



Forty2 Solar Generator User Guide



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Contents

This package contains one (1) all-in-one Forty2 solar generator (pictured below).



Available Accessories:

- Wall Charger
- Hub Inverter
- Hub Cable

Visit peppermintenergy.com for a complete list of accessories & pricing.

Welcome

Clean, reliable, and easy-to-use portable power is here with your new Forty2 solar generator by Peppermint Energy. We thank you for placing your trust in us!

Please read this guide thoroughly before operating your new Forty2 Solar Generator. This guide contains information you need to obtain the performance required for your application. Keep this guide handy for future reference.

About Peppermint Energy Forty2 Solar Generators

Peppermint Energy is dedicated to making easy-to-use portable power available to everyone.

The Forty2 is a self-enclosed, all-in-one, portable power generator that runs off the sun. It is equipped with solar panels capable of delivering up to 180 watts of power, battery storage capable of storing and delivering far more than 180 watts, and the associated electronics so that you can use the Forty2 with any device you could plug into a wall. Safety is a priority and thus there are several considerations to be taken into account.

This generator contains a built-in super-efficient power inverter with the highest surge capability in the industry. This extremely advanced, microprocessor controlled Forty2 runs cooler and is more reliable than any in its class. This Forty2 has the highest efficiency available (up to 90%), so that longer run times and extended battery life are achieved.

The built-in inverter converts low voltage, direct current (DC) to 120 volt modified sine wave (MSW) alternating current (AC). The inverter draws power from the 24 volt lithium Ion batteries contained in the Forty2.

WARNINGS & CAUTIONS

It's very important that any operator and installer of this Forty2 read and follow all WARNINGS and CAUTIONS and all installation and operation instructions. In particular, comply with WARNINGS (possibility of serious injury or death), CAUTIONS (possibility of damage to the Forty2 and/or other equipment).

WARNINGS

- Danger of shock or electrocution. This is a heavy-duty device that produces voltages similar to commercial AC power. Treat the Forty2 output the same as commercial AC power.
- Do not use the Forty2 near flammable materials or in any locations that may accumulate flammable fumes or gases. This is an electrical device that can briefly spark when electrical connections are made or broken.
- While the internal electronics are weather sealed, using the Forty2 or electrical appliances in wet conditions, such as rain or snow, or near a pool or sprinkler system, or when your hands are wet, could result in electrocution.
- Do not immerse in water. Death or serious injury can result if placed in water.
- If the Forty2 is stored outdoors, unprotected from the weather, check all of the electrical components on the control panel before each use. Moisture or ice can cause a malfunction or short circuit in electrical components, which could result in damage to the Forty2 or electrocution.
- Do not connect to a building electrical system unless a qualified electrician has installed an isolation switch.
- Do not use appliances with damaged or wet cords.
- The Forty2 is equipped with a DC auxiliary port, operating at 24 volts. Do not connect this to a 12 volt system, and exercise care when handling the Forty2 as this port is capable of large power surges.
- This Forty2 is equipped with a dedicated port for charging from a Peppermint Energy Wall Charger. Momentary sparking may occur when connected.
- The base of the Forty2 may become hot during use. Take caution not to make contact with metal on base.
- The Forty2 Solar Panels may become hot after prolonged exposure to the sun. Handle with care.
- The Forty2 Solar Panels are encapsulated in tempered glass and very resistant to damage from physical contact. However, should the glass be broken, shards of sharp glass will result, which may cause injury. Use proper care when making contact with any broken glass.
- The Forty2 weighs between 50 and 75 pounds depending on model. Take precaution when transporting to avoid injury and/or dropping on person or object.

CAUTIONS

- Do not place items on or over the Forty2 during operation. The Forty2 will shut down if the internal temperature gets too hot. Restart the Forty2 after it cools.
- When using an extension cord from the Forty2 to an appliance the extension cord should not be longer than 50 feet.
- Route appliance cords and extension cords to prevent accidental pinching, crushing, abrading and tripping of people.
- Use safety approved extension cords rated at 15 amps or higher.
- Clean Solar Panel glass surfaces regularly for optimal operation. Only do so when the Forty2 Solar Panels have been out of the sun for more than one (1) hour.
- Inspect cords and plugs, and replace if damaged.
- Make sure devices/appliances are in good working order. Appliances in poor working order should not be used.
- Make sure the electrical rating of all devices/appliances combined does not exceed the stated rating of the Forty2.
- DO NOT plug in battery chargers for cordless power tools if the charger carries a warning that dangerous voltages are present at the battery terminals.
- Certain chargers for small nickel-cadmium or nickel-metal-hydride batteries can be damaged if powered by the Forty2. Certain types of indoor and/or outdoor appliances/devices are susceptible to

damage: Small, battery-operated appliances such as flashlights, cordless razors and toothbrushes that plug directly into an AC receptacle are examples of such.

