run engine until engine stops from lack of fuel.

- While engine is still warm, drain oil from crankcase. Refill with fresh oil. See "PREPARING WASHER FOR FIRST USE" for oil recommendations.
- Remove spark plug and pour about 1/2 ounce (15ml) of engine oil into the cylinder. Cover spark plug hole with rag. Crank slowly to distribute oil.



CAUTION! Avoid spray from spark plug hole when cranking engine slowly.

- Install spark plug. Do not connect spark plug wire.

ENGINE MAINTENANCE

CHECKING OIL LEVEL

See "PREPARING WASHER FOR FIRST USE" for information on checking oil level. Oil level should be checked prior to each use or at least every eight hours of operation. Keep oil level maintained.

CHANGING OIL

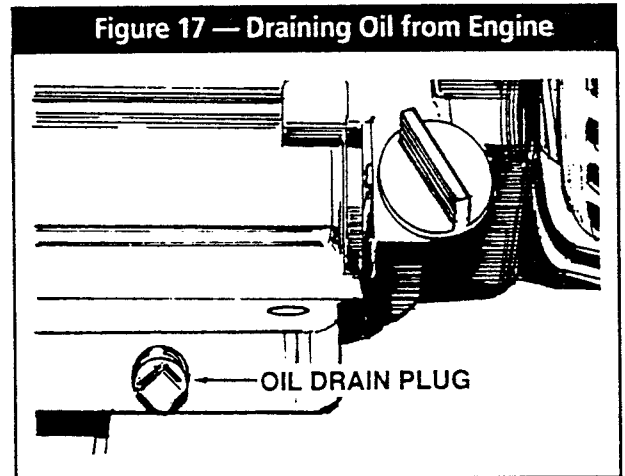
Change oil after first 8 hours of operation. Change oil every 50 hours thereafter. If you are using your pressure washer under extremely dirty or dusty conditions, or in extremely hot weather, change oil more often.

Change oil while engine is still warm, as follows:



CAUTION: Disconnect spark plug wire from spark plug and keep it away from spark plug.

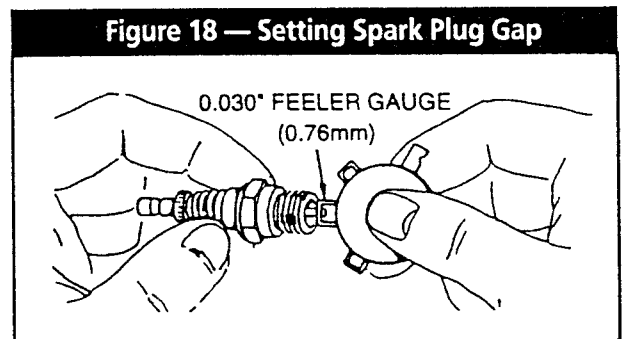
1. Clean area around oil drain plug, remove plug and drain oil completely into a suitable container (Figure 17).

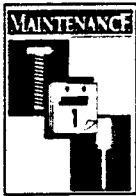


2. When all oil has drained, install and tighten oil drain plug.
3. Remove oil fill plug and insert a clean fill funnel into plug opening. Fill engine crankcase with recommended oil until oil level is at point of overflowing. Do not overfill above that mark. About 21 ounces is required. **POUR SLOWLY.**
4. When engine crankcase is filled to proper level, install and tighten oil fill plug.

REPLACE SPARK PLUG

Change the spark plug every 100 hours of operation or once each year, whichever comes first. This will help your engine to start easier and run better. Replace with Champion RC12YC or equivalent type spark plug. Set spark plug gap (Figure 18) to 0.030 inch (0.76mm).





■ SERVICE AIR CLEANER

Your engine will not run properly and may be damaged if you run it using a dirty air cleaner.

Clean or replace the air cleaner paper filter once every 25 hours of operation or once a year, whichever comes first. Clean or replace more often if operating under dusty or dirty conditions. Clean foam pre-filter every 25 hours of operation or sooner under dusty conditions.

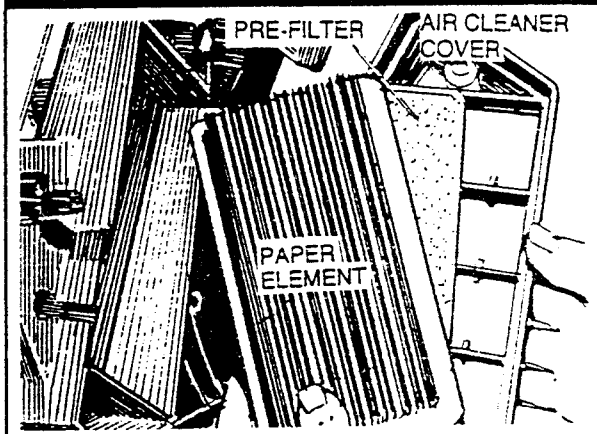


CAUTION: Never run this unit without the complete air cleaner system installed on the engine. This could result in premature wear to the engine.

To clean or replace foam pre-cleaner:

1. Remove air cleaner cover, then foam pre-cleaner (Figure 19).

Figure 19 — Removing Pre-filter and Air Filter



2. Wash pre-filter in soap water. Squeeze pre-cleaner dry in clean cloth (DO NOT TWIST). Saturate pre-cleaner in clean engine oil and then wrap pre-cleaner in clean dry cloth to squeeze out excess oil (DO NOT TWIST).
3. Clean air cleaner cover before installing it.

TO CLEAN OR REPLACE PAPER AIR FILTER:

1. Remove air cleaner cover; then remove foam pre-filter (service if necessary) and remove paper filter.
2. Clean air filter by tapping it gently on a solid surface. If the filter is too dirty, replace it with a new one. Dispose of the old filter properly.
3. Clean air cleaner cover then insert pre-filter into cover. Next insert new paper filter into cover to hold pre-filter in place and assemble all of them to base of air cleaner.

■ ENGINE ACCESSORIES

- Service Kit [includes air cleaner, spark plug, wrench, screw driver and fuel additive] (order #84684)
- Air Filter (order #84892)

■ CLEAN SPARK ARRESTOR SCREEN

The engine exhaust muffler has a spark arrestor screen. Inspect and clean the screen every 100 hours of operation or once each year, whichever comes first.



