

**LIFAN
POWER
USA**

LIFAN HYDRO PRO



LFQ3690-CA



LFQ4515(E)-CA

HYDRO-PRO PRESSURE WASHERS

Operating Instructions and Owner's Manual

PLEASE READ THIS MANUAL CAREFULLY BEFORE OPERATING YOUR NEW PRESSURE WASHER
(CA) in the Model Number designates California Compliant by CARB 1/12/2015



Operating Instructions And Owner's Manual PRO SERIES Pressure Washer

LFQ3690-CA
LFQ4515-CA
LFQ4515E-CA

Record Purchase Here

Model# _____

Engine ID# _____

(Unique Identifier stamped on engine crankcase)

Date of Purchase _____

Purchase Location _____

PLEASE KEEP AND READ THIS MANUAL CAREFULLY BEFORE OPERATING YOUR
NEW LIFAN Power USA Pressure Washer

All Lifan Hydro-Pro Pressure Washers are 50 State Compliant

(-CA) Indicates this unit is CARB Certified

(E) Indicates this unit is Electric Start





ATTENTION: Rental Companies and Private Owners who loan this equipment to others!!!!

All persons to whom you rent/loan this pressure washer to must have access to and read this manual. Keep this owner's manual with the pressure washer at all times and advise all persons who will operate the machine to read it. You must also provide personal instruction on how to safely set-up and operate the pressure washer and remain available to answer any questions a renter/borrower might have.

Only Trained Adults should set up and operate the Pressure Washer. DO NOT LET CHILDREN OPERATE THIS EQUIPMENT!!!!

Always wear safety apparel when operating this equipment, safety glasses, ear protection, insulated waterproof gloves, and non-slip protective shoes are recommended. When using any cleaning chemicals refer to the chemical label for safety instructions concerning those chemicals for use of a respiration mask.

Never operate or let anyone operate this equipment while under the influence of any alcohol, drugs, or medication or when fatigued.

Owner's Manuals are available from Lifan Power USA at 1-866-471-7464 Option 2.





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 12VDC, 10Ah battery, and further detail in "Specifications" section.





PLEASE READ THE FOLLOWING INSTRUCTIONS!

Unit Shipped without engine oil. See Pre-operating Instructions for further information.

IMPORTANT!!!!!!!

Before Starting or Operating the Pressure Washer

Remove the Red Cap on the oil fill of the high pressure pump and insert Yellow Dip Stick in its place. This pump is shipped with oil in the pump and the red cap is used for shipping purposes only. Check the oil level in the pump with the yellow dip stick prior to operating the pump. If additional oil is required to bring the pump to operating level adds only Annovi Reverberi High Performance Crankcase Oil. This AR oil is available at www.arnorthamerica.com or by calling Lifan Power USA @ 1-866-471-4764.





1. For repair under Warranty or questions concerning Warranty, DO NOT return this product to the Store where purchased. Follow the procedures as outlined in the "WARRANTY POLICY" and "WARRANTY REGISTRATION" in the Owner's Manual. For any questions visit www.lifanpowerusa.com or call 1-866-471-7464 Option 2 for Warranty and Service.
2. Read the "Owner's Manual" prior to operating any equipment and familiarize yourself with the proper and safe operation of the equipment. If you have any questions, visit www.lifanpowerusa.com or call 1-866-471-7464 Option 2 for Warranty and Service.

This Owner's Manual is for the Following Models:

| | | |
|---|---|---|
|  |  |  |
| LFQ3690-CA | LFQ4515-CA | LFQ4515E-CA |
| | | |

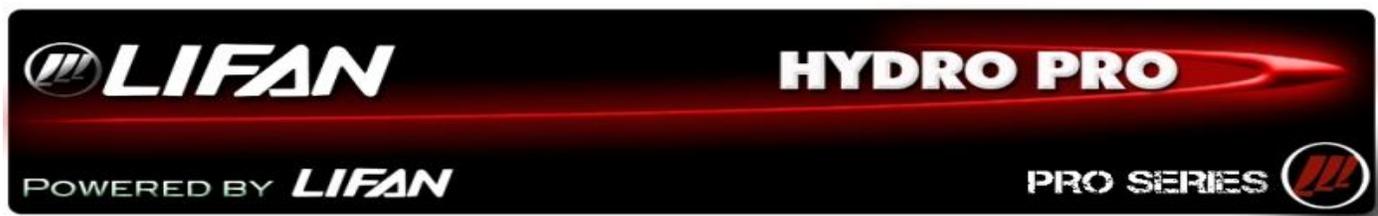
(E) Indicates unit is Electric Start Feature (Battery not included).
 (CA) indicates this unit is CARB Certified for California





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Preface

Thank you for choosing LIFAN Power USA for your Power Equipment Needs. LIFAN Power USA prides itself on providing quality products at affordable pricing, creating the “Best Equipment Value on Today’s Market!”

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.

All LIFAN Power USA products are manufactured utilizing the latest technology. Built with quality components, your new Power Equipment Product will give you years of dependable service. Your unit, along with all of LIFAN Power USA products are designed, engineered, and manufactured with LIFAN’s Industrial Grade Gasoline Engine.

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. If you require assistance, please visit our website (www.lifanpowerusa.com) or call toll free 866-471-7464 Option 2 for Warranty and Service.

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. The copyright of the Owner’s Manual belongs to EquipSource, LLC. Any group or individual is forbidden to reprint or copy any of this Owner’s Manual without the written consent of EquipSource, LLC.

FOR ALL WARRANTY AND SERVICE RELATED ISSUES/QUESTIONS DO NOT RETURN YOUR UNIT TO THE STORE OR DEALER WHERE THE ITEM WAS PURCHASED. FOR SERVICE VISIT LIFAN POWER USA’S WEBSITE (WWW.LIFANPOWERUSA.COM) OR CALL 1-866-471-7464 Option 2. WE WILL BE HAPPY TO HANDLE YOUR WARRANTY ISSUE OR DIRECT YOU TO THE NEAREST “AUTHORIZED SERVICE CENTER.”





