POWER

OWNER'S MANUAL & OPERATION INSTRUCTION

2700PSI / 2.3GPM
GAS POWERED

PRESSURE WASHER

Visit Our Website at: http://www.a-ipower.com

Email Our Technical Support at: support@a-ipower.com

MODEL NUMBER
APW2700

FOR TECHNICAL QUESTIONS, PLEASE CALL 1-855-888-3598

SAVE THIS MANUAL

This manual contains important information regarding safety, operation, maintnance and storage of this product. Before use, read carefully and understand all cautions, warnings, instructions and product labels. Failure to do so could result in serious personal injury and/or property damage.

MADE IN CHINA
REV 27F0004_A 07/2016

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NOTICE We are always working to improve our products. Therefore, final product may vary from images shown. A-iPower reserves the right to change features, specifications without notice for further improvements of products.

SPECIFICATIONS

Pressure Washer Specifications

Pump	Axial
Drive	Direct
Maximum Pressure	2700PSI
Flow Rate	2.3GPM
Cleaning Power	6210
Hose Length	25'
Wand Length	14 1/4"
Nozzles	Quick Connect 0°, 25°, Detergent Noozle

Engine Specifications

Displacement		196cc
Engine Type		Horizontal Single Cylinder 4-Stroke OHV
Cooling System		Air Cooled
Fuel	Type	87+ Octane Stabilizer Treated Unleaded Gasoline
	Capacity	0.95 Gallon (3.6 Liter)
Engine Oil	Type SAE	10W-30 Above 32F SW-30 at 32F or Below
	Capacity	0.6 Quart (0.6 Liter)
Run Time @ 50% Load with Full Tank		3 Hrs
Bore x Stroke		68 x 54
Compression Ratio		8.5:1
Rotation (Viewed from PTO) (Power Takeoff - the Output Shaft)		Counterclockwise
Spark Plug	Type	NGK BP - 6ES NHSP / Torch F6TC
	Gap	0.0275" - 0.0314"
Valve Clearance	Intake	0.0039" - 0.0059"
	Exhaust	0.0059" - 0.0078"
Emission Certification		EPA (Not for Sale in California)

⚠ **WARNING** The Engine Exhaust from This Product Contains Chemicals Known the State of California to Cause Cancer, Birth Defects or Other Reproductive Harm.

SAFETY

Equipment Description

Read this manual carefully and become familiar with your pressure washer. Know its applications, its limitations, and any hazards involved.

This pressure washer operates at 2,700 PSI and a flow rate of 2.3 gallons per minute. This high quality residential system features 8" wheels, axial cam pump with stainless steel pistons, automatic cool down system, quick connect spray tips, heavy duty 25' hose, and more.

Every effort has been made to ensure that information in this manual is accurate and current. However, we reserve the right to change, alter, or otherwise improve the product and this document at any time without prior notice.

Safety Symbols and Meanings


Operator's Manual


Toxic Fumes


Electrical Shock


Slippery Surface


Fall


Fluid Injection


Fire


Explosion


Kickback


Projectile


Moving Parts


Flying Objects


Chemical Burn


Hot Surface

⚠ The safety alert symbol indicates a potential personal injury hazard. A signal word (DANGER, WARNING, or CAUTION) is used with the alert symbol to designate a degree or level of hazard seriousness. A safety symbol may be used to represent the type of hazard. The signal word *NOTICE* is used to address practices not related to personal injury.

⚠ **DANGER** indicates a hazard which, if not avoided, *will* result in death or serious injury.

⚠ **WARNING** indicates a hazard which, if not avoided, *could* result in death or serious injury.

⚠ **CAUTION** indicates a hazard which, if not avoided, *could* result in minor or moderate injury.

NOTICE address practices not related to personal injury.

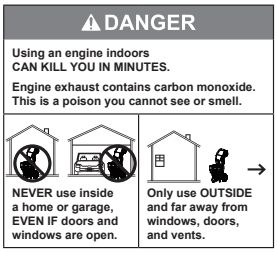
Operation Precautions

⚠ **WARNING** POISONOUS GAS HAZARD. Engine

Engine exhaust contains carbon monoxide, a poisonous gas that could kill you in minutes. You CANNOT smell it, see it, or taste it. Even if you do not smell exhaust fumes, you could still be exposed to carbon monoxide gas.

Some chemicals or detergents could be harmful if inhaled or ingested, resulting in death, serious injury, nausea, fainting or poisoning.

- Operate this product ONLY outside far away from windows, doors and vents to reduce the risk of carbon monoxide gas doors and vents to reduce the risk of carbon monoxide gas from accumulating and potentially being drawn towards occupied spaces.



- DO NOT run this product inside homes, garages, basements, crawlspaces, sheds, or other partially-enclosed spaces even if using fans or opening doors and windows for ventilation. Carbon monoxide can quickly build up in these spaces and can linger for hours, even after this product has shut off.
- ALWAYS place this product downwind and point the engine exhaust away from occupied spaces.

If you start to feel sick, dizzy, or weak while using this product, shut it off and get to fresh air RIGHT AWAY. See a doctor. You may have carbon monoxide poisoning.

- Use a respirator or mask whenever there is a chance that vapors may be inhaled when using chemicals.
- Read all instructions with mask so you are certain the mask will provide the necessary protection against inhaling harmful vapors when using chemicals.

SAFETY

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

⚠ **WARNING** This product contains lead and lead compounds, known to the State of California to cause birth defects or other reproductive harm. *Wash your hands after handling this product.*

⚠ **WARNING** Exhaust heat/gases could ignite combustibles, structures or damage fuel tank causing a fire, resulting in death or serious injury.

Contact with muffler area could cause burns resulting in serious injury.

- DO NOT touch hot parts and AVOID hot exhaust gases.
- Allow equipment to cool before touching.
- Keep at least 5 feet (1.5 m) of clearance on all sides of pressure washer including overhead.
- It is a violation of California Public Resource Code, Section 4442, to use or operate the engine on any forest-covered, brush-covered, or grass-covered land unless the exhaust system is equipped with a spark arrester, as defined in Section 4442, maintained in effective working order. Other states or federal jurisdictions may have similar laws.

  Contact the original equipment manufacturer, retailer, or dealer to obtain a spark arrester designed for the exhaust system installed on this engine.
- Replacement parts must be the same and installed in the same position as the original parts.

⚠ **WARNING** Risk of electrocution. Contact with power source could cause electric shock or burn resulting in death or serious injury.

- NEVER spray near power source.

⚠ **WARNING** Use of pressure washer could create puddles and slippery surfaces causing you to fall resulting in death or serious injury. Kickback from spray gun could cause you to fall resulting in death or serious injury.

- Operate pressure washer from a stable surface.
- The cleaning area should have adequate slopes and drainage to reduce the possibility of a fall due to slippery surfaces.
- Be extremely careful if you must use the pressure washer from a ladder, scaffolding, or any other similar location.
- Firmly grasp spray gun with both hands when using high pressure spray to avoid injury when spray gun kicks back.

⚠ **WARNING** Chemical Burn Hazard. Chemicals could cause burns resulting in death or serious injury.

- DO NOT use caustic liquid with pressure washer.
- Use ONLY pressure washer safe detergents/soaps. Follow all manufacturers instructions.

⚠ **WARNING** Fuel and its vapors are extremely flammable and explosive which could cause burns, fire or explosion resulting in death or serious injury.

WHEN ADDING OR DRAINING FUEL

- Turn pressure washer engine OFF and let it cool at least 2 minutes before removing fuel cap. Loosen cap slowly to relieve pressure in tank.
- Fill or drain fuel tank outdoors.
- DO NOT overfill tank. Allow space for fuel expansion.
- If fuel spills, wait until it evaporates before starting engine.
- Keep fuel away from sparks, open flames, pilot lights, heat, and other ignition sources.
- Check fuel lines, tank, cap and fittings frequently for cracks or leaks. Replace if necessary.
- DO NOT light a cigarette or smoke.

WHEN STARTING EQUIPMENT

- Ensure spark plug, muffler, fuel cap, and air filter are in place.
- DO NOT crank engine with spark plug removed.

WHEN OPERATING EQUIPMENT

- DO NOT operate this product inside any building, carport, porch, mobile equipment, marine applications, or enclosure.
- DO NOT tip engine or equipment at angle which causes fuel to spill.
- DO NOT spray flammable liquids.

WHEN TRANSPORTING, MOVING OR REPAIRING EQUIPMENT

- Transport/move/repair with fuel tank EMPTY or with fuel shutoff valve OFF.
- DO NOT tip engine or equipment at angle which causes fuel to spill.
- Disconnect spark plug wire.

WHEN STORING FUEL OR EQUIPMENT WITH FUEL IN TANK

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

⚠ **WARNING** Starter cord kickback (rapid retraction) will pull hand and arm toward engine faster than you can let go which could cause broken bones, fractures, bruises, or sprains resulting in serious injury.

- NEVER pull starter cord without first relieving spray gun pressure.
- When starting engine, pull cord slowly until resistance is felt and then pull rapidly to avoid kickback.
- After each starting attempt, where engine fails to run, always point spray gun in safe direction, disengage triggger lock and squeeze spray gun trigger to release high pressure.
- Firmly grasp spray gun with both hands when using high pressure spray to avoid injury when spray gun kicks back.

SAFETY

⚠ WARNING The high pressure stream of water that this equipment produces could cut through skin and its underlying tissues, resulting in serious injury and possible amputation.

Spray gun traps high water pressure, even when engine is stopped and water is disconnected, which could result in serious injury.

- If cut by fluid, call physician immediately. DO NOT treat as a simple cut.
- DO NOT allow CHILDREN to operate pressure washer.
- NEVER repair high pressure hose. Replace it.
- NEVER repair leaking connections with sealant of any kind. Replace o-ring or seal.
- NEVER connect high pressure hose to nozzle extension.
- Keep high pressure hose connected to pump and spray gun while system is pressurized.
- ALWAYS point spray gun in safe direction, disengage trigger lock and squeeze spray gun trigger to release high pressure, every time you stop engine.
- NEVER aim spray gun at people, animals, or plants.
- DO NOT secure spray gun in open position.
- DO NOT leave spray gun unattended while machine is running.
- NEVER use a spray gun which does not have a trigger lock or trigger guard in place and in working order.
- Always be certain spray gun, nozzles and accessories are correctly attached.

⚠ WARNING Unintentional sparking could cause fire or electric shock resulting in death or serious injury.

WHEN ADJUSTING OR MAKING REPAIRS TO YOUR PRESSURE WASHER

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

WHEN TESTING FOR ENGINE SPARK

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

⚠ WARNING Starter and other rotating parts could entangle hands, hair, clothing, or accessories resulting in serious injury.

- NEVER operate pressure washer without protective housing or covers.
- DO NOT wear loose clothing, jewelry or anything that could be caught in the starter or other rotating parts.
- Tie up long hair and remove jewelry.

⚠ WARNING Risk of eye or bodily injury. Spray could splash back or propel objects resulting in serious injury.

- Always wear indirect vented (chemical splash) safety goggles marked to comply with ANSI Z87.1 when using or in vicinity of this equipment.
- NEVER substitute safety glasses or dry-condition goggles for indirect vented safety goggles.
- Always wear protective clothing such as a long-sleeved shirt, long pants and close-toed shoes.
- NEVER operate pressure washer when barefoot or wearing sandals or shorts.

