

Genconnex®

Generator Warranty

These products are warranted for 3 years or 1000hrs hours, whichever comes first, from defects in material and workmanship for its intended use. The Warranty starts from your shipment arrival date from us or one of our approved resellers, and is transferable to subsequent purchasers only in California. We reserve the right to deny warranty claims when, in our sole but reasonable determination conclude that the cause of the primary failure was due to misuse and neglect (including but not limited to flood, sand & debris filled, impact with vehicle or heavy object, etc). This warranty is applicable only to the items purchased.

We disclaim any responsibility for loss of time or use of the product, transportation, commercial loss, or any other incidental or consequential damage. Any implied warranties are limited to the duration of this written limited warranty. We will either repair or replace with like-kind unit, or issue a refund based on the pro-rata remaining term of the warranty period, within 30 days of receipt of the unit or goods. We will pay shipping costs within the continental 48 states to and back from our repair facility if you call first to get a pre-paid shipping label sent to you by us.

Consumer Service Information

We offer out-of-warranty repair service for any units we modify or manufacture at our main factory and at additional authorized dealers provided parts are still available from the original OEM. Please call for details, email us at support@genconnexdirect.net or go to www.genconnexdirect.net to locate a service center near you.

support@genconnexdirect.net

1-800-341-0792

Parts, Service and Support

Factory and Warranty
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Genconnex® Engineered to the next level

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Genconnex®
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Propane & Natural Gas Modified EU2200i

by Genconnex®

Supplement to Honda EU2200i OEM Owner's Manual



Model numbers
GXG LPNG-EU2200i-SA-EC
GXG LPNG-EU2200i-Comp-EC
GXG LPNG-EU2200i-HX-EC
GXG LPNG-EU2200i-Camo-EC

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Honda is a registered trademark of Honda Motor Co., Ltd.

Dear Customer,

Thank you for purchasing a Genconnex® modified Honda generator. We sincerely hope you are satisfied with your purchase for many years.

Before operating your generator, please take a moment to read this entire manual along with the original Honda Owner's Manual. This manual is intended to be a supplement to the original Honda Owner's Manual with regard to operating from alternate fuels. Where different, this manual supersedes the Honda Owner's Manual unless otherwise noted.

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Quick Reference Information

	Propane	Natural Gas	Load
Fuel Usage:	1.80 lbs/hr at	38,000BTU/hr	1800 Watts
	0.92 lbs/hr at	20,000BTU/hr	800 Watts
	0.70 lbs/hr at	15,000BTU/hr	400 Watts
Engine Oil:	SAE 10W-30 Fully Synthetic (approx. 2/5 qt)		
Spark Plug:	NGK: CR5HSB gapped to .024-.028 inches		

Technical Information

How long will a propane tank run my generator?

	20lb/4.7gal (400,000Btu)	30lb/7.0gal (600,000Btu)	2-30lb/14gal (1,200,000Btu)	100lb/25gal (2,000,000Btu)
EU2200i				
1800W average load	12hrs	20hrs	40hrs	76hrs
1200W average load	19hrs	30hrs	60hrs	106hrs
800W average load (eco on)	21hrs	33hrs	67hrs	120hrs
400W average load (eco on)	28hrs	44hrs	88hrs	160hrs

RED means only can use tank/average load combination in weather above 32 deg F or tank won't vaporize propane fast enough to keep up with demand. Propane stops vaporizing at -44Deg F.
Based on lower heating value of Propane C₃H₈ is approx 85,000 Btu/gal @ 90% full tank
Note that tank refill can vary from 75-100% depending on provider.

Understanding pressure regulators

	Pressure	
Propane Tank:	60psi - 120psi+	(too high!)
Red Regulator reduces to:	10-15 psi / 277-330" w.c.	(too high!)
Silver regulator reduces to:	1/2 psi / 7-11" w.c.	(correct)

(psi = pounds per square inch) (w.c. = inches Water Column)

Specifications changes for Bi-Fuel conversion

Engine Oil	Fully synthetic SAE 10W-30
Fuel Options	Propane, Natural Gas
Propane & Nat. Gas Pressure	7-11" water column (approx. 1/2psi)
Spark Plug	CR5HSB (NGK) gap to 0.024-0.028"
Max Output on Natural Gas	1.8 kW (DO NOT LET LOAD EXCEED THIS)

Modification for High Altitude Operation

Please contact your authorized Genconnex® servicing dealer for the correct high altitude fuel orifice kit for operation of your generator at altitudes above 5,000 feet (1,500 meters). This includes propane or natural gas. When installed, this kit will enable your generator to meet emission standards throughout its useful life at the specified altitude. When not operating above 5,000 feet, please make sure to have your generator converted back to prevent overheating and serious engine damage.

