

WAGAN Corp. Limited Warranty Registration Form

All WAGAN Corporation products are warranted to the original purchaser of this product. Warranty Duration: This product is warranted to the original purchaser for a period of one (1) year from the original purchase date, to be free of defects in material and workmanship. WAGAN Corporation disclaims any liability for consequential damages. In no event will WAGAN Corporation be responsible for any amount of damages beyond the amount paid for the product at retail. In the event of a defective item, please ship the item, prepaid, with a complete explanation of the problem, your name, address and daytime phone number. WAGAN Corporation will, at its option, replace or repair the defective part. This warranty is void if the product has been damaged by accident, in shipment, unreasonable use, misuse, neglect, improper service, commercial use, repairs by unauthorized personnel or other causes not arising out of defects in materials or workmanship. This warranty is effective only if the product is purchased and operated in the USA and does not extend to any units which have been used in violation of written instructions furnished.

Warranty Disclaimers: This warranty is in-lieu of all warranties expressed or implied and no representative or person is authorized to assume any other liability in connection with the sale of our products. There shall be no claims for defects or failure of performance or product failure under any theory of tort, contract or commercial law including, but not limited to, negligence, gross negligence, strict liability, breach of warranty and breach of contract.

Warranty Performance: During the above one (1) year warranty period, a product with a defect will be replaced with a comparable model when the product is returned to WAGAN Corporation with an original store receipt. The replacement product will be in warranty for the balance of the one (1) year warranty period.

- Please activate my limited warranty for WAGAN Corp. 2454 Power Dome EX
- Enclosed copy of original sales receipt.

Name			
Mail Address			
City			
State, Zip Code			
Item Purchased	2454 Power Dome EX		
Stores Name			
Date of Purchase			
Signature		Date	

All WAGAN Corporation Products must be registered within (30) days of purchased to activate this warranty. Mail the complete registration form, along with a copy of the original receipt to:

Attn: Customer Service
 WAGAN Corporation
 3589 Yale Way, Fremont, CA 94538
 Email: customerservice@wagan.com
 Phone: (Toll Free) 1-800-231-5806 (Local) 1-510-490-9221
 Hours of Operation: Monday through Friday 8:00 A.M. - 5:00 P.M.

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Item no. 2454

Portable Power Source

Power Dome EX

Compact Generator



User's Manual

Power Dome EX by Wagan Tech

USER'S MANUAL — Please read before using this equipment.

Thank you for purchasing the **Power Dome EX Compact Generator** by Wagan Tech. With minimal care and proper treatment it will provide years of reliable use.

IMPORTANT INFORMATION

BEFORE POWER DOME USE, READ AND UNDERSTAND ALL WARNINGS, CAUTIONS AND NOTES INCLUDED IN THIS MANUAL. FOLLOW INSTRUCTIONS PROVIDED BY YOUR VEHICLE MANUFACTURER AND MANUFACTURER OF DEVICES INTENDED TO BE USED WITH THIS UNIT. KEEP THESE INSTRUCTIONS FOR FUTURE REFERENCE.

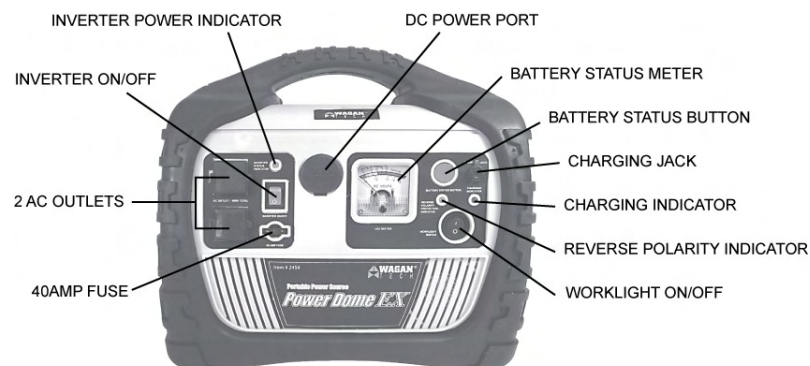
MAKE SURE THE POWER DOME IS FULLY CHARGED BEFORE FIRST USE.