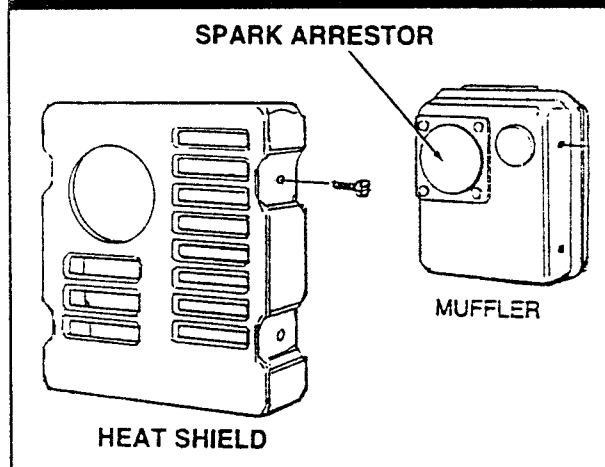
WARNING: LET THE MUFFLER COOL BEFORE WORKING ON IT. CONTACT WITH A HOT MUFFLER OR ENGINE CAN CAUSE SEVERE BURNS.

NOTE: If you use your pressure washer on any forest-covered, brush-covered or grass-covered unimproved land, it must have a spark arrestor. The spark arrestor must be maintained in good condition by the owner/operator.

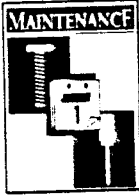
Clean and inspect the spark arrestor as follows:

1. To remove the muffler guard from the muffler, remove the three screws that connect the guard to the muffler bracket (Figure 20).

Figure 20 — Removing Muffler Guard and Spark Arrestor



2. Remove four screws that attach the spark arrestor screen.
3. Inspect screen and replace if torn, perforated or otherwise damaged. **DO NOT USE** a defective screen. If screen is not damaged, clean it with commercial solvent.
4. Reattach the screen and the muffler guard.



PUMP MAINTENANCE

■ PURGE PUMP OF AIR AND CONTAINMENTS

To remove the air from the pump, follow these steps:

- Set up the pressure washer as described in the ASSEMBLY section and connect the water supply.
- Remove the nozzle attachment from the gun.
- Pull the trigger on the gun and hold.

To remove the containments from the pump, follow these steps:

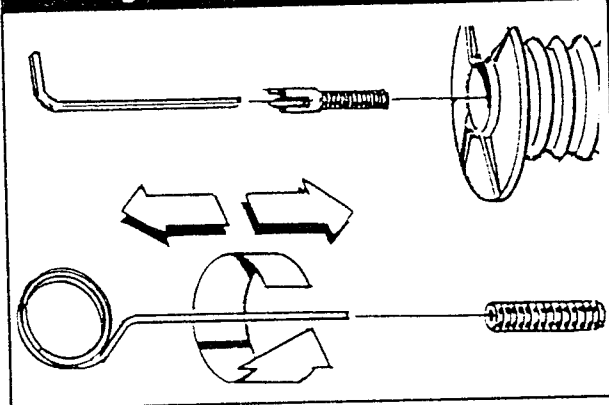
- Set up the pressure washer as described in the ASSEMBLY section, connect the water supply and start the engine according to instructions in the OPERATION section.
- Remove the nozzle attachment from the gun.
- Pull the trigger on the gun and hold.
- When the water supply is steady and constant, you may refasten the nozzle attachment and start the pump.

■ NOZZLE MAINTENANCE

If the nozzle becomes restricted or clogged with foreign materials, such as dirt, excessive pump pressure may develop. A partially clogged nozzle can cause a pulsing sensation during use. This generally is not a pump related problem, but rather a clogged or partially restricted nozzle. If the nozzle becomes clogged or partially restricted, immediately clean the nozzle with the kit included with your pressure washer by following these instructions:

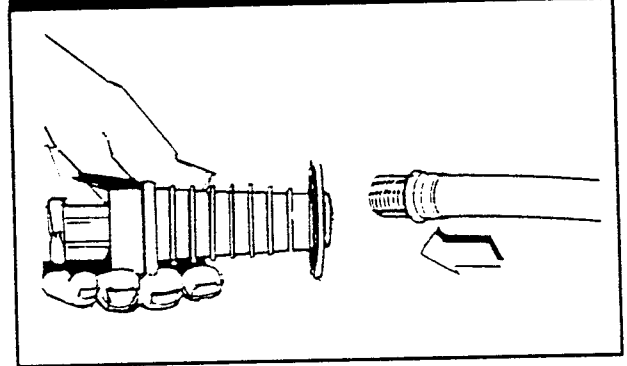
- Shut off the engine and turn off the water supply.
- Separate the wand from the gun.
- Remove nozzle from the end of the wand using a 2mm or 5/64 allen wrench (like the one included in the kit).
- Use the wire included in the kit (Fig. 21) or a small paper clip to free the foreign materials clogging or restricting the nozzle.

Figure 21 — Free Foreign Materials



- Remove additional debris by back flushing water supply through wand (Fig. 22). Back flush between 30 to 60 seconds. Turn wand to stream spray and move nozzle from low to high while flushing.

Figure 22 — Back Flush Water



- Reinstall nozzle into the wand. DO NOT overtighten.
- Reconnect the wand to the gun
- Reconnect the water supply, turn on the water, and start the engine.
- Test the pressure washer by operating with nozzle in the high and in the low position.

LOW OIL PRESSURE SHUTDOWN SYSTEM

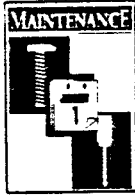
The engine is equipped with a low oil pressure sensor that shuts down the engine automatically when the oil pressure drops below 6 psi. If the engine shuts down by itself and the fuel tank has enough gasoline, check engine oil level.

■ INITIAL STARTUP

A delay built in the shutdown system allows oil pressure to build during starting. The delay allows the engine to run for about 10 seconds before sensing oil pressure.

■ SENSING LOW PRESSURE

If the system senses low oil pressure during operation, the engine shuts down. As the system shuts down, the low oil light comes ON. However, once the engine has stopped rotating, this light will go OFF.



■ RESTARTING

If you try to restart the engine within 5 seconds after it shuts down, the engine may NOT start. The system needs 5 to 10 seconds to reset.

If you do restart the engine after such a shutdown and have not corrected the low oil pressure, the engine runs for about 10 seconds as described above and then stops.

SERVICE AND ADJUSTMENTS

■ ENGINE SPEED



CAUTION: Engine speed was properly adjusted at the factory and should require no additional adjustment. Do not attempt to change engine speed. If you believe the engine is running too fast or too slow, take your pressure washer to authorized service center for repair and adjustment. **CHANGING ENGINE GOVERNED SPEED WILL VOID ENGINE WARRANTY.**

Your pressure washer runs at a constant speed. This constant operating speed is maintained by a mechanical, flyweight type, fixed speed governor. **DO NOT** try to adjust the governed speed setting for the following reasons:

- High engine speeds are dangerous and increase the risk of personal injury or damage to equipment.
- Low engine speeds impose a heavy load on the engine when sufficient engine power is not available and may shorten engine life.