- DO NOT use this Forty2 with the above types of equipment.
- The majority of portable appliances/devices will not have any problem being charged with a Forty2. Most portable appliances use separate transformers or chargers that plug into AC receptacles to supply a low-voltage DC or AC output to the appliance. However, check with the appliance/device manual for further information on charging.
- Some fans with synchronous motors may slightly increase in speed (RPM) when powered by the Forty2. This is not harmful to the fan or to the Forty2.
- GFCI devices may not work with modified sine wave (MSW) power.
- This Forty2 is not tested for use with medical equipment.
- This Forty2 is not tested for use in marine applications.
- In the event of a continuous audible alarm or automatic shut down, turn the Forty2 OFF immediately. Do not restart the Forty2 until the source of the problem has been identified and corrected.
- When attempting to power lead acid battery chargers with the Forty2, a modified sine wave source, monitor the temperature of the battery charger for approximately 10 minutes. If the battery charger becomes abnormally warm, immediately disconnect it from the Forty2.

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Getting Started

A quick note before you start generating power with your new Forty2, please:

- Make sure the solar panels are clean.
- Completely charge your Forty2 to obtain a full storage capacity:
Forty2 Pro – 5 hours; Forty2 Pro+ – 10 hours; Forty2 Max – 20 hours.
- Review information regarding maximum power/current limits and requirements of the devices/appliances you wish to use.
- Review this entire User Guide for safety information.
- Register your Forty2 at <http://peppermintenergy.com/registration>.
- For your first use, we would recommend powering a small appliance (less than 250 watts) for 15 minutes to break-in your Forty2. After that, use it as normal.

Controls and Features

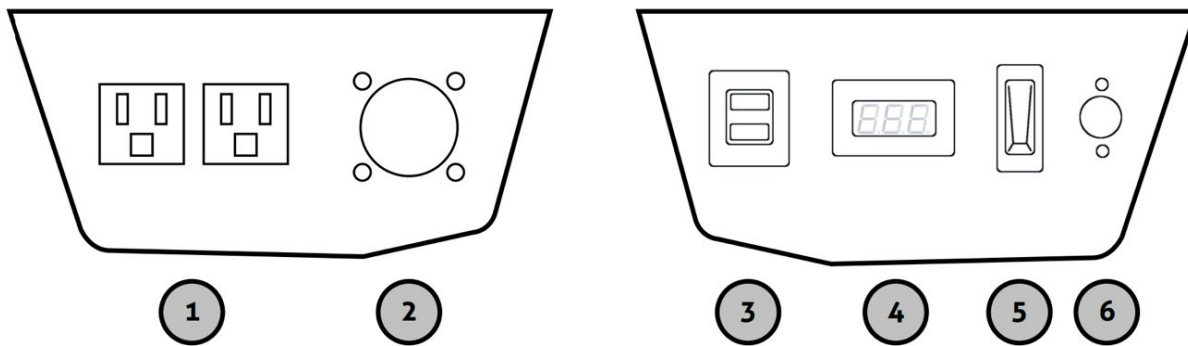


Figure 1: Forty2 Front Panels

Controls and Features Descriptions:

1. Two standard North American AC outlets
2. DC auxiliary port
3. USB charging ports
4. Battery voltage indicator
5. ON/OFF switch
6. Wall charging port

AC Outlet Safety Features

- Overload protection – if the load exceeds 1800 Watts for more than 3 seconds, the Forty2 will automatically shut down. To reset, remove the load, turn off the Forty2 for 10 seconds, then restart.
- Short Protection – if the AC outlets prongs are shorted, the Forty2 will automatically shut down. To reset, remove the load, turn off the Forty2 for 10 seconds, then restart.
- High Voltage Protection – if the battery voltage exceeds the safe operating voltage, the Forty2 will shut down. Forty2 will restart when battery voltage reaches safe levels again.
- Low Voltage Protection – if the battery drops below 20 volts, the Forty2 will automatically shut down. The Forty2 will not restart until the voltage increases above 22 volts. To reset the Forty2, turn off the Forty2 for 10 seconds, then restart.
- Low Voltage Audible Alarm – if the battery voltage drops below 21 volts, the Forty2 will begin beeping. You may continue to use the Forty2 until the voltage reaches 20 volts, at which time they Forty2 will require a charge.
- Thermal Protection – if the internal temperature of the Forty2 exceeds safety limits, the Forty2 will shut down. To restart, turn off the Forty2, allow the Forty2 to cool, then restart.