MAJOR FEATURES:

1. 600 Amp Jumpstarter with heavy duty cable and clamps.
2. 260 PSI High Flow Air Compressor for inflating tires and accessories
3. Easy-Read Analog Pressure Gauge
4. 400 Watt Power Inverter – 800 watts peak – Two Outlets 115 Volts AC
5. One 12 Volt Accessory Outlet for powering DC appliance loads to 11 Amps.
6. One USB Power Port for charging/operating cell phones, PDAs and MP3 players.
7. AM-FM Radio with built-in speaker and Audio Input jack for headphones
8. Bright Area light – LED type for long battery life.
9. AC Recharging Adapter
10. DC Recharging Adapter (fused)
11. Easy-Read analog voltmeter for checking Battery Status.
12. Jumpstart cable polarity indicator for safety.

FRONT VIEW

This view shows the locations of the Power Inverter, DC Power Outlet and Battery Status/Charging



BATTERY STATUS

Battery Status provides the user with a current state of charge on the internal battery. It is the user's responsibility to periodically monitor the battery charge and to recharge the battery after each use. Recharge every three months even if the Power Dome is not used.

- Press and Hold the **BATTERY STATUS** Button
- The Battery Status meter (DC Voltmeter) will display the battery voltage.
- Battery status (voltage) is read with charging adapters disconnected.
 - 12.6 VDC and above – Battery is ready for use
 - 12.0 VDC and below – battery needs some charging
 - Below 10.5 VDC – battery is discharged - charge immediately

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CHARGING THE POWER DOME

AC Charging

Make sure the supplied AC Charging Adapter is to be powered by the correct voltage. (i.e. 110 VAC or 220 VAC). Only use the AC charging adapter supplied with this unit.

- Make sure all Power Dome switches are set to **OFF**.
- Open the dust cover on the Charging Jack
- Connect the AC Charging Adapter to the AC outlet.
- Plug the Charging Adapter's cord into the Power Dome's Charging Jack
- The Charging Indicator will light during the charging process
- Initial AC charge can take up to 34 hours.
- Do not charge for more than 48 hours
- After charging the battery, disconnect the adapter from the AC outlet first, then from the charging jack.
- Replace the dust cover on the charging jack

DC Charging in your Vehicle or Boat

Only use the DC charging adapter supplied with this unit.

- Note that the engine must be operating while charging Power Dome.
- Make sure all Power Dome switches are set to **OFF**
- Open the dust cover on the Charging Jack
- Plug the Charging Adapter's cord into the Power Dome's Charging Jack
- Plug the DC Charging Adapter into an accessory outlet (cigarette lighter).
- The Charging Indicator will light during the charging process
- Do not charge more than 16 hours using the DC method.
- After charging the battery, disconnect the adapter from the accessory socket first, then from the charging jack.
- Replace the dust cover on the charging jack

DC TO AC POWER INVERTER

The Power Dome's inverter can operate most AC appliances or a combination of appliances up to 400 watts. Operating time is dependant on the AC load (watts) and the charge and condition of Power Dome's internal battery. Reduced AC loads and full charge on the battery will result in longer operating time. Be sure to turn off or disconnect any AC appliance not in use. There is a user replaceable 40 amp automotive type fuse below the inverter **ON/OFF** Switch. This fuse protects the inverter from an unlikely excessive input current. Ordinary overloads will cause the inverter to automatically shut down. Reduce the load and restart the inverter.