PRODUCT SPECIFICATIONS

HYDRO-PRO PRESSURE WASHERS

| Model Size | LFQ3690-CA | LFQ4515-CA | LFQ4515E-CA |
|-------------------------------------|------------------|------------------|------------------|
| 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) | |
| Width (inch) | |
| Height (inch) | |
| 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

PSI¹ = Pounds per Square Inch

GPM² = 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.

For your safety read this manual carefully. Become familiar with the proper operation, care, and maintenance of your LIFAN Hydro-Pro Pressure Washer.

The safety and alert symbol () is used with a signal word (**CAUTION, DANGER, WARNING**), a pictorial and/or safety message to alert you to hazards. **CAUTION** indicates a hazard that, if not avoided, could result in minor or moderate injury. **DANGER** indicates a hazard that, if not avoided, could result in death or serious injury. **WARNING** indicates a hazard that, if not avoided, could result in death or serious injury.

Hazard Symbols and Meanings

| | | | | | |
|---|---|---|--|---|--|
|  |  |  |  |  |  |
| Explosi | Fir | Electrical | DANGER Using a generator inside CAN KILL YOU IN MINUTES. Generator exhaust contains carbon monoxide. This is a poison that you cannot see or smell. | DANGER L'utilisation d'une génératrice à l'intérieur PEUT VOUS TUER EN QUELQUES MINUTES. Les gaz d'échappement de la génératrice peuvent contenir du monoxyde de carbone, un poison que vous ne pouvez pas voir ni sentir. | DANGER El uso de un generador en el interior PUEDE MATARLO EN POCOS MINUTOS. El escape del generador contiene monóxido de carbono. Esto es tóxico y do debe verlo u olerlo. |
|  |  |  |  |  |  |
| Toxic Fumes | Hot surface or gas | Kickback | Avoid other generator hazards. READ MANUAL BEFORE USE. | Utiliser uniquement à l'EXTERIEUR et loin des fenêtres, portes et ouvertures d'aération. | NUNCA utilice dentro de una casa o un garaje. AÚN cuando las ventanas y las puertas estén abiertas. |

| | |
|---|-----------------|
|  | WARNING! |
| Running pressure washer emits carbon monoxide: an odorless, colorless, poison gas. Breathing carbon monoxide can cause nausea or death! | |
| <i>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.</i> | |
|  | 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! | |
| | <p>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.</p>  |
| <ul style="list-style-type: none"> 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 | |
| <ul style="list-style-type: none"> 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 | |
| <ul style="list-style-type: none"> 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 | |
| <ul style="list-style-type: none"> 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 | |
| <ul style="list-style-type: none"> 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 | |
| <ul style="list-style-type: none"> 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.
- The dealer or customer helpline (1-866-471-7464) can instruct you on intended uses.
- 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 LFQ3690 - 5000psi LFQ4515

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

 **LIFAN**

HYDRO PRO

POWERED BY **LIFAN**

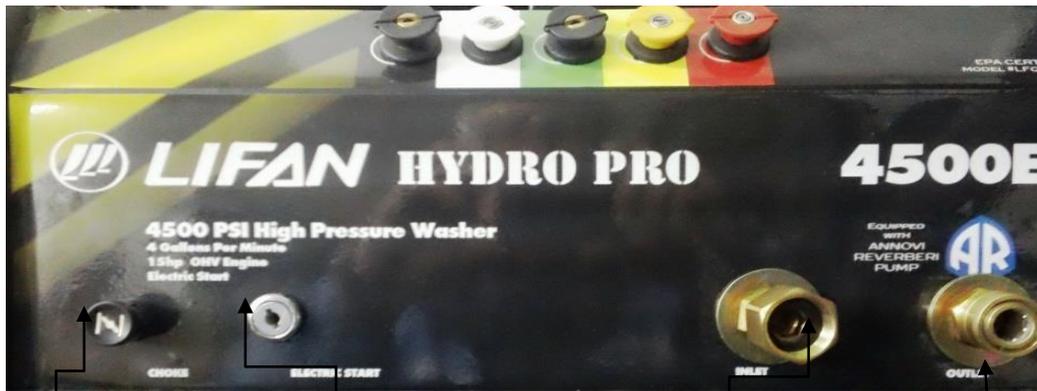
PRO SERIES





Control Panel Features

Your LFQ3690, LFQ4515, and LFQ4515E 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

Your LIFAN Power USA pressure washer is packaged without fuel and engine oil. Some assembly is required before operating your LIFAN Power USA Generator.

For further assistance in assembling your generator please visit our website (www.lifanpowerusa.com) or call 1-866-471-7464, option 2 for warranty and service during office hours.

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
 - 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





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: LFQ3690-CA, LFQ4515(E)-CA

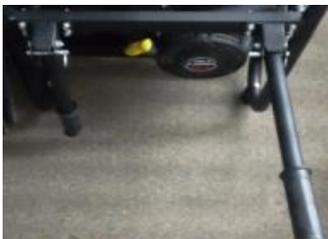
1. These units come with 2 locking handles. The mount bracket to the frame is pre-drilled and threaded for the 4 bolts to attach the handle.

