

### IMPORTANT SAFETY INSTRUCTIONS

**WARNING!**  
READ AND UNDERSTAND ALL INSTRUCTIONS. Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.

■ **SAVE THESE INSTRUCTIONS** - This manual contains important safety and operating instructions for inverter model RYi120A.

**NOTICE:**  
This product's AC receptacle has a non-sinusoidal output and is not recommended for use with certain types of sensitive electronics. Please refer to your product's operator's manual.

- Do not expose to rain or use in damp locations.
- Do not disassemble the inverter.
- To reduce the risk of injury, close supervision is necessary when an appliance is used near children.
- Store power source indoors and away from children.
- As with all electrical devices, use caution when plugging and unplugging this unit into an outlet or plugging/unplugging other devices into this unit. Do not force this unit into an outlet. Do not force plugs into this unit.
- To reduce the risk of damage to electric plug and cord, pull by plug rather than cord when disconnecting inverter.
- If this unit is used in a manner not specified by the manufacturer, the protection provided by this equipment may be impaired.
- Do not overload the tool. It must be used for powering devices less than the product rating.
- Operate this product using only the AC power type listed in the product specifications.
- Two- or three-prong plugs may be used with this product. Do not force a polarized plug (one prong larger than the other) into this product. Flip plug over and retry.
- Never block air vents. Blocked vents may cause overheating. Inverter will automatically shut off when overheated.
- Keep inverter cool. Do not place near vehicle heat vents or in direct sunlight.
- Use only with power cord provided.
- Disconnect inverter from power supply when not in use.
- Do not use the inverter around flammable fumes and gases, such as in the bilge of a boat or near propane tanks.
- Do not use in an enclosed area with automotive lead acid batteries.
- Do not put foreign objects into the inverter.
- Refer to the operator's manual for the vehicle or contact the vehicle manufacturer for the proper 12V power receptacle. This product is not suitable for being powered through the cigarette lighter receptacle.

**WARNING:**  
To reduce the risk of fire, do not connect to an AC load center (circuit breaker panel) having multiwire branch circuits connected.

### IMPORTANT SAFETY INSTRUCTIONS

- Do not power life support devices or other necessary medical equipment with this tool.
- This unit should never be hard wired into a circuit.
- This unit should never be wired into a AC distribution circuit.
- Do not attempt to set up, make adjustments or power devices while operating a vehicle.
- Save these instructions. Refer to them frequently and use them to instruct others who may use this product. If you loan someone this product, loan them these instructions also.

**WARNING:**  
**Risk of Fire.** Do not replace any vehicle fuse with a rating higher than recommended by the vehicle manufacturer. This product is rated to draw 12 amperes from 13.8V vehicle outlets. Ensure that the electrical system in your vehicle can supply this product without causing the vehicle fusing to open. This can be determined by making sure the fuse in the vehicle which protects the outlet is rated higher than 12 amperes. Information on the vehicle fuse ratings are typically found in the vehicle operator's manual. If a vehicle fuse opens repeatedly, do not keep replacing it. The cause of the overload must be found. Fuses should not be patched up with tin foil or wire as this may cause serious damage elsewhere in the electrical circuit or cause fire.

### PRODUCT SPECIFICATIONS

Watts .....	Continuous 120 Watts
DC Input .....	12 to 18 Volts DC
AC Output .....	120 Volts, 1 Amp
USB Output .....	5 Volts (2.4 Amps) DC
Output Wave Form .....	Modified Sine Wave

### OPERATION

#### APPLICATIONS

- You may use this product for the following purposes:
- Operating and charging USB-powered devices
  - Supplying electrical power for operating compatible electrical devices such as, but not limited to, lighting, appliances, tools, motor load, small load switch mode power supply, and fans

The power inverter converts low voltage DC electricity to 120V AC household power allowing user to charge and power a variety of devices.

**WARNING:**  
**Risk of electric shock.** When using a grounded appliance this tool will not provide an electrical path to earth ground. Do not power devices with damaged or frayed power cords.