■ ADJUSTING THE CARBURETOR

The carburetor of your pressure washer is pre-set at the factory. The carburetor should not be tampered with. If your pressure washer is used at an altitude above 5,000 feet, consult your Generac service facility regarding high altitude jetting changes.



TROUBLESHOOTING POINTS

PROBLEM

Pump has following problems:
failure to produce pressure, erratic pressure, chattering, loss of pressure, low water volume.

CAUSE

1. Nozzle in low pressure mode.
2. Low regulator pressure
3. Water inlet is blocked.
4. Inadequate water supply
5. Inlet hose is kinked or leaking
6. Clogged inlet hose strainer.
7. Detergent line is not submerged.
8. Water supply is over 140°F.
9. Outlet hose is blocked or leaks.
10. Gun leaks.
11. Nozzle is obstructed.
12. Pump is faulty.

CORRECTION

1. Pull nozzle backward for high pressure mode.
2. Adjust regulator to desired setting.
3. Clear inlet
4. Provide adequate water flow.
5. Straighten inlet hose, patch leak.
6. Check and clean inlet hose strainer.
7. Submerge detergent line.
8. Provide cooler water supply.
9. Clear blocks in outlet hose.
10. Replace gun.
11. Clear nozzle.
12. Contact Generac service facility.

Detergent fails to mix with spray.
gent.

1. Detergent line is not submerged.
2. Chemical filter is clogged.
3. Nozzle is in high pressure mode.
4. Chemical adjuster is closed.

1. Insert chemical line into detergent.
2. Clean or replace filter/detergent line.
3. Push nozzle forward for low pressure mode.
4. Open chemical adjuster.

Engine runs good at no-load but bogs
when load is added.

Engine speed is too slow.

Contact Generac service facility.

Engine will not start; or starts
and runs rough

1. Low oil level
2. Dirty air cleaner
3. Out of gasoline.
4. Stale gasoline.

1. Fill crankcase to proper level.
2. Clean or replace air cleaner.
3. Fill fuel tank.
4. Drain gas tank; fill with fresh fuel.



TROUBLESHOOTING POINTS

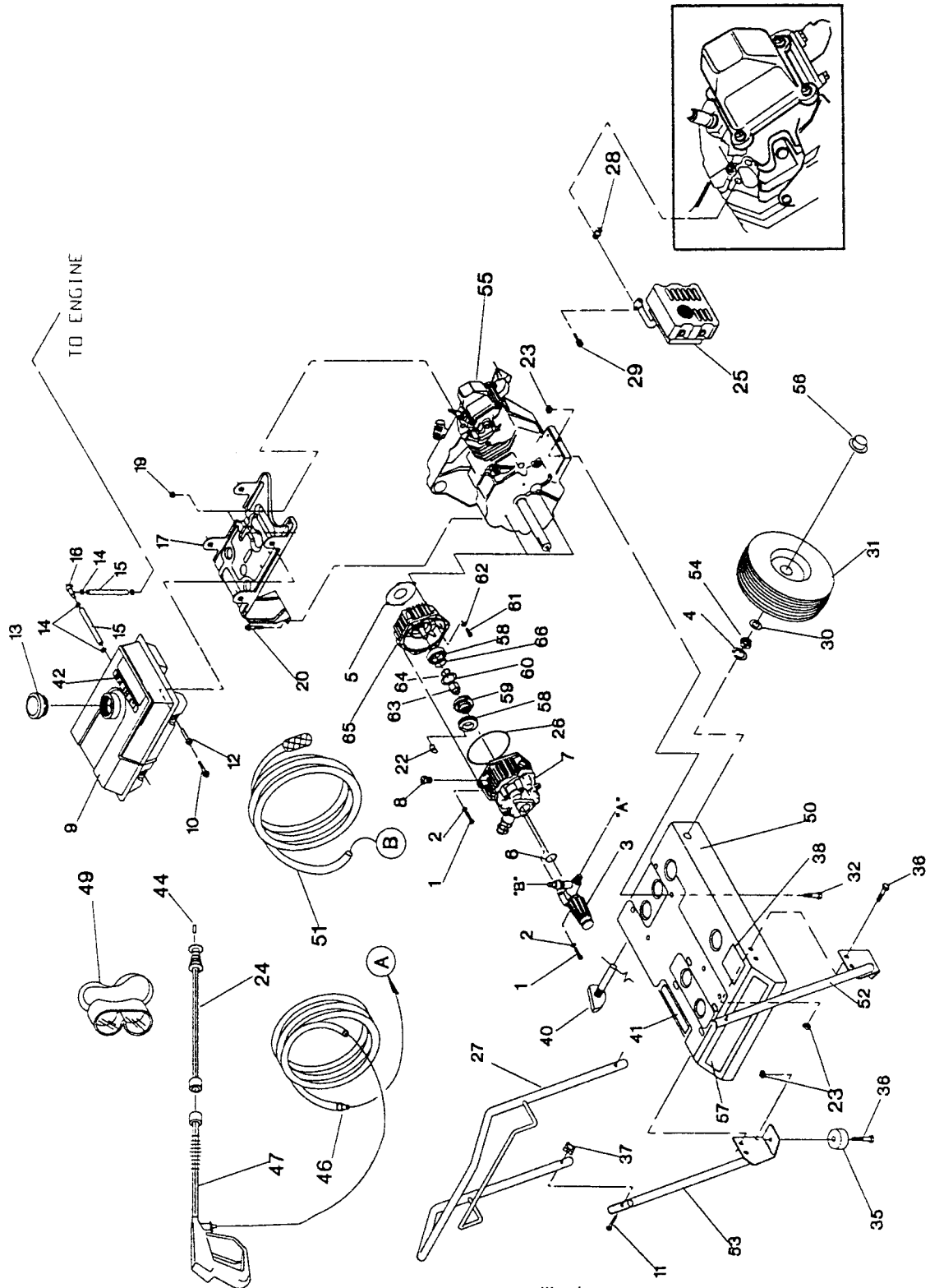
PROBLEM

CAUSE

CORRECTION

	<ul style="list-style-type: none">5. Spark plug wire not connected to spark plug6. Bad spark plug.7. Water in gasoline.8. Overchoking. 9. Excessively rich fuel mixture.10. Intake valve stuck open or closed.11. Engine has lost compression.	<ul style="list-style-type: none">5. Connect wire to spark plug.6. Replace spark plug.7. Drain gas tank; fill with fresh fuel.8. Open choke fully and crank engine.9. Contact Generac service facility.10. Contact Generac service facility.11. Contact Generac service facility.
Engine shuts down during operation	<ul style="list-style-type: none">1. Out of gasoline.2. Low oil level.	<ul style="list-style-type: none">1. Fill fuel tank.2. Fill crankcase to proper level.
Engine lacks power.	Dirty air filter.	Replace air filter.
Engine "hunts" or falters.	Choke is opened too soon. until engine runs smoothly.	Move choke to halfway position