DC Auxiliary Port Operation

The Forty2 is equipped with a 24 volt DC outlet. This outlet is designed to allow multiple Forty2 solar generators to be chained together using a Peppermint Energy Power Hub (sold separately), and to power Peppermint Energy approved devices. Follow the directions included with the accessory or contact Peppermint Energy prior to use.

USB Charging Ports Operation

The Forty2 is equipped with USB charging ports. These outlets are capable of sourcing a maximum of 3 amps (shared) capable of charging most portable electronic devices. Some devices require more power. Consult the device owner's manual to determine compatibility. If the device is not compatible, the charger included with the device can be plugged into the AC outlet as any other outlet.

Battery Status Indicator

The Forty2 is equipped with an LCD battery voltage indicator. The batteries will operate between 18 and 26 volts. Under typical use, fully charged batteries will read as 25.5V, though 0.5 volt variance is normal. In practice, battery voltage should never drop below 19, and the inverter will automatically shut off at 20 volts (+/- 0.5).

Charging

The Forty2 can be charged by either exposing the solar panels to the sun, or from a Peppermint Energy approved wall charger, however you **SHOULD NOT** use both the sun and wall charger at the same time.

Solar Charging

Following the instructions below will allow your Forty2 to charge from the sun.

1. First take the Forty2 to an open area.
2. Place the Forty2 on a flat surface, such as the ground, where it will receive full exposure to the sun.
3. Open the Forty2 to expose the solar panels. Your Forty2 will begin charging automatically.

Note:

- When the solar panels are exposed to the sun the Forty2 is always charging - you do not need to press any button, or have the Forty2 ON to charge.
- The Forty2 will receive the best charge on a clear sunny day, however in the event of cloud cover or the sun setting - the Forty2 may safely be left open and will charge, though at a significantly reduced rate. Normal charging will automatically resume when sun exposure resumes.
- To achieve the highest charging efficiencies:
 - Clean the solar panels as needed with a soft cloth to clear dust or dirt, taking care not to scratch the glass surface of the panels.
 - Each panel needs to have the entire surface exposed to the sun for optimum charging efficiencies (effect). Even a shadow on a small portion of the surface will drastically reduce the efficiency of the solar charge.

Wall Charging

The Forty2 is equipped with port for connecting a Peppermint Energy Wall Charger (see Controls & Features, page 7, Figure 1, item #6). The charger allows the Forty2 to be charged from a grid powered wall outlet or another AC power source. See the Wall Charger user guide for operation instructions. **DO NOT** charge with both the sun and external wall charger at the same time. This may overload the charging system and prevent charging until the Forty2 is shaded or the charger is removed. Improper connection between wall charger and the Forty2 may cause momentary sparking. Exercise caution to prevent damage and/or injury.

Charging Times

Under optimal conditions the Forty2 will charge at the same speed from the sun as it will when charged using the Peppermint Energy approved wall charger. The required charging time will depend upon the remaining charge level of the battery, and the battery size of your Forty2. The following are estimated charge times to bring an empty battery to full charge.

Forty2 Solar Charger	Estimated Charging Time
Forty2 Pro	3 hours
Forty2 Pro+	6 hours
Forty2 Max	12 hours

Operation

The Forty2 is an all-in-one portable power generator that runs off the sun. To utilize the power generated by the Forty2, follow the directions below.

Temperature Considerations

- Surrounding air temperature should be between -20°C and 40°C – ideally between 15°C and 25°C (60 - 80°F).
- The temperature ranges over which the battery can be charged is typically 0°C to 45°C (32°F to 113°F). Therefore, charging efforts outside the prescribed temperature range may automatically be blocked by the protection circuitry of the battery pack.
- The solar power generated decreases at high temperatures. This will result in increased charging time of the Forty2 or reduced ability to power loads from the sun.
- Battery capacity reduces at low temperature. The ability to power devices for an extended period of time may reduce at temperatures below 32°F/0°C.