4: How to start and STOP your generator from propane or natural gas

1: Set your generator on a hard level surface outdoors such as a driveway or concrete patio at least 5' from any opening in a dwelling (window, door vent etc) but preferably 10 feet.

2a: If using propane tank, place tank at least one foot away from generator making sure it is secured from tipping over and close enough for the propane hose with pressure reducing regulator to reach with a slight slack in the hose (not pulling on fittings). A milk crate is ideal for 20 and 30lb tanks, but taller tanks will need additional securing. Close the valve on the propane tank then attach the propane hose with pressure reducing regulator onto the tank. Connection should be hand tight.

2b: If using propane or natural gas from an outlet, make sure the outdoor shutoff valve is in off position then attach the supplied straight through hose male end into the outdoor female quick disconnect (installed by a licensed plumber after the shutoff valve).

3: Attach the other end of hose with the female quick-disconnect onto the generator's male quick-disconnect found non the top of the generator To do this, fully pull back on the safety shroud of the female quick-disconnect to expose the ring of bearings, push onto male connector then release the shroud to seal. See "Safety Information" section of this supplement for more details.

4. Turn on fuel and prime the generator by pulling up on primer ball for 3 seconds (see ball on top of generator at gas inlet), then pull starter cord to start. If generator mis-starts, prime again then pull again to start. Priming for too long will flood engine. If so, wait a minute then try again.



TO STOP YOUR GENERATOR, we recommend that you disconnect the load first then turn off the gas supply (shutoff valve or tank valve). This is a best practice so your Propane or Natural gas line does not stay under pressure to minimize potential accidents.

Troubleshooting

Generator won't start, wont stay running or runs very poorly

1. Make sure the generator's run switch is set to on.
2. Check that quick disconnect from hose to unit is fully seated and locked.
3. Check that propane tank hose connection is fully screwed on and tight.
4. Turn your propane tank off then back on slowly to check/reset tank internal valve.
5. Check that your air cleaner element is not flooded with oil. This can happen if your generator tips over. If it is, squeeze filter between paper towels, then properly dispose of oily paper towels. (oily rags can spontaneously combust in garbage or in pile - hang until dry, then soak with water and detergent before discarding)
6. Check that your tank isn't empty, or near empty.
7. If your propane tank tipped over, the tank valve may freeze up. Return tank to upright position and let it sit for a while without use to let valve thaw and/or drain.
8. Listen for slight "hissing" sound before starting when pulling up on round ball on top of inlet (to let you know fuel is flowing through tank and regulator)
9. Observe lights on front of generator panel to help diagnose problems.

Safety Information

NOTICE:

This section is intended to augment safety information in the original Honda OEM manual and not supersede it.

You must read the Honda Owner's Manual

WARNING:

Failure to follow instructions may result in explosion or fire causing property damage, serious injury or death.

DO NOT attempt to use damaged (including but not limited to kinked, cut, chewed or plugged) equipment and hoses. See your local LP or Natural Gas dealer for repairs.

DO NOT attempt to make repairs yourself

DO NOT connect to non-approved tanks or systems

DO NOT use an open flame to check for gas leaks

DO NOT perform your own gas pipe installation or repair without a proper license

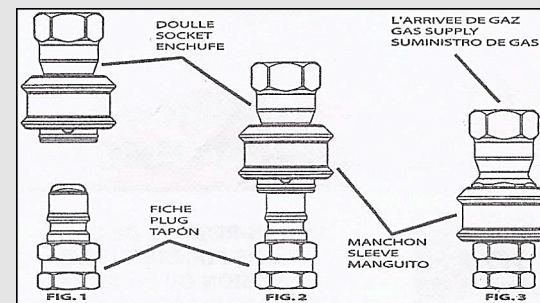
DO NOT let fuel hose/regulator or tank come in direct contact with exhaust pipe

DO NOT make any alterations or modifications to any natural gas or propane supply. You must use a licensed gas fitter/plumber and follow all state and local codes.

PROPANE & NATURAL GAS QUICK-DISCONNECT FITTINGS

CAUTION

Quick-disconnect devices are to be installed by a gas service technician only. Install according to local codes or NFPA 54 (ANSI Z223.1) National Fuel Gas Code.



