## IMPORTANT SAFETY INSTRUCTIONS

IWARNING Read operation manual. Do not operate equipment until you have read operation manual for safety. Assembly, operation, and maintenance instructions.

! D	ANGER RISK OF EXPLOSION OR FIRE	Hazard (45)
	WHAT CAN HAPPEN	HOW TO PREVENT IT
•	Spilled gasoline and it's vapors can become ignited from cigarette sparks, electrical arcing, exhaust gases, and hot engine components such as the silencer.	<ul> <li>Shut off engine and allow it to cool before adding fuel to the tank.</li> <li>Use care in filling tank to avoid spilling fuel.</li> <li>Move washer pump away from fueling area before starting engine.</li> </ul>
	Heat will expand fuel in the tank which could result in spillage and possible fire explosion.	Keep maximum fuel level 1/2 below top of tank to allow for expansion.
•	Operating the washer pump in an explosive environment could result in a fire.	<ul> <li>Operate and fuel equipment in well ventilated zones free from obstructions. Equip zone with fire extinguisher suitable for gasoline fires.</li> </ul>
•	Materials placed against or near the washer pump can interfere with its proper ventilation causing overheating and possible ignition of the materials.	Never operate washer pump in an area containing dry brush or weeds.
•	Silencer exhaust heat can damage painted surfaces, melt any material sensitive to heat (such as siding, plastic, rubber, or vinyl) and damage live plants.	<ul> <li>Always keep washer pump a minimum of five feet away from surfaces (such as houses, automobiles, or live plants) that could be damaged from muffler exhaust heat.</li> </ul>
•	Improperly stored fuel could lead to accidental ignition. Improperly secured fuel could get into the hands of children or other unqualified persons.	Store fuel in an approved container in a secure location away from work area.
•	Use of acids, toxic or corrosive chemicals, poisons, insecticides, or any kind of flammable solvent with this product could result in serious injury or death.	Do not spray flammable liquids.

! DANGER RISK TO BREATHING	zard
WHAT CAN HAPPEN	HOW TO PREVENTIT
Breathing exhaust fumes will cause serious injury even death!	<ul> <li>Operate washer pump in a well ventilated area.</li> <li>Avoid enclosed areas such as garages, basements, etc.</li> <li>Never operate unit in a location occupied by humans or animals.</li> </ul>
<ul> <li>Some cleaning fluids contain substances that could cause injury to skin, eyes, or lungs.</li> </ul>	<ul> <li>Use only cleaning fluids specifically recommended for washer pump. Follow manufactures recommendations, do not use chlorine bleach or any other corrosive compound.</li> </ul>

Haza  ! DANGER  RISK OF INJURY OR PROPERTY DAMAGE  WHEN TRANSPORTING OR STORING	rd
WHAT CAN HAPPEN	HOW TO PREVENT IT
Fuel or oil can leak or spill and could result in fire or breathing hazard, serious injury or death. Fuel or oil leaks will damage carpet, paint or other surfaces in vehicles or trailers.	If washer pump is equipped with a fuel shut-off valve, turn the valve to the off position before transportation to avoid fuel leaks. If washer pump is not equipped with a fuel shut-off valve, drain the fuel from tank before transportation only transport fuel in an approved container, always place washer pump on a protective mat when transporting to protect against damage to vehicle from leaks. Remove washer pump from vehicle immediately upon arrival at your destination.

Ha	zard
DANGER   RISK OF HOT SURFACES	and a
WHAT CAN HAPPEN	HOW TO PREVENTIT
<ul> <li>Contact with hot surfaces, such as engines exhaust components, could result in serious burn.</li> </ul>	<ul> <li>During operation, touch only the control surfaces of the washer pump. Keep children away from the washer pump at al times. They are too young to recognize the hazards of this product.</li> </ul>