With locked up and down

Clevises Pin for Locking

Locked in Down

Locked in up





Pre-Operating Instructions: Assembly

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



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



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



Top Wand Bracket

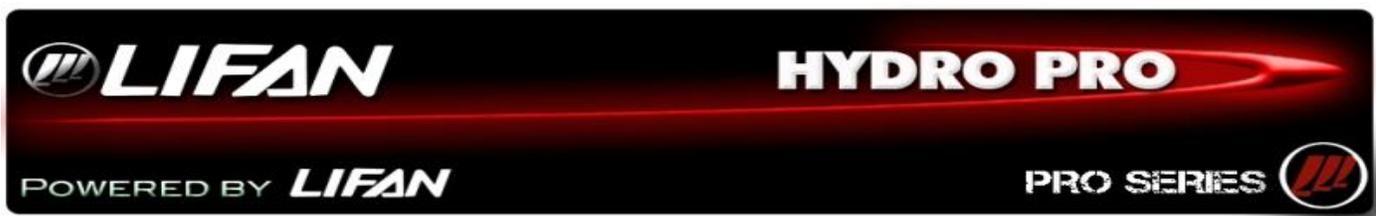


Bottom Wand Bracket



Hose Bracket

5. 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)

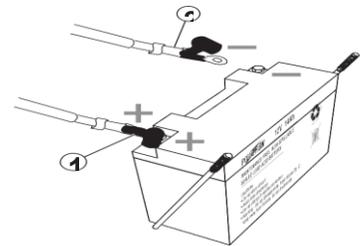
The Battery is NOT included with your Energy Storm Generator. These units require an Acid Cell Battery. This battery is used in many applications, such as lawnmowers, ATV's, motorcycles, etc. and can be found at many retailers and dealers including where you purchased this Power Equipment Product. Use 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) |
| LFQ3690 | 5.25 in | 3 in | 10 | 12V |
| LFQ4515 | 5.3125 in | 3.1875 in | 12 | 12V |
| LFQ4515E | 5.3125 in | 3.1875 in | 12 | 12V |

| CROSS REFERENCE MODELS | | |
|------------------------|--------------|--------------|
| Generator Model | Manufacturer | Model Number |
| LFQ3690 | Super Start® | CB9B |
| LFQ4515 | Excide® | 12N12A-4A-1 |
| LFQ4515E | 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.

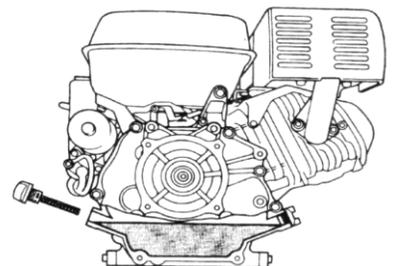
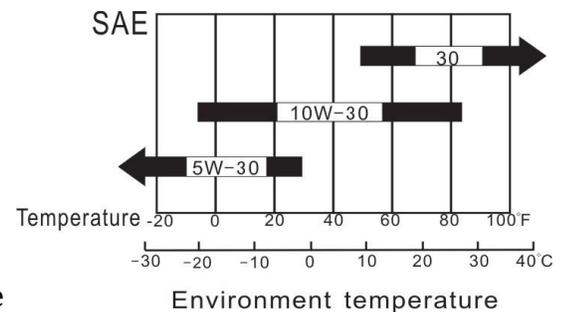
Oil viscosity varies with average environmental temperature. Select engine oil with proper viscosity using the chart to the right in accordance with your regional environmental temperature.

Engine Oil Alarm System

The engine oil alarm system aids 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).

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.





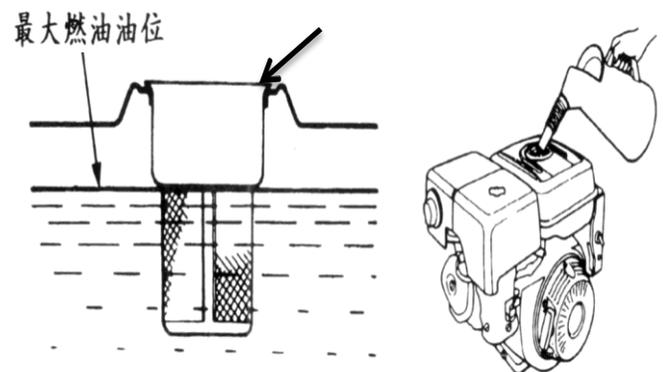
Pre-Operating Instructions: Engine Fuel Level Check

⚠ 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.



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.





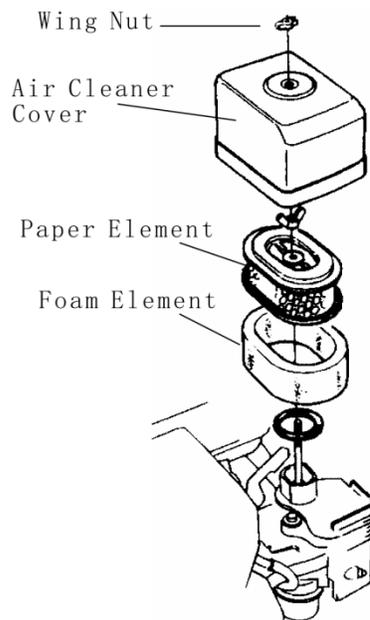
Pre-Operating Instructions: Air Cleaner Element Check

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. They are available at your dealer or from LIFAN Power USA. Order your filter by calling toll free 866-471-7464.
3. Re-Install the air filter element into the air filters housing and re-attache the air box top, tighten wing nut to firm.





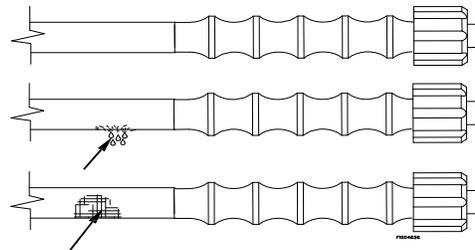
Pre-Operating Instructions: Connecting Inlet/Outlet/Chemical Injector Hose

⚠ CAUTION:

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

Leak →

Worn Area, hose reinforcement shows →



- 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.