⚠ CAUTION Excessively high operating speeds could result in minor injury.
Excessively low speeds impose a heavy load.

- DO NOT tamper with governor spring, links or other parts to increase engine speed. Pressure washer supplies correct rated pressure and flow when running at governed speed.
- DO NOT modify pressure washer in any way.

NOTICE High pressure spray could damage fragile items including glass.

- DO NOT point spray gun at glass when using red (0°) nozzle.
- NEVER aim spray gun at plants.

NOTICE Improper treatment of pressure washer could damage it and shorten its life.

- If you have questions about intended use, contact our service center at 1-855-888-3598.
- NEVER operate units with broken or missing parts, or without protective housing or covers.
- DO NOT by-pass any safety device on this machine.
- DO NOT tamper with governed speed.
- DO NOT operate pressure washer above rated pressure.
- DO NOT modify pressure washer in any way.
- Before starting pressure washer in cold weather, check all parts of the equipment to be sure ice has not formed there.
- NEVER move machine by pulling on hoses. Use handle provided on unit.
- This equipment is designed to be used with A-iPower authorized parts **ONLY**. If equipment is used with parts that DO NOT comply with minimum specifications, user assumes all risks and liabilities.

SET UP

Read the entire "SAFETY" section at the beginning of this manual including all text under subheadings therein before set up or use of this product.

⚠ WARNING

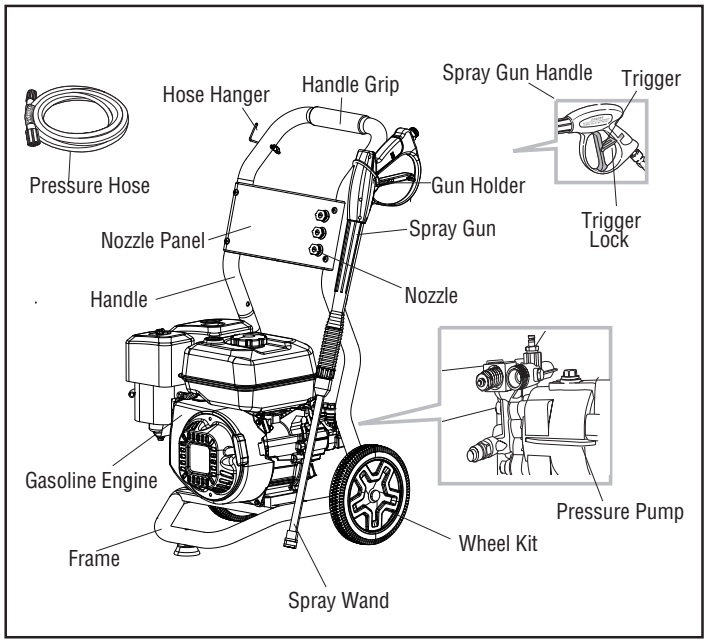
TO PREVENT SERIOUS INJURY: Operate only with proper spark arrestor installed.

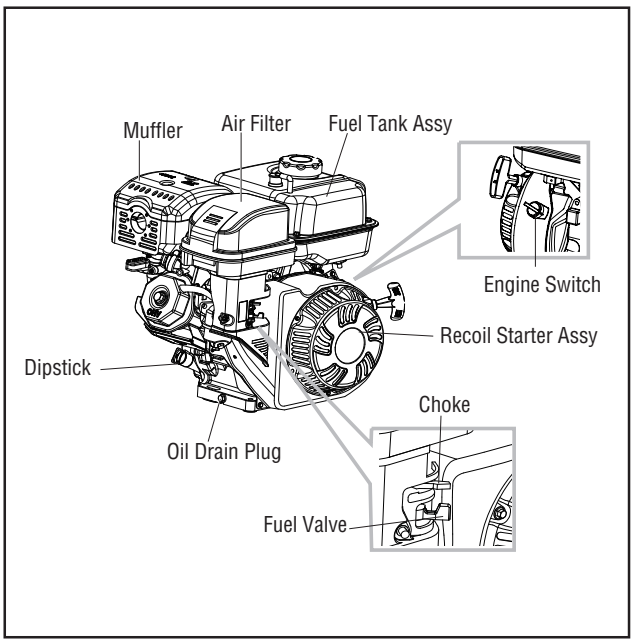
Operation of this equipment may create sparks that can start fires around dry vegetation. A spark arrestor may be required.
The operator should contact local fire agencies for laws or regulations relating to fire prevention requirements.

TO PREVENT SERIOUS INJURY FROM ACCIDENTAL STARTING: Turn the Engine Switch of the equipment to its "OFF" position, wait for the engine to cool, and unplug the spark plug wire(s) before assembling or making any adjustments to the equipment.

NOTICE For additional information regarding the parts listed in the following pages, refer to the "PARTS LIST AND DIAGRAM" on Page 22-25.

Pressure Washer Components





Accessories Included

Detergent Siphon Hose	1	Owner's Manual	1	Wheel axle	2
Oil Funnel	1	Spark Socket	1	Axle Spacer	2
0.6 Quart Engine Oil	1	Nozzle Cleaning Needle	1	Axle Pin	2

SET UP

Assembly

1. Install wheel kit. Slide the axle through the wheel hub, axle spacer and frame bracket as shown, then lock with a axle pin. See Figure A.

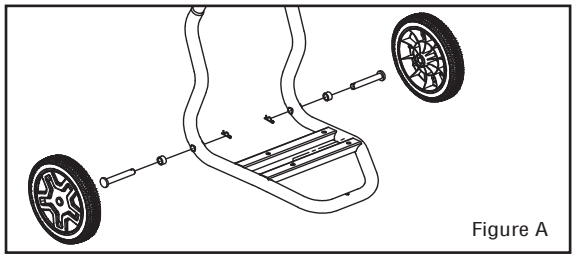


Figure A

2. Attach the Handle on to the Frame by inserting the clip in the Frame into the hole on Handle. See Figure B.

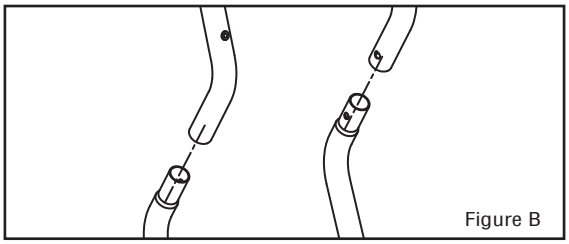


Figure B

3. Attach the Gun Holder to the Handle with a Knob. See Figure C.
4. Attach the Hose Hanger to the Handle with a Knob. See Figure C.

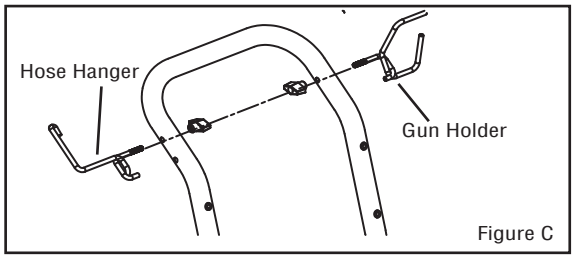


Figure C

5. Connect the Pressure Hose to the Pump outlet fitting and tighten the nut firmly by hand. See Figure D.

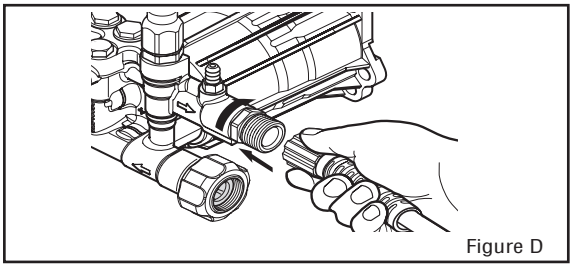


Figure D

5. Connect the Pressure Hose to the handle of the Spray Gun and tighten the nut firmly by hand. See Figure E.

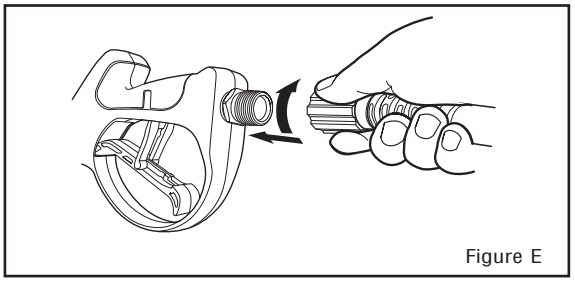


Figure E

6. Remove the protective cap on the Wand inlet. Insert the Wand into the Spray Gun tip and tighten the nut firmly by hand. See Figure F.

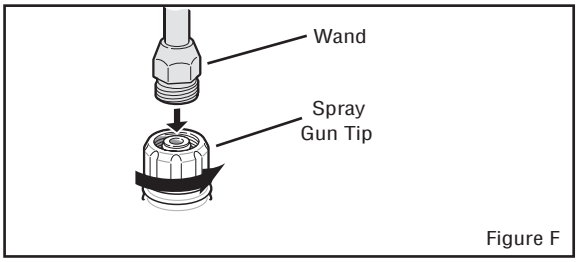


Figure F

7. Attach the Nozzle to the Wand by pulling back the quick connect collar and pushing the Nozzle onto the end of the Wand. Make sure the quick connect collar locks the Nozzle in place. See Figure G.

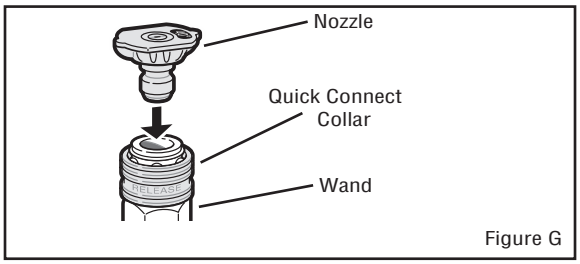


Figure G

8. Connect the water supply hose to the water inlet connection on the Pump and tighten the Inlet Fitting firmly by hand. See Figure H.
The water source must be able to provide a minimum of five gallons of clean, cold water per minute at 20PSI. Only use a 5/8" inner diameter(or larger) hose that is rated to meet this capacity.

