



Fischer Panda Generator

REGISTRATION FORM

LIMITED WARRANTY

FOR FISCHER PANDA GENERATORS

U. S. A. APPLICATION

This Registration Form officially entitles the owner to the Limited Warranty for FISCHER PANDA GENERATORS. No other warranties, expressed or implied are valid for FISCHER PANDA GENERATORS. This Registration Form must be completed by the owner of the product and mailed to:

FISCHER PANDA GENERATORS, INC. - USA Office, 4345 NE 12 Terrace, Oakland Park, Florida 33334.

PRODUCT INFORMATION

Generator Model: PANDA _____ Generator Serial Number _____

kW: _____ VOLTS: _____ / _____ Hz: _____

WARRANTY INFORMATION

Boat Retail Purchase Date _____ (Retain copy of bill of sale to verify start date)

Boat Manufacturer _____

Boat Hull Number _____ Boat Name _____

Boat Type: _____ Length: _____ m/ft. Weight: _____ KG/LBS.

PURCHASER INFORMATION

Owner's Name _____

Owner's Address _____

Tel: _____ Fax: _____

Owner has reviewed required daily start-up checks, periodic inspection and maintenance checklists and need to keep all maintenance records.

Owner's Signature: _____ Date: _____

4345 NE 12 Terrace, Oakland Park, Florida 33334

Toll free (800) 508-6494 - Phone (954) 462-2800 - Fax (954) 462-2801

E-Mail: sevice@fischerpanda.com -Web Site: www.fischerpanda.com

E-Mail: tech@fischerpanda.com Web Site: www.fischerpanda.com



INSTALLATION INSPECTION FOR FISCHER PANDA MARINE GENERATORS

The inspection work must be carried through by a qualified technician / electrician before operating the Generator, and must confirm to all required national and regional electrical safety standards (grounding, circuit breakers, etc.). The electrical cables provided are intended only for provisional installation, as far they are not accepted by regulations. The following inspection checklist must be filled out completely by installer and one copy must stay with the generator and one copy should be mailed or faxed to Fischer Panda Generators, Inc.

Dealer / address: _____

Tel./Fax.: _____

Purchase date: _____

Installation date: _____ at: _____

Date of first operation: _____ Installed by: _____

Remarks: _____

1.	Check oil level	
2.	Check all sensors & switches	
	• Cooling water	
	• Exhaust	
	• Oil pressure	
	• Adjustment of fuel solenoid	
3.	Check all screws on engine, especially:	
	• Base mounting screws	
	• Fuel solenoid retention screws	
	• Injector retention screws	
	• Battery charging alternator mounting screws and belt's tension	
	• Exhaust manifold screws	
	• Starter motor mounting screws	
	• Connection screws generator / engine	
	• Generator end plate (bearing support) screws	

Measures of Electric Functions

Idle run voltage: _____ Volt. _____ Hz.

Current & Voltage under load: _____ Amp. _____ Volt. _____ Hz.

Installed by: _____

Address: _____

Date: _____ Print name and signature of technician: _____



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INSTALLATION PROTOCOL FOR FISCHER PANDA MARINE GENERATORS

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Installation Data

Position of generator: _____ inch above under Waterline

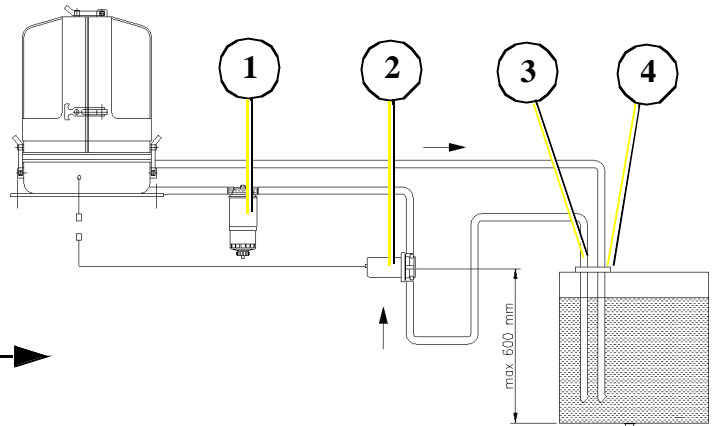
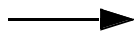
Installation location: bow-section centersection after-section

Fuel System Installation Data

1. Pre-filter with waterseparator *)
2. Electric fuel pump
3. Fuel suction connection *)
4. Fuel return line *)

*) not supplied with standard generator.