DANGER RISK OF FUILD INJECTION	ard
WHAT CAN HAPPEN	HOW TO PREVENTIT
and velocities high enough to penetrate human and animal flesh, which could result in amputation or other serious injury. Leaks caused by loose fittings or damaged hoses can result in injection	Never place hands in front of nozzle.  Direct spray away from self or others.  Make sure hose and fittings are tightened and in good condition. Never hold onto the hose or fittings during operation.  Do not allow hose to contact muffler.  Never attach or remove lance or hose fittings while system is pressurized.
Injuries can result if system pressure is not reduced before attempting maintenance or disassembly.	<ul> <li>To relieve system pressure, shut off engine turn off water supply, and pull gun trigge until water stops flowing.</li> <li>Use only hose and accessories rated for pressure higher than your washer pump?</li> </ul>
ANGER RISK OF INJURY FROM SPRAY	<b>*</b>
WHAT CAN HAPPEN	HOW TO PREVENTIT
objects to break, propelling particles at high speed. Light or unsecured objects can become hazardous projectiles.	<ul> <li>Always wear approved safety glasses.</li> <li>Wear protective clothing to protect again accidental spraying.</li> <li>Never point lance at people of animals.</li> <li>Always secure trigger lock when lance not in service to prevent accidental operation.</li> <li>Never permanently secure trigger in operation.</li> </ul>
Haza  DANGER RISK OF CHEMICAL BURN	ard
WHAT CAN HAPPEN	HOW TO PREVENTIT
Use of acids toxic or corrosive chemicals, poisons, insecticides, or any kind of flammable solvent with this product could result in serious injury or	<ul> <li>Do not use acids, gasoline, kerosene, of any other flammable materials in the product. Use only household detergents cleaners and degreasers recommended for use in washer pump.</li> </ul>

Haza	rd 🔽
DANGER RISK OF UNSAFE OPERATION	L SA
WHAT CAN HAPPEN	HOW TO PREVENT IT
Unsafe operation of your wadher pump could lead to serious injury or death to you or others.	<ul> <li>Do not use chlorine bleach or any other corrodive compound.</li> <li>Become familiar with the operation and controls of the washer pump.</li> <li>Keep operating area clear of all persons pets and obstacles.</li> <li>Do not operate the product when fatigues or under the influence of alcohol of drugs. Stay alert at all times.</li> <li>Never defeat the safety features of the product.</li> <li>Do not operate machine with missing broken, or unauthorized parts.</li> <li>Never leave lance unattended while unit is running.</li> </ul>
<ul> <li>If proper starting procedure is not followed, engine can kickback, causing serious hand and arm injury.</li> </ul>	<ul> <li>If engine does not start after two pulls squeeze trigger of gun to relieve pum pressure, pull starter cord slowly unti- resistance is felt. Then pull cord rapidly to avoid kickback and prevent hand of arm injury.</li> </ul>
The gun/lance is a powerful cleaning tool that could look like a toy to a child.	<ul> <li>Keep children away from the washer pump at all times.</li> </ul>
<ul> <li>Reactive force of spray will cause gun/wand to move, and could cause the operator to slip or fall, or misdirect the spray. Improper control of gun/ lance can result in injury to self and others.</li> </ul>	<ul> <li>Do not overreach or stand on an unstable support. Grip gun/lance firmly with both hands. Expect the gun to kick when triggered.</li> </ul>

Haz	ard
! DANGER RISK OF ELECTRICAL SHOCK	Cini
WHAT CAN HAPPEN	HOW TO PREVENT IT
<ul> <li>Spray directed at electrical outlets or switches, or objects connected to an electrical circuit, could result in a fatal electrical shock.</li> </ul>	<ul> <li>Unplug any electrically operated product before attempting to clean it. Direct spray away from electric outlets and switches.</li> </ul>

### **CARTON CONTENTS**

Note: photographs and line drawings used in this manual are for reference only and do not represent a specific model.



