Owner's Manual

Pressure Washer

PW4000(Q4015)

Pressure Washer

Definition of Pressure Washer: A machine that cleans dirty surfaces with high pressure water. This pressure washer produces cold water high pressure spray. Cleaning chemicals may be incorporated into the spray if desired on models equipped for "chemical induction through the pump". The pressure pump for this equipment is powered by a gasoline internal combustion engine.

⚠ WARNING: SPECIAL HAZARDS

- **CO Poisoning:** Exhaust from engine contains carbon monoxide, a poisonous gas that can cause carbon monoxide poisoning and possible death if inhaled.
- **Injection Injury**: High-pressure spray can pierce skin and underlying tissues, leading to serious injury and possible amputation. Such an injection injury can result in blood poisoning and/or severe tissue damage.
- **Flying Debris**: High-pressure spray can cause flying debris and possible surface damage.
- **Electric shock**: Operating equipment in wet conditions or near water can cause electric shock.
- **Chemical Exposure:** Cleaning chemical vapors or contact with skin may be hazardous.
- **Fire/Explosion:** Engine sparking can ignite fuel or other flammable liquids or vapors in the vicinity. Hot exhaust from engine can ignite combustible materials.
- **Burns**: Pressure Washer pump and engine are hot surfaces that can cause burn injuries. Detailed safety information about these hazards appears throughout this manual.

Equipment Protection Facts

Inspect Upon Delivery: FIRST! Inspect for missing or damaged components. See *"Initial Set-Up/Installation"* section for where to report missing or damaged parts.

Add Engine Oil: Engine is shipped **without oil**. See the "Engine Manual" section of this manual for instructions on capacity and viscosity recommendations.

Water Flow Requirements: Make sure your supply water flow rate is 20% higher than the pressure washer's flow rate (see "Operations", section for detail), and that your water is clean and particle free.

Do not run Pressure Washer without proper inlet water supply to high pressure pump and for more than 1 minute without depressing trigger on gun to circulate water to avoid damaging pump.

Chemical Spraying: Use only approved pressure washer chemicals designed for high-pressure use. Use soap adjustment knob to regulate cleaning power (on select units).

Storage: Do not allow water to freeze in the pump, hose, or spray gun(s). See "Storage" for more information. **Maintenance Schedule:** Engine and pump require periodic inspection and servicing to keep pressure washer functioning efficiently. See *"Maintenance Schedule Summary"* for frequency of servicing.

Battery: A battery is required for electric start feature (Denoted by **E in model #** only). A battery is not included. Purchase a standard 12 VDC, 10 Ah battery, and further detail in "Specifications" section.

This Owner's Manual is for the Following Models:		
Q3690	Q4015	Q4015E

(E) Indicates unit is Electric Start Feature (Battery not included.

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Preface

Your High Pressure Washer utilizes our Industrial Grade Gasoline Engines combined with the premium grade Annovi Reverberi High Pressure Pump to produce a high pressure water spray for cleaning purposes. Do not use this unit for other purposes as unforeseen hazards or equipment damage may result. This unit is intended for OUTDOOR USE ONLY.

This Owner's Manual will provide you with all of your needed information for your new Power Equipment Product, including Safe Operation and Maintenance of your unit. Please keep and read this Owner's Manual completely and carefully prior to operation. Keep this Owner's Manual for assistance in the future, such as proper maintenance schedules and tips to prolong the life and effective use of your unit.

This Owner's Manual contains information with respect to the newest products at the time of publication. Due to revision and modifications, the information noted in the Owner's Manual might vary from the actual status. This Owner's Manual is subject to change without notice.

PRODUCT SPECIFICATIONS

HYDRO-PRO PRESSURE WASHERS

Model Size	Q3690	Q4015	Q4015E
Pump Manufacturer	Annovi Reverberi	Annovi Reverberi	Annovi Reverberi
Pump Type	AR RRV Tri-Plex	AR RRV Tri-Plex	AR RRV Tri-Plex
Pressure Output (psi[1])	3600 psi	4500psi	4500 psi
Delivery Output (gpm[2])	3 gpm	4 gpm	4 gpm

ENGINE

Manufacturer	LIFAN	LIFAN	LIFAN
Model	LF177F-BQ	LF190F-BQ	LF190F-BDQ
Maximum Horsepower (MHP)	9mhp	15 mhp	15 mhp
Engine Displacement	270 cc	420 cc	420 cc
Starting System	Recoil	Recoil	Recoil/Electric (E)
Fuel Tank Capacity	1.6 Gallons	1.7 Gallons	1.7 Gallons
Engine Type	4 Stroke OHV	4 Stroke OHV	4 Stroke OHV
Fuel Type	87 Octane Gasoline	87 Octane Gasoline	87 Octane Gasoline
Fuel Compliance	10% Ethanol or Less	10% Ethanol or Less	10% Ethanol or Less
Oil Type & Amount	SAE10w30w 32oz	SAE10w30w 32oz	SAE10w30w 32oz
Low Oil Shutoff Protection	Yes	Yes	Yes
CARB Certified	(CA) CARB/EPA Models	(CA) CARB/EPA Models	(CA) CARB/EPA Models

DIMENSIONS

Length (inch)	33.1	33.1	33.1
Width (inch)	21.7	21.7	21.7
Height (inch)	23	23	23
Weight (lbs)			

ACCESSORIES

Lance	1 ea.	1 ea.	1 ea.
Gun	1 ea.	1 ea.	1 ea.
Inlet Hose	1 ea.	1 ea.	1 ea.
Outlet Hose	1 ea.	1 ea.	1 ea.
Chemical Injector	N/A	1 ea.	1 ea.
5 Spray Tip Nozzle	0,15,25,45 soap	0,15,25,45 soap	0,15,25,45 soap
Wand & Hose Bracket	1 ea.	1 ea.	1 ea.
Mobility/Wheel Kit	2 Wheels/2 handles	2 Wheels/2 handle	2 Wheels/ handles

Comments

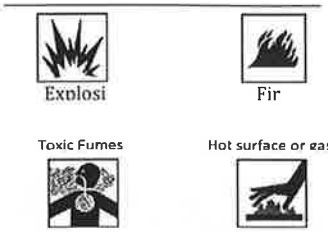
PSI[1] = Pounds per Square Inch

GPM[2] = Gallons per Minute

Safety Instructions

This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

Hazard Symbols and Meanings



WARNING!

Running pressure washer emits carbon monoxide: an odorless, colorless, poison gas.
Breathing carbon monoxide can cause nausea or death!

ONLY operate pressure washers outdoors.
Exhaust gas must be prevented from entering confined areas.
Direct exhaust gas away from windows, doors, ventilation and other openings. Do not operate pressure washer inside or under any buildings.

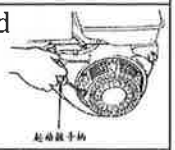
WARNING!

The Engine exhaust from this pressure washer contains chemicals known to the State of California to cause birth defects, reproductive harm and cancer.

Safety Instructions

WARNING!

Rapid recoil of starter cord (kickback) may pull hand and arm forward toward engine at a rapid rate.
Broken bones, bruises, sprains, and fractures may result.



- When starting engine, pull cord slowly until tension is felt, then pull rapidly to avoid kickback.

WARNING!

Fuel and its vapors are extremely flammable and explosive.

Fire or explosion can cause severe burns or death.

WHEN ADDING OR DRAINING FUEL

- Turn pressure washer off and let it cool for at least three minutes before removing fuel cap. Loosen cap slowly in order to relieve pressure in the fuel tank.
- Fill or drain fuel tank outdoors. Do not excessively inhale fuel vapors.
- Keep away from open flames or sparks and other sources of ignition.
- Do NOT smoke while filling fuel tank.
- Do NOT overfill tank. Allow space for fuel expansion.

WHEN TRANSPORTING OR REPAIRING EQUIPMENT

- Transport pressure washer with the fuel valve in the off position.
- Repair pressure washer with the fuel tank empty or the fuel valve in the off position.
- Disconnect spark plug wire before transport or service.

WHEN STORING FUEL OR EQUIPMENT CONTAINING FUEL

- Store away from furnaces, stoves, water heaters, clothes dryers or other appliances that have pilot light or other ignition source because they can ignite fuel vapors.

WHEN STARTING EQUIPMENT

- Ensure spark plug, muffler, air cleaner, and fuel cap are in place.
- Do NOT crank engine with spark plug removed.
- If fuels spills, wait until it evaporates before starting engine.

WHEN OPERATING EQUIPMENT

- Do NOT choke carburetor to stop engine.
- Do NOT tip engine or equipment at an angle, which causes fuel to spill.

Safety Instructions

WARNING!

While engine is running temperature may exceed 150°F (65°C). Server burns may occur.

Exhaust heat/gasses can ignite combustibles, structures or damage fuel tank causing a fire.

- Do NOT touch hot surfaces and do avoid exhaust gases.
- Allow pressure washer to cool before touching.
- Keep at least 7 ft. (183cm) clearance on all sides of pressure washer including overhead clear.
- Reflective exhaust heat may damage fuel tank causing fire.
- Code of Federal Regulation(CFR) Title 36 Parks, Forests, and Public Property require equipment powered by an internal combustion engine to have a spark arrester, maintained in working order, complying to USDA Forest service standard 5100-1c or later revision. In the state of California a spark arrester is required under section 4442 of the California Public resources code.

WARNING!

Unintentional sparking can result in fire or electrical shock.

WHEN TESTING FOR ENGINE SPARK

- Do NOT check for spark with the spark plug removed.
- Use approved spark plug tester.

WHEN REPAIRING OR ADJUSTING WATER PUMP

- Disconnect the spark plug wire from the spark plug and place the wire where it cannot contact spark plug.

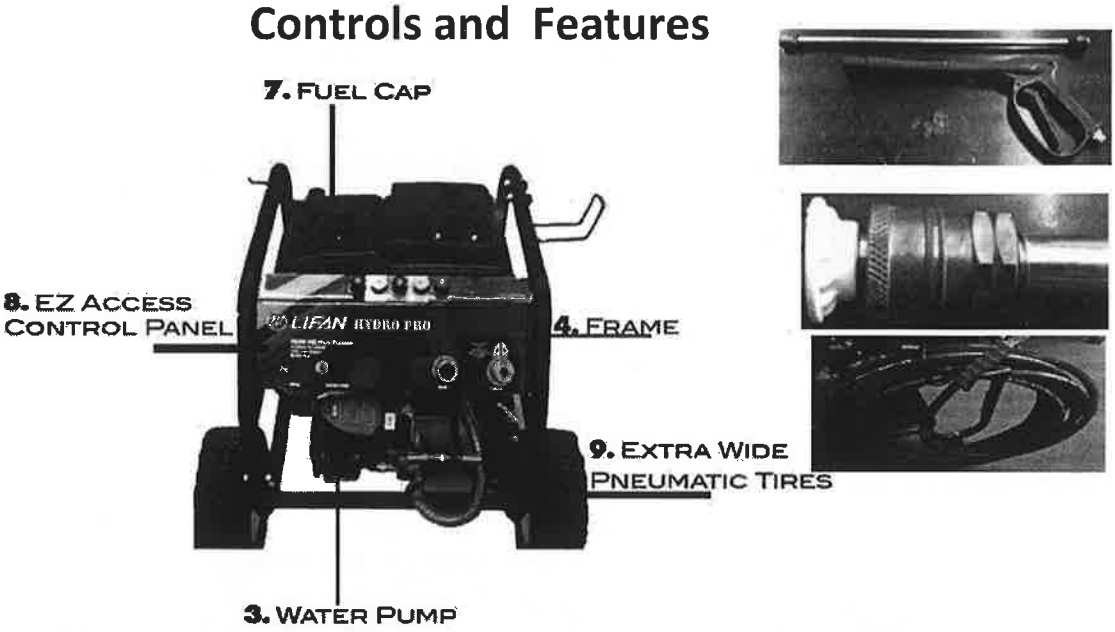
CAUTION!

Improper use and care of this pressure washer will cause damage and shorten its lifespan. Failure to follow these actions will void all warranties.

- Use pressure washer only for appropriate and designated purposes.
- Pressure washer must be placed on a level surface.
- Do NOT expose pressure washer to extreme conditions. Excessive dust, moisture, and corrosive vapors will damage unit.
- Cooling slots must be kept clear of debris.
- Shut off pressure washer and take to a qualified service center if the pressure washer fails to operate properly.

NOTE: NEVER ALLOW PRESSURIZED WATER EXITING SPRAY GUN TO CONTACT SKIN OF HUMAN OR ANIMAL.

Controls and Features



Panel Mounted Choke/On/Off/Start Switch /Quick Connect Inlet and Outlet

Hose specs_4000psi Q3690 - 5000psi Q4015

Legend

1. **Spray Gun** – Lance and Gun screw together to form Spray Gun equipped for Quick Connect Tips
2. **Outlet Hose** --- supplies pressurized water from pump to spray gun.
3. **Water Pump** – Annovi Reverberi Direct Drive High Pressurized Water Pump.
4. **Frame –** One and one-fourth Inch steel tubing for maximum protection.
5. **Legs –** Support for Pressure Washer.
6. **Mobility Kit/Wheels –** Pneumatic Tires and Wheels for easy mobility.
7. Fuel Cap – Check/add fuel
8. EZ Access Control Panel for User Comfort and EZ Operation
9. Extra Wide Pneumatic Tires for Mobility in Rough Terrain

Control Panel Features

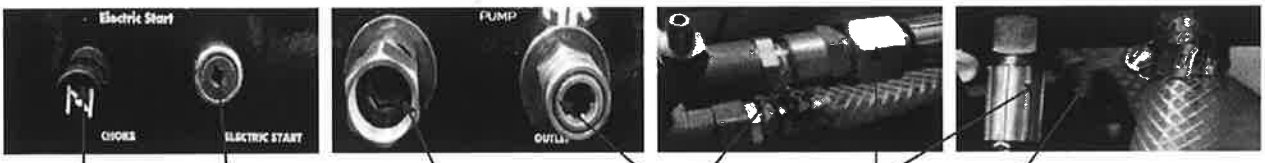
Your Q3690, Q4015, and Q4015E are designed for convenient connections for the inlet and outlet hose connections on the panel and pre-plumbed from the back of the panel to the pump. With the on/off switch (Electric Start Switch on E models) and the Pull to Choke and Push to run panel mounted choke you have everything at your fingertips.

