

Operator Manual

Onan P4500i Inverter





WARNING

Operating, servicing and maintaining this equipment can expose you to chemicals including engine exhaust, carbon monoxide, phthalates, and lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. To minimize exposure, avoid breathing exhaust, do not idle the engine except as necessary, service your equipment in a well-ventilated area and wear gloves or wash your hands frequently when servicing your equipment. For more information go to www.P65Warnings.ca.gov.

DISCLAIMERS:

All information, illustrations and specifications in this manual are based on the latest information available at the time of publishing. The illustrations used in this manual are intended as representative reference views only. Moreover, because of our continuous product improvement policy, we may modify information, illustrations and/or specifications to explain and/or exemplify a product, service or maintenance improvement. We reserve the right to make any change at any time without notice. Some images may vary depending upon which model is shown.

ALL RIGHTS RESERVED:

No part of this publication may be reproduced or used in any form by any means – graphic, electronic or mechanical, including photocopying, recording, taping or information storage and retrieval systems – without the written permission of Cummins Inc.



A DANGER

This manual contains important instructions for operating this inverter. For your safety and the safety of others, be sure to read this manual thoroughly before operating the inverter. Failure to properly follow all instructions and precautions can cause you and others to be seriously hurt or killed.

TABLE OF CONTENTS
TECHNICAL SPECIFICATIONS
PRODUCT REGISTRATION
For Your Records:
Product Registration
Product Registration Form
SAFETY
Safety Definitions
Safety Symbol Definitions
General Safety Rules
•
UNPACKING
ASSEMBLY
Hooking Up the Battery
FEATURES
Basic Inverter Features8
Control Panel Features
OPERATION
Before Starting the Inverter
Location Selection
Weather
Grounding the Inverter
High Altitude Operation
Power Cord
Transporting the Inverter
Initial Oil Fill
Adding/Checking Engine Fluids and Fuel 13
Checking and/or Adding Engine Oil
Adding Gasoline to the Fuel Tank

Starting the Inverter. .14 Electric Start .15 Manual Start. .15 Wireless Remote Start .15
How to manually set the choke
Stopping the Inverter
Resetting the Reset Breaker
Programming Remote Start Fob
MAINTENANCE
Maintenance Schedule
Engine Oil Maintenance
Checking Engine Oil
Adding Engine Oil
Changing Engine Oil19
Air Filter Maintenance
Cleaning the Air Filter
Draining the Float Bowl
Spark Plug Maintenance
Cleaning the Spark Arrestor
Checking and Adjusting Valve Lash
Cleaning the Inverter
Battery Service
Storage
TROUBLESHOOTING
EXPLODED AND ENGINE VIEWS
P4500i Schematic
P4500i Engine View

TECHNICAL SPECIFICATIONS

Model	Running Watts	Peak Watts		Rated Speed (RPM)	lgnition Type	Spark plug	Engine Disp (cc)	Stroke X Bore	Oil Cap. (L)	Oil Type	THD
P4500i	3700	4500	3.4/13	3600	TCI	F7RTC	224	70X58	0.60	10W30	<3%

FOR YOUR RECORDS:

Date of Purchase:	
Inverter Model Number:	
Purchased from Store/Dealer:	
Inverter Serial Number:	

IMPORTANT: KEEP YOUR PURCHASE RECEIPT TO ENSURE TROUBLE-FREE WARRANTY COVERAGE.

PRODUCT REGISTRATION

To ensure trouble-free warranty coverage, it is im register your Cummins inverter.	portant you	
You can register your inverter by either:		5
1. Filling in the product registration form below	and mailing to:	A CONTRACTOR OF A
Product Registration	5	
Cummins Inc		and the second distance of the second distanc
301 E. Market St.		40.000
Indianapolis, IN 46204		
		\mathbf{Q} -
 Registering your product Online at www.cum To register your inverter you will need to locat Model Info Decal located on side panel. Serial Number on back. 		SERIAL NUMBER LOCATION
PRODUCT REGISTRATION FORM PERSONAL INFORMATION	INVERTER INFORMATION	
First Name:	Model Number:	

Last Name:	Serial Number:
Street Address:	Date Purchased:
Street Address:	Purchased From:
City, State, ZIP:	Phone Number:
Country:	_E-Mail:

1000

_

SAFETY DEFINITIONS

The words DANGER, WARNING, CAUTION and NOTICE are used throughout this manual to highlight important information. Be certain that the meanings of these alerts are known to all who work on or near the equipment.



This safety alert symbol appears with most safety statements. It means attention, become alert, your safety is involved! Please read and abide by the message that follows the safety alerts symbol.

DANGER

Indicates a hazardous situation which, if not avoided, *will* result in death or serious injury.

Indicates a hazardous situation which, if not avoided, *could* result in death or serious injury.

ACAUTION

Indicates a hazardous situation which, if not avoided, *could* result in minor or moderate injury.

NOTICE

Indicates a situation which can cause damage to the inverter, personal property and/or the environment, or cause the equipment to operate improperly.

NOTE: Indicates a procedure, practice or condition that should be followed in order for the inverter to function in the manner intended.

SAFETY SYMBOL DEFINITIONS



GENERAL SAFETY RULES



Never use the inverter in a location that is wet or damp. Never expose the inverter to rain, snow, water spray or standing water while in use. Protect the inverter from all hazardous weather conditions. Moisture or ice can cause a short circuit or other malfunction in the electrical circuit.



Never operate the inverter in an enclosed area. Engine exhaust contains carbon monoxide. Only operate the inverter outside and away from windows, doors and vents.

Voltage produced by the inverter could result in death or serious injury.

- Never operate the inverter in rain or a flood plain unless proper precautions are taken to avoid being subject to rain or a flood.
- Never use worn or damaged extension cords.
- Always have a licensed electrician connect the inverter to the utility circuit.
- Never touch an operating inverter if the inverter is wet or if you have wet hands.
- Never operate the inverter in highly conductive areas such as around metal decking or steel works.
- Always use grounded extension cords. Always use three-wire or double-insulated power tools.
- · Never touch live terminals or bare wires while the inverter is operating.
- Be sure the inverter is properly grounded before operating.

Gasoline and gasoline vapors are extremely flammable and explosive under certain conditions.

- · Always refuel the inverter outdoors, in a well-ventilated area.
- · Never remove the fuel cap with the engine running.
- Never refuel the inverter while the engine is running. Always turn engine off and allow the inverter to cool before refueling.



- Only fill fuel tank with gasoline.
- Keep sparks, open flames or other form of ignition (such as match, cigarette, static electric source) away when refueling.
- Never overfill the fuel tank. Leave room for fuel to expand. Overfilling the fuel tank can result in a sudden overflow of gasoline and result in spilled gasoline coming in contact with HOT surfaces. Spilled fuel can ignite. If fuel is spilled on the inverter, wipe up any spills immediately. Dispose of rag properly. Allow area of spilled fuel to dry before operating the inverter.
- Wear eye protection while refueling.
- Never use gasoline as a cleaning agent.
- Store any containers containing gasoline in a well-ventilated area, away from any combustibles or source of ignition.
- Check for fuel leaks after refueling. Never operate the engine if a fuel leak is discovered.

A WARNING

A

Never operate the inverter if powered items overheat, electrical output drops, there is sparking, flames or smoke coming from the inverter, or if the receptacles are damaged.



Never use the inverter to power medical support equipment.

Always remove any tools or other service equipment used during maintenance from the inverter before operating.

NOTICE

Never modify the inverter.

Never operate the inverter if it vibrates at high levels, if engine speed changes greatly or if the engine misfires often.

Always disconnect tools or appliances from the inverter before starting.

SAFETY LABELS AND DECALS



UNPACKING

ACAUTION

Always have assistance when lifting the inverter. The inverter is heavy; lifting it could cause bodily harm.



Avoid cutting on or near staples to prevent personal injury.

Tools required - box cutter or similar device.

