

ASSEMBLY AND OPERATING INSTRUCTIONS

Thank you for purchasing the GenTran® GenShed™ Generator Shelter. Read these instructions in their entirety prior to assembling the shelter. GenTran accepts no responsibility for accidents, damages, personal injury or death caused by or resulting from incorrect assembly or inappropriate use of this product. This GenShed shelter must be assembled and used exactly per these instructions and installed with a suitable generator. Visit www.gen-tran.com for a list of suitable generators.

CAUTION This GenShed™ shelter has been designed with safety in mind, and therefore all instructions for installation and use of this product should be strictly followed. Failure to follow the instructions may cause property damage and/or personal injury. This shelter should not be attached to a dwelling or installed in any space that is part of a dwelling. GenTran is not responsible for damage or injury resulting from inappropriate use or installation.



- Not intended for storage of flammable or caustic chemicals.
- Do not store any items other than the generator in this shelter.
- Not intended for use by children.
- Do not stand, sit or store items on top of GenShed shelter.
- GenTran is not responsible for damage caused by weather or misuse.
- Inspect your shelter at regular intervals to ensure that assembly integrity has been maintained and surface location is still level.
- Lock the GenShed™ Shelter to prevent unauthorized entry or theft.
- Test generator in shelter monthly to ensure that blower fan and ventilation systems are working properly.
- Patents Pending.

WHAT'S INCLUDED IN THIS PACKAGE:

- Modified Suncastr Shelter (with some of GenShed™ parts pre-installed for your convenience)
- Internal Blower Fan with cord
- Magnetic and Fixed Venturi Exhaust System
- High Temperature Safety Switch (HTSS)

TOOLS REQUIRED:

- Straight Blade Screwdriver
- Wire Cutter or Pliers
- Utility Knife

ADDITIONAL TOOLS NEEDED FOR FIXED EXHAUST:

- Electric Drill
- 1/16" Drill Bit
- #2 Phillips screwdriver

BEFORE YOU START:

1. Read and understand all instructions including the Suncastr Owners Manual as well as this GenShed Owners Manual.
2. Do NOT modify or leave out ANY part of this shelter, or you will risk property damage, theft, personal injury or death. GenTran accepts no responsibility for accidents, damage, personal injury or death resulting from incorrect assembly, installation or inappropriate use of this product.
3. Locate a suitable location for the GenShed shelter on your property. The walls of the shelter shall be no less than 18" inches from a non-combustible wall surface (brick, concrete or cement-based siding) and no less than 36" (3 feet) from a combustible wall (wood, vinyl or any type of siding), and at least 60" (5 feet) from a door or window opening per NFPA guidelines.
4. The foundation underneath the GenShed™ Shelter must be stable, flat, level and well drained. Ideal materials underneath the shelter are concrete slab or pavers, pebbles or stone.
5. All tests described in these instructions must be performed before installation is complete.

ASSEMBLING THE SHELTER:

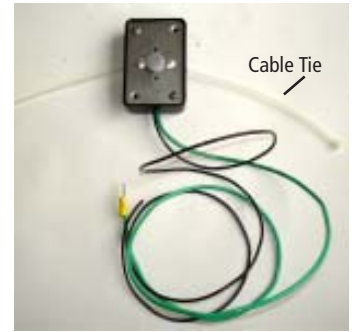
1. Assemble shelter to all SUNCAST requirements per the enclosed Suncastr instructions. Many of the components that are permanent to the GenShed shelter have been pre-installed for your convenience such as the louvers and blower fan.
2. If you are using forced fuel, such as natural gas or liquid propane (LP gas) and you are permanently installing your generator, it is recommended that this shelter be anchored per SUNCAST Assembly Instructions Part 1 AND that flexible fuel lines/pipes are used. You will need to drill a hole for the fuel line in a convenient location for alignment to fuel inlet on generator.
3. Inspect all round louvers for shipping and installation damage. Straighten any louvers that may have been bent, deformed during shipping, and make sure all louvers are oriented so that water runs out of the shelter (the words "Maurice Franklin Louver Co. Providence RI" should be on the TOP of the louver when inserted properly.) Call GenTran factory for replacement louvers.