Choke

Key Switch Electric Start
On/Off Switch for Recoil Start Models

Inlet from panel to pump

Outlet from panel to pump



Switch pull to
Choke/Push to Run

Key on/off

Inlet/Quick
Connect Outlet

Pre-Plumbed from High Pressure Pump
inlet/Outlet on Panel

Always check the inlet and outlet connections on the pump and back of panel for leaks or wear.

Pre-Operating Instructions: Assembly

BOX CONTENT:

- Pressure Washer
- Accessory Kit
  - 1 ea. --- Spark Plug Removal Tool
  - 1 ea. – Outlet Hose
  - 1 ea. – Lance (Combines with Gun to form Spray Gun)
  - 1 ea. – Gun (Combines with Lance to form Spray Gun)
  - 1 ea. – Spray Gun & Hose Bracket
  - 1 ea. – Chemical Injector Hose
  - 1 ea. Gallon Chemical/soap receptacle basket
  - 1 ea. Quick connect for inlet/outlet hoses

- Owner's Manual
- Warranty Registration Card
- Warranty Policy
- Wheel Kit - 2 ea. - Pneumatic Tires and Wheels, 2 ea. – Rubber Support Leg, 1 ea. – Axle and 2 ea.- Locking Handle
- Hardware Bag

6 ea. – 12mm Bolt	2 ea. – Handle Bolt (50mm Long)
2 ea. – 3-Point Wing Nut	2 ea. – 14mm Nut
2 ea. – 18mm Nut	2 ea. – Cotter Pin
2 ea. – 1in Washer	

Q3960

Frame	Rubber stand
Axle	Wand assembly
Handle	10" Wheel
Panel	Outlet hose
Outlet hose A	Inlet hose
Soap hose	Tips

Q4015(e)

Frame	Rubber stand
Axle	Wand assembly
Handle	10" Wheel
Panel	Outlet hose
Outlet hose A	Inlet hose
Soap hose	Tips

Pre-Operating Instructions: Assembly

UNPACKING THE PRESSURE WASHER:

1. Set the carton on a flat, rigid surface.
2. Remove all loose contents from carton EXCEPT the Engine/Pump/Bottom Frame portion of pressure washer and set them beside carton.
3. Open box completely by cutting each corner from top to bottom.
4. Leave Pressure Washer on the remainder of the box until Wheel Kit is installed. Never attempt to put oil in engine or operate the equipment until fully assembled.
5. Locate all box contents and place them beside the pressure washer. (Some Items may be packaged within the voids of the pressure washer itself.)

INSTALLATION:

The Following Tools are needed to assemble the Pressure Washer:

- Safety Glasses
- 8mm-14mm Wrench Set
- 8mm-14mm Ratchet & Socket Set
- 18mm Ratchet & Socket

HANDLE INSTALLATION: Q3690, Q4015(E)

1. These units come with 2 locking handles. The mount bracket to the frame is pre-drilled and threaded for the 4 bolts to attach the handle.

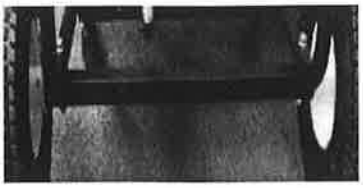
With locked up and down

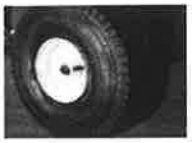
Clevises Pin for Locking

Locked in Down

Locked in up

Pre-Operating Instructions: Assembly

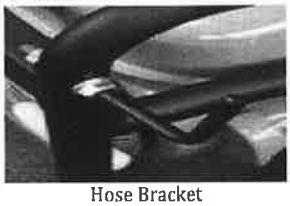
1. Install the Axle with 2 Bolts and Nuts Pre-Drilled 

2 Install the Wide Pneumatic Wheels and Tires with Nyloc Locking Nut provided. 

3. Install the wand and gun and hose bracket in the pre-drilled holes with the nuts and washers provided.

Top Wand Bracket

Bottom Wand Bracket


Hose Bracket

4. Battery Installation Electric Start Models. The Battery box is located on the frame rail. Install Red (Hot) Lead to Positive Post marked + and Black (Ground) to Negative Post marked - and pre wired to the electric starter on the engine.

Pre-Operating Instructions: Assembly

WHEEL KIT INSTALLATION: Wheels are installed on panel end of unit; Support feet are installed on handle end of base.

NOTE: Install Wheel Kit BEFORE Filling the Pressure Washer with Fuel or Oil. Never Tip a Unit that contains Fuel or Oil.

1. Carefully tip pressure washer so the pump front end is touching the ground and the rear of the unit is facing the sky.
2. Attach one Heavy-Duty Rubber Leg to the base of pressure washer. Securely tighten using 12mm Ratchet and Socket or like tools.

3. Repeat Step 5 to attach the second Heavy-Duty Support Leg.
4. Carefully tip the pressure washer so the panel end is facing the sky and the handle end is facing the ground.
5. Using two 12mm Bolts, attach Axle. Securely tighten using 12mm Ratchet and Socket or like tools.

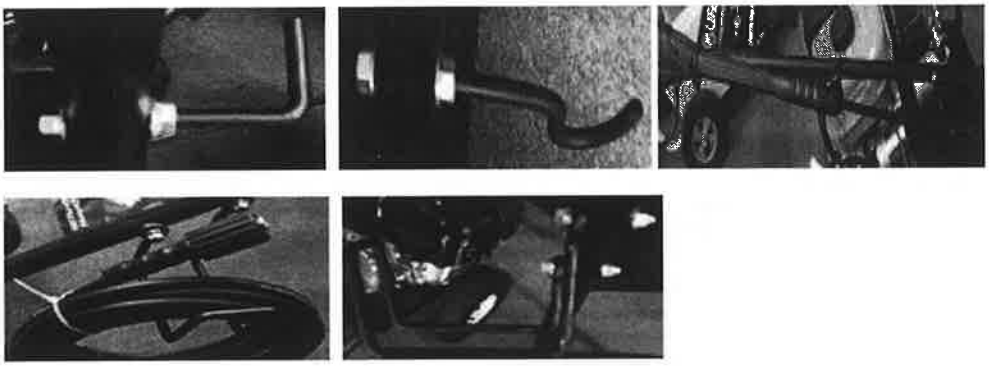
6. Slide 1in. Washer onto each end of the Axle.
7. Slide Wheel onto each end of the Axle.
8. Securely tighten 18mm Nyloc Nut to each Axle using 18mm Ratchet and Socket or like tools.

9. Carefully stand the pressure washer up with the wheels and support legs touching the ground.

Pre-Operating Instructions: Assembly

ADDITIONAL INSTALLATION:

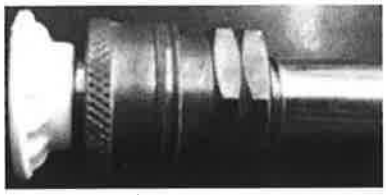
1. Slide the Spray Gun & Hose Bracket through the holes on the Handle. Securely tighten using the 14mm nuts and a 14mm Ratchet and Socket or like tools.



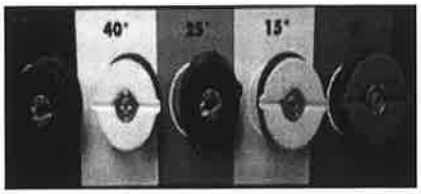
2. Screw the Lance and Gun together to form Spray Gun. (Refer to picture below.)

3. Place Spray Gun on the Spray Gun & Hose Bracket.

2 pc gun and lance w/quick connect



Quick Connect on Lance



5 tips 0 - 15 - 25 - 40 - Soaper used with chemicals/soap

0°nozzle-red: This nozzle delivers a pinpoint stream and is extremely powerful. It covers a very small area of cleaning. This nozzle should only be used on surface that can withstand this high pressure such as metal or concrete.
15°nozzle-yellow: This nozzle delivers a powerful 15 degree spray pattern for intense cleaning of small areas. This nozzle should only be used on areas that can withstand the high pressure from this nozzle.
25°nozzle-green: This nozzle delivers a powerful 25 degree spray pattern for intense cleaning of larger areas. This nozzle should only be used on areas that can withstand the pressure from this nozzle.
40°nozzle-white: This nozzle delivers a powerful 40 degree spray pattern and a less powerful stream of water. It covers a wide area of cleaning, this nozzle should be used for most general cleaning jobs.
Chemical nozzle-black: This nozzle is used to apply chemicals or cleaning solutions. It has the least power stream.

Pre-Operating Instructions: Battery Specifications

(Electric Start (E) Models Only)

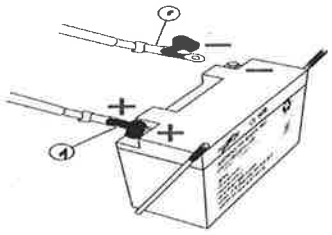
The Battery is NOT included with your Energy Storm Generator. These units require an Acid Cell Battery. This battery is used in many applications, such as lawnmowers, ATV's, motorcycles, etc. and can be found at many retailers and dealers including where you purchased this Power Equipment Product. Use the "Battery Specifications" chart below to attain the specifications of the necessary battery. Or, use the "Cross Reference Models" chart below to match up with the manufacturer's model number with the brand battery available at your local retailer.

BATTERY SPECIFICATIONS				
Generator Model	Length (inch)	Width (inch)	Amp (hrs)	DC Voltage (Volts)
Q3690	5.25 in	3 in	10	12V
Q4015	5.3125 in	3.1875 in	12	12V
Q4015E	5.3125 in	3.1875 in	12	12V

CROSS REFERENCE MODELS		
Generator Model	Manufacturer	Model Number
Q3690	Super Start®	CB9B
Q4015	Excide®	12N12A-4A-1
Q4015E	Excide®	12N12A-4A-1

Note: (-CA) or (E) Models have same Battery Specifications

⚠	**Warning**
Follow all the battery manufactures' warnings for proper installing of your battery in order to prevent damage to personnel or equipment.	



1. Battery leads consist of a Red (hot) lead that connects to the (+) battery post and is connected to the (+) terminal on the starter solenoid and a Black lead which is connected to the (-) negative battery terminal and the frame mounting bolt.
2. Connect the Red (hot) terminal to the battery.
3. Connect the Black (negative) terminal to the battery.

Pre-Operating Instructions: Engine Oil Level Check

CAUTION:

- **Running engine with insufficient engine oil can cause severe damage to the engine.**
- **The engine performance and service life is directly dependent of the quality of the engine oil. Do NOT use contaminated engine oil or vegetable oil.**
- **Check engine oil level only with engine stalled and with unit on level ground.**
- **Use 4-Stroke Gasoline Engine Oil equivalent in quality with SF, SG from API.**

Oil velocity varies with average environmental temperature. Select engine oil with proper velocity using the chart to the right in accordance with you regional environmental temperature.

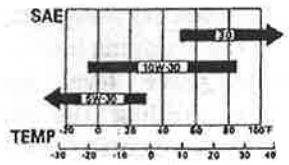


Fig. 5

Engine Oil Alarm System

The engine oil alarm system aides in avoiding engine damage due to improper amounts of engine oil in the crankcase. Before the engine oil level in the crankcase drops below the safety line, the engine oil alarm system will automatically stall the engine (while the engine switch remains in the "ON" position).

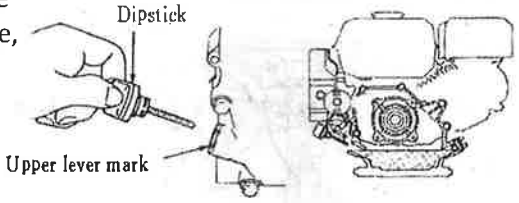
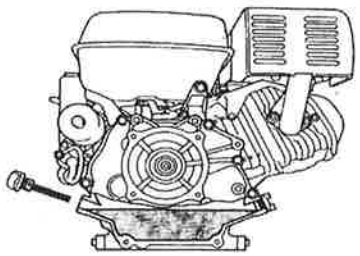


Fig. 6

If the engine stops and will not restart:

1. Remove the engine oil dipstick and wipe it clean.
2. Insert the dipstick into engine oil filler hole without screwing it in
3. Remove dipstick and check engine oil amount.
4. If engine oil is below required amount, fill specified engine oil up to the top of filler hole. Use engine oil depended on environmental temperature.
5. Reinstall the engine oil dipstick.



Pre-Operating Instructions: Engine Fuel Level Check

CAUTION:

- **Gasoline is extremely flammable. Keep away from ignition sources.**
- **Fuel unit only in well-ventilated areas with the engine stalled.**
- **Do NOT smoke near unit.**
- **Do NOT spill fuel out of the fuel tank. Spilled gasoline and gasoline vapor may ignite. If gasoline is spilled, wipe completely dry before starting the engine.**
- **Avoid repeated or sustained breathing of gasoline fumes.**
- **Avoid skin contact with gasoline.**
- **Keep out of reach of children and pets.**
- **Do NOT use contaminated gasoline. Keep dirt, dust, and water out of fuel tank.**
- **After fueling is complete, ensure fuel filler cap is securely fastened.**

TO CHECK ENGINE FUEL LEVEL:

1. Remove fuel filler cap.
2. Visually check fuel level within gas tank.
3. If too low, add fuel. Do NOT fill above the Shoulder of the fuel strainer. Use only unleaded automotive gasoline with an Octane level of 87 or higher.