- 1. Carefully cut the packing tape on top of the carton.
- 2. Fold back top flaps to reveal the upper packing tray.
- 3. Remove and save the instruction manual, oil bottle, oil funnel, LPG hose, spark plug socket wrench & battery charger.
- 4. Remove and discard the upper packing tray.
- 5. Unfold the top of the plastic bag enclosing the inverter.
- 6. Carefully cut the vertical corners of the carton to access the inverter.
- 7. Recycle or dispose of the packaging materials properly.

WHAT COMES IN THE BOX

Inverter Battery Manual Quick Start Guide/Maintenance Schedule Wireless Remote Starter (1) .6 Liter Bottle of SAE 10W30 Oil (1) 11W Battery Charger, (14V .8A output) (1) Spark Plug Socket Wrench (1) Oil Funnel (1)

HOOKING UP THE BATTERY

NOTE: THE INVERTER COMES EQUIPPED WITH THE POSITIVE BATTERY CABLE (RED BOOT) ALREADY ATTACHED.

1. Unclip the battery access panel on the back of the unit next to the muffler (see Figure 1).

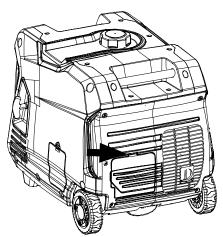
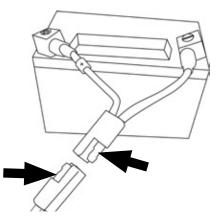


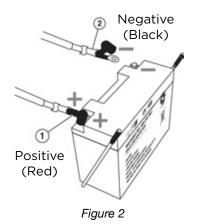
Figure 1: Battery service panel

- 2. Pull down on the battery strap clip and unhook it from the mounting base.
- 3. Lift the battery up, withdraw it bottom-first through the battery access port and then stand it up vertically in its normal orientation.



ASSEMBLY

- 4. Clip the battery quick connect from the battery leads to the main lead inside the inverter (see image above).
- Verify the positive (+) battery cable (red boot) is securely tightened to the positive (+) battery post. Make sure boot is over battery post.

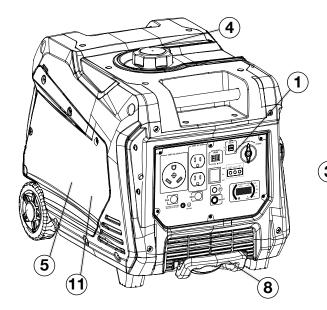


6. Insert the battery top-first through the battery access port and stand it up on its mounting base.

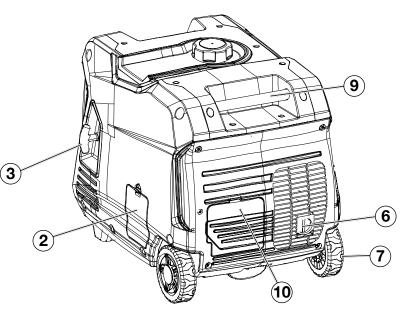
- 7. Check that the battery is positioned correctly and that the battery cables are not kinked or pinched.
- 8. Pass the battery strap under the negative (-) battery cable and centrally over the top of the battery. Then pull down on the battery strap clip and hook it onto the mounting base.
- 9. Replace the battery access cover.

NOTE: The electric start inverter is equipped with a battery charging feature. Once the engine is running, a small charge is supplied to the battery via the battery cables and will slowly recharge the battery.

BASIC INVERTER FEATURES



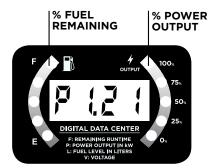
- (1) **Control Panel:** Contains the reset breaker, outlets and warning lights.
- (2) Oil Access Cover: Remove the cover to access the oil plug/dipstick.
- (3) **Recoil Handle:** Pull to manually start the engine.
- 4 **Fuel Cap:** Close until clicking sound is heard.
- (5) Engine Service Panel: Remove the panel to access the engine, choke, air filter, spark plug and float bowl for maintenance.
- (6) Muffler and Spark Arrestor: Avoid contact until the engine is cooled down. The spark arrestor prevents sparks from exiting the muffler. It must be removed for servicing.



- (7) Roller Board Wheels: For easy portability.
- (8) **Telescoping Handle:** Extends and retracts for easy access.
- (9) Carry Handles: Built in handles to allow for easy pick up.
- (10) Battery Access Panel: Easy access to battery.
- (1) Automatic Choke: Unit will automatically set choke for cold starting.

CONTROL PANEL FEATURES

- (1) 120-Volt, 20-Amp Duplex Outlet (NEMA 5-20R): The outlet is capable of carrying a maximum of 20 amps.
- (2) 120-Volt 30 Amp TT-30 Outlet: Travel Trailer outlet can supply a maximum of 30 amps and 120 volts.
- (3) 20-Amp Circuit Breaker: Circuit breaker limits the current that can be delivered through the 120-volt duplex outlets to 20amps.
- (4) **30-Amp Circuit Breaker:** Circuit breaker limits the current that can be delivered through the 120-volt TT-30R to 30amps.
- (5) USB Duplex: 5V DC USB outlets that come with 1 and 2.1 amp rating.
- (6) Reset Breaker: If the inverter is overloaded, the reset breaker will trip. The engine will continue to run, but there will be no output from the inverter. Unplug the devices and reduce the load. Push in the reset breaker to reset it.
- (7) Efficiency Mode Switch: When turned to the ON position, the engine will sense the load needed and run at a slower RPM to save fuel.
- (8) Ground Terminal: The ground terminal is used to externally ground the inverter.
- (9) LED Data Center: Displays remaining run time (F), power output in kW (P), fuel level in liters (L), voltage (V) and lifetime hours.



AUTOMATIC ROTATING DATA NUMBER DISPLAY



Remaining Run Time:

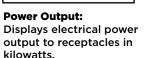
Displays time remaining

power output. Does not

display lifetime hours.

with current fuel level and







Displays current fuel

level in liters.

Voltage:



Displays current voltage



Lifetime Hours: Displays the total run time of the inverter.

	ectric start H	START INDICATOR INDICATOR INDICATOR INDICATOR INDICATOR	FUEL ON
(4) 30A 120V AC 30A TT-30R (2)			12 5 ssee
		F Converting of the second sec	100-21A

- (10) Output Ready LED: Indicates the inverter is ready to be used.
- (11) Overload LED: Indicates that the inverter is overloaded.
- (12) Low Oil LED: Indicates low oil level.
- (13) Battery Charging Port: Used to charge battery when unit is off.
- (14) Fuel Control Switch: Allows fuel to flow to the engine.
- (15) Start Indicator: Indicates that power is on, light will remain lit the whole time the unit is on.
- (16) Push-Button Automated Start: Press and hold for 1-2 seconds to automatically start the engine. Press and hold again for 1-2 seconds to stop the engine.
- (17) Engine Control Switch: Turns on battery and energizes ignition system for electric and remote start. Shuts engine off.
- (18) Parallel Ports: Used with Cummins 50A parallel kit (sold separate). Combine with additional Cummins P2500i inverter (sold separate) to achieve 50A output. Ideal for RV applications.

Copyright © 2019 Cummins Inc.

output of inverter.

BEFORE STARTING THE INVERTER



BEFORE STARTING THE INVERTER, REVIEW SAFETY SECTION STARTING ON PAGE 4.

Location Selection – Before starting the inverter, avoid exhaust and location hazards by verifying:

- You have selected a location to operate the inverter that is outdoors and well ventilated.
- You have selected a location with a level and solid surface on which to place the inverter.
- You have selected a location that is at least 15 feet (4.5 m) away from any building, other equipment or combustible material.
- If the inverter is located close to a building, make sure it is not located near any windows, doors and/ or vents.





Always operate the inverter on a level surface. Placing the inverter on non level surfaces can cause the inverter to tip over, causing fuel and oil to spill. Spilled fuel can ignite if it comes in contact with an ignition source such as a very hot surface.