EXPLODED VIEW — PRESSURE WASHER

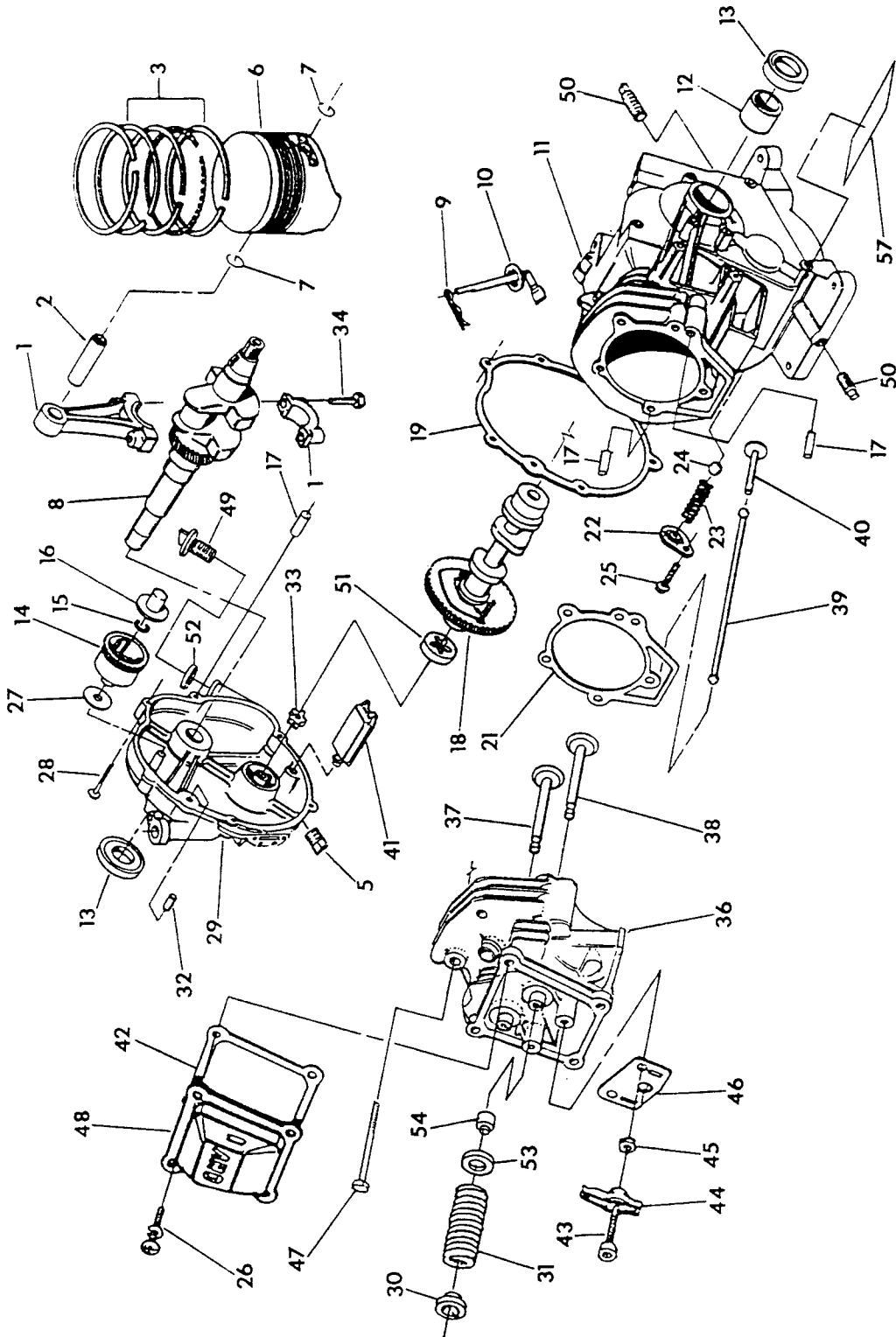


High Pressure Washer

REPAIR PARTS — PRESSURE WASHER

ITEM	PART NO.	QTY.	DESCRIPTION
1	40945	9	M6-1 x 20 Socket Head Capscrew
2	93873	9	M6 Ribbed Lock Washer
3	95212A	1	Unloader Assembly
4	22246	2	Lock Washer
5	93871	1	Engine Adaptor Gasket
6	93723	1	2.0 x 25 x 2.6 O-Ring
7	95319A	1	1500 - 2000 Pump Assembly
8	95454	1	Oil Breather Fill Cap
9	94994A	1	1-1/2 Gallon Fuel Tank
10	96001	4	M6-1.0 x 21 Shoulder Bolt
11	31669	2	1/4-20 x 1-3/4 Carriage Bolt
12	96002	4	Tank Bushing
13	90878	1	Fuel Cap
14	48031C	4	Hose Clamp
15	30340	1	1/4" I.D. Fuel Hose
16	96193	1	Fuel Shut-Off Valve
17	95214	1	220 Fuel Tank Cradle
19	52857	2	M6-1.0 Locking Nut
20	83512	2	M8-1.25 x 15mm Tapitite
22	94944	3	Pivot Piston Shoe
23	52858	10	M8 Locking Hex Nut
24	98539E	1	1.30 Dia. Nozzle Head
25	88688	1	Muffler Assembly
26	93790	1	114 x 119 x 2.6 O-Ring
27	98696	1	Handle
28	89476	1	Exhaust Gasket
29	40976	2	M8 x 20 Socket Head Capscrew
30	49808	2	M12 Flat Washer
31	88521	2	10 Dia. -4 Wide Wheel
32	39414	4	M8 x 35 Hex Head Capscrew
35	87841	2	Vibration Mount
36	39253	6	M8 x 20 Hex Head Capscrew
37	97178	2	Knob Handle
38	96414	1	Important Decal
40	93728A	2	Pin-Wheel Axle
41	96514	1	Caution Decal (English)
42	96685	1	Caution Decal (Spanish)
44	99731	1	1.30 Dia. Replacement Nozzle
46	89634	1	50 Ft. Hose
47	97633	1	Gun
49	87815	2	Safety Goggles
50	96963	1	Mounting Base
51	92550	1	Injection Hose Assembly (Replacement)
52	98698A	1	Tube Support Assembly - R.H.
53	98698B	1	Tube Support Assembly - L.H.
54	25391	2	Jam Nut
55	ENG96256	1	Generac Engine
56	75402	2	.50 Dia. Push Nut
57	98822	1	Logo Decal
58	96542	2	Roller Thrust Bearing
59	96865	1	8mm Axial Cam Lift
60	97570	1	Thrust Washer
61	23707	4	5/16"-24 x 1" Socket Head Capscrew
62	92479	4	M8 Ribbed Lock Washer
63	95435	1	Hex Shaft Adaptor
64	95524	1	Washer Retainer
65	96430Z	1	Anodized Eng. Adaptor
66	97675	1	C-Ring