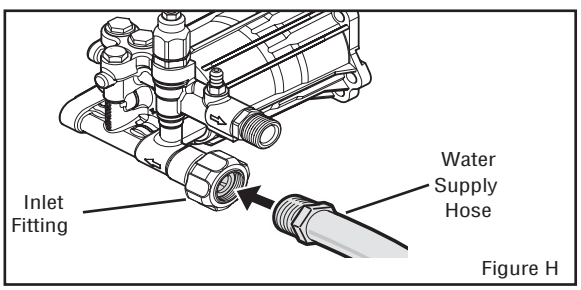


Figure H

SET UP

General Information

Fuel	. Use fresh high quality unleaded gasoline (minimum 87 octane) . Add stabilizer（not supplied）to fuel tank and run engine for 5 minutes before storage.
Oil	. Engine oil: Use only SAE 10W-30, 0.6 Quart non-detergent oil (supplied).
Water	. Use only cold water. . Do not opereate pressure washer with clogged or missing water filter screen. . Do not operate pressure washer without adequate water supply.
Pressure Adjustment	. Pressure setting is pre-set at factory. . For lowering pressure, refer to “Pressure Adjustment” on Page 14.
Pressure Pump	. Squeeze spray gun trigger every 2 minutes while engine is running. . Do not allow water to freeze in pump.
By-Pass Mode	. Never leave unit running for more than 2 minutes without squeeze spray gun trigger. Doing so could damage pump and void warranty.
Thermal Relief Valve	. Pump is equipped with a thermal relief valve. If water overheats, this valve opens releasing gush of water. Afterwards, the valve closes returning pump to normal operation.
Pressure Hose	. Do not allow hoses to come in contact with engine muffler during use or immediately after use. . DO NOT pull unit by pressure hose.
Engine	. Do not adjust or attempt maintenance without reading owner’s manual or consulting our Customer Service at 1-855-888-3598. . Add stabilizer(not supplied) to fuel tank and let enine run for 5 minutes before storage. . Always turn on water before starting engine.
Soap/Chemicals	. Use only soaps and chemicals detergents designed for pressure washer use.
Nozzle	. Always keep nozzles unclogged. Use the nozzle needle to clean if clogged. . Use ONLY detergent nozzle(black) when using chemical and cleaning solvents.
Storage or Winterizing	. Run clean water through chemical inlet. . Add stabilizer to any remaining fuel in fuel tank. . Do not allow water to freeze in pressure pump, spray gun, spray wand or hoses.

Read the entire "SAFETY" section at the beginning of this manual including all text under subheadings therein before set up or use of this product.
Improper treatment of Pressure Washer can damage internal components and shorten the life of unit. Failure to follow this warning will void warranty.

Pre-Start Checks

Inspect engine and equipment looking for damaged, loose and missing parts before set up and starting. If any problems are found, do not use equipment until fixed properly

1. Adding Engine Oil

NOTICE Your Warranty is VOID if the engine's crankcase is not properly filled with oil before each use. Before each use, check the oil level.
Engine will not start with low or no engine oil.

1.1 Move the Pressure Washer OUTSIDE and place on a flat and level surface.

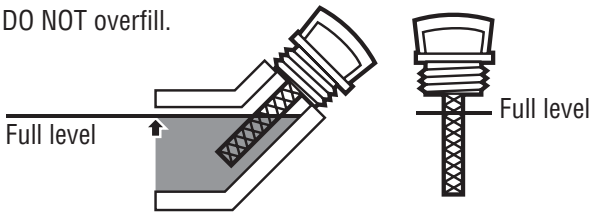
1.2 Make sure the engine is stopped and is level.

1.3 Close the Fuel Valve.

1.4 Clean the top of the Dipstick and the area around. Remove the Dipstick by turning it counterclockwise, and wipe it off with a clean, lint free rag.

1.5 Place funnel in the oil reservoir.

1.6 Pour engine oil (SAE 10W-30 is recommended for general use) until oil level reaches the threads inside the oil reservior.
DO NOT overfill.



1.7 Reinsert the Dipstick without threading it in and remove it to check the oil level. The oil level should be up to the full level as shown above.

1.8 If the oil level is at or below the low mark, add the appropriate type of oil until the oil level is at the proper level. (The SAE Viscosity Grade Chart on page 16 in the "MAINTENANCE" section shows other viscosities to use in different average temperatures.)

1.9 Replace the dipstick and fully tighten.

NOTICE Do not run the engine with too little oil.
Engine will shut off if engine oil level is too low.

2. Adding Fuel

WARNING Fuel and fuel vapor are extremely flammable and explosive. Fire or explosion from misuse of fuel can cause severe burns and even death. Failure to use fuel as recommended in this manual will void the warranty.

Fill the fuel tank in a well-ventilated area away from ignition sources. If the engine is hot from use, shut the engine off and wait for it to cool before adding fuel.
Do not smoke.

NOTICE Do not use gasoline that has been stored in a metal fuel container or a dirty fuel container. It can cause particles to enter the carburetor, affecting engine performance and/or causing damage.

2.1 Move the Pressure Washer OUTSIDE and place on a flat and level surface.

2.2 Clean the Fuel Cap and the area around it.

2.3 Unscrew and remove the Fuel Cap.

2.4 Remove the Strainer and remove any dirt and debris. Then replace the Strainer.

2.5 If needed, fill the Fuel Tank to about 1 inch under the fill neck of the Fuel Tank with 87 octane or higher unleaded gasoline that has been treated with a fuel stabilizer additive. Follow fuel stabilizer manufacturer's recommendations for use.

2.6 Then replace the Fuel Cap.

2.7 Wipe up any spilled fuel and allow excess to evaporate before starting engine. To prevent FIRE, do not start the engine while the smell of fuel hangs in the air.

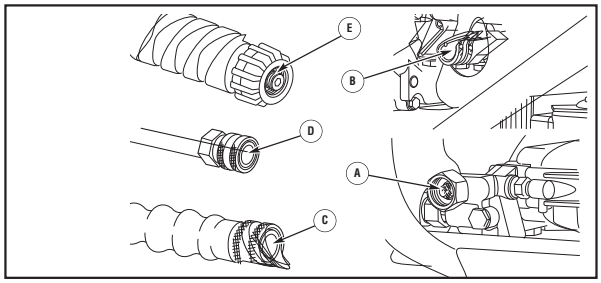
NOTICE When adding fuel to pressure washer, observe the following:
DO NOT use unapproved gasoline such as E85 (85% ethanol/15% gasoline).
DO NOT mix oil with gasoline.
DO NOT modify engine to run on alternate fuels.
Turn Pressure Washer OFF and let it cool for at least two minutes before removing fuel cap. Loosen fuel cap slowly to release pressure. Keep fuel away from sparks, open flames, pilot lights, heat and other ignition sources.
DO NOT light a cigarette or smoke near open flames, pilot lights, heat and other ignition sources.
DO NOT light a cigarette or smoke near open fuel tank or container.
Clean area around fuel fill cap and slowly remove cap to allow any pressure to escape.
Install fuel cap and allow any spilled fuel to evaporate before starting engine.

Pre-Start Checks (Continued)

3. Lubricate O-Rings

Lubrication of o-rings is extremely important for installation and operation. The use of a lubricant (petroleum or synthetic grease) during assembly helps seat o-rings properly and provides an improved seal. It also helps protect the o-ring from damage by abrasion, pinching or cutting and extends the life of the o-ring.

NOTICE ALWAYS apply a small amount of lubricant on o-rings prior to assembling the garden hose to the pump inlet(A), high pressure hose to pump outlet (B), high pressure hose (C), nozzle extension (D), and spray gun (E).



Lubricate all connections shown below, following these instructions:

3.1 Inspect and clean connecting surfaces prior to lubrication and assembly.

3.2 Use lubricants sparingly during assembly; a light film is all that is required.

3.3 Use a small brush or cotton swab to apply grease directly to o-rings where they are not accessible (QC fitting, M22 fitting).

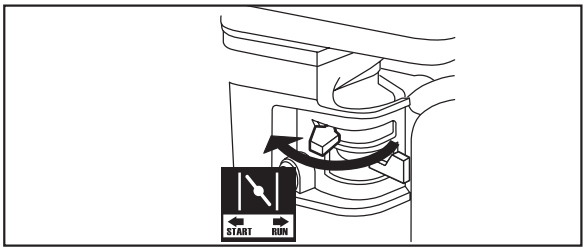
Starting The Engine

⚠ **WARNING** Before Starting the Engine
- Inspect the equipment and engine.
- Fill the engine with the proper amount and type of both stabilizer-treated unleaded gasoline and oil.

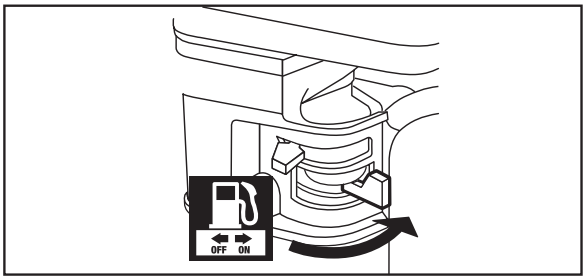
TURN ON WATER SUPPLY, REMOVE NOZZLE, POINT WAND IN SAFE DIRECTION, AND HOLD DOWN TRIGGER UNTIL ALL AIR IS RELEASED FROM THE SYSTEM, AT LEAST 30 SECONDS.

Then release the Trigger, lock it in the safety position and replace Nozzle before starting engine.

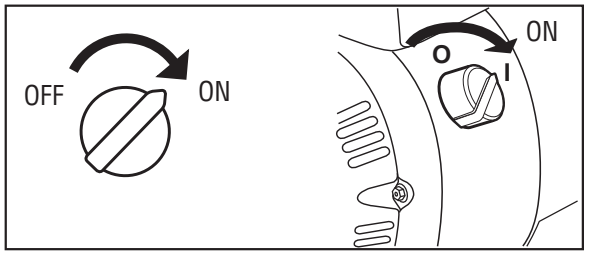
1. To start a cold engine, move the Choke to the START position.
   To restart a warm engine, leave the Choke in the RUN position.



2. Move the Fuel Valve to the "ON" position.

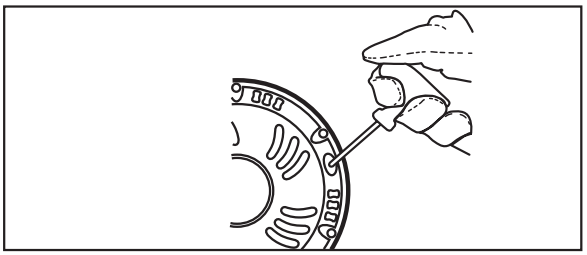


3. Turn the Engine Switch on.



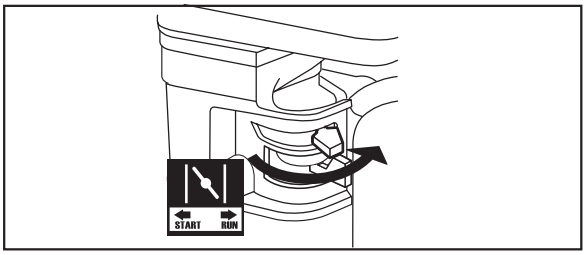
NOTICE If engine does not start, check engine oil level. Engine will not start with low or no engine oil.

4. Grip the Starter Handle of the Engine loosely and pull it slowly two times to allow the gasoline to flow into the Engine's carburetor. Then pull the Starter Handle gently until resistance is felt. Allow Cable to retract fully and then pull it quickly. Repeat until the engine starts.



NOTICE Do not let the Starter Handle snap back against the engine. Hold it as it recoils so it doesn't hit the engine.

5. Allow the Engine to run for several seconds. Then, if the Choke lever is in the START position, move the Choke Lever very slowly to its RUN position.



NOTICE Moving the Choke Lever too fast could stall the engine.

High Altitude Operation

At high altitudes over 3,000 feet, the engine carburetor and any other parts that control the fuel-air ratio will be affected, which will decrease performance, increase fuel consumption and increase emission. Proper operation can be ensured by installing an altitude kit by a qualified mechanic when use at altitude higher than 3,000 feet. Refer to the altitude kit and operation instruction (provided) when needed.

OPERATION

Pressure Washer Operation

⚠ WARNING

Do not direct spray from the Pressure Washer at a person or an animal.

The water stream could cause serious injury.