Chemical/Soap Port ←

Outlet Fitting ←

Inlet Fitting ←



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 as shown below. Tighten Securely





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

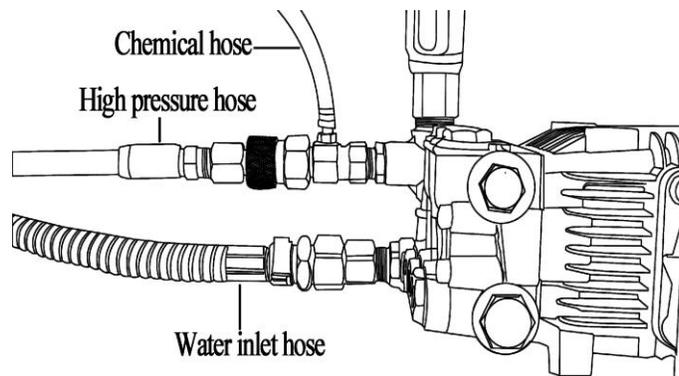
CONNECTING CHEMICAL INJECTOR HOSE: Water to Chemical ratio is 7:1. NOTE: The Chemical Injector Hose provided is the white/clear hose and should be used in unison with the Spray (black) Nozzle.

⚠ 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 lead to fainting, nausea or may result in death. |
| <ul style="list-style-type: none">• 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.





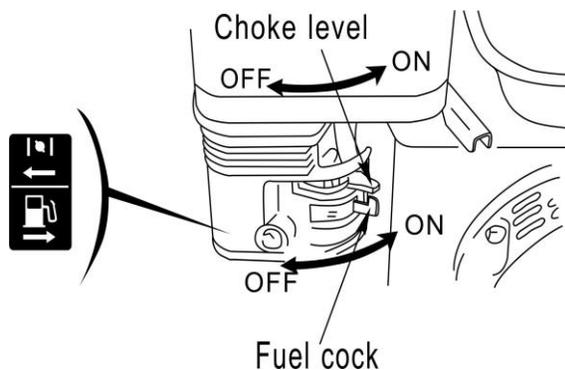
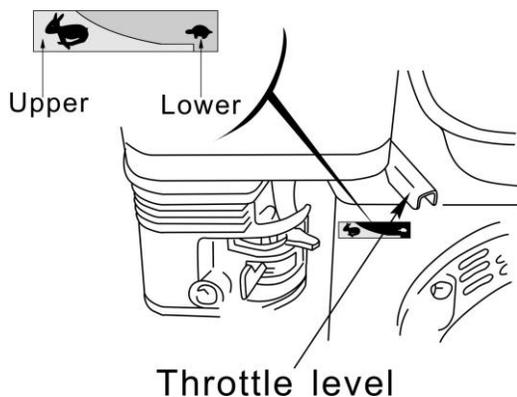
Operation of Pressure Washer

STARTING THE ENGINE:

Refer to the Controls and Features section for additional diagrams 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 a 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 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





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 section for 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, typically 30 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 (1 st) 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



Available from Lifan Power USA

Call 1-866-471-7464 Option 2 for Parts and Service





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.

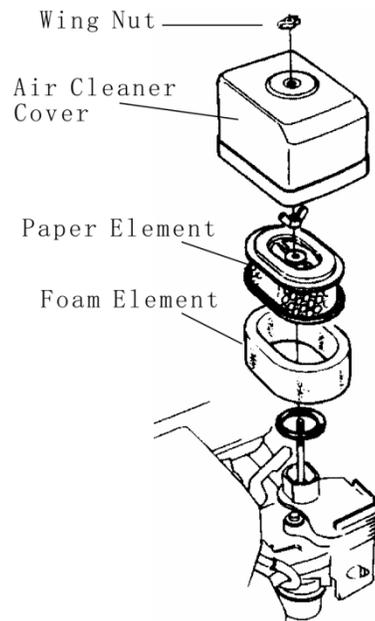




Maintenance

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)



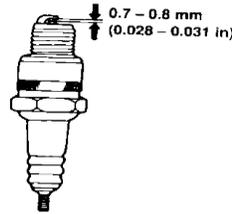
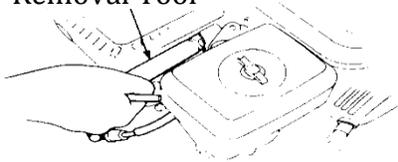


Maintenance

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



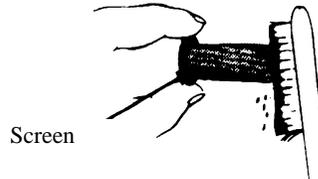
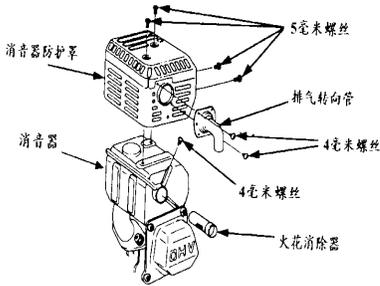
Fuel Filter Element Assembly





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

Leaving unattended Always turn off the pressure washer and relieve system pressure before leaving the sprayer unattended

Prompt Emergency Response

Seek medical aid for suspected injection injury. 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.

Put on Personal Protective Gear

| |
|--|
|  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.





LIMITED WARRANTY POLICY

This warranty is limited to the following Lifan Power and Storm Series products that are distributed by the EquipSource LLC, dba LIFAN POWER USA, located at 2205 Industrial Park Road, Van Buren, AR 72956. Effective date is 4/20/2010.

| LENGTH OF WARRANTY | | | | |
|--------------------------------|---------------------------|----------------------|----------------------|--|
| PRODUCTS COVERED | Residential Use** | | | Commercial/Rental*** |
| | 1 st Year | 2 nd Year | 3 rd Year | Warranty not to exceed 300 hrs. Or terms listed below. |
| Walk Behind Mowers | Full unit parts and labor | Full unit parts only | Engine: parts only | Full unit: 3 months parts and labor |
| Water Pumps | Full unit parts and labor | Full unit parts only | Engine: parts only | Full unit: 12 months parts and labor |
| Generators/Inverter Generators | Full unit parts and labor | Full unit parts only | Engine: parts only | Full unit: 12 months parts and labor |
| Pressure Washer Engines | Full unit parts and labor | Full unit parts only | Engine: parts only | Full unit: 12 months parts and labor |
| Pressure Washer Pumps* | Full unit parts and labor | NA | NA | Full unit: 12 months parts and labor |
| Gasoline Engines | Full unit parts and labor | Full unit parts only | Engine: parts only | Full unit: 12 months parts and labor |
| Gasoline Powered Welders | Full unit parts and labor | Full unit parts only | Engine: parts only | Full unit: 6 months parts and labor |

*All Lifan Pressure Pro™ and Storm Series Pressure Storm™ pressure washers are equipped with **Annovi Reverberi**  high pressure water pumps. Which are covered by the manufactures 1 year limited warranty. Go to www.lifanpowerusa.com for details.