EXPLODED VIEW — LONG BLOCK

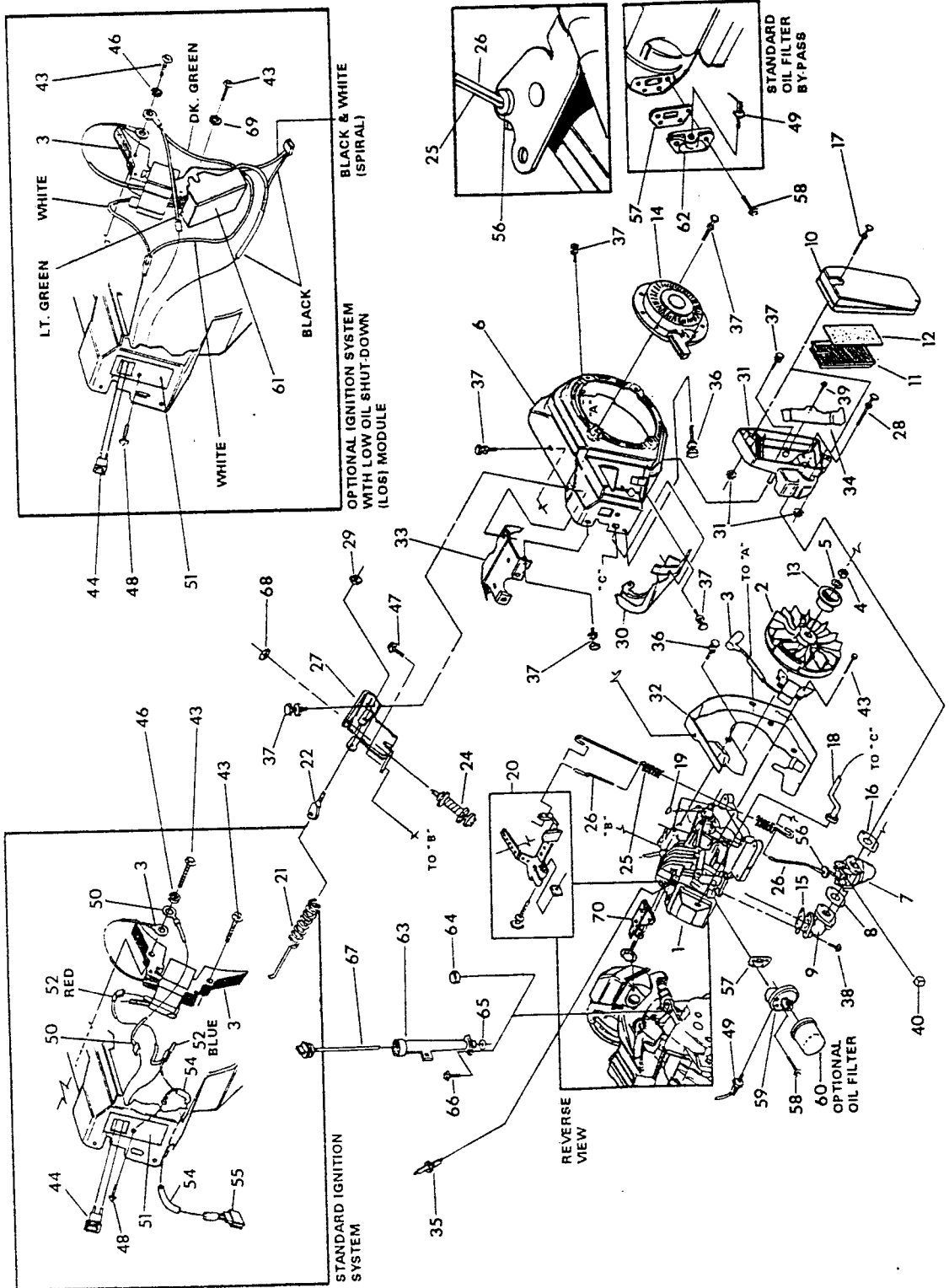


High Pressure Washer

REPAIR PARTS — LONG BLOCK

ITEM	DESCRIPTION	PART NO.	QTY.
1	Connecting Rod w/Cap	76380	1
2	Piston Pin	76389	1
3	Piston Ring Set	78660	1
5	1/8" NPFT Pipe Plug	72683	1
6	Piston	90325	1
7	Piston Pin Retainer	76390	2
8	Crankshaft Assm. w/Gear (Generac Straight Shaft)	83338	1
	Crankshaft Assm. w/Gear (Universal Taper)	83337	1
	Crankshaft Assm. w/ Gear (SAE Straight Shaft)	83339	1
9	Governor Arm "R" Pin	78658	1
10	Governor Arm	76354	1
11	Crankcase Sub-Assembly	892138	1
12	Sleeve Bearing	76349	1
13	Crankshaft Seal	81695	2
14	Governor Gear Assembly	76359	1
15	Governor Retainer ("C" Ring)	78645	1
16	Governor Spool	76365	1
17	Sleeve Dowel Ø 12	78699B	3
18	Camshaft Assembly	83335	1
19	Crankcase Gasket	89096	1
21	Cylinder Head Gasket	88058	1
22	Oil Pressure Spring Retainer	78691	1
23	Oil Pressure Spring	76367	1
24	Pressure relief Ball	76362	1
25	M5-0.80 x 8mm Screw	78692	1
26	M6-1.00 x 12mm Pan Head Screw & Lock Washer	78606	4
27	Thrust Washer	76361	1
28	Flanged Hex Head Capscrew	89230	6
29	Gear Cover Sub-Assembly	89665A	1
30	Valve Spring Retainer	86293	2
31	Valve Spring	88401	2
32	12 Dia. x 20 Long Dowel Pin	88590	1
33	Inner Gerotor	83152	1
34	Connecting Rod Bolt	76381	2
35	Governor Arm Washer	78659	1
36	Cylinder Head w/Valve Seats & Guides	88404B	1
37	Exhaust Valve	90082	1
38	Intake Valve	90081	1
39	Push Rod	88396A	2
40	Tappet	83235	2
41	Oil Pick-up Assembly	80336	1
42	Rocker Cover Gasket	88397	1
43	Pivot Ball Stud	77161	2
44	Rocker Arm	77160	2
45	Rocker Arm Jam Nut	76307	2
46	Push Rod Guide Plate	88403	1
47	M8 x 50mm Head Bolt	77168	5
48	Rocker Cover Breather Assembly	88412	1
49	Oil Fill Plug	76329	1
50	1/4" NPT Pipe Plug	72657	2
51	Outer Gerotor - 6/5	83153	1
52	O-Ring 17.8 I.D. x 2.4 Thick	86254	1
53	Valve Spring Washer	84186	2
54	Valve Stem Seal	88156	1
57	Serial No. Decal	82773J	1