Do not leave Pressure Washer in bypass mode for more than 2 minutes at a time. Water temperature inside the pressure pump will rise to a dangerous level resulting in damage to the internal components of the pump. Failure to follow this warning will void warranty.

DO NOT run the pressure pump without the water supply connected and turned on. Damage to the Pressure Washer resulting from failure to follow instruction will void warranty.

ALWAYS wear approved safety glasses when operating Pressure Washers. Spray can splash back or propel objects, including incorrectly attached accessories.

The high pressure stream of water that this equipment produces can cut through skin and its underlying tissues, leading to possible amputation. Spray gun traps high water pressure, even when the motor is stopped and water is disconnected, which can cause injury.

Kickback from spray gun can cause you to fall.

⚠ CAUTION

Use the Pressure Washer only OUTSIDE in a fully VENTILATED area, place the Pressure Washer on surfaces able to withstand the force of the spray.

1. Selecting the Right Nozzle

To prevent damage to your surface and to select an appropriate nozzle size for your application, always start with lowest pressure nozzle size (Green) and continue to the higher noozel size until the best work result is achieved.

The Pressure Washer comes furnished with three spray nozzles. Each nozzle is color coded and delivers a specific spary pattern and pressure for a particular cleaning job. The size of the nozzle determines the size of the fan spary and the pressure out of the nozzle.

0° Nozzel - Red: This nozzle delivers a pinpoint stream of pressurized water and is extremely powerful. It covers only a small area of cleaning. This nozzle should only be directed at surfaces that can withstand high pressure such as metal or concrete. Do not use this nozzle to clean wood.

25° Nozzle - Green: This nozzle delivers a 25 degree spray pattern for intense cleaning of larger areas. It should only be used on areas that can withstand pressure from this nozzle.

Chemical Nozzle - Black: This nozzle is used to apply special chemicals and cleaning solutions. This nozzle produces the weakest spressure stream of the three nozzles.

2. Nozzles To Spray Wand

⚠ WARNING

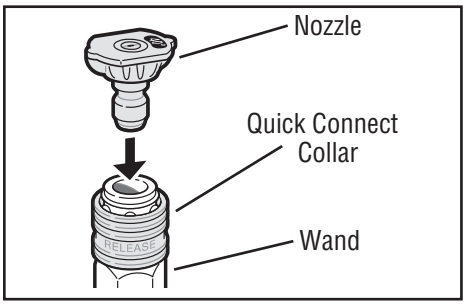
Never place hands in front of nozzle. Never grasp hose or fittings during Pressure Washer operation.

Never attempt to attach or remove spray wand or hose fittings while Pressure Washer system is pressurized.

Turn off Pressure Washer and lock the Gun Trigger before attempting to change pressure nozzles.

2.1 To attach, insert nozzle into femal quick-disconnect spray wand and press to snap in the nozzle.

2.2 To detach, slide down slip ring on female quick-disconnected to eject the nozzle.



3. Using The Spray Gun

⚠ WARNING

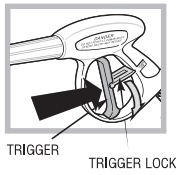
To prevent accidental discharge of high pressure washer, the trigger lock on the trigger should be engaged whenever the pressure wsher is not in use.

To disengage the Trigger Lock, push the lock down and into its original postion.

To Operate The Trigger:

3.1 Squeeze the trigger to start water flow through the nozzle.

3.2 Release the trigger to stop water flow.



4. Washing / Cleaning

⚠ WARNING

SOME ENGINE PARTS CAN BECOME EXTREMELY HOT.

Do not allow the pressure hose come in contact with engine exhaust sysm which can cause damage to the hose.

Damaged hoses can burst and can cause injection injuries.

4.1 Firmly grip spray gun with both hands.

4.2 Start with a low pressure Nozzle, and gradually use higher pressures as needed. Test spray the edge of the surface to be cleaned first to make sure that the stream is not too strong for the surface. If the stream damages the surface, move further away from the surface being cleaned to reduce the pressure being applied to the surface. If the stream is still too strong, lock the Trigger in the safety position and change to a lower pressure Nozzle.

4.3 Point the nozzle to a safe direction and squeeze the spray gun trigger to allow the pump to purge air and impurities in the system and then redirect the nozzle to the working surface.

4.4 Clean vertical and sloped surfaces from the top down.

4.5 When cleaning horizontal surfaces, occasionally use the stream to clear the area of excess water.

Pressure Washer Operation (Continued)

- For most effective cleaning, keep spray nozzle from 8 to 24 inches away from cleaning surface.
- If you get spray nozzle too close, you may damage surface being cleaned.
- DO NOT get closer than 6 inches when cleaning tires.

5. Pressure Adjustment

Increase distance: To vary the pressure on the surface being cleaned, vary the distance between spray wand and the surface being cleaned.
Change pressure wand nozzle: Completely shut down Pressure Washer and stop gasoline engine.
Change spray nozzle for desired pressure (see "Selecting The Right Nozzle" on Page 13).
Restart engine.

6. Using Chemicals And Cleaning Solvents

NOTICE Use only soaps and chemicals designed for use with Pressure Washer. DO NOT USE CHLORINE BLEACH.Chemicals, soaps and cleaning solvents will not siphon when a high pressure nozzle is used. Only use the Black (low pressure) Nozzle when spraying detergents. Fill Detergent Tank (NOT supplied) with prepared detergent solution and close the cap. The Pressure Washer will draw one gallon of detergent for every seven gallons of water.

7. To Rinse

7.1 Replace the nozzle with an appropriate high pressure nozzle (see "Selecting The Right Nozzle" on Page 13). Squeeze the trigger and wait for the detergent to clear.
7.2 Keep the spray gun a safe distance from the area you plan to spray.
7.3 Apply a high pressure spray to a small area, and then check the surface for damage. If no damage is found, it is okay to continue cleaning.
7.4 Start at the top of the area to be rinsed, working down with same overlapping strokes as you used for washing and applying detergent.

8.Cleaning Tips

⚠ WARNING

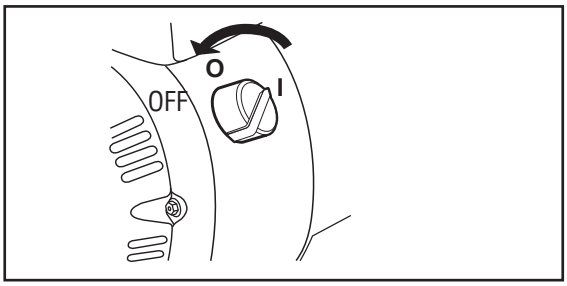
Never use the Pressure Washer water inlet to siphon detergent or wax.
Leaving chemicals and cleaning solutions inside the pressure pump could damage it. Damages created by leaving soaps, chemicals and cleaning solutions inside the pump can void the warranty.

Stopping the Engine and Pressure Washer

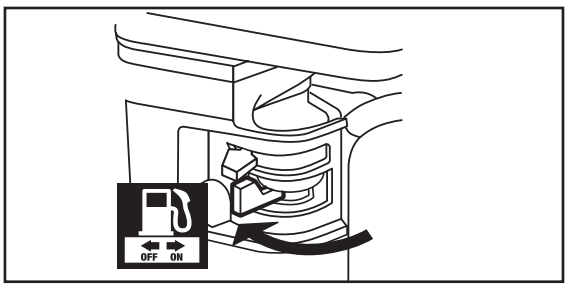
⚠ WARNING

SOME ENGINE PARTS CAN BECOME EXTREMLY HOT.
If you intend to disconnect the high pressure hose after completing a wash, avoid touching the engine exhaust system while disconnecting the high pressure hose from the pump.

1. To stop the engine in an emergency, turn the Engine Switch off.



2. Under normal conditions, use the following procedure:
   2.1 Release the Trigger on the Spray Gun handle.
   2.2 Turn the Engine Switch off.
   2.3 Close the Fuel Valve.
   2.4 Turn the water supply off.



3. Squeeze the Trigger to release excess pressure.
4. If pressure washer detergent has been used, run clean water through the system to eliminate detergent residue using the following procedure:
   4.1 Turn off the Engine as detailed in step 2.
   4.2 Fill the Detergent Tank (Not supplied) with clean water.
   4.3 Remove the Nozzle and restart the Engine (Following directions in “Starting The Engine” on Page 11.)
   4.4 Point Wand in safe direction and hold down to flush water through system until clean.
   4.5 Turn off the Engine as detailed in step 2.

MAINTENANCE

⚠ WARNING
Regular maintenance will improve performance and extend life of Pressure Washer.
Pressure Washer's warranty does not cover items that have been subjected to operator abuse or negligence. Only by maintaining Pressure Washer in accordance with instructions in this manual will the full value of the warranty be honored. Some adjustments will need to be made periodically to properly maintain the Pressure Washer. All service and adjustments should be made at least one time each season. It is important that the maintenance chart below be followed.

Many maintenance procedures, including any not detailed in this manual, will need to be performed by a qualified technician for safety. If you have any doubts about your ability to safely service the equipment or engine, have a qualified technician service the equipment instead.

Engine Maintenance Schedule

NOTICE This maintenance schedule is intended solely as a general guide. If performance decreases or if equipment operates unusually, check systems immediately. The maintenance needs of each piece of equipment will differ depending on factors such as duty cycle, temperature, air quality, fuel quality, and other factors.

NOTICE The following procedures are in addition to the regular checks and maintenance explained as part of the regular operation of the engine and equipment.

Frenquency	Items	Each Time	Every month or 20 Hrs	Every 3 months or 50 Hrs	Every 6 months or 100 Hrs	Every Year or 300 Hrs
Brush off outside of engine						
Engine Oil	Check oil level	√				
	Replace				√ *	
Air Filter	Check	√				
	Clean			√	√ *	
	Replace					√ *
Deposit Cup	Clean				√	
Spark Plug	Clean, Adjust				√ ***	
	Replace					√ *
Spark Arrester	Clean				√	
Valve Clearance	Check, Adjust					√ **
Fuel Tank	Clean					√ **
Emission & Evaporation System						√ **
Fuel Supply Line	Clean	Every two years (Replace if necessary**)				

* Recommended to be performed more often than in the schedule if operated in dusty environments.
** Recommended to be performed by qualified technician.
*** Adjust air gap to 0.6mm - 0.7mm.

Pump Maintenance

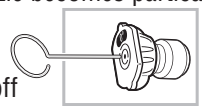
1. Checking Pressure Pump

The pressure pump is maintenance free. If you notice any sign of oil leakage in and around the pump, DO NOT operate the pressure washer.

Please call our Customer Service at 1-855-888-3598.

2. Cleaning Nozzle

Ocasionally, the spary wand can become clogged with foreign materials such as dirt. When this hapens excessive pressure can develop. Whenever the pressure nozzle becomes partically clogged, the pump pressure will pulsate.



It should be immeiately cleaned.

2.1 Make sure Pressure Washer is shut off and spray gun trigger is locked.

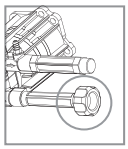
2.2 Remove high pressure spray nozzle from the spray wand. Using the nozzle cleaning needle (provided), remove any obstructions by inserting and carefully moving the pin back-and-forth through nozzle hole under clean running water.