** Residential Use is defined as items that are for personal use.

*** Commercial/Rental use is defined as any usage for income producing or other business related uses.

In order to qualify for the limited warranty the product(s) must be purchased in North America from an authorized EquipSource, LIFAN d/b/a Lifan Power USA dealer or a dealer authorized by EquipSource to sell Lifan products. This warranty is non-transferable and applies only to the original purchaser. The supplied "Warranty Registration Card" must be completed and on file with American Warranty Service (at the supplied address), at the time that any warranty claim is made. The "Warranty Registration Card" must be submitted with a receipt of purchase which clearly states the date of purchase and where the purchase was made.

During the warranty period (stated above) Equipsource, LLC and/or American Warranty Service will repair or replace, at its' option, any part that is proven to be defective in material or workmanship under normal usage. Repairs and/or replacement will be made without charge for parts or labor. All parts found to be defective must be returned to EquipSource or American Warranty Service at our direction. Upon reception of the parts a judgment as to the validity of the warranty claim will be determined. All parts replaced under warranty or any replacement of the complete unit will be considered part of the original product and replacement of any product, and any warranty on those parts or replacement unit will coincide with the original warranty.

To obtain Warranty Service, call our Customer Service Hotline at 1-866-471-7464 and press 2 for Warranty Service at which time you will be transferred to the technicians at American Warranty Service. In lieu of this you may call directly to American Warranty Service at 888-926-4313 to be directly connected to a repair specialist.. At Equipsource's discretion; Equipsource may elect to replace a defective unit. In this case the end user is responsible for all shipping and handling charges associated with the exchange and as stated above the warranty will coincide with the date of the original purchased unit.





LIMITED WARRANTY POLICY

This warranty is not valid for products or parts affected or damaged by accident, collision, normal wear, fuel contamination, abuse, neglect, misuse, alteration and/or unsuitable use or unauthorized parts replacement. Mower decks and blades are specifically not warranted for impact or abrasive damage. Warranty becomes void if the customer fails to install, maintain, and/or operate the product in accordance with the instructions and recommended actions of Lifan set forth in the owner's manual. EquipSource, LLC disclaims any responsibility for time loss or loss of usage of the product, transportation, commercial loss, or any other incidental or consequential damage. Prior to any warranty service an approval code must be issued to the service center in order for the warranty claim to be valid. Any implied warranties are limited to the duration of this written limited warranty. This warranty gives you specific legal rights, and you may also have other rights, which may vary from state to state.

This warranty specifically excludes the use of any Lifan Power Equipment or Storm Series power equipment as the "Sole Source of Power" for "off the power grid applications" and this warranty will become null and void for units used for this purpose and manner. This warranty specifically excludes the use of any Lifan Power Equipment or Storm Series power equipment for the purpose of powering Life Support devices, Life Support appliances, Medical devices, and/or Medical appliances. EquipSource, LLC will not be held responsible for any damage due to the use of any Lifan or Storm Series power equipment for these purposes.

OWNER'S RESPONSIBILITY

To ensure trouble free warranty coverage it is important that you register your Lifan generator by phone at 1-866-471-7464, or by filling out and returning to Lifan Power USA the warranty registration card supplied with your unit. Registering your product Confirms your warranty coverage and provides a direct link between you and Lifan Power USA if we find it necessary to contact you.

Your receipt for purchase including date, model and serial number must be maintained and registered to receive service from an Authorized Service Dealer for warranty service. Proof of purchase rests solely with you, the original purchaser.

You must demonstrate reasonable care and use, and follow preventive maintenance, storage, fuel and oil usage as prescribed in the operator's manual for your Lifan Power unit. Should a product difficulty occur, you must, at your expense, deliver or ship your Lifan Power Product unit to a Lifan Authorized Service Dealer for warranty repairs (which must occur within the applicable warranty period), and arrange for pick-up or return of your unit after the repairs have been made. For the warranty assistance from a Lifan Authorized Service Dealer nearest to you, call Lifan's automated phone at 1-866-471-4764, Option 2. Should you require assistance or have questions concerning Lifan Power USA Warranty Statement, you can contact us through the web at www.lifanpowerusa.com or call toll free 1-866-471-7464.





LIMITED WARRANTY POLICY

EXCLUSIONS

- Lifan Power Equipment that utilize non-Lifan replacement parts.
- 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 with all 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) or engine.
- 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.





LIMITED WARRANTY POLICY

DISCLAIMER OF IMPLIED WARRANTIES

This limited warranty is in lieu of all other expressed or implied warranties, including any warranty of the units fitness for any particular use and any implied warranty of MERCHANTABILITY otherwise applicable to Lifan Power Equipment and its affiliated companies shall not be liable for any special, incidental or consequential damage, including lost profits. There are no warranties extended other than as provided herein. This limited warranty may be modified only by Lifan Power USA. Any implied warranties allowed by law shall be limited in duration to the terms of the express warranty provided herein. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation may not apply to you. This warranty gives you specific legal rights. You also have other rights from state to state. Lifan's ONLY LIABILITY SHALL BE THE REPAIR OR REPLACEMENT AS STATED ABOVE. IN NO EVENT SHALL Lifan BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES, EVEN IF SUCH DAMAGES ARE A DIRECT RESULT OF Lifan's NEGLIGENCE. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation may not apply to you. This warranty gives you specific legal rights and you may also have other rights from state to state.