EXPLODED VIEW — ENGINE TRIM SPECIFICATIONS

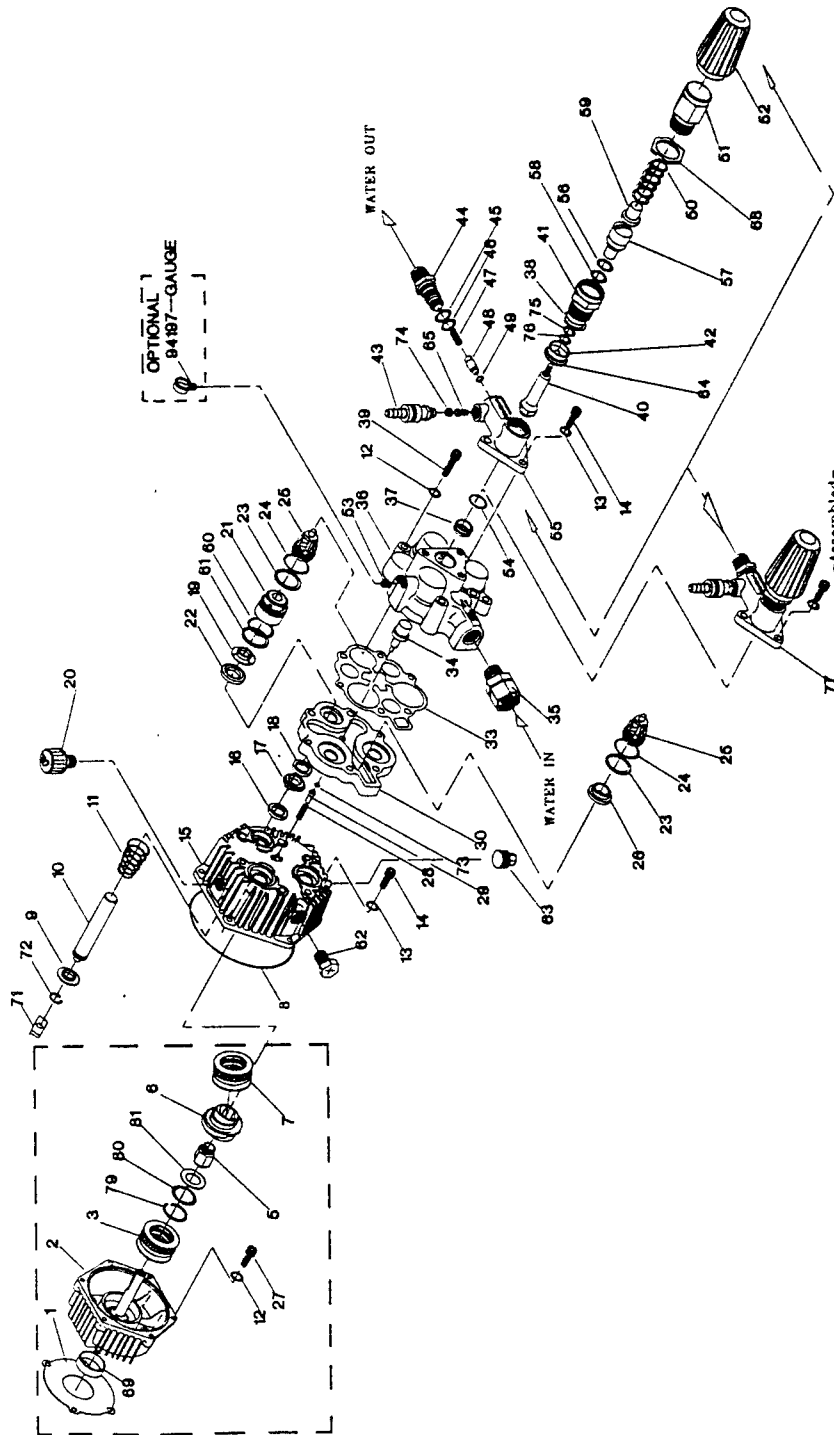




REPAIR PARTS — ENGINE TRIM SPECIFICATIONS

ITEM	DESCRIPTION	PART NO.	QTY.	ITEM	DESCRIPTION	PART NO.	QTY.
1	GN220 Long Block Taper Shaft	90508	1	31	Air Cleaner Base (with nuts)	78607	1
	GN191 Long Block Taper Shaft	90507	1	32	Blower Housing Back Plate	78651C	1
	GN191 Long Blk Straight Shaft	90991H	1	33	Top Assembly Wrapper	92984	1
	GN220 Long Blk Straight Shaft	99095H	1	34	Breather Canal Cover	80303	1
	GN220 Long Blk Water Pump	92957	1	35	Champion RC12YC Spark Plug	72347	1
2	Flywhl Assm. 28 Deg.			36	M6-1 x 10 Taptite Bolt	45756	5
	Timing GN220	77182E	1	37	M6-1 x 12 H Hd. w/Lockwasher Screw	66476	11
	Flywhl Assm. 34 Deg. Timing			38	M6-1 x 30 Flanged H Hd. w/Lockwshr Screw	80316	2
	GN191	77812T	1	39	#8 x .37" Plastite Screw	59635	1
3	Ignition Coil Assembly	81675	1	40	Choke Lever Knob	83504	1
4	M16 x 1.5 Hex Nut	81810	1	43	M6-1 x 30 Taptite Bolt	82981	2
5	Conical Washer	83312	1	44	Shut-off Switch	78653	1
6	Blower Housing	90695A	1	46	M6 Lock Washer	22097	1
7	Carb. - GN191HS-50Hz,			47	M8 x 15 Taptite Bolt	83512	1
	GN220HS-50Hz Press. Washers	95948	1	48	LED Low Oil Ind. Light Assm. LED Low Oil Indicator Light Assm. (Used w/ Opt. LOS Module)	86753	1
	Carb. - GN191HS-60Hz	98469	1	49	4 psi Oil Pressure Switch	77667	1
	Carb. - GN220HS-60Hz	97747	1	50	Ground Wire Assembly	002-85271	1
8	Carb./Manifold Gasket	78631	1	51	L.O.S., S Eng. Decal	84195	1
9	Intake HS Manifold	90948	1	52	Wire Assembly Ignition	001-85271	1
10	Air Cleaner Cover	786908	1	54	#3 Sleeving BLk	85620	1
	Opt. Air Cleaner Cover (Plain)	78608A	1	55	3 Pin Male Housing	84329	1
11	Air Filter Element	78601	1	56	Carb. Wear Washer	85953	1
12	Air Filter Pre-Cleaner	78602	1	57	Oil Filter Pad Gasket	91848	1
13	Recoil Cup	83015	1	58	M6 x 1.0 x 20 Taptite	92978	2
14	Recoil Assembly	81671	1	59	Oil Filter Adaptor (MC Series)	84982	1
15	Manifold Head Gasket	90051	1	60	Oil Filter (Optional)	70185	1
16	Carb./Air Cleaner Gasket	91846	1	61	LOS Module (Optional)	87221A	1
17	Air Cleaner Cover Bolt	78609	2	62	By-Pass Adaptor (Optional)	88758	1
18	Breather Hose	90947	1	63	Oil Fill Tube (Optional)	91041	1
19	4 x 19 Woodruff Key	82774	1	64	36/64 Expansion Plug	94820	1
20	Governor Lever Assembly	86962	1	65	Oil Fill Gasket	91230	1
21	60Hz Governor Spring	78604	1	66	M6 x 12 Taptite	90388	1
	50Hz Governor Spring	86634	1	67	Oil Fill Dipstick (Optional)	91475	1
22	Governor Adjusting Screw	83502	1	68	M8-1.25 Hex Jam Nut	66311	1
24	Idle Control Coil	83782	1	69	M6-12.5 O.D. Flat Washer	49811	1
25	Anti-Lash Extension Spring	86037	1	70	Fuel Tank Bracket (Optional)	95213	1
26	Governor Rod	86384	1				
27	Governor Adjust Bracket	83781	1				
28	Carb. Mounting Bolt	78643	2				
29	M5-0.8 Metal Lock Nut	83503	1				
30	Lower Wrapper	89739	1				