Manuals: Washer Pump Operation Manual

### HIGH-PRESSURE CERAMIC WASHER

BTLN.M 1450 rpm N version © 24mm

Туре	Out	put	Pre	ssure	Po	ver	Rotation	Plunger Dia.	Pistion stroke
	L/min	gpm	bar	psi	hp	low	rpm	mm	mm
BM4.10	4	1	100	1500	1.5	0.75	1450	15	5
BM6.10	6	1.5	100	1500	2	1.5	1450	15	7
BM8.10	3	2	100	1500	2.5	1.8	1450	18	7
BM12.10	12	2.9	100	1500	3	2.2	1450	18	10
BM15.10	15	4	100	1500	4	3	1450	18	14
BMV12.13	12.5	3.3	130	1900	5.5	3	3400	15	7
BMV18.13	18	4.75	130	1900	6.5	4.8	3400	18	7
BMV25.13	25	6.5	130	1900	9	6.5	3400	18	10
BMV36.13	36	9.5	130	1900	13	9	3400	18	14
BMV12.15	12.5	3.3	150	2200	6.5	4	3400	15	7
BMV18.15	18	4.75	150	2200	7.5	5	3400	15	10
BMV12.18	12.5	3.3	180	2700	6.5	4	3400	15	7
BMV18.18	18	4.75	180	2700	9	6.5	3400	18	7
BMV12.20	12.5	3.3	200	2900	7.5	5	3400	15	7
BMV18.20	18	4.75	200	2900	- 11	8	3400	18	7
BMV15.22	15	3.96	200	3200	9	6.5	3400	15	8,5
BMV22.25	22	5.8	248	3200	13	9	3400	18	8.5

### OPERATING INSTRUCTIONS

### WASHER PUMP TERMINOLOGY

**PSI:** Pounds per square inch. the unit of measure for water pressure, also used for air pressure, hydraulic pressure, etc.

GPM: Gallons(USA) per minute, the unit of measure for the flow rate of water.

Bypass Mode: In bypass mode, the pump is recirculating water because the trigger of the spray gun is not pulled. If unit is left in bypass mode for more than two (2) minutes, the water temperature will rise to a dangerous level and could damage internal components of the pump. Any damage to pump due to these causes will not be covered under warranty.

I CAUTION Do not allow unit to operate in bypass mode for more than two minutes at any time. Overheating of pump can cause damage to pump.

Thermal Relief Valve: In an effort to prevent extreme damage, pumps are equipped with a thermal relief valve. This valve will open when the temperature inside the pump rises too high. This valve will then release a gush of water in an effort to lower the temperature inside the pump. Immediately after this occurs, the valve will close.

Chemical Injection System: Mixes cleaners or cleaning solvents with the pressurized water to improve cleaning effectiveness.

Water Supply: All pressure washers must have a source of water the minimum requirements for a water supply are 20 PSI and 5gallon per minute.

### WASHER PUMP OPERATING FEATURES

### PRESSURE REGULATOR

The pressure setting is preset at the factory to achieve optimum pressure and cleaning .if you need to lower the pressure, it can be accomplished by these methods

 Back away from the surface to be cleaned. The further away you are, the less the pressure will be on the surface to be cleaned

CAUTION Do not attempt to increase pump pressure. A higher pressure setting than the factory set pressure may damage pump.

- Reduce the speed the gasoline engine (RPM). Slow the engine down and the water pressure will go down with it.
- Change to a nozzle, This nozzle delivers a less powerful stream of water and a wider spray pattern.
- 4. Adjust the pressure regulator on the pump. Turn the pressure regulator knob counter-clockwise to lower pressure, once you have finished using your pressure washer, return the pressure regulator to its original position by turning it clockwise.

CAUTION Do not try to turn pressure regulator knob past the built-in stop or damage to pump will result

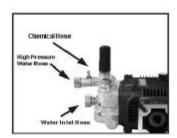
### HOW TO APPLY CHEMICALS AND CLEANING SOLVENTS

WARNING Applying chemicals or cleaning solvents is a low pressure operation.

NOTE Use only soaps and chemicals designed for washer pump use. Do not use bleach.

### To apply chemicals:

- Press chemical hose onto barbed fitting located near high pressure water hose connection of pump as shown.
- 2.Place other end of chemical hose with filter on it into container holding chemical/cleaning solution.
- The chemical/water ratio is 1:7, for every 7 gallons of water pumped, 1 gallon of chemical/cleaning solution will be used.