NOTICE

Only operate the inverter on a solid, level surface. Operating the inverter on a surface with loose material such as sand or grass clippings can cause debris to be ingested by the inverter that could:

- Block cooling vents
- Block air intake system

Weather – Never operate your inverter outdoors during rain, snow or any combination of weather conditions that could lead to moisture collecting on, in or around the inverter.

Dry Surface – Always operate the inverter on a dry surface free of any moisture.

No Connected Loads – Make sure the inverter has no connected loads before starting it. To ensure there are no connected loads, unplug any electrical extension cords that are plugged into the control panel receptacles.

NOTICE

Starting the inverter with loads already applied to it could result in damage to any appliance being powered off the inverter during the brief start-up period.

Grounding the Inverter

Consult with your local municipalities for your grounding codes.

THE Inverter (STATOR WINDING) IS ISOLATED FROM THE FRAME AND FROM THE AC RECEPTACLE GROUND PIN

ELECTRICAL DEVICES THAT REQUIRE A GROUNDED RECEPTACLE PIN CONNECTION WILL NOT FUNCTION IF THE RECEPTACLE GROUND PIN IS NOT FUNCTIONAL



Be sure the inverter is properly connected to earth ground before operating.

High Altitude Operation

Engine power is reduced the higher you operate above sea level. Output will be reduced approximately 3.5% for every 1000ft of increased altitude from sea level. This is a natural occurrence and cannot be adjusted by engine. Increased exhaust emissions can also result due to increased fuel mixture. Other issues include hard starting, increased fuel consumption and spark plug fouling.

WARNING



Do not rest inverter on exhaust panel. Do not move Inverter while it is on. The inverter will be damaged if operated in this manner.

NOTICE

Even with a carburetor modification, engine horsepower will decrease about 3.5% for each 300 meter (1,000 foot) increase in altitude. The effect of altitude on horsepower will be greater if no carburetor modification is made. A decrease in engine horsepower will decrease the power output of the inverter. Contact our service team to order altitude kits.

POWER CORD

Using Extension Cords

Cummins Inc. assumes no responsibility for the content within this table. The use of this table is the responsibility of the user only. This table is intended for reference only. The results produced by using this table are not guaranteed to be correct or applicable in all situations as the type and construction of cords are highly variable. Always check with local regulations and a licensed electrician prior to installing or connecting an electrical appliance

	LENGTH OF EXTENSION CORD (π)								
AMPS	10	20	30	40	50	60	80	100	120
5	20	18	16	14	12	12	10	10	8
10	18	16	14	12	12	10	10	8	8
15	16	14	12	12	10	10	8	8	6
20	14	12	12	10	10	8	8	6	6
25	12	12	10	10	8	8	6	6	6
30	12	10	10	8	8	6	6	6	6
35	10	10	8	8	6	6	6	6	6

Extension Cord Wire Gauge Size

LENGTH OF EXTENSION CORD (ft)

TRANSPORTING THE INVERTER

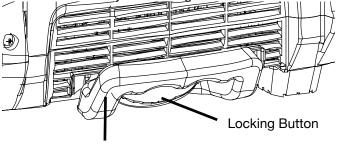
The inverter should be stopped and the fuel control switch should be turned to the OFF position before transporting the inverter. Keep the unit level during transport to minimize the possibility of fuel leakage or, if possible, drain out the fuel prior to transport.

If the inverter has been operating, allow the unit to cool down before loading it onto the transport vehicle.

The P4500i's wheels are only intended for ease of moving the inverter around by hand. The wheels are not suitable for towing the inverter either on or off-road.

Use only the inverter's fixed handle(s) for lifting the unit or attaching any load restraints such as ropes or tie-down straps. Do not attempt to lift or secure the inverter by holding onto any of its other components.

The P4500i is also equipped with an extendable handle. To deploy it, push on the locking button and pull on the handle until it's fully extended. To stow it, push on the locking button and push on the handle until it's fully retracted. Only extend or retract the handle while the inverter is stationary and resting on a horizontal surface.



Handle Grip

The extendable handle is intended for ease of wheeling the inverter around by hand. Do not use the extendable handle to lift the inverter entirely off the ground, tow it or up-end it.



POWER OUTPUT AND DEMAND

120-Volt AC devices have two different electric power demands that must be taken into consideration, namely the running power and the starting/peak power. Both are measured in Watts (typically abbreviated as "W").

The steady state continuous load is the running power demand and this is often marked on the device near its model number or serial number. Sometimes the device might only be marked with its voltage (i.e. 120 V) and current draw (e.g. 6 Amp or 6 A), in which case the running power demand in Watts can be obtained by multiplying the voltage times the current, e.g. 120 V \times 20 A = 2,400 W.

Simple resistive 120-Volt AC devices such as incandescent bulbs, toasters, heaters, etc. have no extra power demand when starting, and so their starting power demands are the same as their running power demands.

More complex 120-Volt AC devices containing inductive or capacitive elements such as electric motors have a momentary extra power demand when starting, which can be up to seven times the running power demand or more. Manufacturers of such devices rarely publish this starting power demand and so it's often necessary to estimate it. A rule of thumb for devices fitted with an electric motor is to apply a starting power multiplier of 1.2 for small hand-held or portable devices and a value of 3.5 for larger stationary devices. For example, a 900 W angle grinder can be assumed to have a starting power demand of at least 1.2 × 900 W, which equals 1,080 W. Similarly, a 1,650 W air compressor can be assumed to have a starting power demand of at least 3.5 × 1.650 W, which equals 5.775 W. To prevent overloading of the inverter's 120-Volt AC system:

- 1. Add up the running power demand of all the 120-Volt AC devices that will be connected to the inverter at one time. This total must not be greater than the inverter's specified running power output.
- 2. Add up the running power demand again, but for the largest motor-driven device use the value of its starting power demand instead of its running power demand. This total must not be greater than the inverter's specified starting power output.
- 3. The total running power demand of all the devices that will be connected to any one of the inverter's outlets must not exceed the inverter's specified running power output.

INITIAL OIL FILL



BEFORE ADDING ENGINE OIL, REVIEW SAFETY SECTION STARTING ON PAGE 4.

NOTICE

Engine oil must be added when the inverter is on a flat, level surface, or an inaccurate reading may result. Do not overfill. If the engine is overfilled with oil, it can cause serious engine damage.

1. Unclip and remove the oil service panel to access the oil plug/dipstick (see Figure 3).

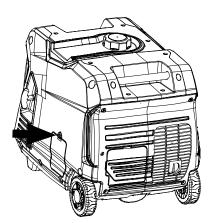


Figure 3: Oil Service Panel

- 2. Clean area around oil plug/dipstick and remove plug.
- 3. Using the supplied funnel, slowly add engine oil to the engine. Stop frequently to check the level to avoid overfilling.

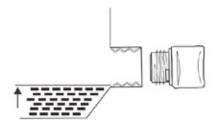


Figure 4: Engine Oil Correct Level

4. Do not overfill, if oil level is too high, oil will drain out through the fill plug.

NOTICE

Each inverter is tested at the factory for quality assurance. There may be some residual oil remaining in the reservoir from testing so be careful to not overfill.

ADDING/CHECKING ENGINE FLUIDS AND FUEL



BEFORE ADDING/CHECKING ENGINE FLUIDS AND FUEL, REVIEW SAFETY SECTION STARTING ON PAGE 4.



Filling the fuel tank with gasoline while the inverter is running can cause gasoline to leak and come in contact with hot surfaces that can ignite the gasoline.

Before starting the inverter, always check the level of:

- Engine oil
- Gasoline in the fuel tank

Once the inverter is started and the engine gets warm, it is not safe to add gasoline to the fuel tank or engine oil to the engine while the engine is running or the engine and muffler are hot.

CHECKING AND / OR ADDING ENGINE OIL

WARNING



Internal pressure can build in the engine crankcase while the engine is running. Removing the oil fill plug/ dipstick while the engine is hot can cause extremely hot oil to spray out of the crankcase and can severely burn skin. Allow engine oil to cool for several minutes before removing the oil fill plug/dipstick.