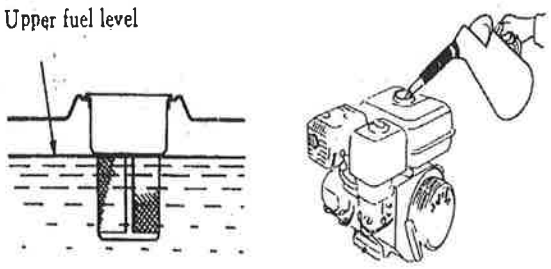


Fig.12

BLENDED FUELS

Gasoline is sometimes blended with alcohol or an ether compound to increase the octane level. If blended fuels are used, ensure the octane rating is at least equal to the recommended octane level in the product specifications. The following three blended fuels recommended:

- **Ethanol (ethyl or grain alcohol)** – Gasoline containing 10% ethanol by volume.
- **MTBE (methyl tertiary butyl ether)** – Gasoline containing no more than 10% MTBE by volume.
- **Methanol (methyl or wood alcohol)** – Gasoline containing no more than 5% methanol by volume.

NOTE: Damage caused by the use of blended fuels is NOT covered under warranty

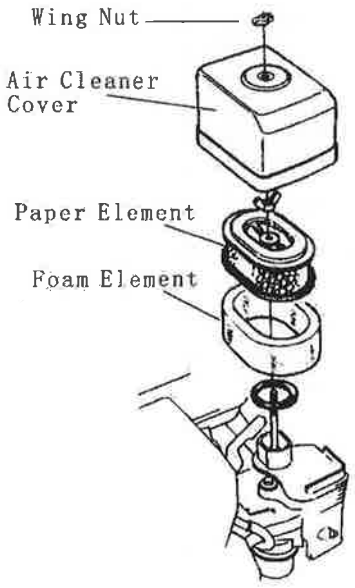
Pre-Operating Instructions: Air Cleaner Element Check

CAUTION:

- **Do NOT run the engine without air cleaner element installed. Operation of engine without air cleaner element installed will result in the inhalation of dirt, dust, and other debris into the engine and through the carburetor. This will result in premature wear of the engine.**

To Check Air Cleaner Element:

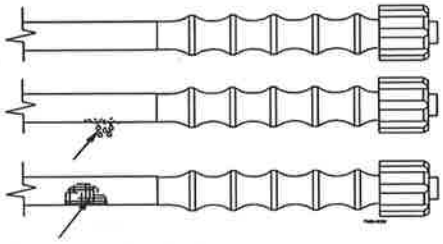
1. Remove the wing-nut from the top of the air filter housing and remove top.
2. Remove the wing nut from the air filter and check for debris or stoppage. If dirty replace with the correct Air Filter for your unit.
3. Re-Install the air filter element into the air filters housing and re-attache the air box top, tighten wing nut to firm.



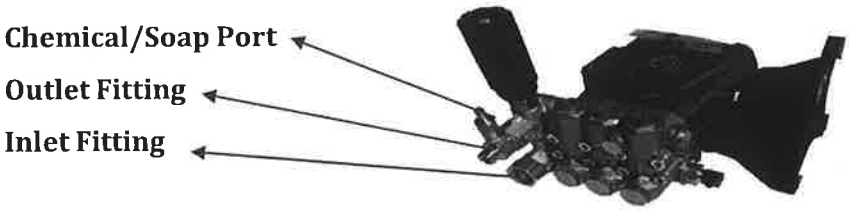
Pre-Operating Instructions: Connecting Inlet/Outlet/Chemical Injector Hose

⚠ CAUTION:

- **Use only provided hoses or replacement hoses equal in quality. Use of improper hoses may result in injury. Check hose for warn spots or leaks.**



- **Use of chemical hose required only if cleaning agents are applied during washing. Only use Soaper tip to siphon chemicals.**
- **Ensure each hose connection is tightly secured. Failure to do so may result in injury or damage to the unit.**



Annovi Reverberi Commercial Tri-Plex High Pressure Pump

Annovi Reverberi / AR North America RRV 4G40-PKG pump with bolt-on unloaded, chemical injector, thermal valve and garden hose inlet connector. RRV D Version with F24 flange series pumps are designed to direct drive on gasoline engines ranging from 8 -15 HP. Intended use for heavy tasks; this triplex plunger pump features the latest in design and technology. Life tested over 2,000 hours at maximum performance. The RRV is a result of our combined 60 years of pumps building experience and expertise

Pre-Operating Instructions: Connecting Inlet/Outlet/Chemical Injector Hose

AR Pump Features:

- Latest in design and technology
- New crankcase style
- High strength forged brass manifold for long term use
- NEW ceramic plungers, thicker wall to help prevent thermal shock
- Stainless steel valves
- Side mount valve seat O-rings
- High quality high pressure seals
- NEW low pressure seal with built in scraper
- Two piece piston guide
- NEW connecting rod with 12% more load surface
- Large side cover sight glass
- Oversized bearings
- Rear cover oil drain
- Forged, precision ground crankshaft

Pump Rebuild Kits are available from your retailer or by calling Lifan Power USA @ 1-866-471-7464, option 2 for Parts and Service.

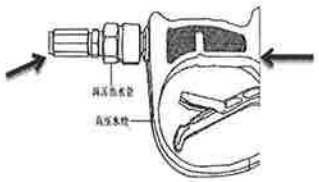
CONNECTING INLET HOSE:

1. Connect Inlet Hose to Inlet Hose Connection on unit panel, Tighten Securely or use Quick Connect Feature.
2. Connect alternate end of Inlet Hose to a water tap. The water tap must deliver at least 20psi (pounds per square inch).
3. An insufficient water supply will damage your pump. Make sure the water supply is steady and is 20% over the rated flow of your pump

   NOTE: Under NO circumstance should the pressure washer be used as a self-prime from a water vessel.

CONNECTING OUTLET HOSE: Outlet Hose must be a High Pressure Hose. NOTE: The Outlet Hose (High Pressure Hose) provided is the BLACK Hose. The outlet or high pressure hose must be checked for any wear or leakage. Replace any damaged high pressure hoses.

1. Quick Connect the Outlet Hose to Outlet Hose Connection on unit panel. Tighten Securely.
2. Quick Connect alternate end of Outlet Hose to Spray Gun shown below. Tighten Securely



Pre-Operating Instructions: Connecting Inlet/Outlet/Chemical Injector Hose

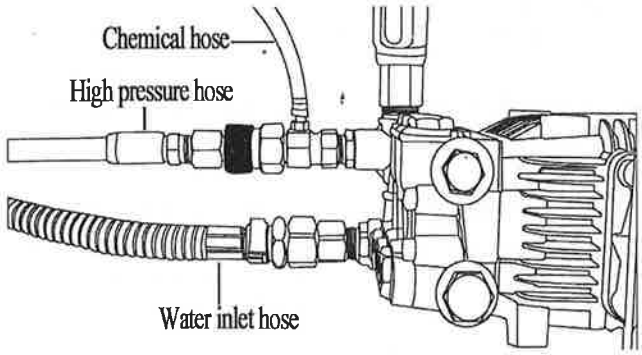
CONNECTING CHEMICAL INJECTOR HOSE: Water to Chemical ratio is 7:1. NOTE: The Chemical Injector Hose provided is the white/clear hose and should be used in unison with the Spray (black) Nozzle.

⚠ ***CAUTION: WHEN USING CHEMICALS OR CLEANING SOLUTIONS:***

- **Use soaper tip only for chemicals/soap.**
- **Use ONLY soaps and chemicals designed for pressure washer use.**
- **Do NOT use bleach.**
- **Ensure water to chemical ratio is 7:1.**
- **Ensure chemicals are NOT allowed to remain in pump after use. Failure to clean chemicals out of pump will damage unit and void warranty.**

1. Connect the Chemical Injector Hose to the Chemical Injector Connection on Pump. Tighten Securely.
2. Place alternate end of Chemical Injector Hose into chemical/cleaning solution to be used. This end of the Chemical Injector Hose will have a filter to keep foreign debris from entering pump.
3. After use of Chemicals/Cleaning Solutions, place the end with the filter of the Chemical Injector Hose in clean water and allow operating for three (3) minutes to clean excess chemicals from pump housing.

NOTE: ***Chemicals will NOT siphon with high pressure wand tips, only use the black soaper low pressure tip.***



Operation of Pressure Washer

Pressure Washer Use Location:

WARNING!

Running pressure washer gives off carbon monoxide gas. It is odorless, colorless, and highly toxic.
Breathing carbon monoxide gas can leads to fainting, nausea or may result in death.

- Only operate pressure washer outdoors.
- Prevent exhaust gas from entering, through windows doors or ventilation intakes, any confined areas.
- DO NOT operate pressure washer inside any enclosed or roofed areas.

BEFORE OPERATING PRESSURE WASHER: Refer to Pre-Operating Instruction section for additional procedures and definitions.

1. Check pressure washer condition.
    a. Inspect for signs of damage, oil or fuel leaks.
    b. Remove excessive dirt and/or debris from the unit.
2. Check Inlet, Outlet, and Chemical Injection Hoses.
    a. Inspect general condition of hoses to ensure hoses are in serviceable condition.
        i. Outlet Hose must be constructed to withstand High-Pressure.
    b. Ensure hoses and nozzles are securely installed.
3. Check the Engine.
    a. Ensure proper engine oil amount.
    b. Ensure air cleaner element is clean and installed.
    c. Ensure proper fuel level amount.
4. Ensure pressure washer is on a level surface.
5. Ensure engine switch is in the "OFF" position.
6. Ensure pressure washer is at least 7ft away from building walls and other equipment during operation. Do NOT place flammable objects close to pressure washer.
7. Always operate within the length of your water hose for inlet pressure.
8. Do not operate with any tarps, covers, and any objects on top of the unit.
9. Exhaust gas is hot and can cause combustible materials around your unit to ignite, make sure unit is not operated within 7 feet of any combustible materials and always keep a properly charged fire extinguisher and be familiar with the use of the fire extinguisher.

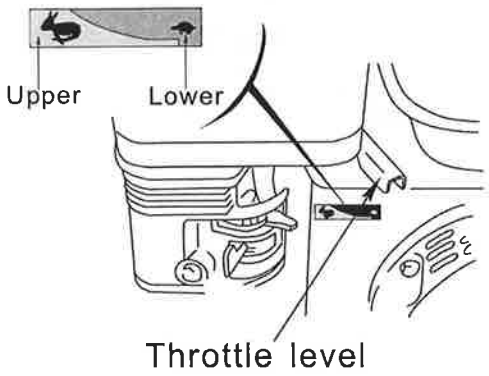
Operation of Pressure Washer

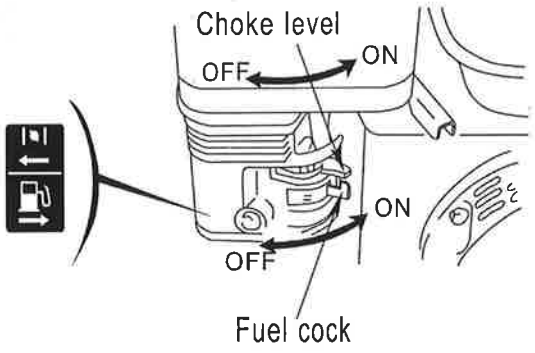
STARTING THE ENGINE:

Refer to the Controls and Features section for additionaldiagrams and definitions.

Do not run Pressure Washer without proper inlet water supply to high pressure pump and for more than 1 minute without depressing trigger on gun to circulate water to avoid damaging pump.

1. Depress the Spray Gun trigger.
2. Move the fuel cock to the "ON" position.
3. To start a cold engine, place the choke lever in the "OFF" position. For panel mounted choke pull to choke. To restart a warm engine, leave the choke level in the "ON" position. For panel mounted choke models push to run or to start a warm engine.
4. Move the throttle valve lever away from the "LOWER" position, about 1/3 of the way toward the "UPPER" position.
5. Place the throttle lever halfway between the "UPPER" and "LOWER" settings.
6. Place the engine switch to the "ON" position.
7. For electric start models equipped with s key switch turn the switch to the ON position, for models with rocker switch start push the rocker switch to ON position. Hold the key in the start position or the rocker switch in start position until engine starts or for NO MORE than 10 engine rotations. If engine does NOT start, wait 15 seconds and repeat starting procedures.
8. After starting the engine, move the throttle lever to the "UPPER" position for self-priming.





Operation of Pressure Washer

PRESSURE WASHER OPERATION:

CAUTION:

- **Avoid contact of high-pressure water exiting spray gun with humans or animals. See "Rules for Safe Operation" for medical information.**
- **Use proper pressure setting to avoid damage of cleaning surface.**
- **Point tip of spray gun toward cleaning surface and depress trigger.**

ADJUSTING PRESSURE OUTPUT: The pressure setting is preset at time of manufacturing to provide optimum pressure and cleaning.

TO LOWER PRESSURE:

- Increase the distance between the Spray Gun and the surface being cleaned or change the tip to a wider spray pattern
- Reduce the speed of the engine by moving the throttle lever toward the "LOWER" setting
- Adjust the tip to a higher number tip and to to a wider water fan and less pressure
- Adjust the Pressure Regulator Knob on the pump. Turn counterclockwise to lower pressure output After use, return the Pressure Regulator Knob to its original position

Pressure Regulator

Operation of Pressure Washer

STOPPING THE ENGINE:

Refer to the Controls and Features section for additional diagrams and definitions.