ANSI Z21.41 Quick-Disconnect Devices Installation & Operation Instructions

- 1) Push back sleeve of socket (fig. 1), insert plug (fig. 2), and release sleeve.
- 2) Push plug until sleeve snaps forward locking plug in socket (fig. 3) (This turns on the gas automatically if valve is is on and tank is connected)
- 3) Leak test with leak test solution

GENERAL TANK SIZING GUIDELINES

per generator output rating

(assuming 1/2-3/4 average rated load)

> 10 Deg F	10 to -10 Deg F	-10 to -20 Deg F
2kW 20lb tank,	2kW 30lb tank	2kW 40lb tank
3kW 30lb tank,	3kW 40lb tank	3kW 60lb tank
7kW 60lb-100lb tank or dual 30lb	7kW 100lb tank or dual 40lb tanks	7kW Dual 60 to 100lb tanks

Quick Tips

1. PRIME FOR ONLY 3 SECONDS (only for propane and natural gas) by gently pressing the button labeled 'Primer' on the demand regulator. Over-priming will flood the engine preventing starting.
2. TURN PROPANE TANK ON SLOWLY to prevent EXCESS FLOW VALVE from activating inside propane tank. To reset it, turn tank off, unscrew and re-connect regulator then turn tank on slower.
3. The 'Choke' is not used for propane or natural gas fuels.
4. NEVER store propane tanks in your home or garage.
5. We recommend that you always put the caps back over the quick-disconnects immediately after use to prevent contamination or water from entering the unit.
6. We recommend ECO mode only if your load will not be fluctuating greatly. This prevents a brown-out and possible damage to your equipment as the generator tries to quickly increase RPM's to handle the sudden change.
7. DO NOT operate any generator inside your home, garage, or place of business to prevent death from Carbon Monoxide inhalation. It must be used outdoors at all times with all nearby doors and windows closed.
8. DO NOT operate any generator within 5 feet of any window, door or other opening per The National Fire Code, and it is highly recommend that it be at a minimum distance of 10 feet.
9. To shut off your generator when running on propane or natural gas, we recommend that do so by turning off the propane tank or fuel supply valve to prevent accidents.

Use & Operating Instructions

NOTE: SEE HONDA MANUAL TO OPERATE FROM GASOLINE

OPERATION ON PROPANE OR NATURAL GAS

1: First turn the generator run switch to "ON"

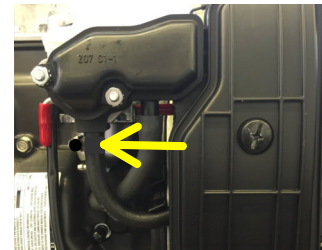
This lever does not effect the propane flow but does allow the spark plug to fire when in the ON position.

Note: switch in picture is in "OFF" position.



2: Install the correct fuel orifice for your fuel or operating above 5,000 ft

Your generator has been pre-configured to run from propane but you may instead configure it to operate from natural gas or on propane at a high altitude (above 5,000ft). To do so, you will need to change the fuel orifice located in the brass fitting attached to the fuel line shown circled below.



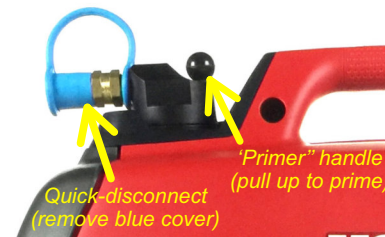
To change fuel orifices, first pull the fuel line down and off of the brass injector fitting. Using the supplied allen wrench, unscrew the fuel orifice installed in the end of the brass fitting and install the correct fuel orifice. This is also how and where to install the alternate 'High-Altitude Orifice' if needed for over 5000ft. Re-apply the fuel tube fully onto the brass injector.

NOTE: The natural gas orifice has the larger hole in it.

CAUTION: You MUST use a licensed plumber or gas fitter to add a shutoff and quick-disconnect gas outlet to your home's propane tank!



3: Connect your generator using the correct hose

DO NOT connect your generator directly to a propane tank without the proper regulator or to an intermediate 10-15psi regulator often found on large tanks. Your generator comes pre-set from the factory to run from low pressure propane at 7-11" w.c. equivalent to approx. 1/2psi standard household pressure.



Propane and Natural gas inlet location.
Remove protective cap for access

Typical hose options

 <p>Propane hose with pressure reducing regulator for connecting to 20-100lb propane tank</p>	 <p>Low pressure propane & natural gas straight-through hose for connecting to low pressure outlet</p>
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