2.3 After claning, remove the needle from nozzle and store for future use.

2.4 Reassemble pressure nozzle to spray wand.

3. Cleaning Water Inlet Screen Filter

The water inlet screen filter should be checked periodically and cleaned if necessary.



3.1 Disconnect inlet water hose.

3.2 Remove filter by grasping end and pull straight back.

3.3 Clean screen filter by flushing both sides with water.

3.4 Insert screen filter back inside water inlet port.

⚠ WARNING
Do not operate Pressure Washer without screen filter. Impurities entering pressure pump can cause internal damage.

Cleaning Pressure Washer

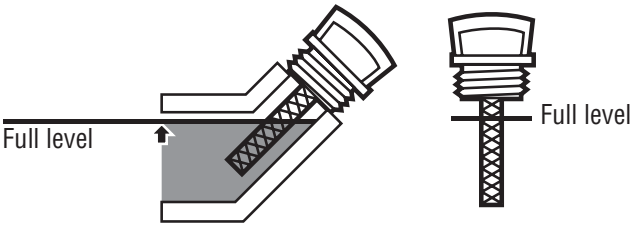
Daily or before use inspections should include areas around and underneath Pressure Washer looking for signs of fuel or oil leaks. Preventative maintenance should be taken if leakage is found. Clean accumulated debris from outside and inside Pressure Washer. Ensure all linkages, springs and other engine controls are kept clean. Inspect cooling air slots and openings on Pressure Washer. Openings must be kept clean and unobstructed for peak performance of Pressure Washer. Engine components should be kept clean reducing risk of overheating and ignition of accumulated debris.

- Use a damp cloth to wipe exterior surfaces clean.
- Use a soft bristle brush to loosen caked on dirt or oil.
- Use a shop-vacuum to pick up any loose dirt and debris.

Changing Engine Oil

⚠ CAUTION Oil is very hot during operation and can cause burns. Wait for engine to cool before changing oil.

1. Make sure the engine is stopped and is level.
2. Close the Fuel Valve.
3. Place a drain pan (not included) underneath the crankcase's drain plug.
4. Remove the drain plug and, if possible, tilt the crankcase slightly to help drain the oil out. Recycle used oil.
5. Replace the drain plug and tighten it.
6. Clean the top of the Dipstick and the area around it. Remove the Dipstick by turning it counterclockwise, and wipe it off with a clean, lint free rag.



Adding Engine Oil

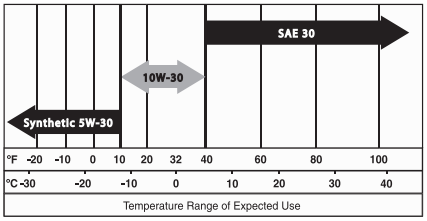
All oil should meet minimum American Petroleum Institute(API) Service Class SJ, SL or better. Use no special additives. Select the oil's Viscosity grade according to the expected operating temperature (also see chart).

The SAE Viscosity Grade Chart

Above 40°F, use 10W-30

Between 40°F and 10°F, use 10W-30

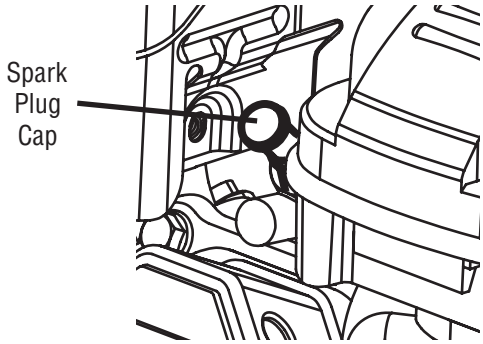
Below 10°F, use synthec 5W-30



Replace the Dipstick and Clockwise.

NOTICE Do not run the engine with too little oil. Engine will not start with low or no engine oil.

Spark Plug Maintenance



1. Disconnect spark plug cap from end of plug. Clean out debris from around spark plug.
2. Using a spark plug wrench, remove the spark plug.
3. Inspect the spark plug:
   If the electrode is oily, clean it using a clean, dry rag.
   If the electrode has deposits on it, polish it using emery paper. If the white insulator is cracked or chipped, the spark plug needs to be replaced.

Recommended Spark Plugs	
NGK®	BP-6ES
NHSP® / TORCH®	F6TC

NOTICE Using an incorrect spark plug may damage the engine.

4. When installing a new spark plug, adjust the plug's gap to the specification on the Specifications chart. Do not pry against the electrode, the spark plug can be damaged.
5. Install the new spark plug or the cleaned spark plug into the engine.
   - Gasket-style
     Finger-tighten until the gasket contacts the cylinder head, then tighten about 1/2-2/3 turn more.
   - Non-gasket-style
     Finger-tighten until the plug contacts the cylinder head, then tighten about 1/16 turn more.

NOTICE Tighten the spark plug properly. If loose, the spark plug will cause the engine to overheat. If overtightened, the threads in the engine block will be damaged.

6. Apply dielectric spark plug boot protector (not included) to the end of the spark plug and reattach the wire securely.

Air Filter Maintenance

1. Remove the Air Filter Cover and the air filter(s) and check for dirt. Clean as described below.
2. Cleaning:
   - For paper filters:
     To prevent injury from dust and debris, wear ANSI-approved safety goggles, NIOSH-approved dust mask/respirator, and heavy-duty work gloves. In a well-ventilated area away from bystanders, use pressurized air to blow dust out of the filter. If this does not get the filter clean, replace it.
   - For foam filters:
     Wash the filter in warm water and mild detergent several times. Rinse. Squeeze out excess water and allow it to dry completely. Soak the filter in lightweight oil briefly, then squeeze out the excess oil.
3. Install the cleaned filter(s). Secure the Air Filter Cover before use.

Long-term Storage

When the equipment is to remain idle for longer than 20 days, prepare the Engine for storage as follows:

1. Cleaning

Wait for Engine to cool, then clean Engine with dry cloth.
NOTICE Do not clean using water.
The water will gradually enter the Engine and cause rust damage. Apply a thin coat of rust preventive oil to all metal parts.

2. Fuel

Gasoline fuel can become stale when stored over 30 days, which will cause acid and gun deposits to form in the fuel system or crucial carburetor parts. To keep fuel fresh, add fuel stabilizer tablets to the fuel tank. Draining gasoline is unnecessary if the fuel stabilizer is used according to the instructions that come with it. Run Pressure Washer engine for a minimum of two minutes, after stabilizer is added to fuel, to allow it to circulate throughout the engine. The engine and fuel can be stored up to 24 months.

⚠ **WARNING** TO PREVENT SERIOUS INJURY FROM FIRE:
Fill tank in a well-ventilated area away from ignition sources. If the engine is hot from use, shut the engine off and wait for it to cool before adding fuel. Do not smoke.

3. Lubrication

To protect against rust formation during storage, oil the cylinder bore:

3.1 Change engine oil.

3.2 Clean out area around spark plug. Remove spark plug and pour approximately 1/2 oz (15 ml) of clean engine oil into cylinder through spark.

3.3 Replace spark plug, but leave spark plug cap disconnected.

3.4 Pull Starter Handle to distribute oil in cylinder. Stop after one or two revolutions when you feel the piston start the compression stroke (when you start to feel resistance).

⚠ WARNING

Unintentional sparking can cause fire or electrical shock. Failure to oberseve this warning can cause severe property damage, severe burns and even death.

Disconnect spark plug wire from spark plug and cover tip of spark plug wire with insulating tape and place wire where it cannot come in contact with spark plug or Pressure Washer frame.

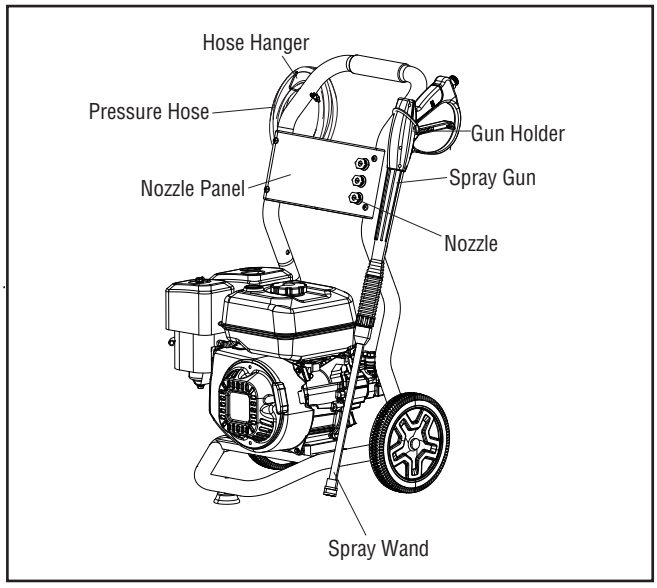
4. Storing Accesseries

The Pressure Washer is equipped with places to store your accesseries as shown.

4.1 Place Spray Gun into Gun Holder

4.2 Place nozzles on the nozzle panel.

4.3 Coil and tie Pressure Hose, and hang on the hose hanger.



5. Pump Preparation:

5.1 Disconnect the Pressure Hose and water supply hose from the Pump.

5.2 Connect a short length of garden hose with a male hose connector on one end to the Pump's water inlet connection.

5.3 Use a funnel to add approximately six ounces of RV antifreeze to the Pump.

NOTICE Use only RV antifreeze. Other types of antifreeze are corrosive and can damage Pump.

5.4 With spark plug cap disconnected and Engine switch in OFF position, pull Starter Handle several times until antifreeze begins to come out of Pump outlet fitting.

5.5 Remove Pressure Hose from Pump.

6. Storage Area

Cover and store in a dry, level, well-ventilated area out of reach of children. Storage area should also be away from ignition sources, such water heaters, clothes dryers and furnaces.

7. Every 3 Months, To Protect Engine and Warranty Coverage

7.1 Safely drain antifreeze, and dispose of properly.

7.2 Connect Pressure Hose and water supply hose.

7.3 Turn on water supply, remove nozzle, point wand in safe direction, and hold down trigger until all air is released from the system, at least 30 seconds. Then release the Trigger, lock it in the safety position and replace Nozzle before starting engine.

7.4 Discharge nozzle in safe direction run engine for 15-20 minutes or the Warranty is VOID. Turn off engine.

7.5 Discharge nozzle in safe direction, and then disconnect hoses and drain water.

7.6 Connect a short length of garden hose with a male hose connector on one end to the Pump's water inlet connection.

7.7 Use a funnel to add approximately six ounces of RV antifreeze to the Pump.

NOTICE Use only RV antifreeze. Other types of antifreeze are corrosive and can damage Pump.

8. Preparation For Use After Storage

8.1 Slowly pull the starter cord a few times to clean oil from the cylinder or to eject any antifreeze from the pump which were added prior to storage.