IN EMERGENCY:

1. ***Turn the engine switch to the "OFF" position.***
2. **Turn the inlet water supply to the "OFF" position.**
3. **Depress gun trigger to expel remaining pressurized water.**

NORMAL PROCEDURE:

1. If the chemical injection hose was used with chemicals, allow pressure washer to operate for three (3) minutes while in-taking clean water through chemical injection hose.
2. Move the throttle valve lever to the "LOWER" position.
3. Turn the engine switch to the "OFF" position.
4. Turn the fuel cock to the "OFF" position.
5. Depress the spray gun trigger.

Transporting and Storing the Unit

CAUTION:

- **To avoid fire, allow unit to cool down for at least twenty (20) minutes before transporting or storing the unit.**
- **Always transport and store the unit with the fuel cock in the "OFF" position.**
- **Always keep unit in horizontal position to the ground to prevent fuel from spilling. Spilled gasoline and gasoline vapor may ignite.**
- **Gasoline is extremely flammable and explosive.**

STORING THE PRESSURE WASHER: Refer to the Controls and Features sectionfor additional diagrams and definitions.

1. Ensure the storage site for the unit is clean and dry.

Before long term storage of your power equipment product, typically30 days or more, perform the following:

2. Set the fuel cock (valve) to the "OFF" position.
3. Let the unit continue to run until it stops itself, burning all of the fuel in the fuel system. Keep inlet water supply to pump and continue to use the spray wand with the trigger depressed to keep water circulating in the pump and to expel pressurized water.
4. Turn the ignition switch to the "OFF" position.
5. Drain the engine oil in accordance with the "Engine Oil Change Procedures" in this Owner's Manual's Maintenance section. Do NOT re-fill with oil until ready to use again.
6. Remove the Spark Plug in accordance with the "Spark Plug Maintenance" in the Owner's Manual's Maintenance section. Spray a lubricant, such as WD40®, into the Spark Plug hole to lubricate the top of the piston and walls of the cylinder. Replace the Spark Plug.
7. Pull starter rope until resistance is felt. This will place the valves in the closed position.
8. Add the recommended amount of fuel stabilizer, in accordance with the amount recommended by the manufacturer of the fuel stabilizer, to the unused gasoline left in the unit's tank.
9. Place the unit in a clean, dry, and secure location.
10. Cover the unit to protect from dust.
11. If stored in freezing conditions you can utilize a short garden hose and a funnel to install anti-freeze into the inlet connection on the pump.

Maintenance

MAINTENANCE SCHEDULE	
PROCEDURE	**TIME**
Engine Oil Check	Each Use
Replace Engine Oil	After Each 40 Hours of Use (For Initial Break in – After First (1st) 10 Hours of Use
Air Cleaner Filter	Check Each Use/Replace As Needed or After Every 100 Hours of Use
Impeller Check	After 300 Hours of Use or After First Year
Air Cleaner Wash	When Needed/ Maximum 100 hrs run time
Spark Plug	When Needed
Valve Clearance	Check & Re-adjust annually or after 300 Hours of Use
Fuel Tank	Replace Every 3 Years Based on Condition

NOTE: Refer to Following Procedures for Proper Method to Perform Maintenance

NOTE: Follow manufacturers service procedures for high pressure pump.

AR industrial triplex plunger and axial high pressure pumps use SAE30 Non-detergent Mineral Pump oil. This is specially formulated oil for use in high pressure plunger pumps.

Establishing a regular crankcase oil change schedule is one of the most important steps in preventive maintenance and to assure long pump life. Change initial fill after 50 hrs. of operation. Thereafter change every 3 months or at 500 hr. intervals (depending on usage). Failure to follow these requirements could void the pump warranty. PLEASE RECYCLE: Return USED oil to collection center.

Recommended Oil

Maintenance

ENGINE OIL CHANGE PROCEDURES: Do not run without proper water supply to high pressure pump to avoid damaging pump.

Periodic Maintenance of your engine oil should be performed after each 40 hours of use of you Power Equipment Product. Check your engine oil level prior to each use.

1. Start your engine and let it warm up to get the oil warm and thinner. After warm up turn engine off. Be sure during warm up sufficient inlet water is supplied to unit and gun trigger is depressed to avoid damage to the pump. Remove the dipstick (Refer to Controls and Features section) by turning counter clockwise. Remove the oil drain plug (Refer to Controls and Features section) located below the dipstick utilizing the appropriate tools. During warm up on pressure washer always supply inlet water and depress spray gun to circulate water in pump to avoid damage to pump.

   CAUTION: THE OIL MAY BE HOT

2. Drain the engine oil into an approved receptacle and discard in accordance with all Federal and State Regulations. Never dump your used engine oil on the ground or into drains, only discard in an approved manner. Check with your local authorities to determine the regulations in your area.

   WARNING! AVOID SPLASHING OF HOT OIL; IT CAN BURN YOU AND CAUSE SEVERE INJURY.

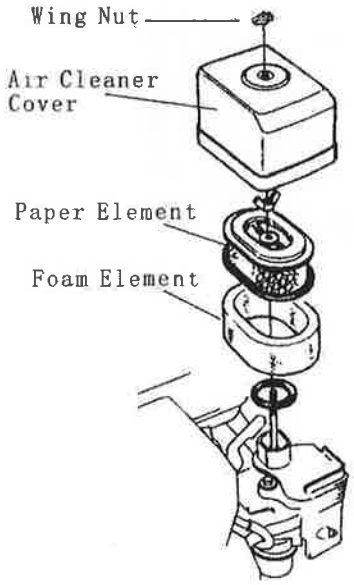
3. After oil is completely drained, replace oil drain plug and tighten with appropriate tools. Replace oil with the proper oil for your product. Refer to the Pre-Operating Instructions: Engine Oil Level Check section for exact fill requirements. Always use your dipstick to check the oil level and only fill to the full mark on the dipstick. Never overfill the engine, as this can cause damage to the unit and void warranty.
4. Replace the dipstick on your engine.
5. AR industrial Triplex plunger high pressure pumps use SAE30 Non-detergent mineral pump oil. This is specially formulated oil for use in high pressure plunger pumps. Establishing a regular crankcase oil change schedule is one of the most important steps in preventative maintenance and to assure long pump life. Change initial fill after 50 hrs. of operation. Thereafter change every 3 months or 500 hr. intervals. Failure to follow requirements could void pump warranty. PLEASE RECYCLE used oil to collection center.

PROPER MAINTENANCE OF YOUR UNIT WILL INCREASE THE LIFE OF YOUR PRODUCT. THE OIL MUST BE CHANGED ON A REGULAR BASIS FOR PROPER OPERATION, AND RELIABILITY AND TO ALSO MAINTAIN YOUR WARRANTY ON THIS PRODUCT.

Maintenance

AIR CLEANER MAINTENANCE:

1. Remove the wing nut (item 7 in "Air Cleaner B" below) to remove and check the air filter element.
2. For Paper Type Air Filters, replace with the correct Air Filter for your unit. They are available at your dealer or from LIFAN Power USA. Order your filter by calling toll free 866-471-7464 Option 2.
3. Re-Install the air filter element into the air filters housing.



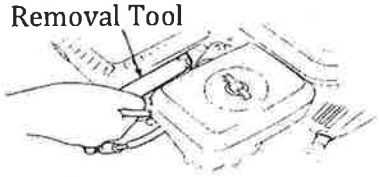
Air Cleaner and Filter Cartridge (Call Lifan Power USA for replacement air filter cartridge's or visit your retailer)

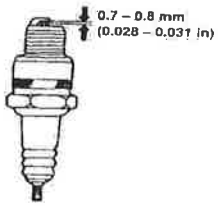
Maintenance

SPARK PLUG MAINTENANCE:

1. Remove Spark Plug Cap.
2. Remove Spark Plug with socket and handle supplied with your unit.
3. Clean any carbon build-up around the Spark Plug.
4. Check the Spark Plug Gap and adjust if necessary. 0.028-0.031inch gap.
5. Lubricate the threads of the spark plug with anti-seize compound or engine oil.
6. Re-install the Spark Plug and Spark Plug Cap.

Spark Plug
Removal Tool





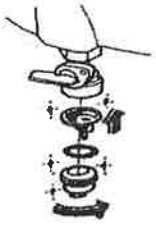
FUEL SYSTEM MAINTENANCE:

NOTE: Periodically you can get sediment or trash in your Carburetor Bowl. Use the following procedures to clean:

1. Turn the fuel cock (valve) to the "OFF" Position.
2. Remove the carburetor bowl by removing the mounting bolt located at the bottom of the bowl.
3. Dump out the old fuel and sediment into an approved container
4. Clean carburetor bowl thoroughly.
5. Fit a new rubber washer into place and re-attach fuel bowl to the carburetor. **NOTE: Removal of the drain screw at the bottom of the bowl can drain the fuel to remove smaller debris that has collected in the bowl.**
6. After bowl is securely back in place, turn the fuel cock to the "ON" position for use.

Units equipped with a pre-filter for fuel will have a filter housed just below the fuel cock. Remove the fuel filter element and clean or replace. (diagram below) the fuel filter element.

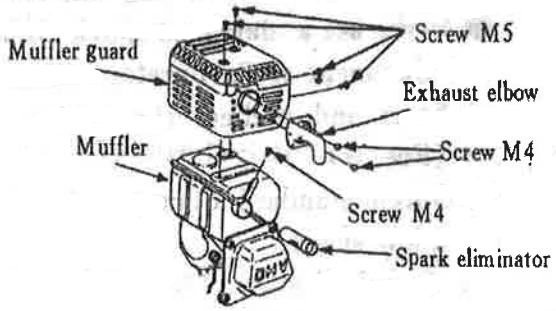
Fuel Filter Element Removal



Fuel Filter Element Assembly

Maintenance

Muffler Maintenance: Every 50 hrs of operation remove the "Spark Arrestor" per the diagram below and clean or replace.



ANNOVI REVERBERI TRI-PLEX PLUNGER PUMP:

Unit undergoes extensive testing at the time of manufacturing. Always check pump oil just like the engine oil and use recommended oil for adding or changing. AR Tri-Plex RRV Model pumps are tested to 2000 hours of use under standard and normal maintenance as outlined in this manual. Pump under warranty by manufacturer. Refer to Warranty Policy for details. Rebuild kits are available for these AR RRV High Pressure Tri-Plex Industrial Grade Pumps. Call Lifan Power USA for further details and information.

Do not run Pressure Washer without proper inlet water supply to high pressure pump and for more than 1 minute without depressing trigger on gun to circulate water to avoid damaging pump.

USAGE IN HIGH ALTITUDE REGIONS:

In regions with high altitude, the standard carburetor produces overly dense combinations of fuel and air, which result in decreased engine performance and increased fuel consumption. To maintain high engine performance at high altitudes, install a high altitude carburetor main spray nozzle and re-adjust the adjusting screw for idle speed. For usage in regions with an altitude of over 4,527ft (1380m), contact your dealer to replace the standard carburetor and make needed adjustments in advance. Even with a proper high altitude carburetor spray nozzle installed in the engine, the power output of the engine will drop about 3.5% with every 1000ft (305m) increase in altitude. If the standard carburetor jets are not replaced and adjusted for usage in high altitude, the increased altitude effect will be even more severe.

NOTE: Usage of the water pump in regions with lower altitude than the high altitude carburetor spray nozzle is applicable, may result in decrease of engine performance. The engine may become overheated and over-lean combination of fuel and air produced, may cause severe damage to the engine.

Troubleshooting

IF THE ENGINE WILL NOT START:

1. Check to ensure switches are in the "ON" position.
2. Check engine oil level. The unit possesses a Low Oil Shutdown feature that will not allow your engine to start if the oil is below safe operating levels. This feature is installed to increase the life of your engine and prevent engine damage. If oil level is low, fill to the full mark on dipstick. Refer to the Pre-Operating Instructions: Engine Oil Check section for exact oil type and amounts.
3. Check the fuel level to insure adequate fuel. Add fuel if necessary.
4. Remove and inspect the spark plug for cleanliness and proper electrode gap. If needed, clean or replace the spark plug. Refer to Spark Plug Maintenance in the Maintenance section of the Owner's Manual for proper procedure.
5. If the unit will still NOT start after performing the above checks, call our customer hotline at LIFAN Power USA Toll Free 1-866-471-7464 or take the unit to an authorized Service Center.

NOTE: Periodically on the initial start-up or after the unit has been stored for a long period of time, the float for your "Low Oil Shutdown" system will stick to the bottom of the oil pan. Locate the two (2) wires to the Low Oil Sensor Diode (figure "Low Oil Sensor Diode" to the right) located on the side of the engine block. Unplug these wires and, **only after ensuring the engine is full of oil,** start the engine and allow to run until warm (normally 20 minutes, as this will heat the oil and release the float on the Low Oil Shutdown System). Then re-plug the wires to the terminals on the Low Oil Shutdown Sending Unit.

IF WATER IS LEAKING:

- Ensure Outlet Hose is securely tightened.
- Ensure Inlet Hose nut is securely tightened.
- Call dealer for repair if pump housing is leaking.

IF ABNORMAL NOISE FROM PUMP HOUSING:

- No water inside pump – Ensure Inlet Hose is connected and supplying recommended supply of water to pump. Check to see if the inlet hose is kinked.

IF NO WATER EXITING FROM SPRAY WAND:

- Ensure Inlet Hose is NOT clogged or kinked.