OWNER'S WARRANTY RESPONSIBILITIES:

As the outdoor equipment owner, you are responsible for performance of the required maintenance listed in your owner's manual. EquipSource, LLC d/b/a Lifan Power USA recommends that you retain all receipts covering maintenance on your outdoor equipment. Lifan Power USA will not deny your warranty coverage based solely on your lack of receipts for service however, the condition of the equipment upon arrival at the service center will determine the warrantable nature of the product.

As the outdoor equipment owner, you should however be aware that Lifan Power USA may deny your warranty coverage if your outdoor equipment or a part has failed due to abuse, neglect, or improper maintenance or unapproved modifications.

You are responsible for presenting your outdoor equipment to a Lifan Power Equipment Authorized Warranty Service Dealer as soon as the problem exists. The warranty repairs should be completed in a reasonable amount of time.

If you have any questions regarding your warranty rights and responsibilities, you should contact Lifan Power USA or American Warranty Service Representative at 1-866-471-7464 Option 2 Warranty and Service or at the following address Lifan Power USA, 2205 Industrial Park Road, Van Buren, AR 72956 or by contacting us through www.lifanpowerusa.com.

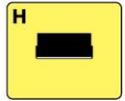
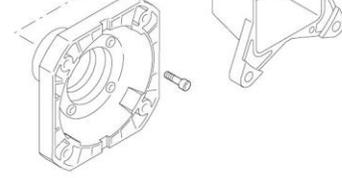


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UN003433-FS

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sp_00497_RRV

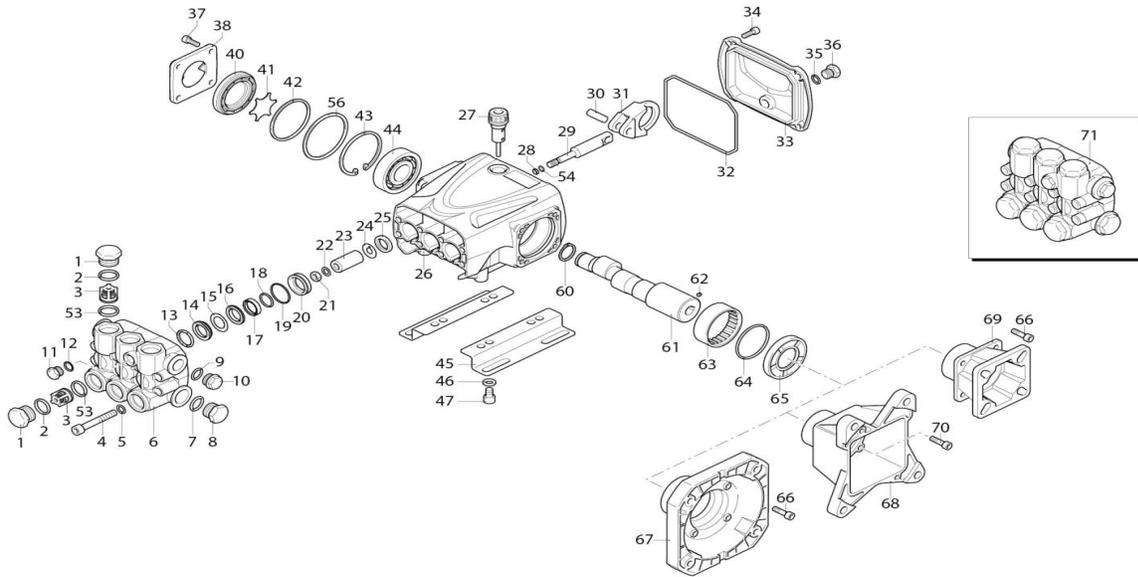


RRV
RRV
RRV

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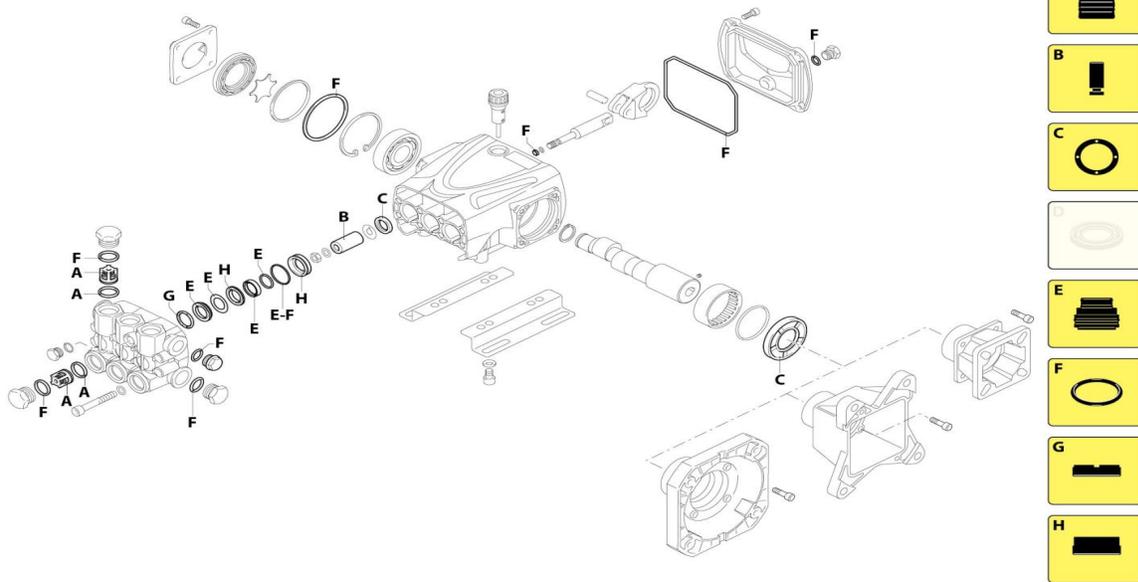
3400 rpm
3400 rpm
3400 rpm

∅ 5/8"
∅ 3/4"
∅ 1"