8.2 Remove the spark plug from the cylinder. Wipe oil from the spark plug and return it to the cylinder and retighten.

8.3 Reconnect the spark plug wire.

Trouble Shooting

Problem	Possible Causes	Probable Solutions
Engine will not start	FUEL RELATED:	FUEL RELATED:
	1. No fuel in tank or fuel valve is in “OFF” position.	1. Fill fuel tank with fresh 87+ octane unleaded stabilizer-treated gasoline and turn fuel valve to “ON” position. Do not use gasoline with more than 10% ethanol (E15, E20, E85, etc.).
	2. Low quality, stale, dirty or deteriorated gasoline.	2. Drain fuel tank and carburetor; fill with fresh fuel.
	3. Choke not in START position, cold engine.	3. Move Choke to START position.
	4. Carburetor not primed.	4. Pull on Starter Handle to prime.
	5. Dirty fuel passageways.	5. Clean out passageways using fuel additive. Heavy deposits may require further cleaning.
	6. Carburetor needle stuck. Fuel can be smelled in the air.	6. Gently tap side of carburetor float chamber with screwdriver handle.
	7. Too much fuel in chamber. This can be caused by the carburetor needle sticking.	7. Turn Choke to RUN position. Remove spark plug and pull the start handle several times to air out the chamber. Reinstall spark plug and set Choke to START position.
	8. Intake valve stuck open or closed.	8. Call customer servise: 1-855-888-3598.
	9. Clogged Fuel Filter.	9. Replace Fuel Filter.
	IGNITION (SPARK) RELATED:	IGNITION (SPARK) RELATED:
	1. Spark plug cap not connected securely.	1. Connect spark plug cap properly.
	2. Spark plug electrode wet or dirty.	2. Clean spark plug.
	3. Incorrect spark plug cap	3. Correct spark plug cap.
	4. Sparkplug cap broken.	4. Replace spark plug cap
	5. Incorrect spark timing or faulty ignition system.	5. Have qualified technician diagnose/repair ignition system.
	COMPRESSION RELATED:	COMPRESSION RELATED:
	1. Cylinder not lubricated. Problem after long storage periods.	1. Pour tablespoon of oil into spark plug hole. Crank engine a few times and try to start again.
	2. Loose or broken spark plug. (Hissing noise will occur when trying to start.)	2. Tighten spark plug. If that does not work, replace spark plug. If problem persists, may have head gasket problem, see #3.
	3. Loose cylinder head or damaged head gasket. (Hissing noise will occur when trying to start.)	3. Tighten head. If that does not remedy problem, replace headgasket.
	4. Engine valves or tappets mis-adjusted or stuck.	4. Have qualified technician adjust/repair valves and tappets.
	ENGINE OIL RELATED:	ENGINE OIL RELATED:
	1. Low engine oil.	1. Fill engine oil to proper level. Check engine oil before EVERY use.
	2. Engine mounted on slope, triggering low oil shutdown.	2. Operate engine on level surface. Check engine oil level.
Engine "hunts" or falters	1. Carburetor is running too rich or too lean.	1. Call Customer Service: 1-855-888-3598.
	2. Clogged or dirty fuel filter.	2. Clean or replace fuel filter.
Engine lacks power	1. Cylinder pressure is low.	1. Call Customer Service: 1-855-888-3598.
	2. Dirty air filter.	2. Clean or replace fuel filter.

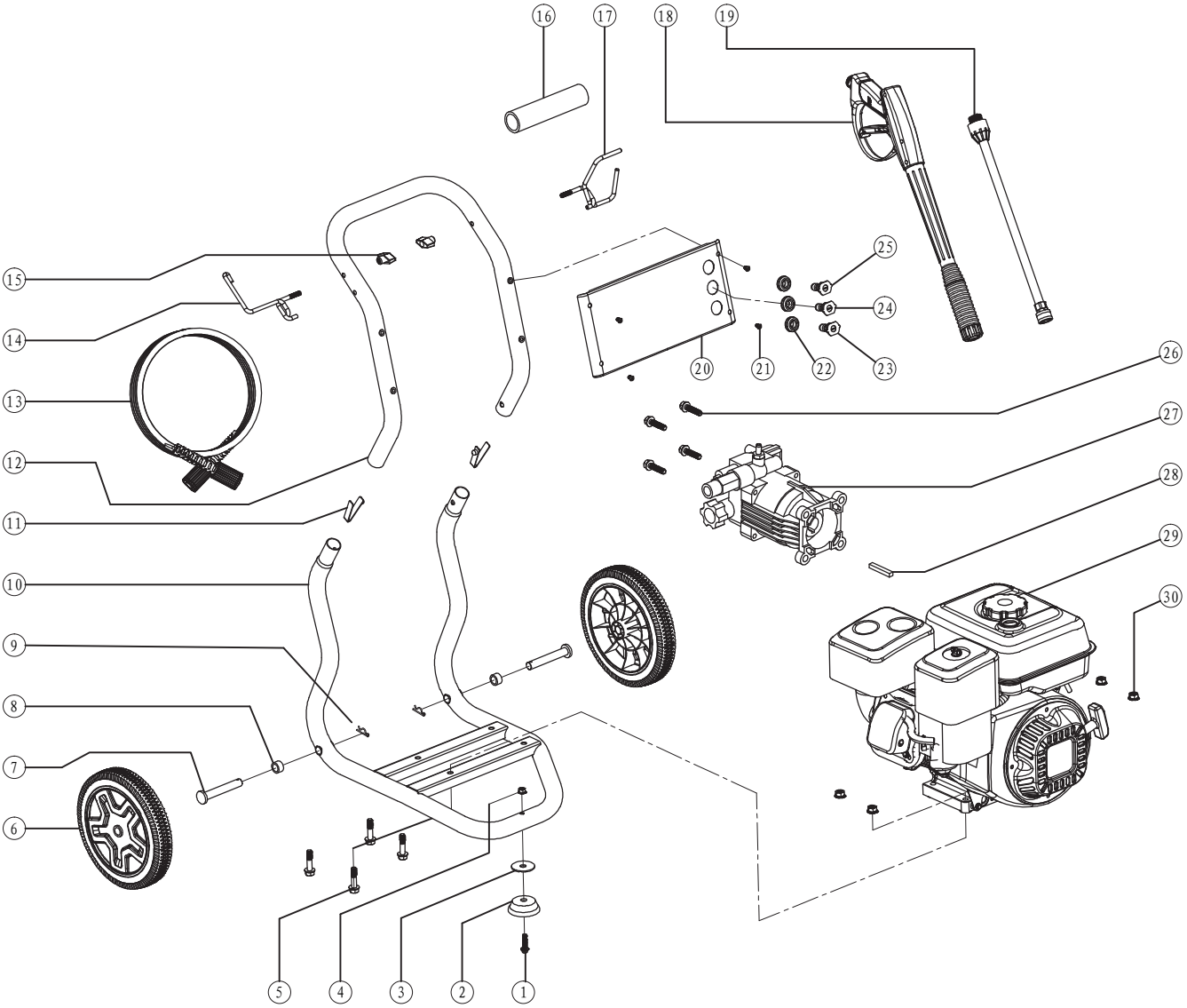
Trouble Shooting (Continued)

Problem	Possible Causes	Probable Solutions
Engine misfires	1. Sparkplug cap loose. 2. Incorrect or defective spark plug. 3. Defective spark plug cap. 4. Old or low quality gasoline. 5. Incorrect compression.	1. Check wire connections. 2. Re-gap or replace spark plug. 3. Replace spark plug cap. 4. Use only fresh 87+ octane stabilizer-treated unleaded gasoline. Do not use gasoline with more than 10% ethanol (E15, E20, E85, etc.). 5. Diagnose and repair compression. (See “Engine will not start: COMPRESSION RELATED section.)
Engine stops suddenly	1. Fuel tank empty or full of impure or low quality gasoline. 2. Low oil shutdown. 3. Defective fuel tank cap creating vacuum,preventing proper fuel flow. 4. Faulty magneto. 5. Disconnected or improperly connected spark plug cap.	1. Fill fuel tank with fresh 87+ octane stabilizer-treated unleaded gasoline. Do not use gasoline with more than 10% ethanol (E15, E20, E85, etc.). 2. Fill engine oil to proper level. Check engine oil before EVERY use. 3. Test/replace fuel tank cap. 4. Have qualified technician service magneto. 5. Secure spark plug cap.
Engine stops when under heavy load	1. Dirty air filter 2. Engine running cold.	1. Clean or replace element. 2. Allow engine to warm up prior to operating equipment.
Engine knocks	1. Old or low quality gasoline. 2. Engine overloaded. 3. Incorrect spark timing, deposit buildup, worn engine, or other mechanical problems.	1. Fill fuel tank with fresh 87+ octane stabilizer-treated unleaded gasoline. Do not use gasoline with more than 10% ethanol (E15, E20, E85, etc.). 2. Do not exceed equipment’s load rating. 3. Have qualified technician diagnose and service engine.
Engine backfires	1. Impure or low quality gasoline. 2. Engine too cold. 3. Intake valve stuck or overheated engine. 4. Incorrect timing.	1. Fill fuel tank with fresh 87+ octane stabilizer-treated unleaded gasoline. Do not use gasoline with more than 10% ethanol (E15, E20, E85, etc.). 2. Use cold weather fuel and oil additives to prevent backfiring. 3. Have qualified technician diagnose and service engine 4. Check engine timing.
No pressure or Low pressure	1. Sparay wand not set to high pressure. 2. Inadequate water supply. 3. Hose fitting leaks during high pressure. 4. Nozzle obstructeed. 5. Water filter screen obstructed. 6. Defective pump. 7. Air in hose. 8. Choke lever in “CHOKE ” position.	1. See "Selecting The Right Nozzle" on Page 13. 2. Water supply must be 5 GPM @ 20 PSI. 3. Tighten hose fitting. Use thread sealant tape if necessary. 4. Clean Nozzle (See “Cleaning Nozzle” on Page 16). 5. Remove and clean filter. 6. Call Customer Service: 1-855-888-3598. 7. Squeeze ftrigger to remove air. 8. Move choke to "RUN" position.

Trouble Shooting (Continued)

Problem	Possible Causes	Probable Solutions
Output pressure varies	1. Not enough water supply.	1. Check water supply hose for kinks, leaks, or blockage. Open faucet all the way.
	2. Water inlet screen is clogged.	2. Remove inlet screen and rinse out.
	3. Nozzle is clogged.	3. Remove Nozzle and clean.
	4. Nozzle has mineral build up.	4. Remove Nozzle and clean with vinegar.
Water or Oil Leaking at Pump	1. Loose connections. 2. Worn or broken O-rings. 3. Pump head or tubes damaged from freezing.	1. Tighten connections. 2. Call Customer Service: 1-855-888-3598. 3. Call Customer Service: 1-855-888-3598.
No intake of detergent	1. Detergent hose not properly inserted into unit.	1. Push firmly into injector.
	2. Tube cracked or split.	2. Replace tube.
	3. Wrong Nozzle.	3. Switch to Black Nozzle.
	4. Injector turned off.	4. Turn collar counterclockwise.
	5. Injection tube strainer clogged.	5. Clean strainer.
	6. Nozzle blocked.	6. Clean Nozzle.
	7. Dried detergent in injector.	7. Dissolve by running warm water through the injection tube. Run clean water through injector until clear.
Water leaking at spray gun/wand connection	1. Worn or broken O-ring. 2. Loose hose connection.	1. Call Customer Service at 1-855-888-3598. 2. Tighten hose connection.