Pressure Washer Safety

1. **Never operate a gasoline engine powered product in any enclosed spaces, as they product deadly Carbon Monoxide Poisonous Gases.**

2. **Do NOT operate your power equipment in inclement weather such as rain, snow, and/or sleet.**

3. **Do NOT operate your power equipment within seven (7) feet of any flammable materials.**

4. **When refueling your power equipment never smoke or refuel near any flame or ignition devices. Never refuel while the unit is running. If during the refueling process some fuel is spilled, always completely clean the fuel and allow sufficient drying time prior to re-starting your unit. Gasoline vapors ignite easily and are very dangerous.**

5. **NEVER ALLOW CHILDREN OR ANIMALS TO BE NEAR THIS EQUIPMENT DURING OPERATION. ONLY QUALIFIED PERSONS SHOULD OPERATE THIS EQUIPMENT. PLEASE FOLLOW ALL GUIDELINES CONTAINED IN THIS OWNER'S MANUAL FOR THE SAFE OPERATION OF THIS EQUIPMENT.**

Safe Operation

Follow Safety Rules for Operation

After you have checked and fueled the equipment and positioned it in a suitable worksite, it is time to start your pressure washer. The following are the procedures necessary for safe, successful operation of your pressure washer.

⚠ WARNING
Failure to follow safety rules may result in serious injury or death to the operator or bystanders.

Instruct operators. Owner must instruct all operators in safe set-up and operation. Do not allow anyone to operate the pressure washer who has not read the Owner's Manual and been instructed on safe use practices.

Safety equipment/controls. Always operate with all safety covers, guards, and barriers in place and in good working order, and all controls properly adjusted for safe operation.

Moving parts. Keep hands, feet, hair and apparel away from moving parts. Air vents may cover moving parts and should be avoided as well. Never remove any guards while the unit is operating.

Ear Protection. Hearing can be damaged from prolonged, close-range exposure to the type of noise produced by this pressure washer. The use of ear plugs or other hearing protection device is recommended for persons working within 15-20 feet of the running pressure washer for an extended period of time.

Eye Protection. Wear ANSI/OSHA required "Z87.1" safety glasses when operating or servicing the pressure washer. Pressurized spray from this unit can cause severe injury to the eyes. Small objects can become airborne as the spray contacts them

NOTE!
Before starting the pressure washer, review the following general safety rules for operation:

Conditions for Use

Know how to stop. Be thoroughly familiar with proper use of the equipment and all controls and connections. Know how to stop the pressure washer and depressurize system quickly if needed.

Instruct all operators. The pressure washer's owner must instruct all operators and potential renters in safe set-up and operation. Do not allow anyone to operate the pressure washer who has not read the Owner's Manual and been instructed on its safe use.

Safe Operation

Adult control only. Only trained adults should setup and operate the pressure washer. Do not let children operate. Pressure washers can generate forces greater than children can control and require judgment beyond what can be expected of children.
Under the influence. Never operate, or let anyone else operate, the pressure washer while fatigued or under the influence of alcohol, drugs, or medication.
Safety equipment / controls in place. Do not operate the pressure washer unless all safety covers, guards, and barriers are in place and in good working order, and all controls are properly adjusted for safe operation.
Damaged. Do not operate the pressure washer with damaged, missing, or broken parts. Never attempt to repair a high pressure hose or component. Always replace it with a part that is rated at or above the pressure rating of the machine.
Modifications. Do not modify the pressure washer in any way or deactivate any safety device. Do not change or add to fuel tank, fuel lines, or exhaust system.
Modifications can result in hazards related to carbon monoxide poisoning, fuel leaks, fire, explosion or other serious safety hazards, and will also void the warranty.

During Use
Stay alert. Watch what you are doing at all times.
Clear work area Clear the work area of all bystanders.
Keep children and pets away.
Keep spray away from electrical wiring. Spray contact with electrical wiring will likely result in severe electrical shock or electrocution.
Hot exhaust/parts Stay clear of engine exhaust. Never touch hot engine muffler, or other hot surfaces. All are very hot and will burn you.
Never pull by hose. Do not move this machine by pulling on the hose. Hose or connections could fail and result in catastrophic high pressure release of fluid as well as hose whipping.
Avoid sharp objects. Keep hose away from sharp objects. Bursting hoses may cause injury.
No load bearing. Do not use the pump to support other items of equipment that impose unacceptable loads on the pump. Do not attempt to use this machine as a prop.
Lock trigger safety latch when not spraying. Spray gun is equipped with a built-in trigger safety latch to guard against accidental trigger release. Rotate safety latch to the locked position when not spraying.

Do not run Pressure Washer without proper inlet water supply to high pressure pump and for more than 1 minute without depressing trigger on gun to circulate water to avoid damaging pump.

Safe Operation

Leavingunattended Alwaysturnoffthepressure washerandrelievesystempressurebeforeleavingthe sprayer unattended

Prompt Emergency Response

Seekmedicalaidforsuspectedinjectioninjury. If injured by high-pressure fluid, no matter how small the wound is, see a doctor at once. A typical injection injury may be a small puncture wound that does not look serious. However, severe infection or reaction can result if proper medical treatment is not administered immediately by a doctor who is familiar with injection injuries.

Seek medical aid for suspected carbon monoxide poisoning. The running engine gives off carbon monoxide, a poisonous gas that can kill you. If you start to feel sick, dizzy, or weak while using the pressure washer, shut off the engine and get to fresh air RIGHT AWAY. See a doctor. You may have carbon monoxide poisoning.

PutonPersonalProtectiveGear

⚠ WARNING: Personal Protective Gear

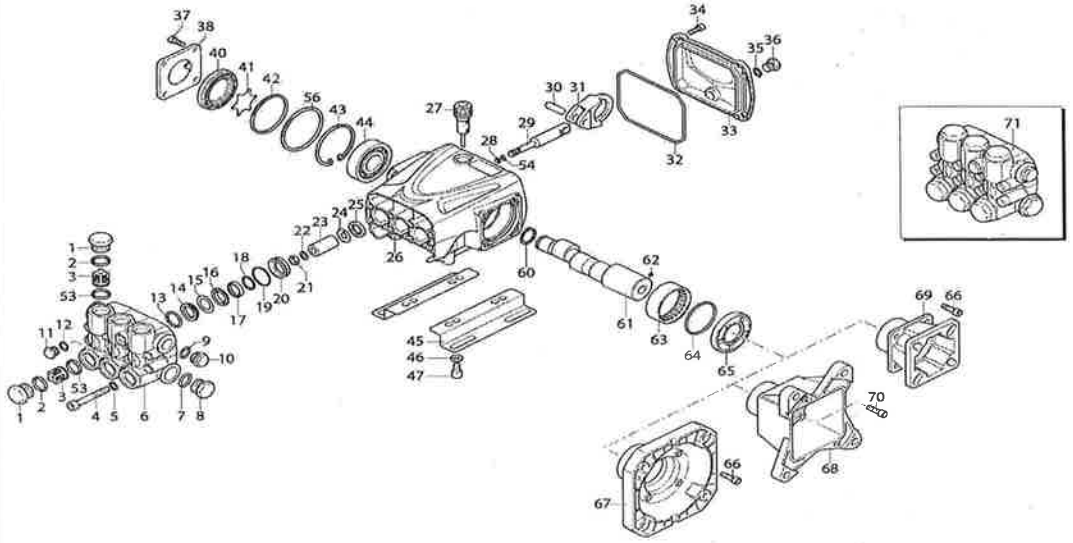
Use personal protective gear to prevent:
- Eye and skin injection injury from high pressure spray
- Eye injury from flying debris

1. Wear waterproof gloves, safety glasses with side and top protection, face protection, and protective clothing when operating the machine. If spraying pressure washer specific chemicals, wear a respirator mask to avoid inhalation of vapors if directed on the chemical label.
2. Wear non-slip, protective footwear. Use of pressure washer can create puddles and slippery surfaces. Wear footwear capable of maintaining a good grip on wet surfaces.
3. Surfaces. Wear footwear capable of maintaining a good grip on wet surfaces.

EXCLUSIONS

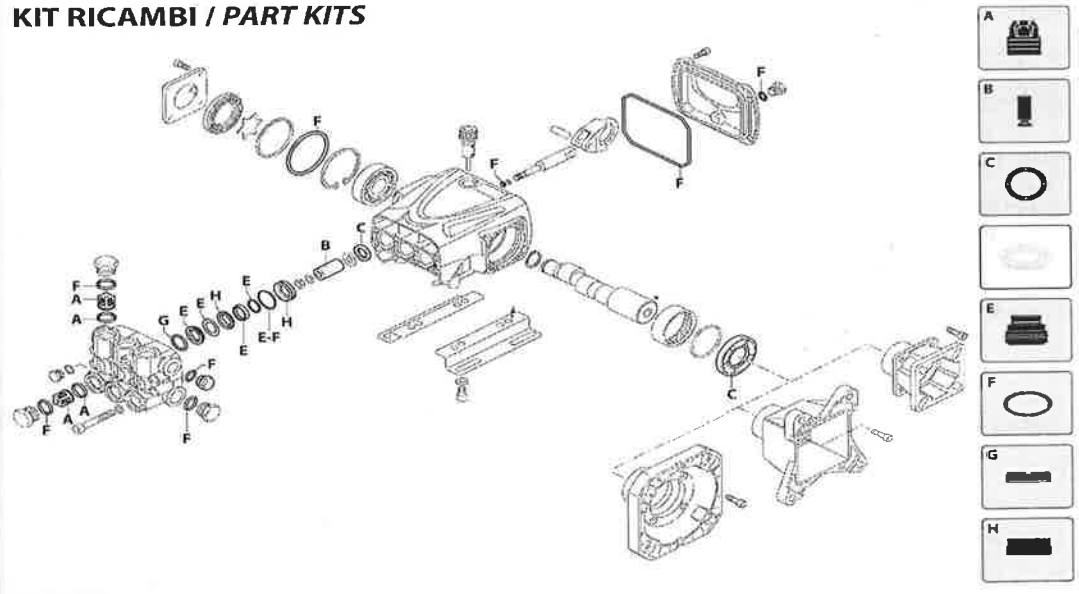
- Failure to perform "Periodic Maintenance" as required and specified in the supplied "Owner's Manual."
- Costs of normal maintenance and adjustments.
- Failures caused by any contaminated fuels, oils, or lack of proper oil levels.
- Repairs or diagnostics performed by individuals other than Lifan authorized dealers not authorized in writing by Lifan.
- Failures due to normal wear and tear, accident, misuse, abuse, negligence or improper use.
- As withall mechanical devices, the Lifan engines need periodic part(s) service and replacement to perform as designed. This warranty will not cover repair when normal use has exhausted the life of a part(s) orengine.
- Failures caused by any external cause or act of God, including but not limited to, collision, theft, vandalism, riot, war, fire, freezing, lightning, earth-quake, windstorm, hail, water, flood, tornado, or hurricane or any occurrence outside of normal use and activity .
- Damage related to any animal infestation to include rodent and/or insect infestation.
- Products that are modified or altered in a manner not authorized in writing by Lifan.
- Any incidental, consequential or indirect damages caused by defects in materials or workmanship, or any delay in repair or replacement of the defective part(s).
- Failure due to misapplication.
- Telephone, cellular phone, facsimile, internet access, or other communication expenses.
- Expenses related to "customer instruction" or troubleshooting where no manufacturing defect is found.
- Overnight freight or special shipping costs for replacement part(s).
- Overtime, holiday or emergency labor.
- Starting batteries, fuses, light bulbs and engine fluids.

RRV	**E**	3400rpm	ø 5/8"
RRV	**D**	3400rpm	ø 3/4"
RRV	**D**	3400rpm	ø 1"



UN003432-FS

KIT RICAMBI / *PART KITS*



UN003433-FS

(3226600)

322 Series

RRV 3400 rpm E version ø 5/8" for electric motor (60Hz) 56-C
3 G25
3.5 G20

RRV 3400 rpm D version ø 3/4" for horizontal PTO shaft gas engine
3 G27
3.5 G25

RRV 3400 rpm D version ø 1" for horizontal PTO shaft gas engine
3 G30
3 G36
3.5 G36
4 G40 H

Pos.	Cod.	Denominazione		Description	Qt	Note
1	960090	Tappo		Plug	6	◆ ⊠ ⊠ ⊠ C=54Nm
	960090	Tappo		Plug	6	⊠ ⊠ ★ C=54Nm
	960850	Tappo		Plug	6	▼ C=54Nm
2	960160	Guarnizione OR	Ø 17,86x2,62	O-ring	6	⋈
3	889052	Valvola completa		Complete valve	6	
4	800860	Vite	TCEI M8x55	Screw	8	C=25,4Nm
5	1381850	Rondella		Washer	8	
6	3220090	Testa		Head	1	◆ ⊠ ⊠ ⊠ ⊠ ⊠ ★
	3220770	Testa	nikelata	Head	1	▼
7	180101	Guarnizione OR	Ø 17,5x2	O-ring	1	⋈
8	820361	Tappo	1/2" G ottone	Plug	1	C=40Nm
9	740290	Guarnizione OR	Ø 14x1,78	O-ring	1	⋈
10	1980740	Tappo	3/8" G ottone	Plug	1	C=25Nm
11	880581	Tappo	1/4" G	Plug	1	C=15Nm
12	820510	Guarnizione OR	Ø 10,82x1,78	O-ring	1	
13	2760220	Anello	appoggio Ø15	Ring	3	
14	1342761	Guarnizione	Ø 15	Gasket	3	⋈
15	3200680	Anello	antiestrusione	Ring	3	
16	3220150	Guida pistone		Piston guide	3	
17	3200690	Guarnizione	Ø 15	Gasket	3	
18	3200700	Anello	antiestrusione	Ring	3	
19	770260	Guarnizione OR	Ø 23,52x1,78	O-ring	3	⋈
20	3220140	Guida pistone		Piston guide	3	
21	1260110	Dado	M8	Nut	3	C=12Nm
22	1260100	Rondella		Washer	3	
23	1780070	Pistone	Ø 15	Piston	3	
24	1260091	Disco		Plate	3	
25	1260460	Tenuta olio		Oil seal	3	
26	3220010	Corpo pompa		Pump body	1	
27	880130	Tappo		Plug	1	C=5Nm
28	480480	Guarnizione OR	Ø 4,48x1,78	O-ring	3	⋈
29	3220060	Pistone	di guida	Piston	3	
30	3220070	Spina		Pin	3	
31	3220040	Biella		Connecting-rod	3	☐ ◆ ⊠ ⊠ ⊠ ⊠ ★
	3220560	Biella	bronzo	Connecting-rod	3	☐ ▼
32	651540	Guarnizione OR	Ø 107,62x2,62	O-ring	1	
33	3220030	Coperchio		Cover	1	
34	3200220	Vite	TCEI 6x16	Screw	4	C=8Nm
35	820510	Guarnizione OR	Ø 10,82x1,78	O-ring	1	
36	880581	Tappo	1/4" G	Plug	1	C=15Nm
37	1200430	Vite	TCEI M6x16	Screw	4	C=10,4Nm
38	3200070	Supporto		Support	1	