Please mark items not installed with „X“



Rise / drop between Generator and fuel tank bottom: _____ mm / inch

Tank is mounted above Generator below Generator

Fuel line to Generator total length _____ m / ft. Diameter = _____ mm / inch

Fuel return line total length _____ m / ft. Diameter = _____ mm / inch

Fuel fine filter fitted yes no Electrical fuel pump fitted yes no

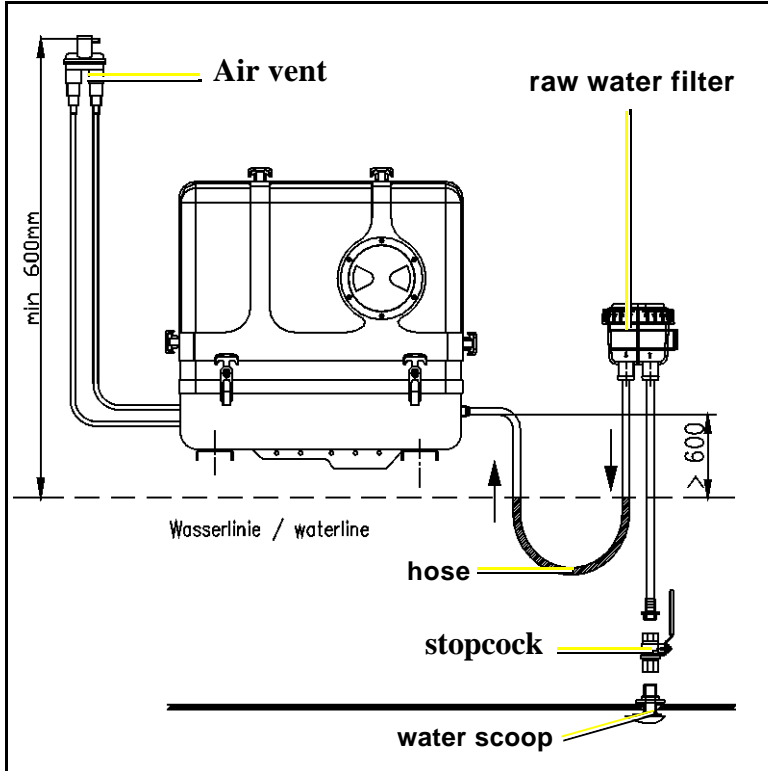
Own starter battery yes _____ Ah no

Length of battery cable total length _____ m / ft. Diameter = _____ mm / inch

Position of remote panel _____

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Measurement of Water Cooling Supply



Not contained in the scope of supply of a standard generator.

Water scoop $\varnothing =$ _____ mm

Sea cock $\varnothing =$ _____ mm

water strainer $\varnothing =$ _____ mm

Water hose $\varnothing =$ _____ mm

length of intake line _____ m

Cooling water flow rate while in use:
_____ ltr/min

Type of cooling water pump:

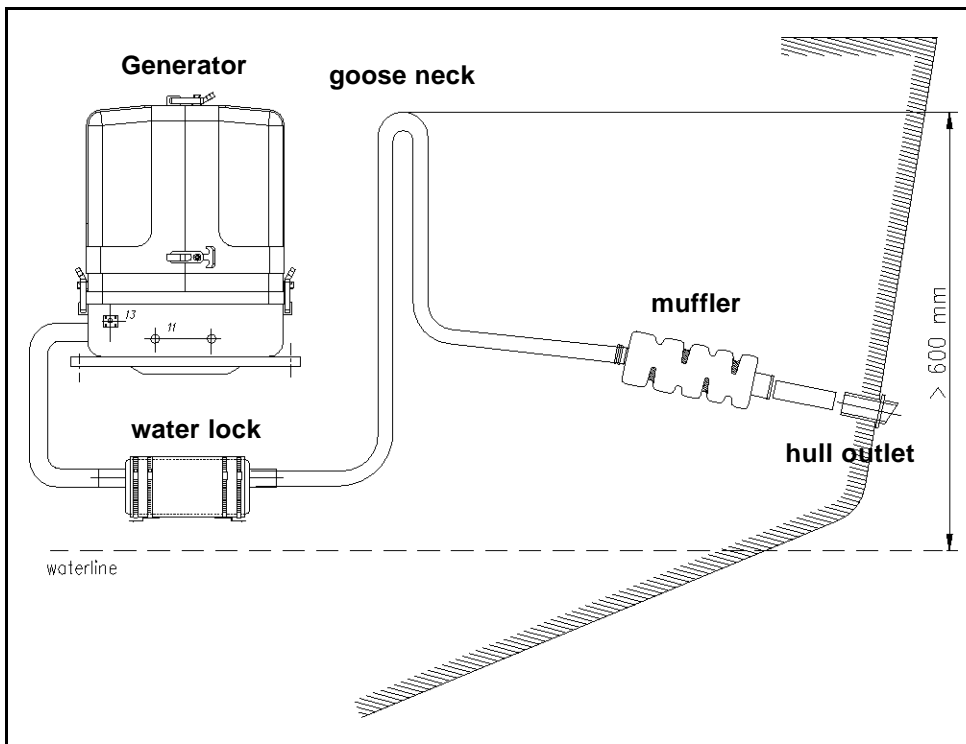
Direct driven impeller pump

other _____

Air vent on pressure side of waterpump no

yes _____ inch above the water line

measurements of the exhaust system



Water lock
Brand: _____

Volume: _____ litres

Exhaust to waterlock

tube length: _____ mm

int. \varnothing : _____ mm

Exhaust from Waterlock
to hull-outlet:

tube length: _____ mm

int. \varnothing : _____ mm

Height goose-neck over
waterline

_____ mm



Fischer Panda Generator

CHECKLIST FOR AFTER THE FIRST 35 HOURS OF PANDA GENERATOR OPERATION

The service inspection must be carried out by a qualified technician and the check list completed as indicated. Upon completion copy of this checklist must be sent to:

FISCHER PANDA GENERATORS INC., 4345 NE 12 Terrace, Oakland Park, Florida 33334

Generatortype: PANDA _____	Serial no.: _____
kW: _____ Volt: _____	Hz: _____
customer name: _____	Boat Name: _____

Place / Date of inspection _____	Name Technician: _____
Inspection company (First 35 hours): _____	
Address: _____	
Phone _____	Fax: _____
Date: _____	Signature: _____

1.	Change motor oil	
2.	Change oil filter	
3.	Check fine particle fuel filter	
4.	Empty waterseparator from pre-fuel filter	
5.	Readjust valve clearance	
6.	Replace the valve cover gasket	
7.	Check all sensors & switches	
	• Coolant temperature sensor	
	• Exhaust temperature sensor	
	• Oil pressure sensor	
8.	Check all generator & engine screws for tightness	
	• Unit's base mount screws	
	• Fuel solinoid shut-off valve	
	• Generator end plate (bearing support) screws	
	• Dynamo (alternator) mounting screws and belt's tension	
	• Exhaust manifold screws	
	• Starter motor mounting screws	
	• Connection screws generator / engine	
9.	Check electrical cables	
10.	Check Starter Battery	
11.	Check fuel system with electrical fuel pump	
12.	Check and cleen air intake manifold suction system	
13.	Check coolant and water hoses / Change coolant one time per year	
14.	Check raw water pump, impeller, water flow rate liter/gallon per minute:	
15.	Idle run voltage Volt:	
16.	Voltage under full load Volt:	
17.	Current under full load Ampere:	
18.	Engine speed (rpm) no load Hz:	



MARINE GENERATOR - 5 YEAR LIMITED WARRANTY

(effective 16th, April 2003)

WARRANTY

Your Fischer Panda Generator has been manufactured and inspected with care by experienced craftsman. Fischer Panda warrants that the products and their parts will be free from defects in materials, design and workmanship from their original date of purchase through the coverage periods listed below. Repair, replacement or appropriate adjustment at Fischer Panda Generators option will be furnished if the product, upon Fischer Panda Generators inspection, is found to be properly installed, maintained and operated in accordance with Fischer Panda Generator instruction manuals. End user must complete registration form and return to Fischer Panda for warranty coverage.

Warranty begins on all components from date of purchase by the original owner.

Note: The serial number of your generator must be submitted with all warranty claims.