The unit as shipped does not contain oil in the engine. You must add engine oil before starting the inverter for the first time. See *Initial Oil Fill* for instructions on checking engine oil level and the procedure for adding engine oil.

NOTICE

The engine does not contain engine oil as shipped. Attempting to start the engine without adding engine oil will permanently damage internal engine components.

The engine is equipped with a low oil shutdown switch. If the oil level becomes low, the engine may shut down and not start until the oil is filled to the proper level.

The owner of the inverter is responsible to ensure the proper oil level is maintained during the operation of the inverter. Failure to maintain the proper oil level can result in engine damage.

OPERATION

ADDING GASOLINE TO THE FUEL TANK

WARNING



Never refuel the inverter while the engine is running.



Always turn the engine off and allow the inverter to cool before refueling.



Avoid prolonged skin contact with gasoline. Avoid prolonged breathing of gasoline vapors.

Required Gasoline – Only use gasoline that meets the following requirements:

- · Unleaded gasoline only
- · Gasoline with maximum 10% ethanol added
- · Gasoline with an 87 octane rating or higher

Filling the Fuel Tank – Follow the steps below to fill the fuel tank:

- 1. Shut off the inverter.
- 2. Allow the inverter to cool down so all surface areas of the muffler and engine are cool to the touch.
- 3. Move the inverter to a flat surface.
- 4. Clean area around the fuel cap.
- 5. Remove the fuel cap by rotating counterclockwise.

NOTICE

Do not overfill the fuel tank. Spilled fuel will damage some plastic parts.

- 6. Slowly add gasoline into the fuel tank. Be very careful not to overfill the tank. The gasoline level should NOT be higher than the red ring (see Figure 5).
- 7. Install the fuel cap by rotating clockwise.



Figure 5: Maximum Gasoline Fill Level

STARTING THE INVERTER



BEFORE STARTING THE INVERTER, REVIEW SAFETY SECTION STARTING ON PAGE 4.

For proper starting and operation of the inverter, make sure you review the inverter features and their descriptions starting on page 7.

Before attempting to start the inverter, verify the following:

- The engine is filled with engine oil (see Figure 4: *Engine Oil Correct Level* on page 11).
- The inverter is situated in a proper location (see *Location* Selection on page 9).
- The inverter is on a dry surface (see *Weather and Dry Surface* on page 9).
- All loads are disconnected from the inverter (see *No Connected Loads* on page 9).
- The inverter is properly grounded (see *Grounding the Inverter* on page 9)



Never use the inverter in a location that is wet or damp. Never expose the inverter to rain, snow, water spray or standing water while in use. Protect the inverter from all hazardous weather conditions. Moisture or ice can cause a short circuit or other malfunction in the electrical circuit.



Never operate the inverter in an enclosed area. Engine exhaust contains carbon monoxide. Only operate the inverter outside and away from windows, doors and vents.

ELECTRIC START

Be sure to check oil levels before starting. If it is the first time starting make sure to add oil (see *Initial Oil Fill* on page 13).

- 1. Make sure nothing is plugged into any of the outlets.
- 2. Make sure battery is connected (see *Hooking Up the Battery* on page 7).
- 3. Make sure the circuit breakers are properly set (see Figure 6).

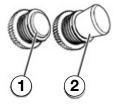


Figure 6: Breakers (1) 120V Circuit Breaker Operating Position (2) 120V Circuit Breaker Tripped Position

4. Turn the Fuel Control Switch to the **ON** position (see Figure 7).

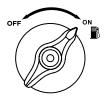


Figure 7: Turn Fuel Switch to ON Position

- 5. Turn the Engine Control Switch **ON**.
- 6. Push and hold the engine start push button for 1 second and release (see Figure 8). The engine will automatically set the choke and begin the start sequence.

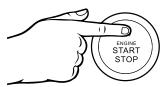


Figure 8: Electric Start Button - PUSH

Note: If the engine fails to start after 5 seconds, release the button. Let the inverter sit idle for 15 seconds and then repeat step 6. If the cranking speed drops after each unsuccessful attempt, then the battery may not be adequately charged.

7. Once engine stabilizes. Plug in electronic devices.

MANUAL START

Be sure to check oil levels before starting. If it is the first time starting make sure to add oil (see *Initial Oil Fill* on page 13).

- 1. Make sure nothing is plugged into any of the outlets.
- 2. Make sure battery is connected (see *Hooking Up the Battery* on page 7).
- 3. Make sure the circuit breakers are properly set (see Figure 6).
- 4. Turn the Fuel Control Switch to the **ON** position (see Figure 7).
- 5. Turn the Engine Control Switch **ON**.
- 6. Firmly grasp and pull the recoil handle slowly until you feel increased resistance. At this point, apply a rapid pull while pulling out from the inverter (see Figure 9).

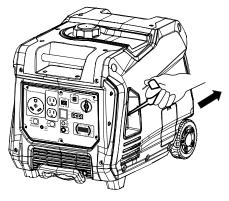


Figure 9: Pull the Recoil Handle out from Inverter

7. Once engine stabilizes. Plug in electronic devices.

A DANGER



To prevent unintentional starting with remote key fob the engine switch must be OFF if the generator is inside or is outside and not intended to be used for remote start.

WIRELESS REMOTE START

- 1. Check oil levels.
- 2. Confirm Engine Control Switch is **ON**.
- 4. Confirm that the Fuel Control Switch is in the **ON** position (see Figure 7).
- 5. Push and hold the **START** button on the wireless remote until the inverter starts.

Note: the generator will try 3 times to make a successful start.

MAINTENANCE

HOW TO MANUALLY SET THE CHOKE

If the battery is dead or disconnected and you need to manual start, you may need to set the choke by hand for proper operation.

- 1. Remove the engine maintenance panel (see Figure 13 on page 20)
- 2. Locate the small black choke lever on top of the carburetor.

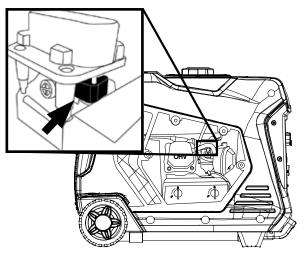


Figure 10: Locate choke lever

3. To close the choke for cold starting, push the black lever with a screwdriver to the closed position so it looks like the image below.

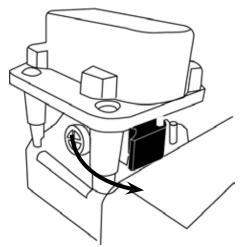


Figure 11: Choke closed

- 4. Follow the directions for manual starting on page 15.
- 5. Once the inverter starts the power from the machine will automatically open the choke. If the machine does not move the choke then push the choke manually to the open position below:

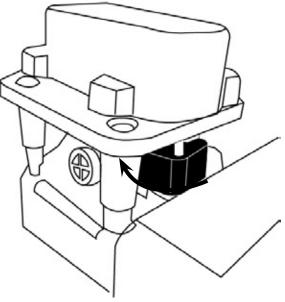


Figure 12: Choke open

NOTICE

Depending on the ambient temperature and environment you may need to close the choke half way for a successfully start.

STOPPING THE INVERTER

Normal Operation

During normal operation, use the following steps to stop your inverter:

- 1. Remove any connected loads from the control panel receptacles.
- 2. Allow the inverter to run at "no load" to reduce and stabilize engine and alternator temperatures.
- 3. Move the Fuel Control Switch to the **OFF** position (this may take several seconds as gas is purged from the carburetor), Hold down "**STOP**" on remote start key fob, or press and hold the push button start for 3-4 seconds (see Figure 13).

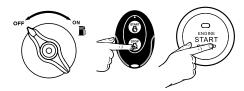


Figure 13: Stopping Inverter

During an Emergency

If there is an emergency and the inverter must be stopped quickly, press Engine Control Switch **OFF** immediately.