- 3. Change to the low pressure nozzle.
- 4.After use of chemicals, place chemical hose into container of clean water and draw clean water through chemical injection system to rinse system thoroughly. If chemicals remain in the pump it could be damaged. Pumps damaged due to chemicals will not be covered under warranty.

**INOTE** Chemicals and soaps will not siphon when lance is in the high pressure setting.

### READ AND UNDERSTAND ALL WARNINGS BEFORE STARTING UNIT

!DANGER

When using the high pressure setting, DO NOT allow the high pressure spray to come in contact with unprotected skin, eyes, or with any pets or animals. Serious injury can occur.

Your washer operates at fluid pressures and velocities high enough to penetrate human and animal flesh, which could result in amputation or other serious injury. Leaks caused by loose fittings or worn or damaged hoses can result in injection injuries. **DO NOT TREAT** 

### FLUID INJECTION AS A SIMPLE CUT! See a physician immediately!

<u>IWARNING</u> NEVER fill fuel tank when engine is running or hot. Do not smoke when filling fuel tank.

**NEVER** fill fuel tank completely. Fill tank to 1/2" below bottom of filler neck to provide space for fuel expansion. Wipe any fuel spillage from engine and equipment before starting engine.

<u>NEVER</u> run engine indoors or in enclosed, poorly ventilated areas. Engine exhaust contains carbon monoxide, an odorless and deadly gas.

<u>DO NOT</u> let hoses come in contact with very hot engine muffler during or immediately after use of your washer pump. Damage to hoses from contact with hot engine surfaces will NOT be covered by warranty.

ICAUTION NEVER pull water supply hose to move washer pump. This could damage hose and pump inlet.

DO NOT use hot water, use cold water only.

<u>NEVER</u> turn water supply off while washer pump engine is running or damage to pump will result

<u>DO NOT</u> stop spraying water for more than two minutes at a time. Pump operates in bypass mode when spray gun trigger is not pressed. If pump is left in bypass mode for more than two minutes internal components of the pump can be damaged.

### STARTING

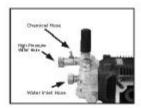
Prior to starting, refer to your engine manual for proper starting procedures for your engine type.

- In a well ventilated outdoor area add fresh, high quality, unleaded gasoline with a
  pump octane rating of 86 or higher. Do not overfill. Wipe up spilled fuel before starting
  the engine. Refer to Engine Owners Manual for correct procedure.
- 2. Check engine oil level. See Engine Owners Manual for correct procedure.
  - NOTE There will be a slight amount of oil in the engine from factory testing.
- 3. Verify the filter screen is in water inlet of pump.
  - **!NOTE** Cone side faces out.
- Connect water source to pump inlet.
  - ENOTE Water source must provide a minimum of 5 gallons per minute at 20 PSI.
- 5. Connect high pressure water hose to pump outlet.
- If applying a chemical or cleaning solution, see How To Apply Chemicals/Cleaning Solvents in Operation section of this manual.
- 7. Turn water source on.
  - NOTE Failure to do so could cause damage to the pump.
- Start engine. See Engine Owners Manual for correct procedure.
  - INOTE If the engine does not start after two pulls, pull the trigger on gun to relieve the pressure.
- Depress trigger on gun to start water flow.
  - NOTE Stand on a stable surface and grip gun with both hands. Expect the gun to kick when triggered.
- 10. Release trigger to stop water flow.
- 11. Adjust spray for the task being performed by changing nozzle.

### SHUTTING DOWN

- After each use, if you have applied chemicals, place chemical hose into container of clean water and draw clean water through chemical injection system to rinse system thoroughly.
  - NOTE Failure to do so could cause damage to the pump.
- Turn engine off. See engine owner's manual.
  - NOTE NEVER turn the water off with the engine running.
- 3. Turn water source off.
- 4. Pull trigger on spray gun to relieve any water pressure in hose or gun.
- See storage section in this manual for proper storage procedures.