Pos.	Cod.	Denominazione		Description	Qt	Note
40	3220080	Indicatore livello		Level gauge	1	
41	3200090	Disco		Plate	1	
42	650560	Guarnizione OR	Ø 56,82x2,62	O-ring	1	⋈
43	200390	Anello	seeger Ø1 62	Ring	1	
44	1981210	Cuscinetto		Bearing	1	
45	3200210	Piede		Foot	2	Optional
46	1322640	Rondella		Washer	4	Optional
47	850250	Vite	TCEI M8x12	Screw	4	Optional
53	880830	Guarnizione OR	Ø 15,54x2,62	O-ring	6	
54	1080550	Anello	antiestrusione	Ring	3	
56	3220780	Guarnizione OR	Ø 61,8x0,5	O-ring	1	
60	1260770	Anello	seeger Øe 25	Ring	1	
61	3220530	Albero	marcato 6	Shaft	1	◆
	3220540	Albero	marcato 7	Shaft	1	⊠
	3220490	Albero	marcato 6	Shaft	1	⊠
	3220500	Albero	marcato 7	Shaft	1	⊠
	3220240	Albero	marcato 5	Shaft	1	⊠ ▼
	3220450	Albero	marcato 6	Shaft	1	⊠
	3220460	Albero	marcato 7	Shaft	1	★
62	820440	Vite	M6x6	Screw	1	⊠ ⊠ ⊠ ⊠ ★
63	3220260	Cuscinetto		Bearing	1	
64	3220430	Guarnizione OR	Ø 56,87x1,78	O-ring	1	
65	3220270	Anello	tenuta	Ring	1	
66	780060	Vite	TCEI M6x25	Screw	4	C=10,4Nm
67	3220210	Flangia		Flange	1	⊠ ◆
68	3220250	Flangia		Flange	1	⊠ ⊠
69	3220230	Flangia		Flange	1	⊠ ⊠ ★
70	780330	Vite	TCEI M6x20	Screw	4	⊠ ◆ C=10,4Nm
71	3229201	Premontaggio testa		Head assembly	1	◆ ⊠ ⊠ ⊠ ⊠ ★
	3229203	Premontaggio testa		Head assembly	1	▼

KIT RICAMBI - *PART KITS*

A=KIT 1828 valvole *valves*		B=KIT 2739 ø 15 pistoni *pistons*		C=KIT 42555 tenute olio *oil seals*		E=KIT 42556 ø 15 tenute acqua *water seals*	
Pos.	Q.ty	Pos.	Q.ty	Pos.	Q.ty	Pos.	Q.ty
3	6	23	3	25	3	14	3
53	6			52	1	15	3
						17	3
						18	3
						19	3

F=KIT 42550 OR *O-Rings*				G=KIT 2191 ø 15 anelli appoggio *support rings*		H=KIT 42557 guida pistoni *pistons guide*	
Pos.	Q.ty	Pos.	Q.ty	Pos.	Q.ty	Pos.	Q.ty
2	6	42	1	13	3	16	3
7	1					20	3
9	1						
19	3						
28	3						
32	1						
35	1						

SIMBOLOGIA - *SYMBOLS*

- ⊠ Per / *For* RRV 3 G25 E
- ◆ Per / *For* RRV 3.5 G20 E
- ⊠ Per / *For* RRV 3 G27 D
- ⊠ Per / *For* RRV 3.5 G25 D
- ⊠ Per / *For* RRV 4 G36 D
- ⊠ Per / *For* RRV 3.5 G36 D
- ★ Per / *For* RRV 3 G30 D, RRV 3 G36 D
- ▼ Per / *For* RRV 4 G40 H

C Tolleranza coppia di serraggio 0÷10% / *Tightening torque tolerance 0÷10%*

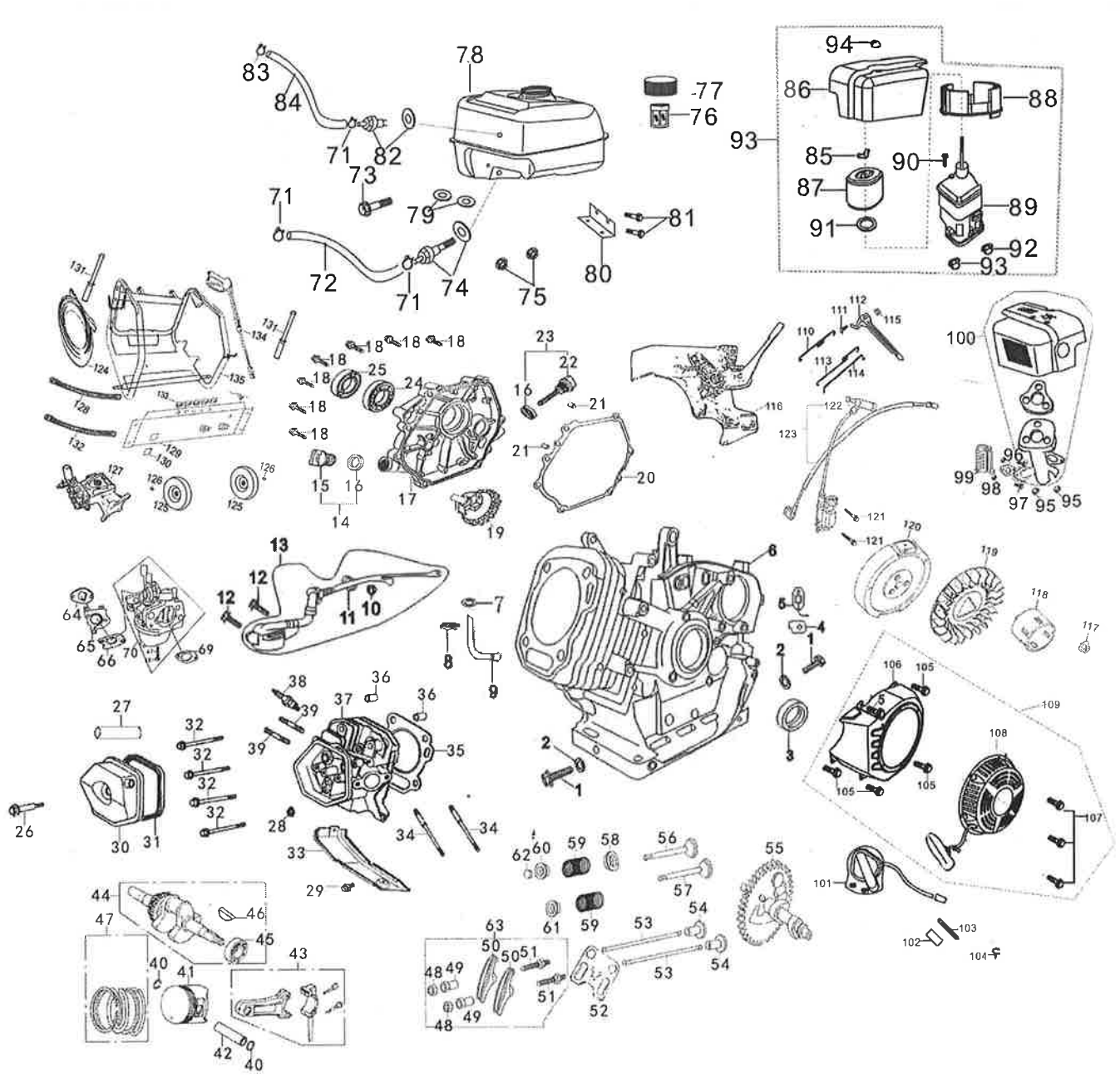
Avvitare con Loxeal 55-14 / *Screw with Loxeal 55-14*

Lubrificare con grasso Molykote PG54 / *Lubricate with grease Molykote PG54*

Lubrificare con grasso Molykote G807 / *Lubricate with grease Molykote G807*

Olio - *Oil*			
Tipo / *Type*	Quantità / *Quantity*		
SAE 15W40	0,35 Kg		

Q3690



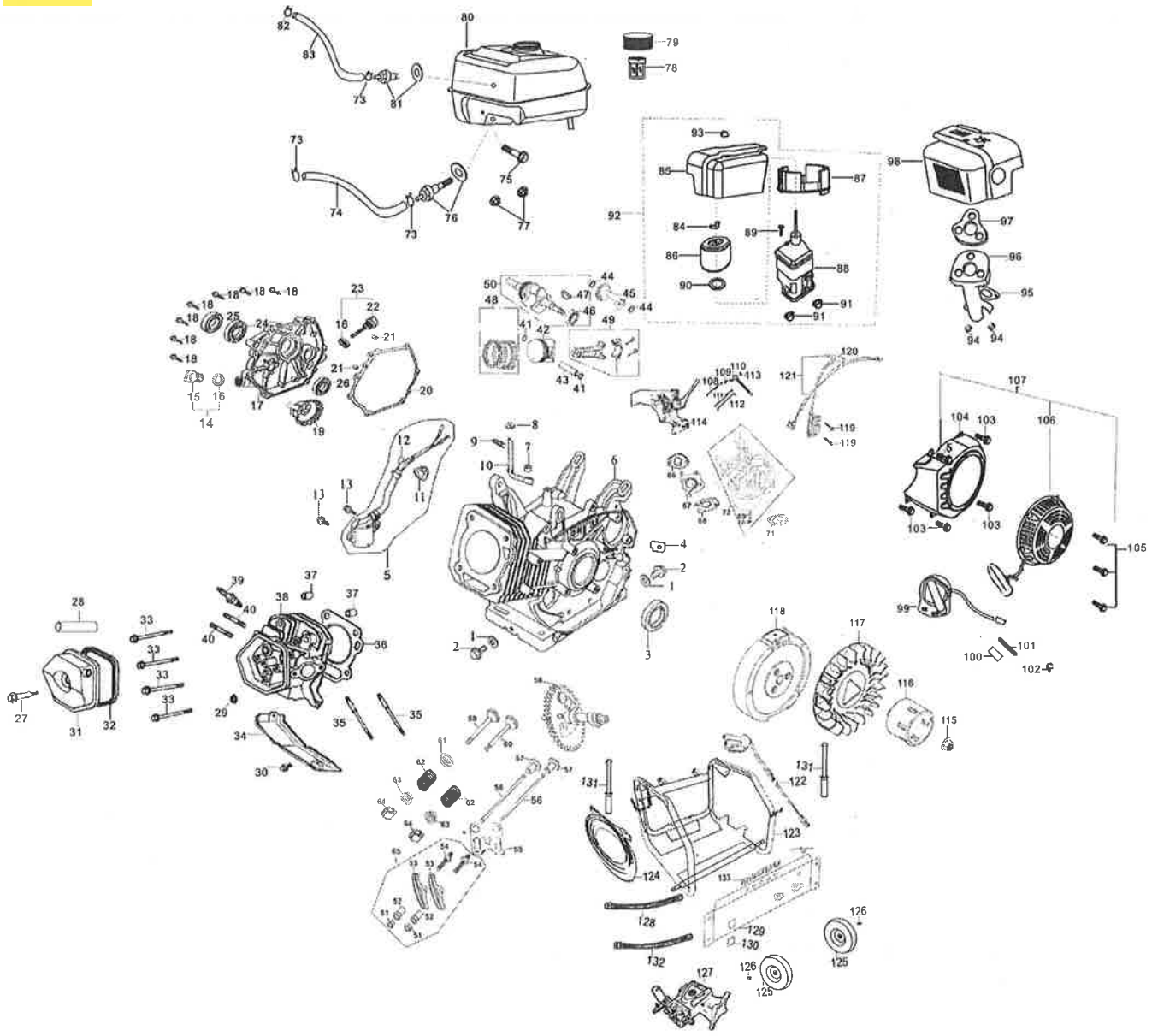
S/N	Part No.	Description	Quantity
1	11115-A0810-0001	Drain plug	2
2	11116-A0810-0001	Washer	2
3	111120-A0810-0001	Oil seal, crankshaft	1
4	11117-A0810-0001	Seal	1
5	27500-A0710-0001	Diode	1
6	11110-A0911-0001	Crankcase	1
7	26113-A0810-0001	Washer	2
8	26112-A0810-0001	Split pin	1
9	26111-A0810-0001	Regulating sway bar	1
10	T312-0001	Nut M10	1
11	11119-A1310-0001	O-ring	1
12	T151-0008	Bolt M6×14	2
13	27400-A0810-0002	Oil sensor	1
14	15610-A0815-0001	Oil plug with Seal	1
15	15611-A0815-0001	Oil plug	1
16	15512-A07Y3-0001	Seal	2
17	11211-A0810-0010	Crankcase cover	1
18	T151-0008	Bolt M8×35	7
19	25100-A0810-0001	Driven gear, regulator assy	1
20	111114-A0810-0001	Gasket, crankcase	1
21	11113-A0810-0001	Set pin Φ8×12	2
22	15511-A0815-0001	Dipstick	1
23	15510-A0815-0001	Dipstick with seal	1
24	T910-0002	Bearing 6206	1
25	11120-A0810-0001	Oil seal, crankshaft	1
26	12220-A0810-0001	Bolt	1
27	11513-A1010-0002	Air duck	1
28	14420-A0810-0001	Seal	1
29	T152-0019	Bolt M6×12	1
30	12200-A0810-0002	Cylinder head cover Assy	1
31	12212-A0810-0001	Gasket, cylinder head cover	1
32	12118-A0810-0002	Bolt	4
33	19121-A0810-0001	Lead wind cover	1
34	17218-A0810-0002	Stud	2
35	12120-A0910-0001	Gasket, cylinder head	1
36	12117-A0810-0001	Set pin	2
37	12100-A0810-0001	Cylinder head Assy	1
38	27100-A0710-0001	Spark plug	1
39	18214-A0810-0002	Stud	2
40	13313-A0710-0001	Piston pin circlip	2