**NOTICE:**  
Do not power this device with an outlet designated for lighting cigarettes. If the 12V adaptor does not fit firmly into the auxiliary power port, the receptacle is not suitable for use with the inverter. A poor connection at the base of the 12V adaptor could lead to electrical problems in the vehicle outside of the protections offered by the vehicle or inverter's fuse.

#### CONNECTING TO AN 18V BATTERY

See Figure 1.

- **To install:** Place the inverter adaptor onto the battery as shown. Make sure the battery pack is secured on the inverter adaptor before beginning operation.
- With power inverter turned off, insert connector cord plug into receptacle in rear of inverter.
- **To remove:** Lift off the battery pack.

#### CONNECTING TO A 12V AUTO ACCESSORY OUTLET

See Figure 2.

Using your vehicle's 12V DC receptacle, the inverter will provide power through the 120V AC outlet and/or two USB ports.

### OPERATION

NEVER use inverter with any 12V DC power source that uses a positive ground.

**NOTE:** Some vehicles require the ignition to be turned on before power is supplied to an accessory outlet.

■ With power inverter turned off, insert connector cord plug into receptacle in rear of inverter.

■ Plug the 12V DC plug into the 12V DC receptacle.

**NOTE:** Some vehicles may stop power to the accessory outlet when the vehicle's engine starter is engaged. Any items connected to the power inverter may momentarily be without power.

#### USING THE POWER INVERTER

See Figures 3 - 4.

■ Press LED power button/overload indicator to turn inverter **ON**. LED will light up green.

**NOTE:** If the LED does not come on, turn on vehicle ignition.

■ Plug devices you want to power or charge into the inverter's USB ports and/or 120 Volt receptacle.

■ The 2.4 A USB ports support mobile devices such as cellphones and most tablets.

**NOTE:** If the LED power button/overload indicator comes on red, press button to turn off inverter then turn it back on to reset. If fault condition occurs again, device may be overloading the circuit.

**NOTE:** Some power tool chargers may experience a delay in charging. The LED power button/overload indicator may flash red while it is analyzing the charger, the LED will remain green once it begins charging.

■ When finished, disconnect your device and turn off the inverter.

### MAINTENANCE

#### REPLACING THE FUSE

See Figure 5.

Always replace the fuse with a 12 Amp glass fuse. Never replace the fuse with a higher-rated fuse.

■ Make sure LED power button/overload indicator is **OFF**.

■ Disconnect any USB or AC devices that are plugged into the inverter.

■ Unscrew fuse cover and remove from 12 V plug.

■ Remove fuse cap.

■ Remove the blown fuse. Replace with the new fuse.

■ Reinstall the fuse cap and fuse cover. Tighten securely.

#### REPLACEMENT PARTS

The following replacement parts may be ordered by calling our customer service department at 1-800-525-2579:

12A Glass Fuse .....	870291007
12V DC Input Cable.....	290361034
18V Inverter Adaptor Cable.....	290361033

### WARRANTY

**This product has a Three-year Limited Warranty for personal, family, or household use (90 days for business or commercial use). For warranty details, visit [www.ryobitools.com](http://www.ryobitools.com) or call (toll free) 1-800-525-2579.**

*Model/item number on product may have additional letters at the end. These letters designate manufacturing information and should be provided when calling for service.*

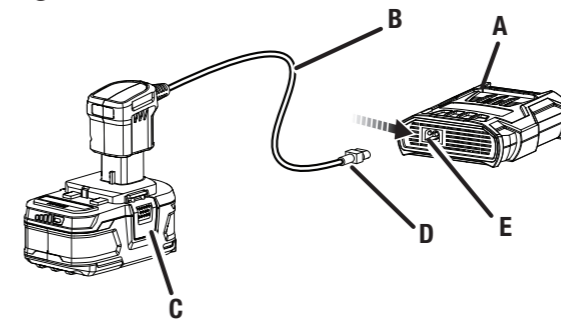
#### FCC COMPLIANCE

**WARNING:**  
Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

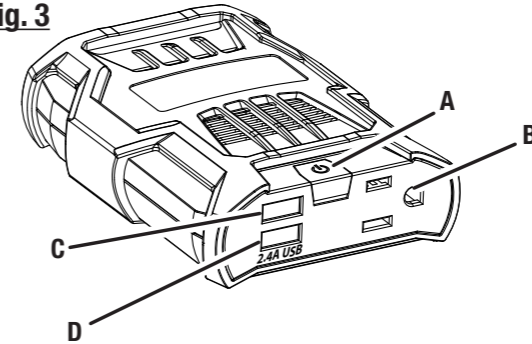
### ILLUSTRATIONS / ILLUSTRÉES / ILUSTRADAS