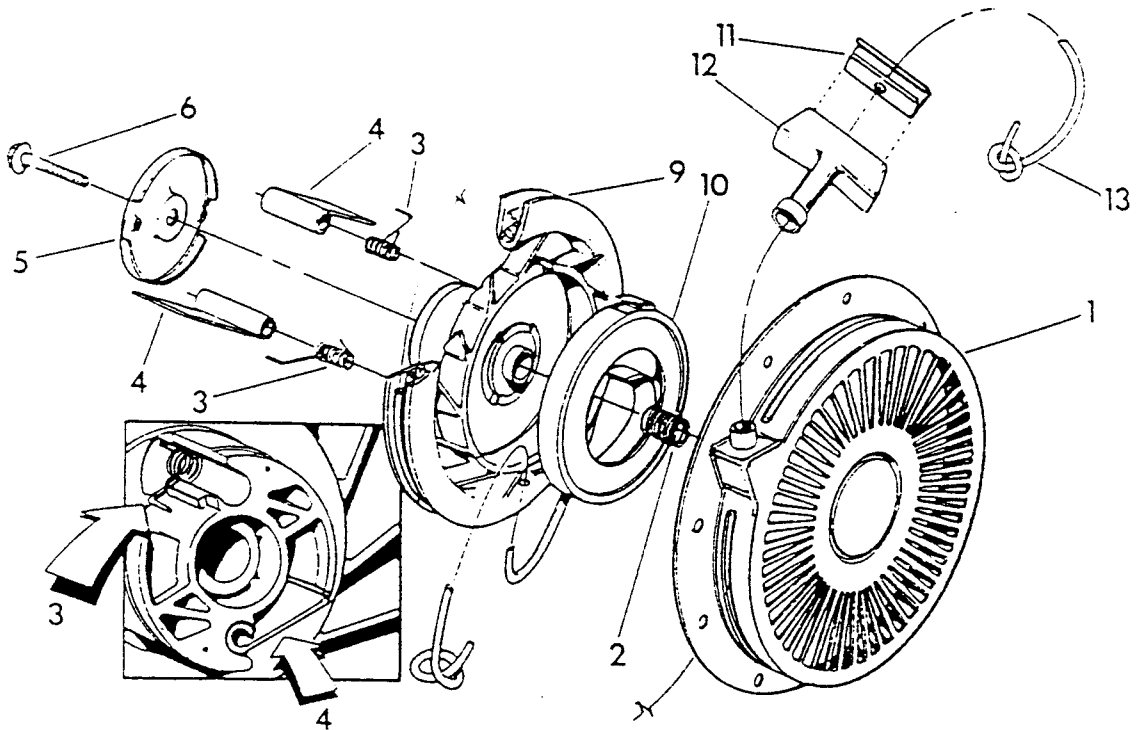
EXPLODED VIEW — PUMP



REPAIR PARTS — PUMP

ITEM	DESCRIPTION	PART NO.	QTY.	ITEM	DESCRIPTION	PART NO.	QTY.
1	Engine Adaptor Gasket	93871	1	41	Unloader Pistion Guide	95367	1
1	Engine Adaptor	96403Z	1	42	1.78 x 14 O-Ring	95372	1
3	Ball Thrust Bearing	93869	2	43	Chem. Injector Fitting	95378	1
5	Eng. Straight Shaft Adapt.	95435	1	44	High Press. Outlet Adaptor	95377	1
6	2 GPM Axial CAM	97671V	1	45	1.78 x 12.4 O-Ring	93788	1
	3 GPM Axial CAM	96865	1	46	1.78 x 15.6 O-Ring	93787	1
7	Ball Thrust Bearing	93869	1	47	7.5 I.D. x 0.6 Dia. x 11.5 Spring	95376	1
	Roller Thrust Bearing	96542	1	48	High Press. Outlet Piston	95374	1
8	114 x 119 x 2.6 O-Ring	93790	1	49	#2.4 x 4.3 O-Ring	95375	1
9	Piston Spring Retainer	95386	3	50	Press. Adjust Spring	95365	1
10	Straight Shaft Piston	95217	3	51	Press. Adjust w/Groove Adapt	95364A	1
11	Piston Return Spring	96400	3	52	Black Press. Adjust Handle	95381A	1
12	M8 Ribbed Lockwasher	92479	10	53	1/8 NPT Pipe Plug	96137	1
13	M6 Ribbed Lockwasher	93873	9	54	2.6 x 20.2 O-Ring	93723	1
14	M6x1x20 Socket Hd. Screw	40945	9	55	Press. Relief Valve Body	95216	1
15	Aluminum Crankcase	94404V	1	56	8.3x11x1.24 Back-Up O-Ring	95369	1
16	Oil-Piston Seal	93680	3	57	Unloader Piston	95368	1
17	Pilot Spacer	93668	3	58	#1.78 x 7.65 O-Ring	95370	1
18	Lo-Pres "U" Pak Seal	93667	3	59	Spring Support	95363	1
19	Bearing Seal Ring	96015	3	60	O-Ring	96069	3
20	Oil Fill Breather	95454	1	61	Back-Up Ring	95506	3
21	High Press. Por Tower	95895	3	62	Sight Gauge Assembly	95453	1
22	High Press. Red Seal	96052	3	63	3/8 NPTF Magnetic Plug	57163	1
23	Back-Up Ring	95504	6	64	Piston Support	95371	1
24	2.62 x 17.12 O-Ring	95503	6	65	Chem. Injection Spring	95380	1
25	Check Valve Kit	96005	6	68	M18 x 1.0 Nut	95366	1
26	Check Valve Seat Support	95896	3	69	Engine Pilot Spacer	95441	1
27	5/16-24x1 Socket Head Bolt	23707	4	71	Piston Pivot Shoe	94944	3
	5/16-24x3/4" Sock. Hd. Bolt	95531	4	72	"C" Retainer Ring	94284	3
28	Thermal Bypass Spring	93652	1	73	1.78 x 2.90 I.D. O-Ring	93876	1
29	Bypass Piston	95416	1	74	#5.56 (7/32") Ball	95379	1
30	Spacer Plate	94402V	1	75	1.78 x 6.07 O-Ring	93656	1
33	Head Gasket	93645	1	76	1.24 x 6.7 Back-Up Ring	93657	1
34	Thermal Bypass Actuator	93644	1	77	Unloader Assembly	95212A	1
35	Garden Hose Connector	95320	1	79	CAM Driver Retainer	97675	1
36	Aluminum Cylinder Head	94400V	1	80	Washer Retainer	95524	1
37	Spindle Seat	95382	1	81	Thrust Washer	97570	1
38	1.78 x 17.2 O-Ring	93772	2				
39	M8-1.25x.75 Stra. Shft. Screw	93874	6				
40	Unloader Assem. Spindle	95373	1				

REPAIR PARTS — RECOIL STARTER ASSEMBLY



ITEM	DESCRIPTION	PART NO.	QTY.
1	Rewind Starter Housing	100-81671	1
2	Brake Spring	105-81671	1
3	Dog Spring	103-81671	2
4	Starter Dog	104-81671	2
5	Retainer Pawl	109-81671	1
6	Retainer Pawl Screw	106-81671	1
9	Pulley	102-81671	1
10	Spring and Keeper	101-81671	1
11	Handle Insert	108-81671	1
12	Starter Rope with Handle	107-81671	1
13	Rope (included with Item 12)	-----	1



LIMITED PRESSURE WASHER WARRANTIES (includes "Master Contractor")