UN003432-FS

KIT RICAMBI / PART KITS



(3228600)

UN003433-FS

113

sp_00497_RRV

LIFAN

POWERED BY **LIFAN**

HYDRO PRO

PRO SERIES





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 | Pos. | Cod. | Denominazione | Description | Qt | Note |
|------|---------|------------------|----------------|----|------------------|---------|--------------------|--------------------|----------------|-----|---------------------|
| 1 | 960090 | Tappo | Plug | 6 | ◆ □ □ □ □ C=54Nm | 40 | 3220080 | Indicatore livello | Level gauge | 1 | |
| | 960090 | Tappo | Plug | 6 | □ □ □ □ C=54Nm | 41 | 3200090 | Disco | Plate | 1 | |
| 2 | 960850 | Tappo | Plug | 6 | ▼ □ □ □ C=54Nm | 42 | 650560 | Guarnizione OR | Ø 56,82x2,62 | 1 | □ |
| | 960160 | Guarnizione OR | Ø 17,86x2,62 | 6 | □ | 43 | 200390 | Anello | seeger Ø1 62 | 1 | |
| 3 | 889052 | Valvola completa | Complete valve | 6 | | 44 | 1981210 | Cuscinetto | Bearing | 1 | |
| | 800860 | Vite | TCEI M8x55 | 8 | C=25,4Nm | 45 | 3200210 | Piede | Foot | 2 | Optional |
| 4 | 1381850 | Rondella | Washer | 8 | | 46 | 1322640 | Rondella | Washer | 4 | Optional |
| | 3220090 | Testa | Head | 1 | ◆ □ □ □ □ ★ | 47 | 850250 | Vite | TCEI M8x12 | 4 | Optional |
| 5 | 3220770 | Testa | Head | 1 | ▼ | 53 | 880830 | Guarnizione OR | Ø 15,54x2,62 | 6 | |
| | 180101 | Guarnizione OR | Ø 17,5x2 | 1 | □ | 54 | 1080550 | Anello | antiestrusione | 3 | |
| 6 | 820361 | Tappo | 1/2" G ottone | 1 | C=40Nm | 56 | 3220780 | Guarnizione OR | Ø 61,8x0,5 | 1 | |
| | 740290 | Guarnizione OR | Ø 14x1,78 | 1 | □ | 60 | 1260770 | Anello | seeger øe 25 | 1 | |
| 7 | 1980740 | Tappo | 3/8" G ottone | 1 | C=25Nm | 71 | 3220530 | Albero | marcato 6 | 1 | ◆ |
| | 880581 | Tappo | 1/4" G | 1 | □ C=15Nm | | 3220540 | Albero | marcato 7 | 1 | □ |
| 8 | 820510 | Guarnizione OR | Ø 10,82x1,78 | 1 | | 3220490 | Albero | marcato 6 | 1 | □ | |
| | 2760220 | Anello | appoggio Ø15 | 3 | | 3220500 | Albero | marcato 7 | 1 | □ | |
| 9 | 1342761 | Guarnizione | Ø 15 | 3 | □ | 3220240 | Albero | marcato 5 | 1 | □ ▼ | |
| | 3200680 | Anello | antiestrusione | 3 | | 3220450 | Albero | marcato 6 | 1 | □ | |
| 10 | 3220150 | Guida pistone | Piston guide | 3 | | 3220460 | Albero | marcato 7 | 1 | □ | |
| | 3200690 | Guarnizione | Ø 15 | 3 | | 62 | 820440 | Vite | M6x6 | 1 | □ □ □ □ □ ★ |
| 11 | 3200700 | Anello | antiestrusione | 3 | | 63 | 3220260 | Cuscinetto | Bearing | 1 | |
| | 770260 | Guarnizione OR | Ø 23,52x1,78 | 3 | □ | 64 | 3220430 | Guarnizione OR | Ø 56,87x1,78 | 1 | |
| 12 | 3220140 | Guida pistone | Piston guide | 3 | | 65 | 3220270 | Anello | tenuta | 1 | |
| | 1260110 | Dado | M8 | 3 | □ C=12Nm | 66 | 780060 | Vite | TCEI M6x25 | 4 | C=10,4Nm |
| 13 | 1260100 | Rondella | Washer | 3 | | 67 | 3220210 | Flangia | Flange | 1 | ◆ |
| | 1780070 | Pistone | Ø 15 | 3 | | 68 | 3220250 | Flangia | Flange | 1 | □ □ |
| 14 | 1260091 | Disco | Plate | 3 | | 69 | 3220230 | Flangia | Flange | 1 | □ □ □ ★ |
| | 1260460 | Tenuta olio | Oil seal | 3 | | 70 | 780330 | Vite | TCEI M6x20 | 4 | □ □ □ □ □ (=10,4Nm) |
| 15 | 3220010 | Corpo pompa | Pump body | 1 | | 71 | 3229201 | Premontaggio testa | Head assembly | 1 | ◆ □ □ □ □ □ ★ |
| | 880130 | Tappo | Plug | 1 | C=5Nm | 3229203 | Premontaggio testa | Head assembly | 1 | ▼ | |
| 16 | 480480 | Guarnizione OR | Ø 4,48x1,78 | 3 | □ | | | | | | |
| | 3220060 | Pistone | di guida | 3 | | | | | | | |
| 17 | 3220070 | Spina | Pin | 3 | | | | | | | |
| | 3220040 | Biella | Connecting-rod | 3 | □ □ □ □ □ □ □ ★ | | | | | | |
| 18 | 3220560 | Biella | bronzo | 3 | □ ▼ | | | | | | |
| | 651540 | Guarnizione OR | Ø 107,62x2,62 | 1 | | | | | | | |
| 19 | 3220030 | Coperchio | Cover | 1 | | | | | | | |
| | 3200220 | Vite | TCEI 6x16 | 4 | C=8Nm | | | | | | |
| 20 | 820510 | Guarnizione OR | Ø 10,82x1,78 | 1 | | | | | | | |
| | 880581 | Tappo | 1/4" G | 1 | C=15Nm | | | | | | |
| 21 | 1200430 | Vite | TCEI M6x16 | 4 | C=10,4Nm | | | | | | |
| | 3200070 | Supporto | Support | 1 | | | | | | | |