41	13311-A0910-0001	Piston	1
42	13312-A0810-0001	Piston pin	1
43	13120-A0810-0001	Connecting rod assy	1
44	13110-A0810-0001	Crankshaft assy	1
45	T910-0002	Bearing 6206	1
46	13112-A0710-0001	Woodruff key	1
47	13400-A0910-0001	Piston ring set	1
48	14314-A0710-0001	Lock nut	2
49	14312-A0710-0001	Sleeve	2
50	14311-A0810-0001	Valve rocker	2
51	14313-A0710-0001	Adjusting bolt for valve gap	2
52	14220-A0810-0002	Pusher guide	1
53	14210-A0810-0001	Pusher	2
54	14315-A0810-0001	Tappet	2
55	14100-A0810-0001	Camshaft assy	1
56	14412-A0810-0001	Exhaust valve	1
57	14411-A0810-0001	Intake valve	1
58	14417-A0810-0001	Spring retainer, exhaust valve	1
59	14414-A0810-0001	Valve spring	2
60	14415-A0810-0001	Spring seat, exhaust valve	1
61	14413-A0810-0001	Spring seat, intake valve	1
62	14416-A0810-0001	Cap	1
63	14310-A0810-0001	Valve rocker assy	1
64	17219-A0810-0001	Inlet gasket	1
65	16120-A0810-0001	Connecting block	1
66	16113-A1010-0001	Carburetor gasket	1
67	16244-A0910-0001	Main nozzle	1
68	16243-A0910-0001	Main jet	1
69	17113-A0810-0001	Air cleaner gasket	1
70	16100-A0910-0009	Carburetor Assy	1
71	16622-A0710-0002	Screw pipe clamp	3
72	16621-A0810-0006	Outlet pipe	1
73	T151-0006	Bolt M8 × 25	2
74	16630-A0710-0001	Connector	1
75	T314-0001	Nut M6	2
76	16610-A0710-0004	Filter cup	1
77	16400-A0410-0002	Fuel filler cap with packing ring	1
78	16510-A0812-0026	Fuel tank	1
79	16911-A0721-0001	Frame shock pad	2
80	16540-A0811-0001	Plug-in board	1
81	T152-0019	Bolt M6 × 12	2

82	16557-A0710-0001	Air outlet joint	1
83	16622-A0710-0002	Screw pipe clamp	1
84	11513-A1010-0002	Vent pipe	1
85	17111-A0710-0001	Wing nut	1
86	17112-A0812-0001	Air cleaner cover	1
87	17120-A0810-0001	Filter element	1
88	17114-A0810-0001	Air cleaner aeration cover	1
89	17200-A0810-0002	Air cleaner housing	1
90	T152-0011	Bolt M6×28	1
91	17121-A0810-0001	Washer	1
92	T314-0001	Nut M6	2
93	17100-A0812-0003	Air cleaner assy	1
94	17111-A0712-0001	Air cleaner cover nut	1
95	T354-0001	Nut M8	5
96	18172-A0710-0001	Valve gasket	1
97	T152-0013	Bolt M6 * 20	2
98	T314-0001	Nut M6	2
99	18171-A0710-0001	Air valve	1
100	18000-A0812-0015	Muffler assy	1
101	27300-A0712-0001	Engine switch	1
102	19314-A0810-0001	Wire grommet	1
103	19316-A0810-0002	Clip	1
104	16628-A0810-0001	Plastic clip	1
105	T152-0019	Bolt M6×12	5
106	19211-A0810-0033	Fan hood assy	1
107	T152-0036	Bolt M6×8	3
108	23200-A0811-0004	Recoil'starter	1
109	23100-A0812-0023	Recoil starter assy	1
110	26117-A0810-0001	Back spring	1
111	26116-A0710-0001	Lock bolt	1
112	26114-A0810-0001	Regulating arm	1
113	26118-A0810-0001	Fine regutaling spring	1
114	26115-A0810-0001	Pulling rod	1
115	T311-0002	Nut M6	1
116	26200-A0810-0001	Regulating frame assy	1
117	23317-A0810-0002	Nut M16×1.5	1
118	23316-A0810-0001	Starting flange	1
119	19111-A0810-0001	Flywheel fan	1
120	23300-A0810-0001	Flywheel	1
121	T152-0034	Screw M6×25	2
122	27220-A0710-0001	Spark plug cap	1

123	27200-A0810-0001	Ignition coil assy	1
124	55511-EC510-0001	High pressure pipe	1
125	45420-EC510-0001	Wheel	2
126	T315-0002	Nut (M12)	2
127	55600-EC510-0001	High pressure pump assembly	1
128	55510-EC510-0001	Water Outlet Pipe Components	1
129	31200-EC510-0004	Control panel	1
130	31225-B9140-0002	The ignition switch	1
131	32480-BB140-0002	Armrest latch assembly	2
132	55530-E8310-0003	Inlet pipe assembly	1
133	55126-ED910-0002	Nozzle rubber sleeve	5
134	55550-EC510-0001	Wand assy	1
135	55100-EC510-0001	Frame	1

Q4015

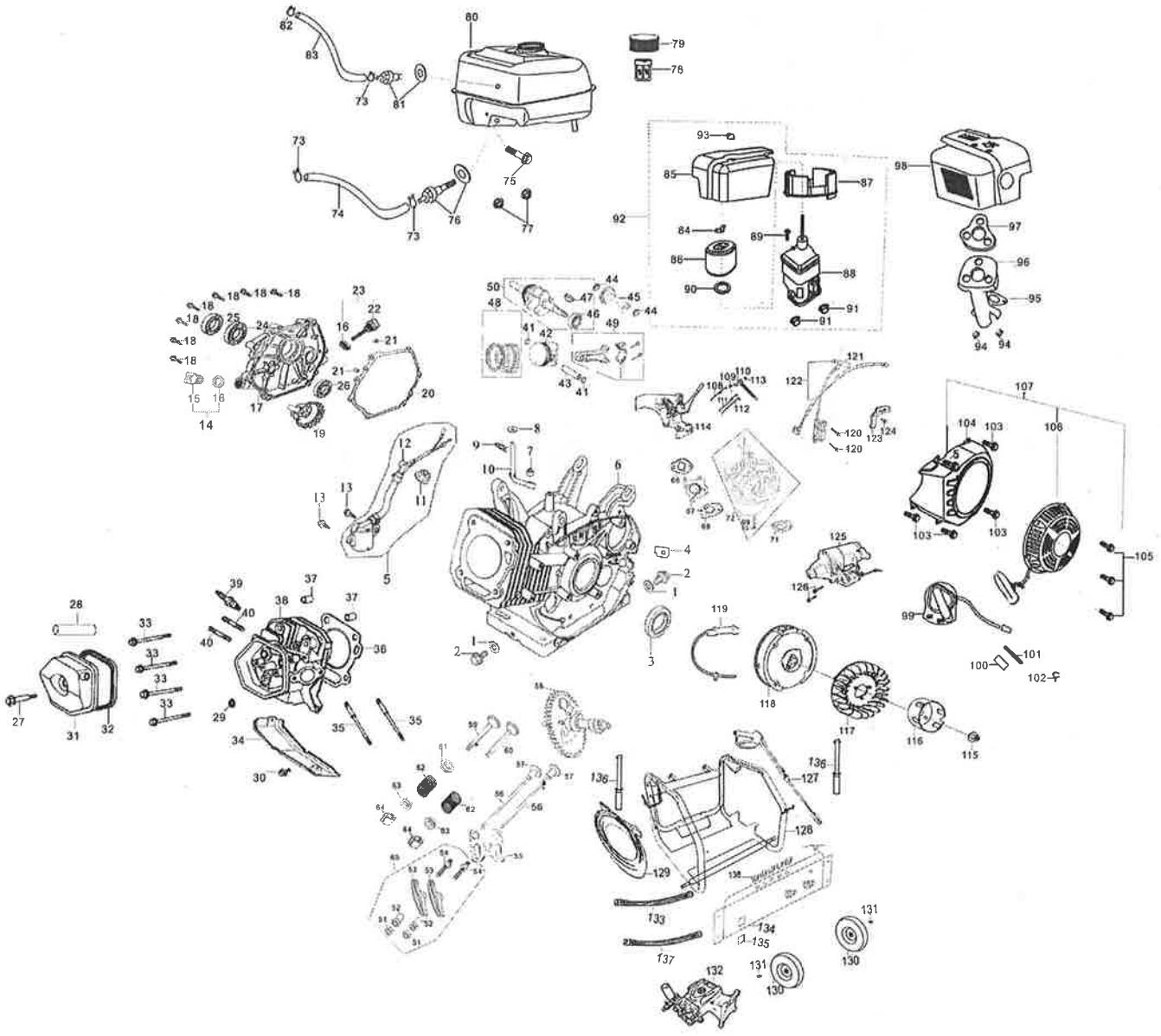


S/N	Part No.	Description	Quantity
1	11116-A0810-0001	Washer	2
2	11115-A0810-0001	Drain plug	2
3	11120-A1010-0001	Oil seal, crankshaft	1
4	11117-A0810-0001	Seal	1
5	27400-A0810-0002	Oil sensor	1
6	11110-A1210-0003	Crankcase	1
7	11130-A1010-0001	Oil seal, regulating sway bar	1
8	26113-A0810-0001	Washer	2
9	26112-A0810-0001	Split pin	1
10	26111-A1010-0001	Regulating sway bar	1
11	T312-0001	Nut M10	1
12	11119-A1310-0001	O-ring	1
13	T151-0008	Bolt M6×14	2
14	15610-A0815-0001	Oil plug with Seal	1
15	15611-A0815-0001	Oil plug	1
16	15512-A07Y3-0001	Seal	2
17	11211-A1010-0006	Crankcase cover	1
18	T151-0013	Bolt M8×40	7
19	25100-A1210-0001	Driven gear, regulator assy	1
20	11114-A1010-0001	Gasket, crankcase	1
21	11113-A0810-0001	Set pin Φ8×12	2
22	15511-A0815-0001	Dipstick	1
23	15510-A0815-0001	Dipstick with seal	1
24	T910-0002	Bearing 6206	1
25	11120-A1010-0001	Oil seal, crankshaft	1
26	T910-0005	Bearing 6202	1
27	12220-A0810-0001	Bolt	1
28	11513-A1010-0002	Air duck	1
29	14420-A0810-0001	Seal	1
30	T152-0019	Bolt M6×12	1
31	12200-A0810-0002	Cylinder head cover Assy	1
32	12212-A0810-0001	Gasket, cylinder head cover	1
33	12118-A0810-0002	Bolt	4
34	19121-A1010-0001	Lead wind cover	1
35	17218-A0810-0001	Stud	2
36	12120-A0910-0001	Gasket, cylinder head	1
37	12117-A0810-0001	Set pin	2
38	12100-A1210-0002	Cylinder head Assy	1
39	27100-A0710-0001	Spark plug	1
40	18214-A0810-0001	Stud	2
41	13313-A1010-0001	Piston pin circlip	2
42	13311-A1210-0004	Piston	1
43	13312-A1010-0001	Piston pin	1
44	T910-0005	Bearing 6202	2

45	13116-A1210-0001	Balancing shaft	1
46	T910-0003	Bearing 6207	1
47	13112-A0710-0001	Wood ruff key	1
48	13400-A1210-0003	Piston ring set	1
49	13120-A1210-0001	Connecting rod assy	1
50	13110-A1210-0001	Crankshaft assy	1
51	14314-A0710-0001	Lock nut	2
52	14312-A0710-0001	Sleeve	2
53	14311-A0810-0001	Valve rocker	2
54	14313-A0710-0001	Adjusting bolt for valve gap	2
55	14220-A0810-0002	Pusher guide	1
56	14210-A1010-0001	Pusher	2
57	14315-A0810-0001	Tappet	2
58	14100-A1210-0002	Camshaft assy	1
59	14412-A1210-0001	Exhaust valve	1
60	14411-A1010-0003	Intake valve	1
61	14417-A0810-0001	Spring retainer, exhaust valve	1
62	14414-A0810-0001	Valve spring	2
63	14413-A1010-0001	Spring seat, exhaust valve	2
64	14418-A1010-0001	Valve lock clamp	4
65	14310-A0810-0001	Valve rocker assy	1
66	17219-A1010-0001	Inlet gasket	1
67	16120-A1110-0001	Connecting block	1
68	16113-A1110-0001	Carburetor gasket	1
69	16244-A1210-0001	Main nozzle	1
70	16243-A1210-0001	Main jet	1
71	17113-A0810-0001	Air cleaner gasket	1
72	16100-A1210-0006	Carburetor Assy	1
73	16622-A0710-0003	Screw pipe clamp	3
74	16621-A1015-0004	Outlet pipe	1
75	T151-0006	Bolt M8 × 25	2
76	16630-A0710-0001	Connector	1
77	T314-0001	Nut M6	2
78	16610-A0710-0004	Filter cup	1
79	16400-A0410-0002	Fuel filler cap with packing ring	1
80	16510-A1012-0040	Fuel tank	1
81	16557-A0710-0001	Air outlet joint	1
82	16622-A0710-0003	Screw pipe clamp	1
83	11513-A1010-0002	Vent pipe	1
84	17111-A0710-0001	Wing nut	1
85	17112-A1012-0001	Air cleaner cover	1
86	17124-A1010-0001	Filter element	1
87	17114-A1210-0001	Air cleaner aeration cover	1
88	17200-A1010-0002	Air cleaner housing	1
89	T152-0011	Bolt M6×28	1