USING EFFICIENCY MODE

The inverter is equipped with an efficiency mode switch to minimize fuel consumption. In efficiency mode, the inverter will sense the load and adjust the engine RPM to the current load requirements. Efficiency mode should be used only after the inverter has been warmed up to operating temperature.

- 1. To turn on the efficiency mode, press the switch to the **ON** position.
- 2. If no load is present, the inverter RPM will drop down to an idle speed.
- 3. As a load is applied, the inverter will sense the load and engine RPM will increase according to the load applied.
- 4. To run the inverter at maximum power and RPM, press the efficiency mode switch to the **OFF** position.

RESETTING THE RESET BREAKER

The inverter will trip the breaker and automatically disconnect from the load when the controls sense a predetermined overload condition. The inverter engine will continue to run, but there will not be any electrical output.

- 1. Turn off all devices and unplug them from the inverter.
- 2. Determine the wattage required from the devices being powered by the inverter. Make sure the wattage required does not exceed the maximum output of the inverter.
- 3. Press in the reset breaker to reset it.
- 4. Plug the devices in to the inverter.
- 5. Turn on the devices as needed.

PROGRAMMING THE INVERTER FOR REMOTE START

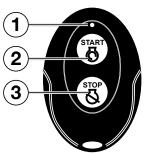
NOTICE

The key fob included with the inverter should come already paired with the unit. If it does not you can follow the directions below to reconnect. If your unit was shipped without a key fob please contact our customer support team.

The inverter can be started remotely from up to a maximum of 109 yards (100 M) away using the remote start key fob with new, fully charged batteries in the key fob. As the batteries' state of charge in the key fob reduces, the distance to start the inverter will also reduce.

If the key fob is replaced or needs to be reconnected, you will need to go through this procedure with the new fob.

- 1. Turn the Engine Control Switch to the **ON** position.
- 2. Press and hold the electric start button on the control panel of the inverter for 10s, then let go, and the start indicator light will flash green.
- 3. Press the start button on remote fob, and it will pair with inverter automatically. Then the start indicator light on the inverter will stop flashing.
- 4. Start the unit.



Remote Start Key Fob 1 - Pairing Indicator light 2 - Start Button | 3 - Stop Button

MAINTENANCE



BEFORE PERFORMING MAINTENANCE ON THE INVERTER, REVIEW THE SAFETY SECTION STARTING ON PAGE 4, AS WELL AS THE FOLLOWING SAFETY MESSAGES.

Avoid accidentally starting the inverter during maintenance by removing the spark plug boot from the spark plug. For electric start inverters, also disconnect the battery cables from the battery (disconnect the black negative (-) cable first) and place the cables away from the battery posts to avoid arcing.



Allow hot components to cool to the touch prior to performing any maintenance procedure.



Internal pressure can build in the engine crankcase while the engine is running. Removing the oil fill plug/ dipstick while the engine is hot can cause extremely hot oil to spray out of the crankcase and can severely burn skin. Allow engine oil to cool for several minutes before removing the oil fill plug/dipstick.



Always perform maintenance in a wellventilated area. Gasoline fuel and fuel vapors are extremely flammable and can ignite under certain conditions.

ACAUTION

Avoid skin contact with engine oil or gasoline. Prolonged skin contact with engine oil or gasoline can be harmful. Frequent and prolonged contact with engine oil may cause skin cancer. Take protective measures and wear protective clothing and equipment. Wash all exposed skin with soap and water.

A WARNING



Failure to perform periodic maintenance or not following maintenance procedures can cause the inverter to malfunction and could result in death or serious injury.

NOTICE

Periodic maintenance intervals vary depending on inverter operating conditions. Operating the inverter under severe conditions, such as sustained high- load, hightemperature, or unusually wet or dusty environments, will require more frequent periodic maintenance. The intervals listed in the maintenance schedule should be treated only as a general guideline.

Following the maintenance schedule is important to keep the inverter in good operating condition. The following is a summary of maintenance items by periodic maintenance intervals.

TABLE 1: MAINTENANCE SCHEDULE - OWNER PERFORMED

Maintenance Item	Before Every Use	After First 20 Hours or First Month of Use	After 50 Hours of Use or Every 6 Months	After 100 Hour of Use or Every 6 Months	After 300 Hours of Use or Every Year
Engine Oil	Check Level	Change	Change	-	-
Cooling Features	Check/Clean	-	-	-	-
Air Filter	Check	-	Clean*	-	Replace
Spark Plug	-	-	-	Check/Clean	Replace
Spark Arrestor	-	-	-	Check/Clean	-

*Service more frequently if operating in dry and dusty conditions

ENGINE OIL MAINTENANCE

Engine Oil Specification

- 1. Only use the engine oil specified in Figure 14.
- Only use 4-stroke/cycle engine oil. NEVER USE
 2-STROKE/CYCLE OIL. Synthetic oil is an acceptable substitute for conventional oil.

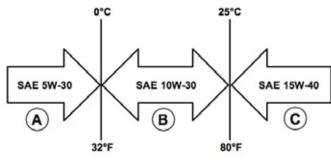


Figure 14: Recommended Oil

CHECKING ENGINE OIL

NOTICE

Always maintain proper engine oil level. Failure to maintain proper engine oil level could result in severe damage to the engine and/or shorten the life of the engine.

Always use the specified engine oil. Failure to use the specified engine oil can cause accelerated wear and/ or shorten the life of the engine.

Engine oil level should be checked before every use.

- 1. Always operate or maintain the inverter on a flat surface.
- 2. Stop engine if running.
- 3. Let engine sit and cool for several minutes (allow crankcase pressure to equalize).
- 4. Remove the oil service panel to access the oil plug/ dipstick (see Figure 3 on page 13).
- 5. With a damp rag, clean around the oil plug/dipstick.
- 6. Remove the oil plug/dipstick.
- 7. Check oil level: When checking the engine oil, remove the oil plug/dipstick (see Figure 4 on page 13).
 - The oil level is acceptable if oil is visible on the cross threads of the oil dip stick.
 - If oil level is low, add to the correct level using the supplied oil fill bottle. Do not overfill the oil crankcase.

NOTICE

Engine oil must always be checked and added when the inverter is on a flat, level surface, or an inaccurate reading may result, causing serious engine damage.

ADDING ENGINE OIL

- 1. Always operate or maintain the inverter on a flat surface.
- 2. Stop engine if running.
- 3. Let engine sit and cool for several minutes (allow crankcase pressure to equalize).
- 4. Remove the oil service panel to gain access to the oil plug/ dipstick.
- 5. Thoroughly clean around the oil plug/dipstick.
- 6. Remove the oil plug/dipstick.
- 7. Select the proper engine oil as specified in Figure 14.
- Using the supplied oil funnel, slowly add engine oil to the engine. Stop frequently to check the oil level and avoid overfilling.

CHANGING ENGINE OIL

- 1. Stop the engine.
- 2. Let engine sit and cool for several minutes (allow crankcase pressure to equalize).
- 3. Remove the oil service panel to gain access to the oil plug/ dipstick.
- 4. Place oil pan (or suitable container) under the rubber plug just below the oil service panel.
- 5. Remove the rubber plug so the oil can drain out the bottom of the inverter.
- 6. Using a 10mm wrench, remove the oil drain bolt (pictured below) to allow oil to drain.

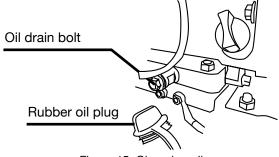


Figure 15: Changing oil

- 7. Allow oil to completely drain, dispose of used engine oil properly.
- 8. Fill crankcase with oil following the steps outlined in *Adding Engine Oil* above and tighten oil plug.
- 9. Use a rag and remove access oil at the bottom of the unit and replace the rubber oil cap as well as the oil drain bolt. Replace access panel.