### MAINTENANCE

!WARNING When performing maintenance, you may be exposed to hot surfaces, water pressure, or moving parts that can cause serious injury or death!

Before performing any maintenance or repair, disconnect spark plug wire, let engine cool and release all water pressure. The engine contains flammable fuel. DO NOT smoke or work near open flames while performing maintenance.

To ensure efficient operation and longer life of your washer pump, a routine maintenance schedule should be prepared and followed. If the washer pump is used in unusual conditions, such as high-temperature or dusty conditions, more frequent maintenance checks will be required

### ENGINE

Consult the Engine Owners Manual for the manufacturer's recommendations for any and all maintenance.

### TO CHECK OIL

- 1. Remove oil inlet plug from pump and wipe clean.
- 2. Insert oil inlet plug fully into pump, then remove it.
- Oil level is correct when oil covers the lower 1/2 inch of end of oil inlet plug.

### HOW TO CHANGE PUMP OIL

- Loosen oil inlet plug.
- Place a container under the oil drain plug.
- Remove oil drain plug.
- 4. After oil is drained replace oil drain plug .tighten securely.
- 5. Remove oil inlet plug and fill with recommended oil, see the pump oil chart for the correct amount and type of oil.
- 6. Replace oil inlet plug and tighten securely.



### HOW TO CLEAN THE WATER INLET FILTER

This screen filter should be checked periodically and cleaned if necessary.

- Remove filter by grasping end and removing it from water inlet of pump as shown.
- Clean filter by flushing it with water on both sides.
- 3. Re-insert filter into water inlet of pump.



NOTE Cone side faces out.

NOTE Do not operate pressure washer without filter properly installed.

### STORAGE

### ENGINE

Consult the owners manual for the manufacturer's recommendations for storage.

### **PUMP**

- Drain all water from high pressure water hose, coil it, and store it in cradle of the washer pump handle.
- Drain all water from gun and lance by holding gun in a vertical position with nozzle end pointing down and squeezing trigger. Store in gun/hose holder.
- Store chemical hose, high pressure water hose, so they are protected from damage, such as being run over.

It is recommended that you follow these steps to protect the internal seals of the washer pump when STORING THE UNIT FOR MORE THAN 30 DAYS AND/OR WHEN FREEZING TEMPERATURES ARE EXPECTED.

 Obtain a funnel, six ounces of RV antifreeze, and approximately 36 inches of garden hose with a male hose connector attached to one end.

ICAUTION Use only RV antifreeze. Any other antifreeze is corrosive and can damage pump.

- 5. Disconnect spark plug wire.
- 6. Connect the hose to water inlet of pump.
- 7. Add RV antifreeze to hose.
- Pullengine starter rope slowly several times. until antifreeze comes out of high pressure water hose connection of pump.
- Remove short hose from water inlet of pump.
- 10. Reconnect spark plug wire.

## TROUBLE SHOOTING GUIDE

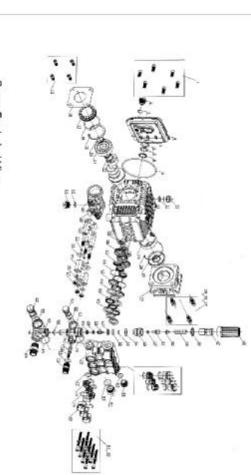
PROBLEM	CAUSE	CORRECTION
	No fuel	Add fuel.
	Low oil.	Add required amount of oil.
	Pressure builds up after two pulls on the recoil starter or after initial use.	Squeeze gun trigger to relieve pressure.
Engine will not start (see Engine	Choke lever in the "no choke" position.	Move choke to the "choke' position.
Manual for	Snark plug wire not attached	Attach spark plug wire
further engine troubleshooting)	Engine ON/OFF switch in OFF position.	Place engine ON/OFF switch in ON position.
	Choke lever in the "choke" position on a "hot" engine or an engine that has been exposed to thermal heat for a long period of time.	Move choke to the "NO CHOKE' position
	Fuel valve closed.	Move fuel valve lever to the "open" position.
	Lance not in high pressure	See how to use lance paragraph in the operation section.
	Lower water supply.	Water supply must be at least 5.0 gal/min.
	Leak at high pressure water hose fitting.	Tighten Apply sealant tape if necessary.
	Nozzle obstructed.	See lance paragraph in the maintenance section for the correct procedure.
No or low	Water filter screen clogged	Remove and clean filter.
pressure (initial use)	Air in hose.	Turn off the engine, then the water source. Disconnect the water source from the pump inlet and turn the water source on to remove all air from the hose When there is a steady stream of water present, turn water source off. Re-connect water source to pump inlet and turn on water source. Squeeze trigger to remove remaining air.