90	17121-A0810-0001	Washer	1
91	T314-0001	Nut M6	2
92	17100-A1212-0005	Air cleaner assy	1
93	17111-A0712-0001	Air cleaner cover nut	1
94	T354-0001	Nut M8	5
95	18215-A0810-0001	Exhaust pipe gasket	1
96	18117-A0810-0003	Exhaust pipe	1
97	18217-A0810-0001	Muffler gasket	1
98	18000-A1012-0009	Muffler assy	1
99	27300-A0712-0001	Engine switch	1
100	19314-A0810-0001	Wire grommet	1
101	19316-A0810-0002	Clip	1
102	16628-A0810-0001	Plastic clip	1
103	T152-0019	Bolt M6×12	5
104	19211-A1010-0041	Fan hood assy	1
105	T152-0036	Bolt M6×8	3
106	23200-A1011-0004	Recoil starter	1
107	23100-A1012-0027	Recoil starter assy	1
108	26117-A1010-0001	Back spring	1
109	26116-A0710-0001	Lock bolt	1
110	26114-A1010-0001	Regulating arm	1
111	26118-A1010-0001	Fine regutaling spring	1
112	26115-A1010-0001	Pulling rod	1
113	T311-0002	Nut M6	1
114	26200-A1010-0001	Regulating frame assy	1
115	23317-A0810-0002	Nut M16×1.5	1
116	23316-A1010-0002	Starting flange	1
117	19111-A1210-0001	Flywheel fan	1
118	23300-A1114-0001	Flywheel	1
119	T152-0034	Screw M6×25	2
120	27220-A1010-0001	Spark plug cap	1
121	27200-A1110-0001	Ignition coil assy	1
122	55550-EC510-0001	Wand assy	1
123	55100-EC510-0001	Frame	1
124	55511-ED910-0002	High pressure pipe	1
125	45420-EC510-0001	Wheel	2
126	T315-0002	Nut (M12)	2
127	55600-ED910-0002	High pressure pump assembly	1
128	55510-ED910-0001	Water Outlet Pipe Components	1
129	31200-EC510-0004	Control panel	1
130	31225-B9140-0002	The ignition switch	1
131	32480-BB140-0002	Armrest latch assembly	2
132	55530-E8310-0003	Inlet pipe assembly	1
133	55125-E7310-0001	Nozzle rubber sleeve	5

Q4015E



S/N	Part No.	Description	Quantity
1	11116-A0810-0001	Washer	2
2	11115-A0810-0001	Drain plug	2
3	11120-A1010-0001	Oil seal, crankshaft	1
4	11117-A0810-0001	Seal	1
5	27400-A0810-0002	Oil sensor	1
6	11110-A1214-0005	Crankcase	1
7	11130-A1010-0001	Oil seal, regulating sway bar	1
8	26113-A0810-0001	Washer	2
9	26112-A0810-0001	Split pin	1
10	26111-A1010-0001	Regulating sway bar	1
11	T312-0001	Nut M10	1
12	11119-A1310-0001	O-ring	1
13	T151-0008	Bolt M6×14	2
14	15610-A0815-0001	Oil plug with Seal	1
15	15611-A0815-0001	Oil plug	1
16	15512-A07Y3-0001	Seal	2
17	11211-A1010-0006	Crankcase cover	1
18	T151-0013	Bolt M8×40	7
19	25100-A1210-0001	Driven gear, regulator assy	1
20	11114-A1010-0001	Gasket, crankcase	1
21	11113-A0810-0001	Set pin Φ8×12	2
22	15511-A0815-0001	Dipstick	1
23	15510-A0815-0001	Dipstick with seal	1
24	T910-0002	Bearing 6206	1
25	11120-A1010-0001	Oil seal, crankshaft	1
26	T910-0005	Bearing 6202	1
27	12220-A0810-0001	Bolt	1
28	11513-A1010-0002	Air duck	1
29	14420-A0810-0001	Seal	1
30	T152-0019	Bolt M6×12	1
31	12200-A0810-0002	Cylinder head cover Assy	1
32	12212-A0810-0001	Gasket, cylinder head cover	1
33	12118-A0810-0002	Bolt	4
34	19121-A1010-0001	Lead wind cover	1
35	17218-A0810-0001	Stud	2
36	12120-A0910-0001	Gasket, cylinder head	1
37	12117-A0810-0001	Set pin	2
38	12100-A1210-0002	Cylinder head Assy	1
39	27100-A0710-0001	Spark plug	1

40	18214-A0810-0001	Stud	2
41	13313-A1010-0001	Piston pin circlip	2
42	13311-A1210-0004	Piston	1
43	13312-A1010-0001	Piston pin	1
44	T910-0005	Bearing 6202	2
45	13116-A1210-0001	Balancing shaft	1
46	T910-0003	Bearing 6207	1
47	13112-A0710-0001	Wood ruff key	1
48	13400-A1210-0003	Piston ring set	1
49	13120-A1210-0001	Connecting rod assy	1
50	13110-A1210-0001	Crankshaft assy	1
51	14314-A0710-0001	Lock nut	2
52	14312-A0710-0001	Sleeve	2
53	14311-A0810-0001	Valve rocker	2
54	14313-A0710-0001	Adjusting bolt for valve gap	2
55	14220-A0810-0002	Pusher guide	1
56	14210-A1010-0001	Pusher	2
57	14315-A0810-0001	Tappet	2
58	14100-A1210-0002	Camshaft assy	1
59	14412-A1210-0001	Exhaust valve	1
60	14411-A1010-0003	Intake valve	1
61	14417-A0810-0001	Spring retainer, exhaust valve	1
62	14414-A0810-0001	Valve spring	2
63	14413-A1010-0001	Spring seat, exhaust valve	2
64	14418-A1010-0001	Valve lock clamp	4
65	14310-A0810-0001	Valve rocker assy	1
66	17219-A1010-0001	Inlet gasket	1
67	16120-A1110-0001	Connecting block	1
68	16113-A1110-0001	Carburetor gasket	1
69	16244-A1210-0001	Main nozzle	1
70	16243-A1210-0001	Main jet	1
71	17113-A0810-0001	Air cleaner gasket	1
72	16100-A1210-0006	Carburetor Assy	1
73	16622-A0710-0003	Screw pipe clamp	3
74	16621-A1015-0004	Outlet pipe	1
75	T151-0006	Bolt M8 × 25	2
76	16630-A0710-0001	Connector	1
77	T314-0001	Nut M6	2
78	16610-A0710-0004	Filter cup	1
79	16400-A0410-0002	Fuel filler cap with packing ring	1
80	16510-A1012-0040	Fuel tank	1

81	16557-A0710-0001	Air outlet joint	1
82	16622-A0710-0003	Screw pipe clamp	1
83	11513-A1010-0002	Vent pipe	1
84	17111-A0710-0001	Wing nut	1
85	17112-A1012-0001	Air cleaner cover	1
86	17124-A1010-0001	Filter element	1
87	17114-A1210-0001	Air cleaner aeration cover	1
88	17200-A1010-0002	Air cleaner housing	1
89	T152-0011	Bolt M6×28	1
90	17121-A0810-0001	Washer	1
91	T314-0001	Nut M6	2
92	17100-A1212-0005	Air cleaner assy	1
93	17111-A0712-0001	Air cleaner cover nut	1
94	T354-0001	Nut M8	5
95	18215-A0810-0001	Exhaust pipe gasket	1
96	18117-A0810-0003	Exhaust pipe	1
97	18217-A0810-0001	Muffler gasket	1
98	18000-A1012-0012	Muffler assy	1
99	27300-A0712-0001	Engine switch	1
100	19314-A0810-0001	Wire grommet	1
101	19316-A0810-0002	Clip	1
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109	26116-A0710-0001	Lock bolt	1
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111	26118-A1010-0001	Fine regutaling spring	1
112	26115-A1010-0001	Pulling rod	1
113	T311-0002	Nut M6	1
114	26200-A1010-0001	Regulating frame assy	1
115	23317-A0810-0002	Nut M16×1.5	1
116	23316-A1010-0002	Starting flange	1
117	19111-A1210-0001	Flywheel fan	1
118	23300-A1014-0001	Flywheel	1
119	24130-A0714-0001	Charging coil assembly	1
120	T152-0034	Screw M6×25	2
121	27220-A1010-0001	Spark plug cap	1

122	27200-A1110-0001	Ignition coil assy	1
123	24145-A1014-0002	Clamper, cord	1
124	T152-0019	Bolt, M6×12	1
125	24100-A1014-0001	Starting motor Assy	1
126	T151-0008	Bolt, M8×35	2
127	55550-EC510-0001	Wand assy	1
128	55100-EC510-0001	Frame	1
129	55511-ED910-0002	High pressure pipe	1
130	45420-EC510-0001	Wheel	2
131	T315-0002	Nut (M12)	2
132	55600-ED910-0002	High pressure pump assembly	1
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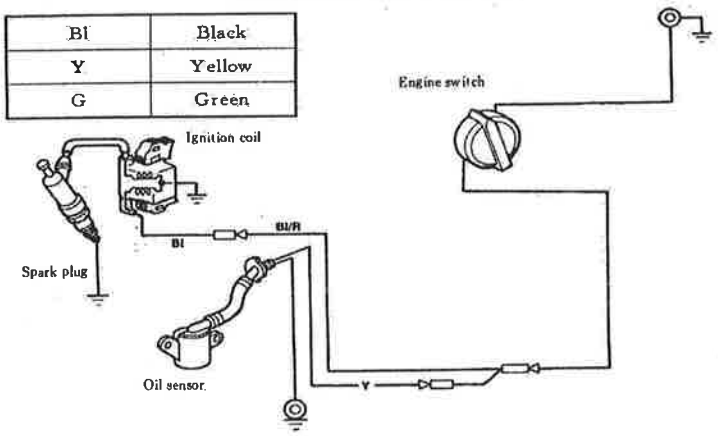
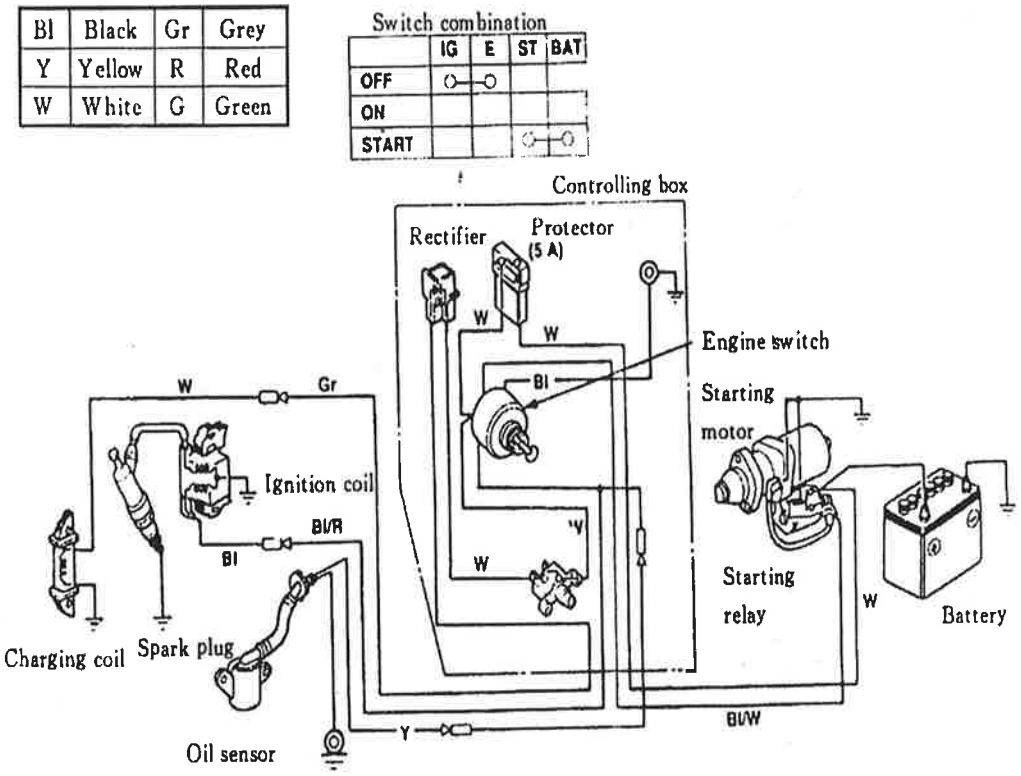
138	55125-E7310-0001	Nozzle rubber sleeve	5

Recoil Start Models

ELECTRIC DIAGRAM



Electric Start Models

ELECTRIC DIAGRAM(for electric-start type)