Turning on the Forty2

The Forty2 is set to charge automatically whenever the solar panels are exposed to the sun. NOTE: The Forty2 must be turned ON to power an appliance/device.

1. Turn ON (I) the Forty2 solar generator's ON/OFF switch (see Controls & Features, page 7, Figure 1, item #5). The audible alarm may sound a short "beep" as the Forty2 powers up. This is normal.
2. Check the voltage on the Battery Voltage Indicator (see Controls & Features, page 7, Figure 1, item #4) to determine the charge of your Forty2.
 - a. If the charge is above 22 volts then your Forty2 has enough charge to start delivering power.
 - b. If the charge is below 22 volts, or the audible alarm is beeping, then your Forty2 requires additional charging.
3. Turn OFF (O) the Forty2 solar generator's ON/OFF switch (see Controls & Features, page 7, Figure 1, item #5). The audible alarm may also sound a short "chirp." This is normal.
4. Your appliance/device to be charged or operated MUST BE turned off. Plug in the appliance/device cord into one of the 120 volt AC Outlets on the front panel of the Forty2.
5. Turn ON (I) the Forty2 solar generator's ON/OFF switch (see Controls & Features, page 7, Figure 1, item #5).
6. Turn your appliance/device on.
7. You may charge or operate additional appliances/devices following steps 3-6 above.

IMPORTANT

When the ON/OFF switch is in the ON position, the Forty2 is always producing power, and therefore using battery power - even if the devices you've plugged into it are turned off. To conserve battery power, place the ON/OFF switch in the OFF position whenever the Forty2 is not in use.

Troubleshooting

Symptom	Probable Cause	Fix
Forty2 makes a beeping sound	Under Voltage	Turn off Forty2, charge to greater than 22 volts, restart Forty2
	Over load	Remove loads, turn off Forty2, wait 10 seconds, restart Forty2
	Over temperature	Turn off Forty2, allow to cool, restart Forty2
Forty2 is not providing power	Under Voltage	Turn off Forty2, charge to greater than 22 volts, restart Forty2
	Over load	Remove loads, turn off Forty2, wait 10 seconds, restart Forty2
	Over temperature	Turn off Forty2, allow to cool, restart Forty2
Forty2 is not charging	Solar panels shaded	Make sure solar panels have unobstructed exposure to sunlight

Powering Appliances/Devices

The Forty2 has been designed to power devices large and small, but there are some special considerations that you need to be aware of before connecting any device to your Forty2.

Device “Startup” Load

When a motorized appliance/device or a tool turns on, there is an initial surge of power to start. This surge of power is referred to as the "starting load" or "peak load". Once started, the appliance/device or tool requires less power to operate. This is referred to as the "continuous load" in terms of power requirements. You will need to determine how much power your appliance/device or tool requires to start up (starting load) and its continued running power requirements (continuous load).

Power consumption is rated in watts, or it can be calculated from amperes (amps). This information is usually stamped or printed on most appliances/devices and equipment. If this information is not indicated on the appliance or equipment, check the owner's manual. For electrically sensitive equipment, contact the manufacturer to determine if the device you are using is compatible with modified sine wave AC.

Starting Load Formula

$$\text{WATTS} \times 2 = \text{Starting Load for most appliances}$$

This formula yields a close approximation of the starting load of most appliances. Exceptions are motorized appliances such as pumps, freezers and air conditioners. These appliances can have startup loads of up to eight times the rated watts. For example, using this formula for a blender may look like this: 300 watts X 2 = 600 watts starting load.

Continuous Load Formula

$$\text{AC AMPS} \times 120 \text{ (AC voltage)} = \text{WATTS}$$

This formula yields a close approximation of the continuous load of your appliance. For Example, using this formula for a small fan may look like this: 0.08A X 120 volts ac = 9.6 watts of continuous load.