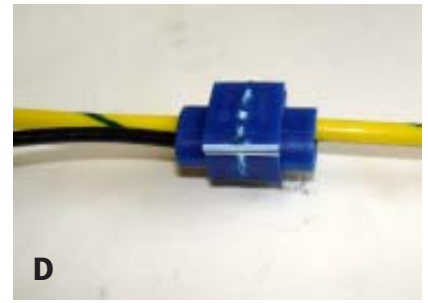
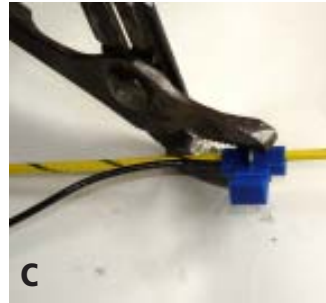
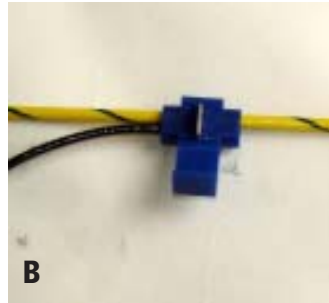
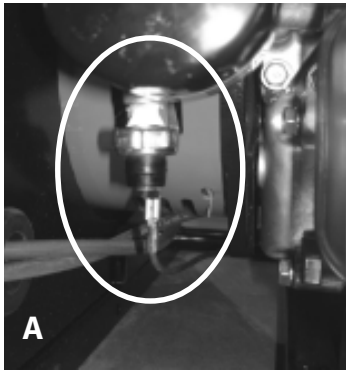
INSTALLING THE HIGH TEMPERATURE SAFETY SWITCH ON YOUR GENERATOR:

1. This device is designed to shut down the generator in case the temperature inside the GenShed shelter exceeds a maximum level. Consult your generator Owner's Manual for the location of the "Oil Level Switch" on your generator. This information is usually found in the Wiring Diagram section of your generator Owner's Manual. The Oil Level Switch is typically found on the engine casting or a casting leading to the oil filter and is threaded to the casting, and has a single wire attached to it. **See photo A** for location of Oil Level Switch (Honda refers to this feature as "Oil Alert" and others may call it "Low Oil Protection").
2. To install the High Temperature Safety Switch (HTSS), use the cable tie to attach the HTSS to the metal frame or handle of the generator nearest and in direct line if possible with the blower fan inside of the GenShed shelter. Then attach the green wire from the HTSS to the Ground terminal on the generator, and attach the other wire from the HTSS to the single wire from the Oil Level Switch using the blue "tap splice" provided. See **Photos B, C and D** for procedure.

NOTE: Some older or inexpensive generators do not contain an Oil Level or Low Oil Switch. If your generator does NOT have an Oil Level Switch, GenTran does not recommend using it with the GenShed shelter. GenTran assumes no responsibility for property damage, injury or accidents resulting from installations when the HTSS is not used.

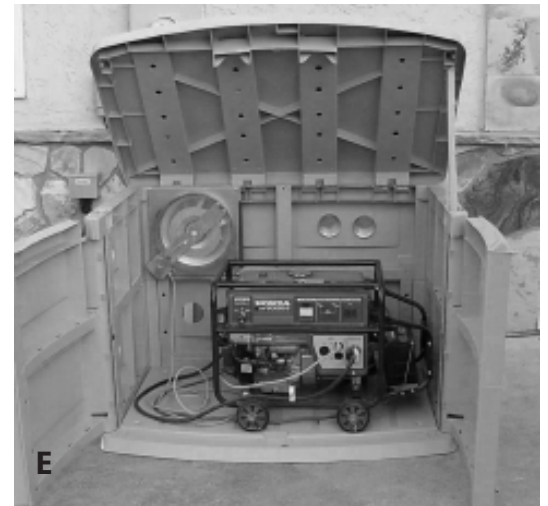


High Temperature Safety Switch



INSTALLING YOUR GENERATOR:

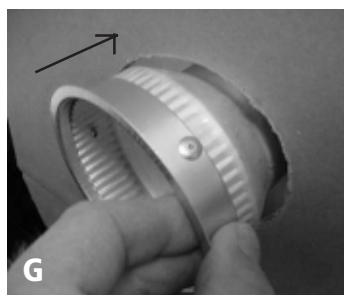
1. Set the generator inside of the GenShed shelter. Locate the generator so that the control panel and/or the starting cord are accessible. The generator should not touch any wall or top of the GenShed shelter. Photo E
2. Reposition the generator, if necessary, to closely align the muffler with one of the louver outlet holes toward the back or side of the shelter. The Magnetic Exhaust System will need to be properly and securely mounted to the generator in the straightest possible line with few or no turns or curves. (Next section refers to the Magnetic Exhaust System.) The generator exhaust muffler must be no less than 11" and no more than 18" from the wall of the GenShed shelter.
3. Confirm that the doors and the lid of the shelter will shut and lock in place with the final location of the generator.



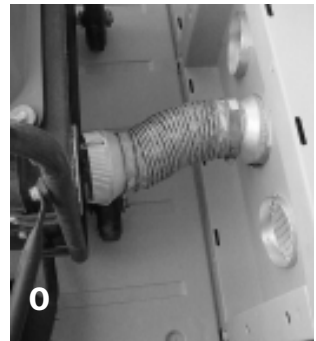
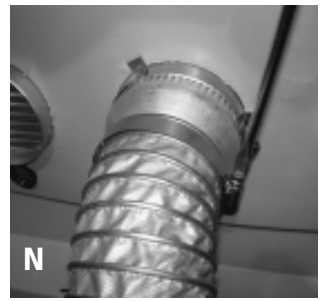
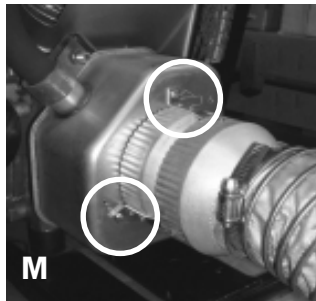
INSTALLING THE EXHAUST SYSTEM:

Each GenShed generator shelter includes a Patent Pending Magnetic/Fixed Venturi Exhaust System which is essential to the proper installation of the shelter with your generator. One of the two exhaust systems **MUST** be employed in order to ensure that the GenShed shelter functions as designed. *There should not be more than 20° bend in the Exhaust System hose on final assembly.*

1. To install the Exhaust System, remove a louver from the location closely aligned with the generator muffler (in the straightest line possible) and set it aside for later use. A light push from the inside of the GenShed will remove the louver; be careful not to bend the louver. Photo F.
2. From the outside of the shelter, insert the outlet cone of the Exhaust System through the hole that the louver had been removed. Photo G.