NOTICE

Never dispose of used engine oil by dumping the oil into a sewer, on the ground, or into groundwater or waterways. Always be environmentally responsible. Follow the guidelines of the EPA or other governmental agencies for proper disposal of hazardous materials. Consult local authorities or reclamation facility.

A WARNING



Never use gasoline or other flammable solvents to clean the air filter. Use only household detergent soap to clean the air filter.

Cleaning the Air Filter

The air filter must be cleaned after every 50 hours of use or 3 months (frequency should be increased if inverter is operated in a dusty environment).

- 1. Turn off the inverter and let it cool for several minutes if running.
- 2. Remove the Engine Service Panel to gain access to the air filter (see Figure 13).

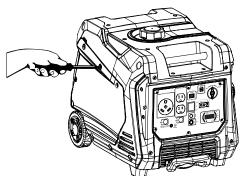


Figure 13: Remove Engine Service Panel

3. Turn the 2 knobs on the air cleaner to unlock the cover. Tip the cover down to access the foam element (see Figure 14).

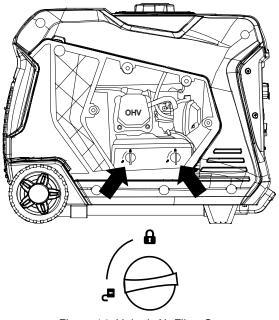


Figure 14: Unlock Air Filter Cover

- 4. Remove the foam element from the air cleaner housing.
- 5. Wash the foam air filter element by submerging the element in a solution of household detergent soap and warm water. Slowly squeeze the foam to thoroughly clean.

NOTICE

NEVER twist or tear the foam air filter element during cleaning or drying. Only apply slow but firm squeezing action.

6. Rinse in clean water by submerging the air filter element in fresh water and applying a slow squeezing action (see Figure 15).



Figure 15: Squeeze Air Filter

NOTICE

Never dispose of soap cleaning solution used to clean the air filter by dumping the solution into a sewer, on the ground, or into ground water or waterways. Always be environmentally responsible.

Follow the guidelines of the EPA or other governmental agencies for proper disposal of hazardous materials. Consult local authorities or reclamation facility.

- 7. Dispose of used soap cleaning solution properly.
- 8. Dry the air filter element by again applying a slow firm squeezing action.
- 9. Return the air filter element to its position in the air cleaner housing.
- 10. Install the air cleaner cover, making sure the knobs lock into place.
- 11. Install the engine service panel.

DRAINING THE FLOAT BOWL

- 1. Remove the Engine Service Panel to access the carburetor (see Figure 13 on page 19).
- 2. Locate the clear plastic hose from the float that is extending towards the bottom of the inverter, pull those hose outside the body and place a suitable container under it to catch the drained fuel (see Figure 16).

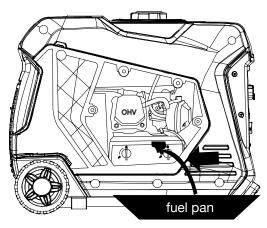


Figure 16: Fuel Drain Hose

3. Loosen the float bowl drain screw until fuel is seen draining from the float bowl (see Figure 17).

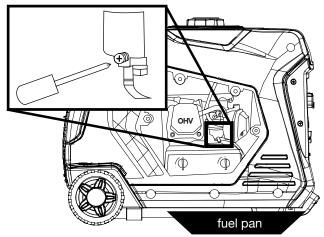


Figure 17: Loosen Float Bowl Screw

4. Allow fuel to drain into the container, and then tighten the float bowl drain screw.

NOTICE

Never dispose of fuel by dumping fuel into a sewer, on the ground, or into groundwater or waterways. Always be environmentally responsible. Follow the guidelines of the EPA or other governmental agencies for proper disposal of hazardous materials. Consult local authorities or reclamation facility.

5. Install the engine service panel.

SPARK PLUG MAINTENANCE

The spark plug must be checked and cleaned after every 100 hours of use or 6 months and must be replaced after 300 hours of use or every year.

- 1. Stop the inverter and let it cool for several minutes if running.
- 2. Move the inverter to a flat, level surface.
- 3. Remove the Engine Service Panel to gain access to the spark plug (see Figure 13 on page 19).
- 4. Remove the spark plug cover by firmly pulling the metal spark plug boot handle directly away from the engine (see Figure 18).

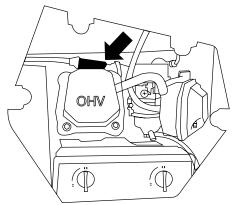


Figure 18: Pull off Spark Plug Cover

NOTICE

Never apply any side load or move the spark plug laterally when removing the spark plug. Applying a side load or moving the spark plug laterally may crack and damage the spark plug boot.

- 5. Clean area around the spark plug.
- 6. Using the spark plug socket wrench provided, remove the spark plug from the cylinder head (see Figure 19).

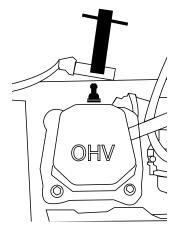


Figure 19: Remove Spark Plug

MAINTENANCE

Spark Plug Maintenance - Continued from page 20

- 7. Place a clean rag over the opening created by the removal of the spark plug to make sure no dirt can get into the combustion chamber.
- 8. Inspect the spark plug for:
 - · Cracked or chipped insulator
 - · Excessive wear
 - Spark plug gap of 0.032 in. (0.80 mm).



If the spark plug fails any one of the conditions listed above, replace the plug.

NOTICE

Only use the recommended spark plug. See chart below. Using a non- recommended spark plug could result in damage to the engine.

- 9. Install the spark plug by carefully following the steps outlined below:
 - a. Carefully insert the spark plug back into the cylinder head. Hand-thread the spark plug until it bottoms out.
 - b. Using the spark plug socket wrench provided, turn the spark plug to ensure it is fully seated.
 - c. Replace the spark plug boot, making sure the boot fully engages the spark plug's tip.
 - d. Install the spark plug access cover.

Recommended Spark Plug Replacement:

Cummins	Torch Spark plug	NGK
A058V025	F7RTC	BPR7ES

CLEANING THE SPARK ARRESTOR

Check and clean the spark arrestor after every 100 hours of use or 6 months.

- 1. Stop the inverter and let it cool for several minutes if running.
- 2. Move the inverter to a flat, level surface.
- 3. Remove the screws holding the muffler cover in place (see Figure 20).
- 4. Loosen the clamp holding the spark arrestor onto the muffler.
- 5. Slide the spark arrestor band clamp off the spark arrestor screen.

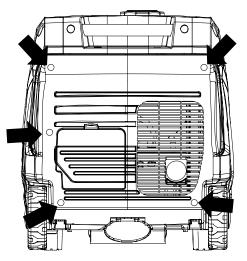


Figure 20: Remove Muffler Access Panel

- 6. Pull the spark arrestor screen off the muffler exhaust pipe.
- 7. Using a wire brush, remove any dirt and debris that may have collected on the spark arrestor screen.
- 8. If the spark arrestor screen shows signs of wear (rips, tears or large openings in the screen), replace the spark arrestor screen.
- 9. Install the spark arrestor components in the following order:
 - a. Place spark arrestor screen over the muffler exhaust pipe. Push on the screen until it fully bottoms out.
 - b. Place the spark arrestor band clamp over the screen and tighten with a flathead screwdriver
- 10. Replace the discharge gate.

CHECKING AND ADJUSTING VALVE LASH

A CAUTION



Checking and adjusting valve lash must be done when the engine is cold.

- 1. Remove the rocker arm cover and carefully remove the gasket. If the gasket is torn or damaged, it must be replaced.
- 2. Remove the spark plug so the engine can be rotated more easily.
- 3. Rotate the engine to top dead center (TDC) of the compression stroke. Looking through the spark plug hole, the piston should be at the top.