Estimating Battery Only Run Times

To estimate the run time for one or multiple appliances/devices, follow these steps:

1. List the maximum wattage that the Forty2 has to provide by adding wattage requirements for all plugged-in appliances/devices.
2. Estimate the number of hours the appliances will be in use between solar collection or battery recharge. This will differ depending on the appliances/devices. As an example, a typical home-use coffee maker draws 500 watts during its brew time of 5 minutes, it maintains the temperature of the pot at about 100 watts. Typical use of a microwave oven is only for a few minutes. Some longer operating time appliances are lamps, TV's, computers and refrigerator/freezers.
3. Determine the number of hours the appliance can be run by the Forty2. Divide the battery size of your Forty2 (in watt hours) by the average power consumption in watts. For example: 500 watt hours divided by 50 watts equals 10 hours.
4. There are other conditions that impact actual run time. These include:
 - a. AC appliance load and time in use
 - b. Cable gage and length (cable losses)
 - c. Charge level of the batteries (between use the Forty2 must be fully charged)
 - d. Temperature of the batteries (colder batteries will not perform to peak abilities)
 - e. Age and condition of the batteries (older batteries lose capacity)
 - f. Compliance with turning off unnecessary AC and DC loads.

Modified Sine Wave Power

The Forty2 converts the high voltage DC into 120 volt AC (household current), using advanced MOSFET transistor in a full bridge configuration. This design provides the inverter with the capability to start and run difficult reactive loads, while providing excellent overload capability. The waveform that is generated by this conversion is a "modified sine wave". Consequently, most power meters will not read the RMS output voltage of the inverter correctly. Use any multimeter identified as "True RMS" to properly test the AC output.

Television and Audio Suggestions

Although all Forty2 solar generators are shielded and filtered to minimize signal interference, some interference with your television picture may be unavoidable, especially in weak signal areas.

However, here are some suggestions that may improve reception:

- First, make sure that the television antenna produces a clear signal under normal operating conditions. Also, ensure that the antenna cable is properly shielded and of good quality.
- Change the positions of the Forty2, antenna cables, and TV power cord.
- Attach a "Ferrite Data Line Filter" to the television power cord. More than one filter may be required. These filters are available at most electronic supply stores.

Note:

Some inexpensive audio systems may produce a slight "buzzing" sound when operated with the Forty2. The only solution to this problem is to use a sound system with better power supply filtering.

General Considerations

Lithium-ion Batteries

Your Forty2 Solar Generator stores energy in a series of Lithium-ion batteries. We choose to use this type of battery in the Forty2 because it offers better performance, storage density to weight ratio, and environmental impact. Li-ion batteries also have no 'memory' effect which will allow your Forty2 to have a long lifecycle.

Getting the Most Out of Your Batteries

- Make sure any appliances are energy efficient and turned off after use.
- Use LED Lamps.
- Wherever possible, charge the Forty2 with its built-in Solar Panels.

Transporting/Storage

Air transportation of Li-ion batteries is regulated in several countries, and by United Nations through the International Air Transportation Association (IATA) Dangerous Goods Regulations, among others. Please check local regulations and with the common carrier before shipping your Forty2.

Battery Safety

Although there are many other technical advantages that make Li-ion the current chemistry of choice for high-end portable equipment, much greater care is required for Li-ion batteries. Fortunately, more precise equipment and monitoring systems are built-into these battery packs for performance and safety reasons. A more rigorous approach, plus a profound awareness of Li-ion batteries, is vital to the wellbeing and SAFETY of users, bystanders, equipment, and premises. It's important to remember that, like other batteries, these batteries too may explode if abused!

- While the internal electronics are weather sealed. Working in the vicinity of a Lithium-Ion battery can be dangerous. Batteries can be dangerous or damaged if misused. Follow all instructions found in this user guide.
- If an exposed lithium-ion battery does start a fire, it may burn even more violently if it comes into contact with water or even the moisture in the air. DO NOT THROW WATER ON A BURNING LI-ION BATTERY! A class C fire extinguisher must be used.

Technical Information

There may be Federal and/or State Occupational Safety and Health Administration regulations, local codes, or ordinances that apply to the intended use of the Forty2. Please consult local agencies having jurisdiction.

- In some areas, generators are required to be registered with local utility companies.
- If the Forty2 is used at a construction site, there may be additional regulations that must be observed.

Specifications

Size (Folded)	34.25"/87cm wide x 30"/76cm deep x 6"/15cm high
Weight (Battery Dependant)	57 lb/25.9 kg, 63 lb/28.6 kg, 75 lb/34.0 kg
Storage Capacity	500 / 1000 / 2000 Whr (Pro, Pro+, Max)
Power Output	900 W (1,800 W Peak - 3 seconds max)
Inverter Type	Modified Sine Wave
Solar Power	180 Watts
Solar Cells	Monocrystalline 20S2P
Electrical Output	120/220 Volts, 50/60 Hz
Battery Recharge Time	Variable by model: 3-12 hours
Battery Type	Lithium ion
Battery low alarm	21 ±0.5 Volts DC
Battery low shutdown	20 ±0.5 Volts DC

Warranty

1. Limited Warranty

Peppermint Energy, Inc. warrants that the following products will be free from defects in material and workmanship for the period of time specified, subject to the limitations set out below.