General Assembly Diagram



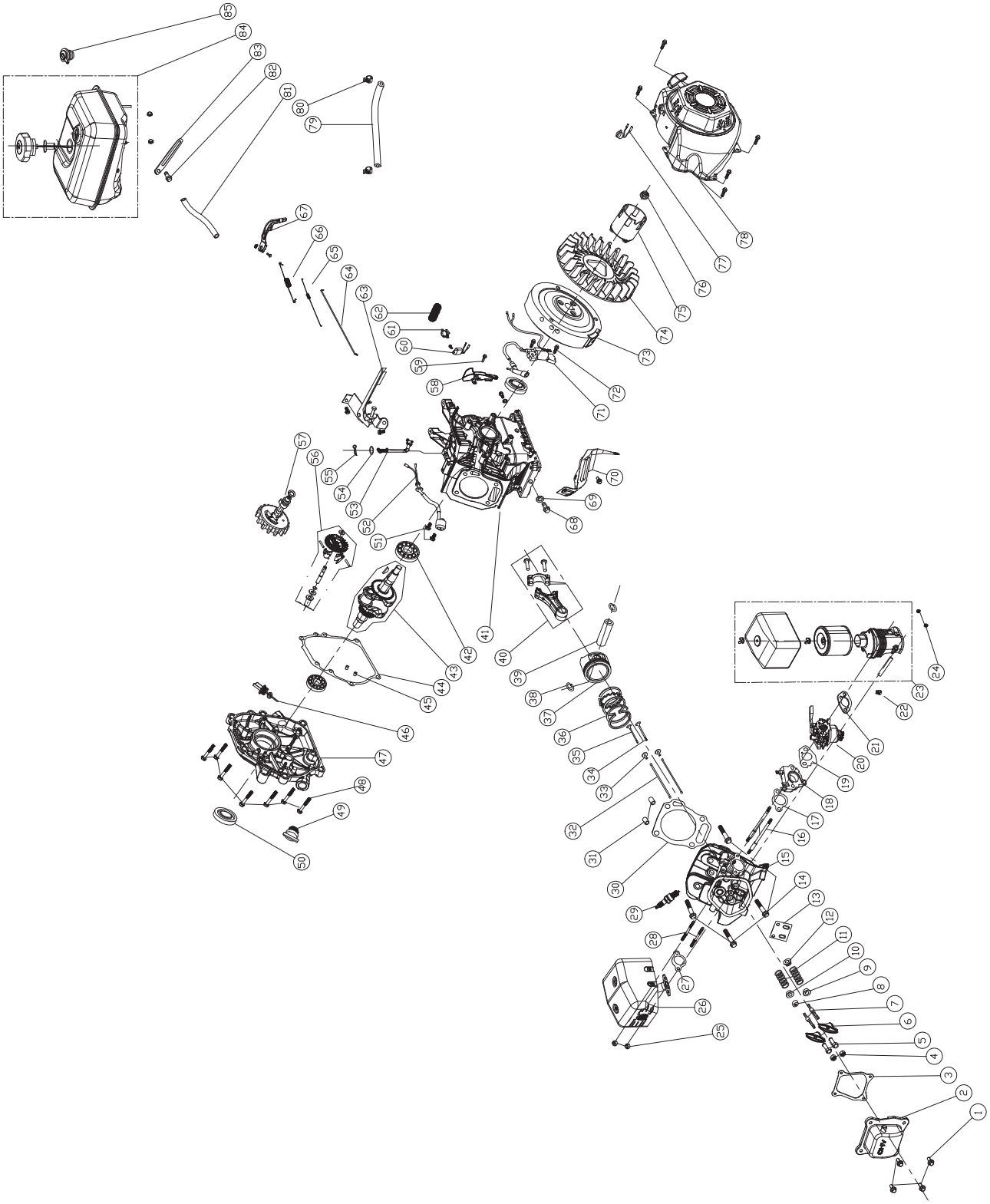
PARTS LIST AND DIAGRAM

General Parts List

PART	DESCRIPTION	QTY
1	Bolt	1
2	Rubber Pad	1
3	Gasket	1
4	Nylon Nut	1
5	Flange Bolt	4
6	Wheel Assy	2
7	Axle	2
8	Axle Spacer	2
9	Pin	2
10	Frame Assy	1
11	Clip	2
12	Handle Assy	1
13	Pressure Hose	1
14	Hose Hanger	1
15	Knob	2

PART	DESCRIPTION	QTY
16	Handle Grip	1
17	Gun Holder	1
18	Gun	1
19	Wand	1
20	Nozzle Panel	1
21	Hex Bolt	4
22	Nozzle Grommet	3
23	Nozzle- Detergent	1
24	Nozzle-0°	1
25	Nozzle-25°	1
26	Flange Bolt	4
27	Pump	1
28	Key	1
29	AP168FB Engine	1
30	Flange Nut	4

Engine Assembly Diagram



PARTS LIST AND DIAGRAM

Engine Parts List

PART	DESCRIPTION	QTY
1	Flange Bolt	13
2	Cylinder Head Assy	1
3	Cylinder Head Gasket	1
4	Nut,Rocker Arm	2
5	Rockshaft	2
6	Rocker Arm	2
7	Bolt,Rockshaft	2
8	Rotator, Exhaust Valve	1
9	Retainer,Intake Valve Spring	1
10	Retainer,Exhaust Valve Spring	1
11	Spring Valve	2
12	Oil Sheild	1
13	Plate,Push Rod Guide	1
14	Flange Bolt	4
15	Cylinder Head Assy	1
16	Stud Bolt,Intake	2
17	Gasket, Inlet Valve	1
18	Carburetor Connecting Block	1
19	Carburetor Washer	1
20	Carburetor Assy	1
21	Air Filter Gasket	1
22	Clamp	1
23	Air Filter Assy	1
24	Flange Nut	4
25	Hexagon Nut	2
26	Muffler Assy	1
27	Muffler Washer	1
28	Stud Bolt,Exhaust	2
29	Spark Plug	1
30	Gasket,Cylinder Head	1
31	Dowel Pin	2
32	Rod,Push	2
33	Lifter Valve	2
34	Valve,Inlet	1
35	Valve,Exhaust	1
36	Piston Ring Components	1
37	Piston	1
38	Piston Pin Clamp	2
39	Piston Pin	1
40	Connecting Rod	1
41	Crank Case	1
42	Bearing	2
43	Crankshaft Assy	1

PART	DESCRIPTION	QTY
44	Crankshaft Gasket	1
45	Dowel Pin	2
46	Dipstick	1
47	Crankcase Cover	1
48	Flange Bolt	6
49	Dipstick Plug	1
50	Oil Seal	2
51	Flange Bolt	2
52	Oil Sensor	1
53	Regulating Rocker Rod	2
54	Washer Plain	1
55	Clip, Dowel Pin	1
56	Governor Assy	1
57	Cam Shaft Assy	1
58	Wind Board	1
59	Flange Bolt	1
60	Oil Alert	1
61	Clip, Dowel Pin	1
62	Bellows	0.055
63	Regulating Control Assy	1
64	Regulating Rocker Rod	1
65	Fine Spring	1
66	Reset Spring	1
67	Arm,Governor	1
68	Oil Drain Plug	2
69	Aluminium Washer	2
70	Wind Board	1
71	Ingnition Coil Assy	1
72	Flange Bolt	2
73	Flywheel Assy	1
74	Cooling Fan	1
75	Starting Cup	1
76	Flange Nut	1
77	Engine Switch	1
78	Recoil Starter Assy	1
79	Fuel Hose	0.165
80	Clamp	2
81	Fuel Hose	0.25
82	Flange Bolt	1
83	Metal Clip	1
84	Fuel Tank Assy	1
85	Slant Valve Assy	1

CALIFORNIA EMISSION CONTROL WARRANTY STATEMENT

YOUR WARRANTY RIGHTS AND OBLIGATIONS

The California Air Resources Board, the United States Environmental Protection Agency and A-iPower, are pleased to explain the emission are pleased to explain the emission control system warranty on your 2016-2017 model year small off-road engine/equipment. In the United States and California, new small off-road engine/equipment must be designed, built and equipped to meet the State's stringent anti smog standards. A-iPower must warrant the emission control system on your small off-road engine/equipment for the periods of time listed below provided there has been no abuse, neglect or improper maintenance of your small off-roadengine/equipment.

Your emission control system may include parts such as the carburetor or fuel injection system, the ignition system, catalytic converter, fuel tanks, fuel lines, fuel caps, valves, canisters, filters, vapor hoses, clamps, connectors, belts, and other associated emission-related components. For engines less than or equal to 80 cc, only the fuel tank is subject to the evaporative emission control warranty requirements of this section (California only).

Where a warrantable condition exists, A-iPower will repair your small off-road engine/equipment at no cost to you including diagnosis, parts and labor.

MANUFACTURER'S WARRANTY COVERAGE:

This Emissions Control System is warranted for two years. If any emission-related part on your engine/equipment is defective, the part will be repaired or replaced by A-iPower.

OWNER'S WARRANTY RESPONSIBILITIES:

As the small off-road engine/equipment owner, you are responsible for the performance of the responsible for the performance of the required maintenance listed in your owner's manual. A-iPower recommends that you retain all receipts covering maintenance on your small off-road engine/equipment, but A-iPower cannot deny warranty solely for the lack of receipts or for your failure to ensure the performance of all scheduled maintenance.

As the small off-road engine/equipment owner, you should however be aware that A-iPower may deny you warranty coverage if your small off-road engine/equipment or a part has failed due to abuse, neglect, improper maintenance or unapproved modifications. You are responsible for presenting your small off-road engine/equipment to A-iPower distribution center as soon as a problem exists. The warranty repairs should be completed in a reasonable amount of time, not to exceed 30 days.

If you have a question regarding your warranty coverage, you should contact Senci Power USA Inc at 1-855-888-3598 or support@a-ipower.com.

DEFECTS WARRANTY REQUIREMENTS:

(a) The warranty period begins on the date the engine/equipment is delivered to an ultimate purchaser.

(b) General Emissions Warranty Coverage. A-iPower warrants to the ultimate purchaser and each subsequent owner that the engine/equipment is:
(1) Designed, built, and equipped so as to conform with all applicable regulations adopted by the Air Resources Board; and (2) Free from defects in materials and workmanship that causes the failure of a warranted part for a period of two years.

(c) The warranty on emissions-related parts will be interpreted as follows:
(1) Any warranted part that is not scheduled for replacement as required maintenance in the written instructions required by subsection (d) must be warranted for the warranty period defined in Subsection (b)(2). If any such part fails during the period of warranty coverage, it must be repaired or replaced by A-iPower according to Subsection (4) below. Any such part repaired or replaced under the warranty must be warranted for the remaining warranty period.
(2) Any warranted part that is scheduled only for regular inspection in the written instructions required by Subsection (d) must be warranted for the warranty period defined in Subsection (b)(2). A statement in such written instructions to the effect of “repair or replace as necessary” will not reduce the period of warranty coverage. Any such part repaired or replaced under warranty must be warranted for the remaining warranty period.
(3) Any warranted part that is scheduled for replacement as required maintenance in the written instructions required by Subsection (d) must be warranted for the period of time prior to the first scheduled replacement point for that part. If the part fails prior to the first scheduled replacement, the part must be repaired or replaced by A-iPower according to Subsection (4) below. Any such part repaired or replaced under warranty must be warranted for the remainder of the period prior to the first scheduled replacement point for the part.
(4) Repair or replacement of any warranted part under the warranty must be performed at no charge to the owner at a warranty station.