Fig. 1



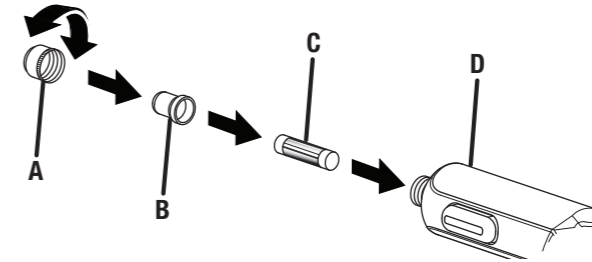
- A - Power inverter (convertisseur de courant, inversor de corriente)
- B - Inverter adaptor (adaptateur convertisseur, adaptador de inversor)
- C - 18V battery (pile de 18 V, batería de 18 V)
- D - Connector cord plug (connecteur, enchufe del cable del conector)
- E - Receptacle (prise, receptáculo)

Fig. 3



- A - LED power button/overload indicator (témoin DEL/indicateur de surcharge, botón LED de encendido/indicador de sobrecarga)
- B - 120 V receptacle (réceptacle 120 V, receptáculo de 120 voltios)
- C - USB port (port USB, puerto USB)
- D - 2.4A USB port (port USB 2,4A, puerto USB de 2,4 A)

Fig. 5



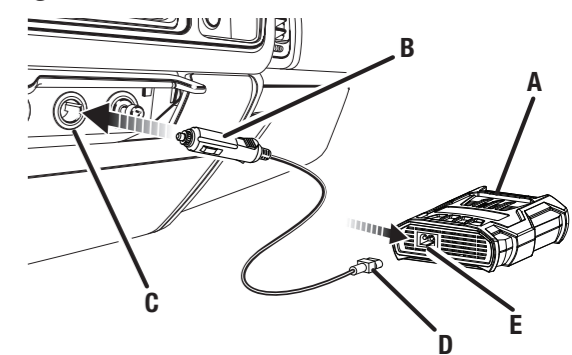
- A - Fuse cover (capuchon du fusible, tapa de fusible)
- B - Fuse cap (capuchon fusible, tapa ce la fusible)
- C - 12 amp fuse (fusible de 12 A, fusible de 12 amperios)
- D - 12 volt DC plug (prise 12 V CC, enchufe de CC de 12 voltios)

**NOTE:** The grantee is not responsible for any changes or modifications not expressly approved by the party responsible for compliance. Such modifications could void the user's authority to operate the equipment.

**NOTE:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

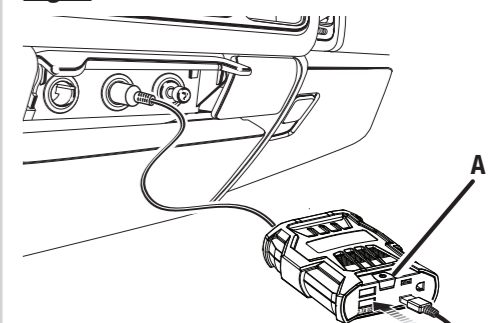
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Fig. 2



- A - Power inverter (convertisseur de courant, inversor de corriente)
- B - 12V DC plug (prise de 12 V CC, enchufe de CC de 12 V)
- C - 12V DC receptacle (réceptacle 12 V CC, receptáculo de 12 V CC)
- D - Connector cord plug (connecteur, enchufe del cable del conector)
- E - Receptacle (prise, receptáculo)

Fig. 4



- A - LED power button/overload indicator (témoin DEL/indicateur de surcharge, botón LED de encendido/indicador de sobrecarga)

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