USING THE POWER INVERTER

1. Open the AC outlet dust cover.
2. Connect the AC appliance or appliances to either AC outlet.
3. Turn on the Inverter using the Inverter's ON/OFF switch.
4. If the Inverter Power Indicator LED lights green, the inverter is operating.
5. Turn on one AC appliance and observe the Power Indicator.
 - If the LED remains green, then turn on the second appliance.
 - If the Power Indicator remains green, then both appliances are operating properly.
 - After use, remove the appliance plug and close the dust cover.
 - If the Power indicator LED is not lit, then reduce the AC load. If the inverter is still not operating, refer to the troubleshooting table at the end of this User's Manual.
 - Recharge Power Dome as soon as convenient..

CAUTION:

Some rechargeable devices are equipped with a separate AC charger. These devices will likely operate properly with this inverter. Rechargeable devices that have built-in chargers (see device owner's manual), may not be operate properly with this type of inverter.

Some motorized devices may operate at excessively elevated temperature when used with this inverter. During first use with this inverter, check for excessive motor temperature. Abnormally elevated temperature of the device is an indication that they should not be used with this inverter.

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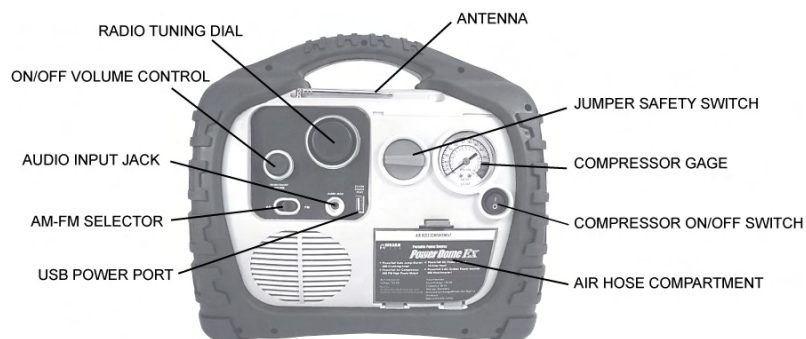
DC POWER PORT

DC POWER PORT (accessory socket) is located to the left of the Battery Status meter (voltmeter). The port can power a DC load of up to 11 Amps a Overloading the port results in “tripping” a self-resetting circuit breaker. Removing the overload automatically restores power to the DC Power Port.

- Uncover the dust cover from the Power Port.
- Insert the 12 VDC accessory plug into the Power Port
- Operate the appliance as usual.
- After use, disconnect the accessory plug from the Power Port and store the accessory.
- Replace the Power Port's dust cover.
- Recharge the Power Dome as soon as convenient.

REAR VIEW

This view shows the Radio, Safety Switch and the Compressor sections



AM-FM RADIO

The Radio can receive frequencies in the standard AM and FM broadcast bands. AM-520 to 1710 kHz; FM 88 to 108 MHz An extendable rod antenna provides adequate signal to receive all local radio stations. When

not in use, the antenna should be stored in its parking location. This will prevent damage to the antenna while Power Dome is being moved. All Radio controls are conveniently located in one area. The controls are: ON/OFF Volume, AM-FM Selection Switch, a Tuning Dial and an Audio Input Jack for external audio devices such as MP3s or CD players (Required 3.5mm mini audio cable-not included).

A USB Power Port is to the right of the Audio Output Jack can power/charge devices that require 5Volts at up to 500 mA through the use of a user-supplied cord.

To save energy, first raise and extend the antenna and select the AM or FM band before turning on the radio.

NOTE: All AM band radios are subject to receiving noise interference from electronic devices, static lightning strikes and some motorized equipment. If you are operating the Power Dome inverter and noise is being received on the AM band, either turn OFF the inverter or change the radio to receive the FM band.

USING THE AM-FM RADIO

1. Carefully raise and extend the multi-section antenna.
2. Select either AM or FM band.
3. Turn on the Radio by turning the ON/OFF Volume knob clockwise.
4. Rotate the Tuning Dial to the desired frequency.
5. Adjust the Volume control to desired loudness.
6. Adjust the position of the antenna for best reception.
7. After use Turn OFF the Radio by rotating the ON/OFF Volume knob counterclockwise until the knob “clicks”.
8. Carefully retract the antenna and return it to the parked position.