(5) Notwithstanding the provisions of Subsection (4) above, warranty services or repairs must be provided at all A-iPower distribution centers that are franchised to service the subject engine/equipment.
(6) The owner must not be charged for diagnostic labor that leads to the determination that a warranted part is in fact defective, provided that such diagnostic work is performed at a warranty station.
(7) A-iPower is liable for damages to other engine/equipment to other engine/equipment components proximately caused by a failure under warranty of any warranted part.
(8) Throughout the emissions warranty period defined in Subsection (b)(2), A-iPower must maintain a supply of warranted parts sufficient to meet the expected demand for such parts.
(9) Any replacement part may be used in the performance of any warranty maintenance or repairs and must be provided without charge to the owner. Such use will not reduce the warranty obligations of A-iPower. maintenance or repairs and must be provided without charge to the owner. Such use will not reduce the warranty obligations of A-iPower.
(10) Add-on or modified parts that are not exempted by the Air Resources Board may not be used. The use of any non-exempted add-on or modified parts will be grounds for disallowing a warranty claim. A-iPower will not be liable to warrant failures of warranted parts caused by the use of a non-exempted add-on or modified part.
(11) A-iPower issuing the warranty shall provide any documents that describe that manufacturer's warranty procedures or policies within five working days of request by the Air Resources Board.

(d) Emission Warranty Parts List for exhaust (for all displacements).
(1) Fuel Metering System
(i) Carburetor and internal parts (and/or pressure regulator or fuel injection system).
(ii) Air/fuel ratio feedback and control system.
(iii) Cold start enrichment system.
(2) Air Induction System
(i) Controlled hot air intake system.
(ii) Intake manifold.
(iii) Air filter.
(3) Igniti on System
(i) Spark Plugs.
(ii) Magneto or electronic ignition system.
(iii) Spark advance/retard system.
(4) Exhaust Gas Recirculation (EGR) System
(i) EGR valve body, and carburetor spacer if applicable.
(ii) EGR rate feedback and control
(5) Air Injection System
(i) Air pump or pulse valve.
(ii) Valves affecting distribution of flow.
(iii) Distribution manifold.
(6) Catalyst or Thermal Reactor System
(i) Catalytic converter.
(ii) Thermal reactor.
(iii) Exhaust manifold.
(7) Particulate Controls
(i) Traps, filters, precipitators, and any other device used to capture particulate emissions.
(8) Miscellaneous Items Used in Above Systems
(i) Electronic controls.
(ii) Vacuum, temperature, and time sensitive valves and switches.
(e) Emission Warranty Parts List for Evap less than or equal to 80cc.
(i) Fuel Tank.

(f) Emission Warranty Parts List for Evap greater than 80cc.
(1) Fuel Metering System
(i) Fuel Tank.
(2) Miscellaneous Items Used in Above Systems
(i) Fuel caps, valves, canisters, filters, vapor, hoses, clamps, connectors, belts, and and assemblies.

A-iPower will furnish with each new engine/equipment written instructions for the maintenance and use of the engine/equipment by the owner.
A-iPower's only liability shall be the repair or replacement of part(s) as stated above in no event shall A-iPower be liable for any incidental or consequential damages.

WARRANTY

A-iPower Limited Warranty Policy

Thank You For Choosing A-iPower High Pressure Washer!

Our Warranty
A-iPower will, at its position, free of charge, repair or replace any part(s) which, upon examination, inspection and testing by A-iPower or an A-iPower authorized warranty service dealer that is defective in material or workmanship or both. Transportation charges on product submitted for repair or replacement under this warranty must be borne by purchaser. Retain your proof-of-purchase receipt. If you do not provide proof of the initial purchase date, the manufacturer's shipping date of the product will be used to determine the warranty period starting.
Customer is responsible for taking the unit to & from the "pre-approved" warranty center if there is an issue with the unit that needs mechanical work..

Warranty Term
Any new A-iPower high pressure washer purchased for non-commercial use from an authorized A-iPower high pressure washer dealer in the continental North America will be warranted against defects in material or workmanship for a period of one years, from date of purchase, subject to exclusions noted herein. The warranty period begins on the date of purchase by the first retail end-user, and continues for the period of warranty time. A-iPower customer service will keep on supplying spare parts per request after warranty period with cost charge. "Comsumer Use" means residential household using by a retail consumer. "Commercial Use" means all other uses, including used for commercial, industrial or business or rental purposes. Once equipment has experienced commercial use, it shall thereafter be considered as commercial use for purposes of this warranty.

Warranty Exclusions
Most warranty repairs are handled routinely, but sometimes requests for warranty service may not be appropriate. This warranty will not cover the following:
REGULAR WEARING: Outdoor Power Equipment, as with all mechanical devices, need periodic parts(s) service and replacement to perform as designed. This warranty will not cover repair when normal use has exhausted the lifetime of any part.
INSTALLTION AND MAINTENANCE: This warranty does not cover the high pressure washer or its parts what have been subjected to improper or unauthorized accident, over-speeding, improper maintenance, repair or storage so as, in our judgment, to adversely affect its performance and reliability. This warranty also does not cover regular maintenance and parts such as air filters, adjustments, fuel system cleaning and obstruction (due to chemical, dirt, carbon lime, and so forth).
OTHER: This warranty excludes wearing parts such as o-rings, pressure hose, etc. or malfunction resulting from accidents, abuse, modifications, alterations, or improper servicing or freezing or chemical deterioration; damaged related to rodent and/or insect infestation. This warranty excludes used, reconditioned and demonstration equipment, equipment used for prime power in place of utility power, equipment used in life support applications, and failures due to acts of God and other force majeure events beyond the manufacturers control, such as collision, theft, vandalism, riot or wars, nuclear holocaust, fire, freezing, lightning, earth-quake, windstorm, hail, volcanic eruption, water or flood, tornado or hurricane.

How To Obtain Warranty Service
Please call our customer service number 1-855-888-3598, or email to support@a-ipower.com to contact our support team at first in case of a service needed. Please prepare and provide the model number, serial number and the proof of purchase while contacting us or mail a request to:
A-iPower Corp.
1477 E. Cedar St. STE B, Ontario, CA 91761, U.S.A.

WARRANTIES

WARRANTY

A-IPOWER LIMITED
WARRANTY-2 YEARS RESIDENTIAL AND 1 YEAR COMMERCIAL

Thank you for choosing A-iPower products. To ensure proper registration of your product warranty, please submit your warranty registration along with proof of purchase within 10 days of the date of purchase, this can be done by

a)Completing the Warranty Registration form at the back of this manual and mailing to:

A-IPOWER CORP
10887 Commerce Way
Unit A Fontana CA 92337

b)Visit us at www.a-ipower.com and click the product registration icon

WARRANTY TERM

A-iPower will provide warranty for any of its products purchased through any authorized A-iPower dealer in North America to the original purchaser and will be warranted against defects in material or workmanship for a period of two (2) years for Consumer use from date of purchase, subject to exclusions noted herein. Commercial and Rental applications are warranted for a period of one (1) year from date of purchase.

“Consumer Use” – residential household use by a retail consumer

“Commercial Use” – all other use – commercial , business, industrial, or rental purpose

HOW TO OBTAIN WARRANTY SERVICE

Please call our Customer Service Dept. 855-888-3598 or e-mail to support@a-ipower.com Please have necessary information available – Model Number, Serial Number, Proof of Purchase DO NOT RETURN THE PRODUCT TO THE PLACE OF PURCHASE

A-iPower Customer Service Dept will assist with all product related questions and will help troubleshoot issues and will send any replacement parts as necessary while product is within the warranty period at no charge. If the issue cannot be resolved then A-iPower Customer Service Dept at its discretion determine and authorize diagnosis and repair through one of its authorized Service Centers. A-iPower Corp at its discretion may choose to provide replace of part, component, or product. Service or replacement of parts at any unauthorized repair facility without prior authorization will not be covered by this warranty.

WARRANTY EXCLUSIONS

This warranty does not cover the following

Regular wear and maintenance – this warranty will not cover repair when normal use has exhausted the lifetime of a part(s) or engine

Installation and Maintenance - this warranty does not cover improper or unauthorized assembly, alteration, modification or any other damage resulting from misuse or neglect.

Normal maintenance parts - this warranty does not cover spark plugs, air filters, adjustments, or other related service due to obstructions and other build ups resulting from improper maintenance

Additional exclusions – this warranty does not cover wearable parts such as filers , spark plugs , o-rings, batteries etc. It does not cover any cosmetic defects such as scratches to paint, decals etc. It does not cover any damage resulting from use of non-original manufacturer’s parts, use of aftermarket parts. It does not cover any failures due to acts of God and other force majeure events beyond the control of the manufacturer.

WARRANTY LIMITS AND IMPLICATIONS AND CONSEQUENTIAL DAMAGES

A-iPower is not obligated to cover any loss of time, use of product, freight cost, or any other incidental or consequential claim from the use of this product. This warranty is in Lieu of all other warranties, express or implied

This warranty gives you specific legal rights which vary from state to state.

A-iPOWER WARRANTY REGISTRATION FORM

Register your product by mailing this form to support@a-ipower.com or register online at www.a-ipower.com.

Registering your product is important , it provides protection

1) You have record of product purchased

2) Customer Service can Better serve you for Warranty related issues

3) We can contact you in the unlikely event should notification is necessary

4) Always keep copy of your original receipt

Primary Information	Pressure Washer Information
Name: _____	Serial #
Phone: _____	Model #
E-mail: _____	The serial No. can be fouded on the engine. PLEASE NOTE: Your product cannot be registered without model & serial numbers.
Address: _____	
City, State: _____	
Zip code: _____	
Purchase Date: _____	

1. THE PRODUCT WAS PURCHASED FOR:
   A. ❑ Residential cleaning B. ❑ Other_____

2. THIS PRODUCT IS A: (select one)
   A. ❑ First Time Purchase B. ❑ Replacement

3. HOW DID YOU FIRST LEARN OF THIS PRODUCT: (select one)
   A. ❑ Magazine Ad
   B. ❑ Newspaper
   C. ❑ Radio
   D. ❑ TV
   E. ❑ Store Display
   F. ❑ Contractor
   G. ❑ Trade Show
   H. ❑ Direct Mail
   I. ❑ From Friend/Relative/Neighbor
   J. ❑ Catalog
   K. ❑ Internet
   L. ❑ Other_____

4. PLEASE RATE YOUR SATISFACTION LEVEL WITH THE FOLLOWING:

	Completely Satisfied 5	4	3	2	Not at all Satisfied 1
Product Value for Price Paid	❑	❑	❑	❑	❑
Performance	❑	❑	❑	❑	❑
Features	❑	❑	❑	❑	❑
Product Appearance	❑	❑	❑	❑	❑
Warranty	❑	❑	❑	❑	❑
Ease of Maintenance	❑	❑	❑	❑	❑
Noise Level	❑	❑	❑	❑	❑

5. HOWLIKELY ARE YOU TO RECOMMEND A-iPOWER TO FAMILY OR FRIENDS?

Extremely Likely 5	4	3	2	Not likely at all 1
❑	❑	❑	❑	❑

Privacy Statement: A-ipower is committed to respecting your privacy and to complying with the regulations regarding the protection of personal data. The survey data we collect is for the purposes of marketing or product support and demographic information about the entire audience registering their products.

10887 Commerce Way
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support@a-ipower.com
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