PROBLEM	CAUSE	CORRECTION
	Choke lever in the "choke" position.	Move choke to the "No choke" position.
No or low pressure	Throttle control lever is hot in the "Fast" position.	Move throttle control lever to the "fast" position.
(initial use)	High pressure water hose is too long.	Use high pressure water hose under 50 feet.
	Lance not in low pressure.	See How To Use Lance paragraph in the operation section.
	Chemical filter clogged.	Clean filter
Will not draw	Chemical screen not in chemical.	Ensure end of chemical hose is fully submerged into chemical.
chemicals	Chemical too thick	Dilute chemical. Chemical should be the same consistency as water.
	Pressure hose is too long.	Lengthen water supply hose instead of high pressure water hose.
	Chemical build up in chemical injector.	Have parts cleaned or replaced.
No or low	Worn seal or packing.	Check and replace.
pressure (after	Worn or obstructed valves.	Check and replace.
period of normal use)	Worn unloader piston.	Check and replace.
Water leaking at	Worn or broken o-ring.	Check and replace.
gun/lance connection	Loose hose connection.	Tighten.
	Oil seals worn.	Check and replace.
	Loose oil drain plug.	Tighten.
	Worn oil drain plug o-ring.	Check and replace.
	Worn fill plug o-ring.	Check and replace.
Oil leaking at	Pump overfilled.	Check for correct amount.
pump	Incorrect oil used.	Drain and fill with correct amount and type of oil.
	Vent plug is clogged.	Clean vent plug; blow air through it to remove any blockage. If problem persists, replace plug
Pump pulsates	Nozzle obstructed.	See Lance paragraph in the maintenance section for the correct procedure.

### QUICK FACTS

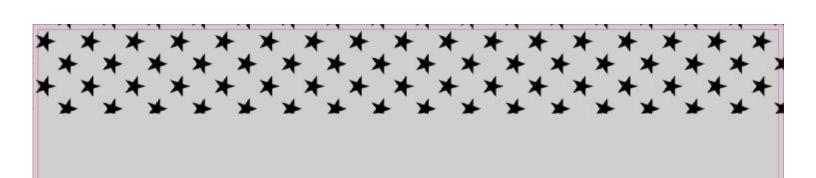
## TO FIND A LOCAL AUTHORIZED SERVICE CENTER NEAR YOU FOR REPAIRS AND SERVICE PART PURCHASES.

GAS	Use fresh high quality unleaded gas. Add stabilizer to fuel tank and run engine for 5 minutes before storage.
OIL	Pump oil: refer to owners manual supplied with this unit. Engine oil: refer to engine manual supplied with his unit. Some units are equipped with a low oil sensor and adequate oil must be added or the unit will not start.
WATER	Use only cold water.  Do not operate unit with clogged or missing water filter /screen.  Do not operate unit without adequate water supply to pump. Adequate water supply is a minimum of 20 PSI and 5 GPM.
PRESSURE ADJUSTMENT	The pressure setting is preset at the factory to achieve optimum cleaning.  If you need to lower the pressure setting, refer to the operation manual for proper reocedure.
PUMP	Pull gun trigger every 2 minutes while engine is running.  Do not allow water to freeze in pump.  For cold weather or long term storage refer to the operation manual for proper procedure.
BY-PASS MODE	Never leave unit running for more than 2 minutes without pulling gun trigger, doing so could cause damage to pump and void warranty.
HOSE	Do nor allow hoses to contact the hot engine muffler during or after use.  Never pull the hose to move the unit.
ENGINE	Do nor adjust or attempt maintenance without consulting engine manual or an authorized engine service center.  Add stabilizer to fuel tank and run engine for 5 minutes before storage.  Always turn on the water before starting the engine.
CHEMICALS/ SOAP	Use only soaps and chemicals designed for washer puma use.
NOZZLE	Keep nozzle unclogged. Refer to manual for cleaning procedures. Chemicals/soap cannot be applied in high pressure setting. Only in low setting.
MAINTENANCE SCHEDULE	Follow recommended maintenance sehedule for engine & pump. Refer to manuals.
STORAGE OR WINTERIZING	Draw clean water through chemical inlet. Add stabilizer to fuel tank and run engine for 5 minutes before storage. Do not allow water to freeze in pump, gun, lance or hoses. For cold weather or long term storage refer to the operation manual for proper procedure.