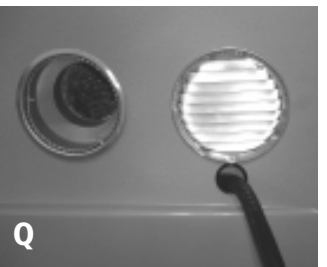


- Slip the retainer clamp with stop clips towards the inner wall over the outlet cone, press assembly tightly together on the wall and tighten the clamp snugly using a screwdriver. Photos H + J.
- Determine if the Magnetic Venturi Exhaust system will properly attach to generator muffler. If so, place the magnet end of the exhaust system over the generator muffler. IT IS IMPERATIVE THAT THE HOLE IN THE CENTER OF THE MAGNET IS DIRECTLY IN FRONT OF THE GENERATOR MUFFLER EXHAUST PIPE AND CENTERED OVER THE MUFFLER PIPE SO THE MAGNET SECURELY HOLDS THE EXHAUST SYSTEM IN PLACE. Photos K + L. See Table I for muffler types that work with the Magnetic exhaust system.
- If the Fixed Venturi Exhaust System is required, loosen pipe clamp holding the Magnetic Exhaust system to hose and replace with Fixed Exhaust System. Then, center Fixed Exhaust over generator muffler opening, pre-drill three (3) holes using 1/16" drill bit, then use self-tapping screws to fasten Fixed Exhaust to muffler. PHoto M.
- Check that the flexible hose is of the proper length. The flexible hose should not be fully collapsed or fully extended when attached to the exhaust outlet cone. The flexible hose can be cut with a wire cutters or pliers and knife if it needs to be shortened.
- After confirming length of the hose is correct, slip the flexible hose over the exhaust outlet cone, slip the 3" clamp over the end and tighten snugly using a screwdriver. Photo N. Check that the flexible hose will not pull off the outlet cone with reasonable force, and that there is no more than a 20 degree bend in the flexible hose. Photo O.



COMPLETE THE WIRING

- From the outside of the GenShed shelter, insert the male end of a generator power cord (sold separately) through the 4" louver hole in the rear of the shelter below the fan. (This hole will also have a connected 1-1/4" slot below below the louver space to accommodate the generator power cord.) If you are installing this with an automatic transfer switch, also insert the control/low voltage wires from the generator to the transfer switch in this slot. Slide the cord(s) down into 1-1/4" slot. Photo P.
- From the outside of the GenShed, insert the black grommet over the wires, clip the ends together and press into the slot.
- From the outside of the GenShed, press the previously removed 4" louver into the 4" hole above the wires. Be sure louver is rotated so that water will run out of GenShed shelter with the words "The Louver Company" on top. Photo Q.
- Connect fan cord to a 120VAC outlet on the generator, and connect the power cord to the proper generator outlet. If the generator will be controlled by an automatic transfer switch, connect the control wires to the generator. Photo R.



TESTING THE GENSHED™ SHELTER

- Confirm the following before starting: Generator is not touching walls of Shelter, exhaust system is properly installed and aligned, blower fan is plugged into generator outlet, power cord is plugged in the generator and High Temperature Safety Switch (HTSS) is connected.
- Start the generator per the instructions in your generator Owner's Manual and/or transfer switch (if using an automatic transfer switch).
- Confirm the generator is stationary and not moving from vibration. Wheel chocks are highly recommended for portable generators in order to maintain the ideal generator location and proper alignment of the exhaust system.
- During test operation, confirm that the blower fan is running. The fan MUST always run while generator is running.
- Close doors and lid, and allow the generator to run for 15 minutes under maximum load.
- After 15 minute test, shut down generator and return to utility power per the generator and transfer switch instructions.
- Confirm that: Generator is still not touching walls of shelter and that exhaust system remained properly installed during operation.
- Close the doors, lower the lid and lock the GenShed™ Shelter. Installation is complete. Photo S.



TABLE I - TYPES OF EXHAUSTS:

Compatible with MAGNETIC EXHAUST SYSTEM:



Compatible with FIXED EXHAUST SYSTEM:



VERIFY THE FOLLOWING PRIOR TO EACH USE:

1. Check that the foundation underneath the GenShed™ Shelter is still level and has not eroded.
2. Check that the Fan Cord is plugged into a 120 volt outlet on the generator. (Recommend to leave plugged in at all times)
3. Check that the Magnetic/Fixed Exhaust System is properly secured to the generator exhaust muffler.
4. Check that combustible, flammable or hazardous materials are not stored in the shed, such as gasoline, oil, paint, aerosols, pesticides, etc
5. Check that no additional items are stored in the shed (preventing proper airflow in the shelter).
6. Ensure louvers and exhaust system are clear of any debris and not covered.
7. Discontinue generator use if shed is damaged in any way.