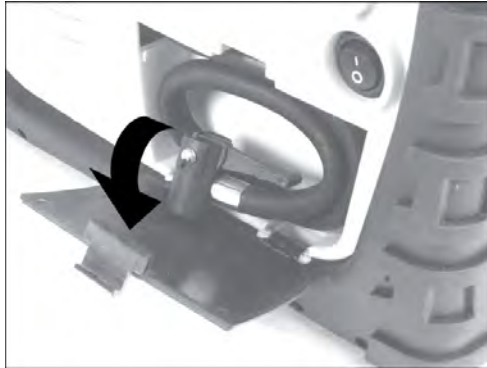
AIR COMPRESSOR

The Air Compressor can inflate a variety of tires and inflatable. It can provide inflation pressures to 260 PSI (pounds per square inch). Be careful not to over inflate. Monitor the compressor gauge while inflating. The Compressor's ON/OFF Switch is located

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above the compressor hose and nozzle compartment.



Compressor hose compartment

USING THE AIR COMPRESSOR

CAUTION: Never connect or disconnect the nozzle with the compressor operating.

1. Before any tire inflation, look for the recommended inflation pressure information on the sidewall of the tire.
2. Open the compartment door at the rear of the Power Dome and extend the air hose.
3. Position the Power Dome so that you can see the Pressure Gauge.
4. Make sure the chuck lever is positioned **UP** (away from the chuck opening)
5. Remove the valve cap from the valve stem.
6. Attach the chuck to the tire's valve stem.
7. Move the chuck lever **DOWN** to secure the chuck to the valve stem.
8. Turn compressor switch on to **ON** position.
9. Monitor the pressure gauge while inflating the tire.
10. When recommended tire pressure has been reached, turn compressor switch **OFF**.

11. Disconnect hose and replace valve cap.
12. Store the hose in the Air hose Compartment
13. Recharge the Power Dome as soon as convenient.

JUMPSTART WARNINGS

- Lead-acid batteries can release explosive gasses. Failure to follow instructions may cause property damage, explosion hazard, and/or personal injury.
 - Do not smoke while jump starting
 - Jumpstart a vehicle or boat in a well ventilated area.
 - Do not attempt to jumpstart a frozen battery.
 - Do not wear vinyl clothing when jumpstarting -- friction can cause static electricity sparks.
 - Remove all metal jewelry - this can cause short circuits.
- Always use safety glasses when jump starting battery acid can cause blindness and/or severe burns.
- Never touch red and black clamps together - this can cause, power arcing, and/or explosion.
 - Do not attempt to jumpstart a frozen battery
 - After use as jump starter, turn OFF Power Safety Switch.
 - Keep out of reach of children
 - Excessive engine cranking can damage the vehicle's starter motor. If the engine fails to start after the recommended number of attempts, discontinue jumpstart procedure and look for other problems that may need to be corrected.
 - If vehicle to be started has a Positive Grounded System (positive battery terminal is connected to chassis):
 - Connect negative (-) black clamp to vehicle battery's negative terminal.
 - Connect positive (+) red clamp to vehicle chassis or a solid, non-moving, metal vehicle component or body part. **DO NOT** clamp directly to positive battery terminal or moving part.

JUMPSTARTING

1. Review the Jumpstart Warnings
2. Make sure all vehicle appliances, lights, radio, etc. are turned **OFF**.
3. Make sure the vehicle's brake is set and the transmission is in "Park"
4. Make sure all Power Dome switches are **OFF**.
5. Securely connect the Red (+) cable Clamp to the vehicle's Positive (+) battery terminal.