- 4. Both the rocker arms should be loose at TDC on the compression stroke. If they are not, rotate the engine 360°.
- Insert a feeler gauge between the rocker arm and the push rod and check for clearance (see Figure 21). See table below for valve lash specifications

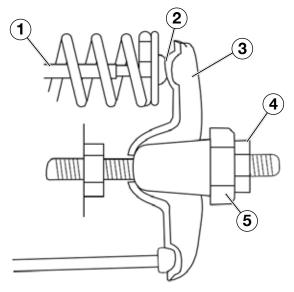


Figure 21 (1) Push Rod, (2) Feeler Gauge Area (3) Rocker Arm, (4) Jam Nut, (5) Adjusting Nut

Standard Valve Lash

1-2019

	Intake Valve	Exhaust Valve
Valve Lash	0.0035 ± 0.0043 in (0.09 ± 0.11 mm)	0.0043 ± 0.0051 in (0.11 ± 0.13 mm)
Bolt Torque	8-12N.m	8-12N.m

- 6. If an adjustment is required, hold the adjusting nut and loosen the jam nut.
- Turn the adjusting nut to obtain the correct valve lash. When the valve lash is correct, hold the adjusting nut and tighten the jam nut to 106 in-lb (12 N•m).
- 8. Recheck the valve lash after tightening the jam nut.
- 9. Perform this procedure for both the intake and exhaust valves.
- 10. Install the rocker arm cover, gasket and spark plug.

CLEANING THE INVERTER

It is important to inspect and clean the inverter before every use.

Clean All Engine Air Inlet and Outlet Ports – Make sure all engine air inlet and outlet ports are clean of any dirt and debris to ensure the engine does not run hot.

BATTERY SERVICE

To ensure the battery remains charged, the inverter should be started every 2 to 3 months and run for a minimum of 15 minutes or a charger should be plugged into the inverter and the inverter should be charged overnight. Plug the cord from the charger into the charging port """ on the inverter. Plug the charger into a 110/120-volt AC outlet.

Battery Replacement

- 1. Remove the spark plug wire from spark plug.
- 2. Loosen the rubber strap holding the battery in place.
- 3. Disconnect the black negative (-) battery cable from the battery first.
- 4. Disconnect the red positive (+) battery cable second and remove the battery.

NOTICE

Dispose of the used battery properly according to the guidelines established by your local or state government.

- 5. Install the new battery into the inverter frame.
- 6. Connect the red positive (+) battery cable to the battery first.
- 7. Connect the black negative (-) battery cable to the battery second.
- 8. Replace rubber strap to hold battery in place.
- 9. Install the spark plug wire onto spark plug.

See below for the battery specification when replacing the battery.

After Market Battery Model	YT5AL
Volts	12
Amp Hr	5
Dimensions	4.63 in by 2.38 in by 5 in

MAINTENANCE

STORAGE

A WARNING

Never store an inverter with fuel in the tank indoors or in a poorly ventilated area where the fumes can come in contact with an ignition source such as a: 1) pilot light of a stove, water heater, clothes dryer or any other gas appliance; or 2) spark from an electric appliance.

NOTICE

Gasoline stored for as little as 60 days can go bad, causing gum, varnish and corrosive buildup in fuel lines, fuel passages and the engine. This corrosive buildup restricts the flow of fuel, preventing an engine from starting after a prolonged storage period.

Proper care should be taken to prepare the inverter for any storage

- 1. Clean the inverter.
- 2. Siphon all gasoline from the fuel tank as best as possible.
- 3. Start the engine and allow the inverter to run until all the remaining gasoline in the fuel lines and carburetor is consumed and the engine shuts off.
- 4. Drain any remaining fuel from the float bowl. See *Draining the Float Bowl* on page 18.

- 5. Change the oil (see *Changing Engine Oil* on page 16).
- 6. Remove the spark plug (see *Spark Plug Maintenance* on page 18) and place about 1 tablespoon of oil in the spark plug opening. While placing a clean rag over the spark plug opening, slowly pull the recoil handle to allow the engine to turn over several times. This will distribute the oil and protect the cylinder wall from corroding during storage.
- 7. Replace the spark plug (see *Spark Plug Maintenance* on page 18).
- 8. Move the inverter to a clean, dry place for storage.

TROUBLESHOOTING

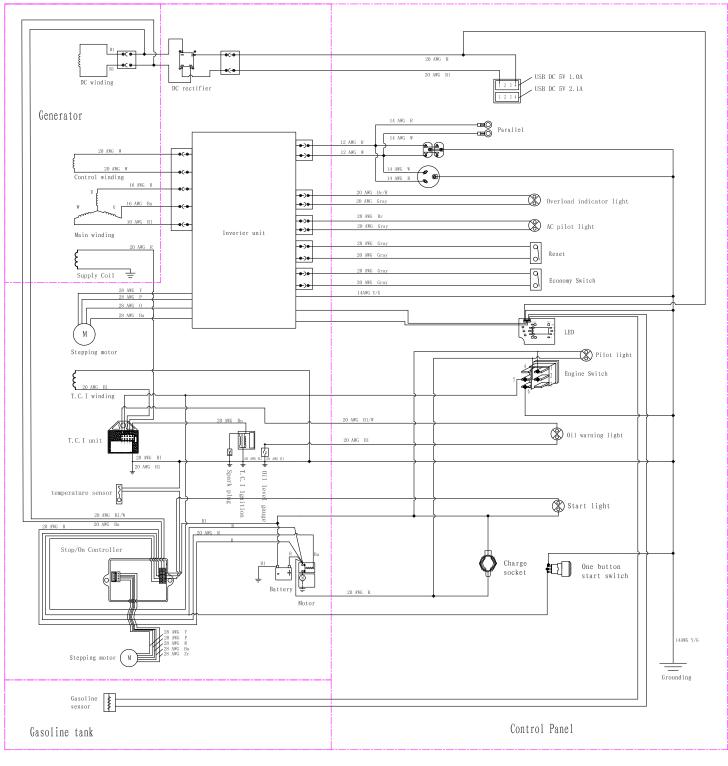
A WARNING

8

Before attempting to service or troubleshoot the inverter, the owner or service technician must first read the owner's manual and understand and follow all safety instructions. Failure to follow all instructions may result in conditions that can lead to voiding of the EPA certification or product warranty, serious personal injury, property damage or even death.

PROBLEM	POTENTIAL CAUSE	SOLUTION	
	1. Reset breaker is tripped.	1. Reset the reset breaker.	
	2. The power cord's plug connector is not fully engaged in the inverter's outlet.	2. Verify plug connector is firmly engaged in the inverter's outlet.	
Engine is running, but no electrical output.	3. Faulty or defective power cord	3. Replace power cord.	
	4. Faulty or defective electrical appliance	4. Try connecting a known good appliance to verify the inverter is producing electrical power.	
	1. Inverter is out of gasoline.	1. Add gasoline to the inverter.	
	2. Fuel flow is obstructed.	2. Inspect and clean fuel delivery passages.	
	3. Dirty air filter	3. Check and clean the air filter.	
	4. Low oil level shutdown switch is preventing the unit from starting.	4. Check oil level and add oil if necessary.	
Engine will not start or remain running while trying to start.	5. Spark plug boot is not fully engaged with the spark plug tip.	5. Firmly push down on the spark plug boot to ensure the boot is fully engaged.	
	6. Spark plug is faulty.	6. Remove and check the spark plug. Replace if faulty.	
	7. Dirty/plugged spark arrestor	7. Check and clean the spark arrestor.	
	8. Stale fuel	8. Drain fuel and replace with fresh fuel.	
	1. Inverter is out of fuel.	1. Check fuel level. Add fuel if necessary.	
Inverter suddenly stops running.	2. The low oil shut down switch has stopped the engine.	2. Check oil level and add oil if necessary.	
	3. Too much load	3. Restart the inverter and reduce the load.	
	1. Dicty oir filtor	1. Clean the air filter.	
	1. Dirty air filter		
Engine runs erratic; does not hold a	2. Applied loads maybe cycling on and off	2. As applied loads cycle, changes in engine speed may occur; this is a normal condition.	
steady RPM.	3. If trying 1-2 above does not solve the problem, the cause might be a fault in the inverter	3. Take the inverter to your nearest authorized service dealer.	