GENERAC warrants to the original retail purchaser, the pressure washer manufactured by GENERAC to be free from defects in material and workmanship for the period(s) set forth below from the date of original purchase. This warranty is not transferable. The term "original purchaser" means the person for whom the pressure washer is originally purchased.

Warranty Schedules

Electric Power Washer	1 year (does not apply to commercial or rental operations)	
	CONSUMER*	COMMERCIAL*
Generac GN-Series Engine-driven Power Washer	Engine: 2 years (2nd year parts only)	1 year
	Pump: 1 year	90 days
All Other Engine-driven Power Washers	Engine: Warranted solely by Engine Manufacturer	Warranted solely by Engine Manufacturer
	Pump: 1 year	90 days

*** NOTE:** For the purpose of this warranty "consumer use" means personal residential household use by original purchaser. "Commercial Use" means all other uses, including rental, construction, commercial and income producing purposes. Once a pressure washer has experienced commercial use, it shall thereafter be considered a commercial use pressure washer for the purposes of this warranty.

During said warranty period, GENERAC will, at its option, repair or replace any part which, upon examination by GENERAC or GENERAC Authorized Dealers, is found to be defective under normal use and service**. All transportation costs under warranty, including return to the factory if necessary, are to be borne by the purchaser and prepaid by the purchaser.

**** NORMAL WEAR:** As with all mechanical devices, the GN-Series engines need periodic parts service and replacement to perform well. This warranty will not cover repair when normal use has exhausted the life of a part or an engine.

THIS WARRANTY DOES NOT INCLUDE: Used products and demonstration equipment. Parts such as GUNS, HOSES, WANDS, NOZZLES or other wear items such as quick couplers, oil, gauges, belts, O-rings, filters, pump packing, etc. Pumps which have been run without water supplied. Damage or malfunctions resulting from: accidents, abuse, modifications, alterations, or improper servicing. Freezing or chemical deterioration. Normal maintenance such as adjustments, fuel system cleaning and obstruction (due to chemical, dirt, carbon or lime, etc.).

THIS WARRANTY IS IN PLACE OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, SPECIFICALLY, GENERAC MAKES NO OTHER WARRANTIES AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. The duration of any implied warranties which cannot be disclaimed is limited to the time period as specified in the express warranty. **LIABILITY FOR CONSEQUENTIAL, INCIDENTAL, OR SPECIAL DAMAGES UNDER ANY AND ALL WARRANTIES IS EXCLUDED, EVEN IF SUCH DAMAGES ARE A DIRECT RESULT OF GENERAC'S NEGLIGENCE.** Some states do not allow limitations on how long an implied warranty lasts, or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions 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.

For service, see your nearest GENERAC authorized warranty service facility or call 1-800-333-1322. Warranty service can be performed only by a GENERAC authorized service facility. This warranty will not apply to service at any other facility. At the time of requesting warranty service, evidence of original purchase date must be presented.

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