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6. Connect the Black (-) cable Clamp to a non-moving part on the vehicle.
7. Observe the color of the REVERSE POLARITY LED that is located between the Battery Status and Work Light Switches.
 - a. If the LED is RED – DO NOT TURN ON THE CABLE JUMPER SWITCH
 - Cable Clamps need to be reversed.
 - Disconnect the Black Clamp first and then the RED Cable Clamp.
 - Reconnect and observe the LED.
 - b. If the LED is green, turn **ON** the Jumper Safety Switch.
 - Inside the vehicle, turn on the ignition switch and attempt to start the engine.
 - Crank a maximum of three seconds. If the engine does not start, wait three minutes before the next attempt.
 - After the engine starts, turn **OFF** the Jumper Safety Switch.
 - Disconnect the Black Clamp first, and then disconnect the Red Clamp.
8. Be sure that the cables and clamps are securely stored.
9. Recharge the Power Dome as soon as convenient.

NOTE: If the engine does not start, there may be a problem other than a discharged battery. Call for service.

WORK LIGHT

The Work Light is a cluster of bright LEDs located above the negative Jumper Cable storage area.

The location of the Work Light allows the light to be used while the Power Dome is being carried.

- Turn the work light switch (on front panel) to **ON** position
- The light will illuminate.
- Turn **OFF** while not in use.

EXTENDING RUN TIME

Extending the run time of Power Dome's inverter, compressor or radio can be accomplished by powering these functions from a charged external 12 volt automotive-type battery.

- Follow the procedure for jumpstarting an engine as far as connecting the cables checking for correct battery polarity and turning on the Cable Switch.
- Now the compressor or inverter can operate for an extended time.
- The low voltage protection feature will shut off the inverter when the external and internal batteries discharge to 10 volts.
- The compressor does not have a low battery shut down feature so the user must check the Battery Status meter on the Power Dome.
- After The Power Dome is used in an extended run time configuration, turn off the compressor or inverter.
- Turn off the Cable Switch and store the cables and clamps.
- Recharge the Power Dome and external battery as soon as possible.

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TROUBLESHOOTING GUIDE - INVERTER

Trouble	Cause	Remedy
Lack of power output	Power Dome battery voltage below 10 volts.	Recharge the Power Dome immediately.
	Excessive current drawn by appliance being operated.	Reduce load to maximum of 400 watts.
		<ol style="list-style-type: none"> 1. Turn OFF the device and inverter. 2. Disconnect device. 3. Turn the inverter ON and leave running for a minimum of 2 minutes. 4. Turn OFF inverter, quickly plug in device to inverter making sure device is OFF prior to connection. 5. Turn ON the inverter and the device.
Inverter fuse blown.	Check and replace if necessary. Be sure any replacement fuse is the same type and rating.	
Inverter Power Indicator is not lit.	Excessive voltage drop.	Check Power Dome and recharge if voltage drops below 10 volts.
	Inverter is overloaded.	Reduce load to maximum of 400 watts.
Television/Power Tool will not start	High surge wattage requirement to start-up.	Toggle the On/Off switch in quick succession a total of five times. If the device does not start the device is not going to work with this type of inverter
Television Interference	Picture breaking up (snow).	Place the Power Dome as far as possible from TV, the antenna and the coaxial cable.
		TV station may be out or range.

Trouble	Cause	Remedy
		Do not use inverter with low quality audio AC filtering system.
Static/Noise interference in audio system	Sound system has weak alternating current shielding.	Replace audio system with high quality noise filtering.

SPECIFICATIONS

Sealed Lead Acid - Rechargeable	I2-Volt, 17 Amp Hour
Work Light with On/Off Switch	5 x LED's
Compressor	260 PSI Analog Gauge
Inverter Output - Two AC outlets	115 Volts AC 60Hz
Maximum Inverter Output Power Peak Power	400 Watts – 800 Watts peak For a max of 0.3 sec
I2V Accessory Outlet	I2-volt 11 Amps max
USB Power Port	5V up to 500 mA.
AM – FM Radio self contained speaker.	AM 520 to 1710 kHz FM 88 to 108 MHz
Audio Output Jack	3.5 mm diameter (1/8 in.)
Max AC Charging Time from discharge	34 hours
Max DC Charging Time (engine operating)	12 hours
JumpStart Cables and Clamps	6 Gauge, heavy duty clamps. 24 in length.