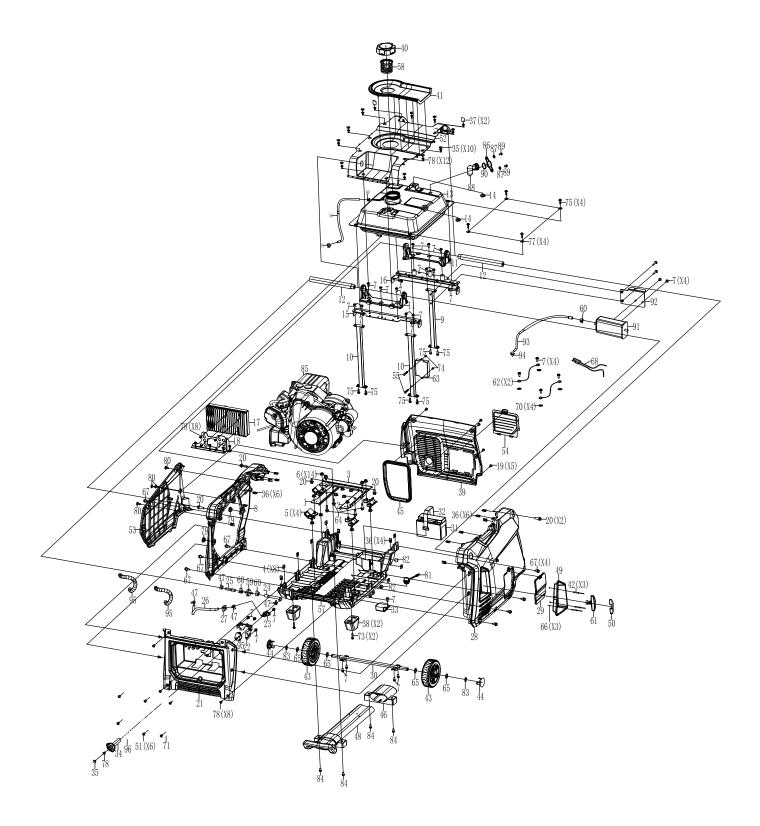
SCHEMATIC



Engine Switch Connecting						
/	1	2	3	4	5	6
0ff		γ	ρ		9	Р
0n						
Start	6	ρ		b	ρ	

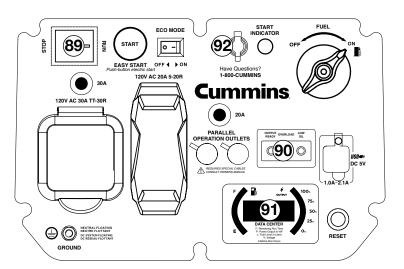
B1	Black	Br	Brown	Y/G	Yellow green
R	Red	Br/R	Brown/red		
Bu	Blue	Gr	Gray	Y	Yellow
W	White	Р	Pink	0	Orange
Y	Yellow	B1/W	Black/white	Zr	Purple

EXPLODED VIEW

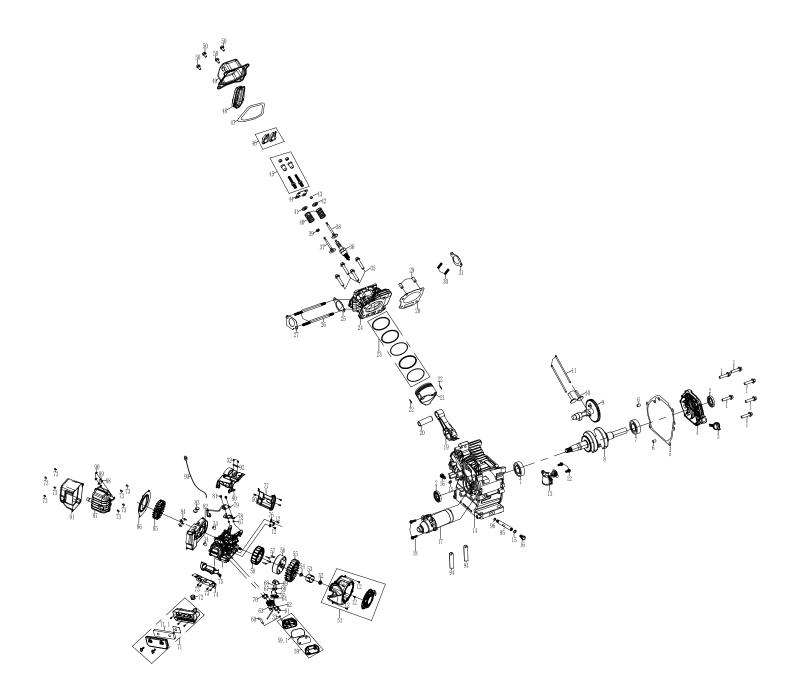


EXPLODED VIEW PART NUMBERS

#	PART NO.	DESCRIPTION
8	A058V031	LEFT FRAME PANEL
13	A058V061	FUEL TANK
17	A058U963	INVERTER MODULE
21	A058V030	INTAKE CRATE
28	A058V037	RIGHT FRAME PANEL
29	A058V041	INSPECTION COVER
31	A058U961	BATTERY
32	A058V046	TIE WRAP
33	A058V060	DC VOLTAGE REGULATOR
35	A058V062	PLUG
39	A058U964	DISCHARGE GRATE
40	A058V048	FUEL TANK CAP
48	A058V052	HANDLE ASSEMBLY
51	A058U965	CROSS RECESSED PAN HEAD SCREW M5×12
52	A058V036	TOP COVER
53	A058V029	LEFT DOOR PANEL
54	A058V045	DISCHARGE COVER
63	A058U959	CONTROLLER
67	A058V027	SCREW M6X20
85	A058V050	ENGINE ASSY
88	A058V028	GASOLINE SENSOR
NA	A058U958	REMOTE KEY FOB
NA	A058U956	MAINTENANCE KIT
NA	A058U957	GENERATOR COVER



89	A058V065	START/STOP SWITCH
90	A058V040	INDICATOR LIGHT SET
91	A058V042	DATA CENTER
92	A058V047	BATTERY CHARGING PORT 2.5MM



ENGINE VIEW PART NUMBERS

#	PART NO.	DESCRIPTION
12	A058U986	BOLT M6X16
13	A058V063	SWITCH ASSEMBLY, OIL LEVEL
17	A058V049	STARTING MOTOR ASSEMBLY
18	A058V044	BOLT M6X25
23	A058V064	SCRAPER RING SET , PISTON
36	A058V025	SPARK PLUG
59.1	A058V034	CARBURETOR AIR CLEANER SHORT
60	A058V067	TUBE, BREATHER
63	A058U966	CARBURETOR ASSEMBLY
64	A058V038	STEPPER MOTOR BRACKET
66	A058V032	STEPPER MOTOR
67	A058V026	STEPPER MOTOR
71	A058V033	AIR CLEANER ASSEMBLY
71.1	A058U960	AIR CLEANER ELEMENT LONG
73	A058U994	BOLT M6X20
79	A058V035	IGNITION COIL
93	A058V059	TEMPERATURE SENSOR (SN'S 1019 AND NEWER)
NA	A058V039	CARBURETOR COMPLETE ASSEMBLY
NA	A058V043	OIL BOTTLE 600 ML .6L
NA	A058V051	STEPPER MOTOR COMPRESSION SPRING
NA	A058V024	HIGH ALTITUDE CARBURETOR ASSY
NA	A058U962	SPARK PLUG TOOL WRENCH (SHORT)

power.cummins.com Copyright © 2019 Cummins Inc. All rights reserved. Cummins, Onan and the "C" logo are registered trademarks of Cummins Inc. and its subsidiaries. Other company, product, or service names may be trademarks or service marks of others. Specifications are subject to change without notice.