2. Products Covered and Warranty Length

Parts Covered	Warranty Length: From Date of Original Retail Purchase
Forty2® Solar Panels	(60) Months
Forty2® Solar Generators	(12) Months
Milo Solar Chargers	(12) Months
Cell Power Packs	(12) Months

3. Qualifying for the Warranty

To qualify for this warranty, the product must be purchased directly from Peppermint Energy or from a seller authorized by Peppermint Energy to sell the product. This warranty applies to the original purchaser only. A subsequent owner of a product has no rights under this warranty.

4. Exclusive Remedy: Repair and Replace

Peppermint Energy's sole obligation under this warranty is to repair or replace, free of charge and at its option, any defective part or product determined by Peppermint Energy to be the result of defective material or workmanship. This obligation applies only to defects occurring under normal use of the product during the applicable warranty period. A replacement part or product assumes the remaining warranty period of the original product.

5. How to Make a Warranty Claim

To make a warranty claim, you must: (1) HAVE REGISTERED THE PRODUCT WITH PEPPERMINT ENERGY, (2) provide proof of purchase, (3) provide written notice of the defect to Peppermint Energy and (4) deliver the product to Peppermint Energy for its inspection. All of these steps must be completed prior to the expiration of the product's warranty period. You are responsible for the cost and risk of shipping the product to Peppermint Energy. The written notice must be made on the Peppermint Energy Warranty Claim Form, a copy of which can be obtained

from Peppermint Energy's website: www.peppermintenergy.com. The Warranty Claim Form and the defective product must be sent to:

Peppermint Energy, Inc.
5000 S Minnesota Ave
Suite 400
Sioux Falls, SD 57108 USA

6. Warranty Exclusions

This warranty does not apply to damage, deterioration, or breakage due to any of the following:

- A. Neglect of periodic maintenance recommended in the product's user guide
- B. Improper repair or maintenance
- C. Normal wear and tear, accident, misuse, abuse, or improper use.
- D. External causes or acts of God, such as collision, theft, vandalism, riot or wars, fire, extreme freezing and heat, lightning, earthquake, windstorm, hail, volcanic eruption, water or flood, tornado or hurricane.
- E. Unauthorized alteration or modification, or incorporation or use of unauthorized attachments or parts.

7. No Consequential Damages

In no event shall PEPPERMINT ENERGY be liable for any consequential, indirect, incidental or special damages of any nature whatsoever, including without limitation, lost profits arising from the failure of the Product, loss of time or use of the product, transportation, commercial loss, or any other consequential, indirect, INCIDENTAL, or special damages. Peppermint Energy's sole obligation under this warranty is limited to repair or replacement, at its option. SOME STATES DO NOT ALLOW THE EXCLUSION OF SUCH DAMAGES, SO THIS provision MAY NOT APPLY TO YOU.

8. Limitation of All Other Warranties

EXCEPT FOR THE WARRANTY HEREIN PROVIDED, PEPPERMINT ENERGY DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED. ALL IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, AND TITLE AND INFRINGEMENT ARE LIMITED TO THE DURATION OF THIS LIMITED WRITTEN WARRANTY. SOME STATES DO NOT ALLOW THE LIMITATION OF SUCH IMPLIED WARRANTIES, SO THIS PROVISION MAY NOT APPLY TO YOU. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS, WHICH VARY FROM STATE TO STATE.

9. South Dakota Law and Venue Apply Exclusively

This warranty will be governed by and construed in accordance with the domestic laws of the State of South Dakota without giving effect to any choice of law or conflicts of laws provision or rule. ALL DISPUTES SHALL BE ADJUDICATED IN STATE OR FEDERAL COURT LOCATED IN SIOUX FALLS, SOUTH DAKOTA. YOU HEREBY WAIVE ANY OBJECTIONS TO SUCH VENUE.

Identification

In the event that your Forty2 requires service, you'll need to locate the model and serial number of your Forty2. See the diagram below for direction.



Drawing of Forty2 Bottom

Forty2 Serial Number

Record the serial number and date purchased in the spaces below.

Serial Number _____

Date Purchased _____