Recoil Start Models

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 |
| 2 | 6 | 42 | 1 | 13 | 3 |
| 7 | 1 | | | | |
| 9 | 1 | | | | |
| 19 | 3 | | | | |
| 28 | 3 | | | | |
| 32 | 1 | | | | |
| 35 | 1 | | | | |

SIMBOLOGIA - SYMBOLS

| | | | | | | | |
|---|----------------------------|---|----------------------------|---|----------------------------|---|---|
| □ | Per / For RRV 3 G25 E | □ | Per / For RRV 3 G27 D | □ | Per / For RRV 4 G36 D | ★ | Per / For RRV 3 G30 D RRV 3 G36 D |
| ◆ | Per / For RRV 3.5 G20 E | □ | Per / For RRV 3.5 G25 D | □ | Per / For RRV 3.5 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 |

MI91418

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(TL_322_01_2013)





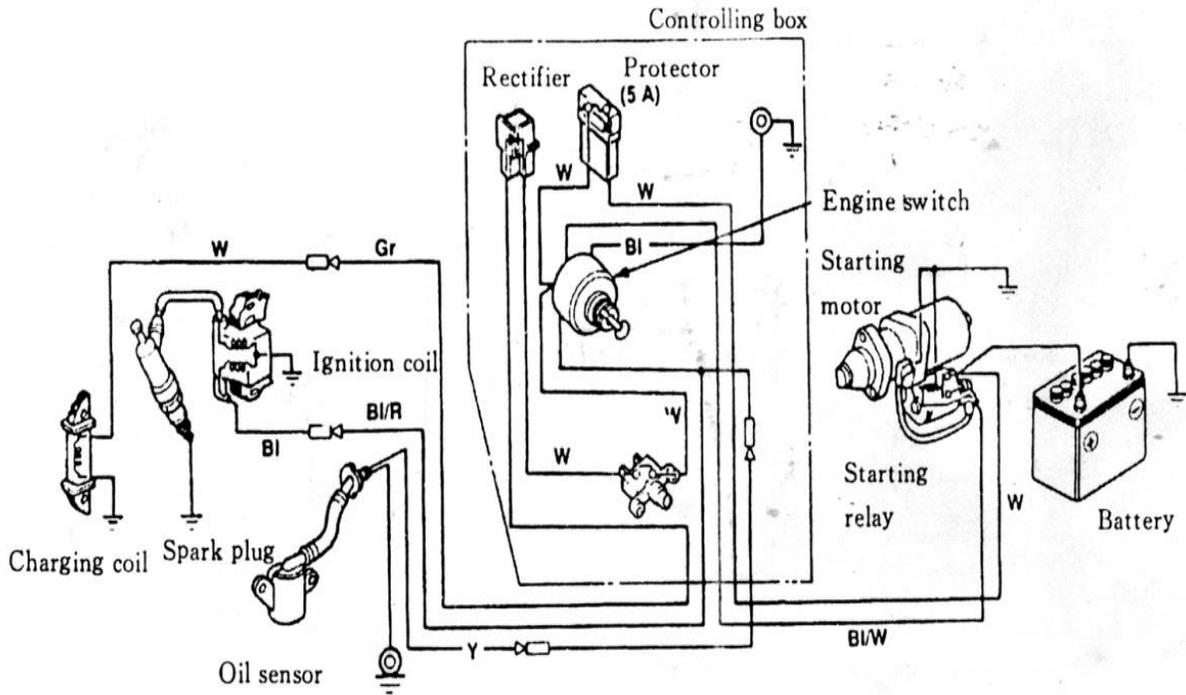
Electric Start Models

ELECTRIC DIAGRAM (for electric-start type)

| | | | |
|----|--------|----|-------|
| Bl | Black | Gr | Grey |
| Y | Yellow | R | Red |
| W | White | G | Green |

Switch combination

| | IG | E | ST | BAT |
|-------|----|---|----|-----|
| OFF | | | | |
| ON | | | | |
| START | | | | |





**Please Read this Owner's Manual Carefully
before Operating Your New Pressure Washer.**

**This Owner's Manual includes the
operation and maintenance of the
HYDRO-PRO SERIES**

LFQ3690-CA
LFQ4515-CA
LFQ4515E-CA

**Thank you for purchasing our Hydro-Pro
Professional Pressure Washer!**

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**For Product Support and Service Please Visit us at
www.lifanpowerusa.com
Or Call Toll Free 1-866-471-7464**





LIFAN Power USA is proud to offer it's extensive line of LIFAN Power Equipment!!!!

LIFAN Power USA is the sole distribution for LIFAN Power Equipment in the United States. LIFAN's unmatched investment in research and development ensures quality engines, generators, pressure washers, and water pumps at an extraordinary value. LIFAN continues to be an innovator and presently holds over 3,000 patents. Product performance has earned LIFAN the reputation of dependability and value in all their international markets.

LIFAN has been manufacturing and selling innovative and value driven products worldwide for over 15 years. LIFAN is distributed in over 100 countries. LIFAN is the largest privately owned company in China with sales over One-Billion Dollars annually and 14,000 employees. As the largest engine manufacturer in China, LIFAN builds more than five million small engines each year. This worldwide presence has been made possible by producing equipment that is durable, reliable, and rugged for any market.

LIFAN Power USA prides itself in standing behind all LIFAN products with our comprehensive warranty policy. LIFAN Power USA continues to offer the highest level of service and support in the industry. With proven performance and unmatched value, LIFAN Power Equipment will always keep you running.

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For additional product information of any LIFAN Power Equipment, please visit us at our website - www.lifanpowerusa.com.

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