Pump Exploded View for triplex pump

155		O seal ring	66	Main water seel	**	Crank	11
		Chick valve body	8	Fire gasket	43	Bearing	12
3/8 phg	8	O wal ring	2	Supportingring	t	Internal circlip	8
Osstring	8	Water talet cannectur	a	Osealring	41	fisternal circlip	To.
1/2 plug	ř	0 welring	8	Auxiliary water seal	*5	Osesleting	18
Owntring	ä	Valve body	41	Reur guide sheeve ring	39	Side oil cap	17
Holt assembly	75	Valve sest	80	Flanger oil seal	38	Pressure plate	16
Bolt assembly	18	0 well ring	*	Hexagonal put	37	States besingsteal bolt	14
Valve met	88	Cope valve	8	Gesters	36	Maplug	=
Owntring	3	Seal guiding gust et	57	Cerusikoube	35	Oscalising	13
Valve	æ	O seal ring	æ	Copper godet	34	Crank chamber	12
Osed ring	77	Sectionsentity	38	Osealring	33	Oscal ring	Ħ
Cythuler block	8	O self ring	Y	Planger rad	32	Fuel filler cap	10
Ossiring	ä	Vehigo ingulating rather sout	155	Planger pin	31	Oseal ring	*
Water outliet outmenter	ž	Osestring	10	Consecting rod	30	Ctrdlip	*
Saures	ď	Voltage regulating valve store.	12	Bult assembly	29	Off level in dicator	+
Spring of outlet valve	ä	Spring retainer	20	Bulk assembly	28	Rear oil level	
Outlet vider	72	Voltage orgalisting spring	40	Hok assembly	22.7	Osesletag	"
O seal ring	광	Check mat.	to	Flange	26	Brat cap	+
Owel ring	8	Vallage regulating tube	t.	Crank oil end	25	Ownlring	4
Connector of talety be	68	Voltage orgalisting handwheel	t	Chris	24	Oil drain beit	**
Water return connector	3	Supporting gradest	å	Needle bearing	25	Inner hexagonal bolt	-



## OPERATION MANUAL



# VECKLYNIL

Please make certain that the person who is to use this equipment.

Carefully reads and understands these instructions before operating

### TABLE OF CONTENTS

IMPORTANT SAFETY INSTRUCTIONS ······1—4
CARTON CONTENTS5
WASHER PUMP TECHNICAL PARAMETER5
OPERATING INSTRUCTIONS6-9
MAINTENANCE10-11
STORAGE12
TROUBLE SHOOTING GUIDE13-14
OUICK FACTS······15

### SAFETY GUIDELINES /DEFINITIONS

This manual contains information that is important for you to know and understand. This information relates to protecting YOUR SAFETY and PREVENTING EQUIPMENT PROBLEMS. Please read the manual and attend to these sections.

IDANGER indicates an imminent hazardous situation which, if not avoided, will result in death or serious injury.

IWARNING indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

ICAUTION indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

!NOTE used without the safety alert symbol indicating potentially hazardous situation which, if not avoid, may result in property damage.

ALWAYS REFER TO THE MANUALS SUPPLIED WITH THIS UNIT