A. PRODUCTS COVERED

Fischer Panda Marine Generators in pleasure craft.

The warranty coverage differentiates between the engine, the electrical alternator and the alternator rotor.

The engine includes the base engine assembly, the heat exchanger, the cooling system, engine electrical harness, heat switches, electrical relays, engine DC alternator, engine control system including actuator motor and VCS control board.

The electrical alternator includes the alternator stator and rotor bearing.

B. PERIODS AND EXTENT OF COVERAGE

Engine: 3 years or 1800 hours (whichever occurs first) from the date of purchase by original owner, transferable to subsequent buyers of the original vessel in which it was installed.

Year 1	Parts, Labor & Mileage
Year 2	Parts only (shipping within US & Canada only)
Year 3	50% of Parts only (shipping within US & Canada only)

Electrical: 5 years or 1800 hours (whichever occurs first) from the date of purchase by original owner, transferable to subsequent buyers of the original vessel in which it was installed.

Year 1-3	Parts, Labor & Mileage
Year 4	Parts only (shipping within US & Canada only)
Year 5	50% of Parts only (shipping US & Canada only)

Rotor:

Lifetime	Parts and Labor
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NOTE: GENERATORS ON PLEASURE CRAFT THAT ARE ENGAGED IN COMMERCIAL, RENTAL OR LEASED ACTIVITIES ARE SUBJECT TO THE FOLLOWING COMMERCIAL WARRANTY:

The commercial warranty is one year or 1800 hours (whichever occurs first) on generator including engine, electrical alternator and rotor. Note: Commercial warranty applies to generators used in any vessel that provides direct income to the vessel's owner.

C. GENERAL LIMITATIONS AND EXCLUSIONS

The following **will not be** covered by warranty:

1. Failure resulting from incorrect installation.
2. Damage caused by water ingestion. A generator is considered to have ingested water when water backs up from the exhaust outlet into the engine cylinder head. This generally occurs when incorrect operating start procedures are implemented (engine is repeatedly cranked, but fails to start), or if the generator is not installed according to the requirements outlined in the installation manual.
3. Normal engine/generator wear.
4. Routine maintenance, tune-ups, belts, hoses, clamps, filters, exhaust system components, gaskets, seals, anodes & impellers.
5. Damage caused by accidents, damage in transit, improper installation, handling or storage.
6. Damage caused by faulty repairs.
7. Damage caused by operating with improper fuel or at speeds, loads, conditions, modifications or installation contrary to published specifications and recommendations.
8. Starting batteries and the following related expenses:
 - Labor charges related to battery service.
 - Travel expense related to battery service.
9. Incidental expenses such as cost of communications, living and travel expenses, equipment rental, towing charges, dockage, crane fees, crew fees and other similar services.
10. Generator repairs undertaken by an unauthorized Fischer Panda Dealer and/or without prior approval from Fischer Panda Generators.
11. Damage caused by negligent maintenance including but not restricted to:
 - Failure to provide the specified type and sufficient quantity of lubricating oil, cooling air or coolant.
 - Failure to perform scheduled maintenance as prescribed in supplied manuals.
 - Failure to provide adequate air intake and or maintenance of air intake systems.
12. Use of other than factory supplied or approved repair parts and/or procedures voids Fischer Panda warranty on this part and/or failures caused by this part.
13. Expenses incurred investigating performance complaints unless the problem is caused by defective Fischer Panda materials and workmanship.

D. EXPENSE COVERAGE LIMITATIONS

1. Labor expense coverage is limited to the labor time allotted for the applicable service. Fischer Panda Generators will confirm the applicable labor and time rate during the warranty approval process.
2. Travel mileage expense coverage is limited to a total of 150 miles at the Fischer Panda approved mileage rate in effect. Labor time coverage relating to travel is limited to a total of two and one half hours.
3. Transportation expense coverage is limited to standard methods of transportation such as truck, sea, rail, UPS and parcel post. Premium transportation, such as air freight, is not covered.
4. Removal and re-installation labor time expense coverage is limited to a maximum of four [4] hours for the Panda 4 to Panda 10, eight [8] hours for the Panda 12 to the Panda 25, and ten [10] hours for Panda generators above 25kw. These time limitations do not include labor time associated with difficult access to the product or preparation tasks, such as moving furniture and carpets, all of which are expressly excluded from coverage.
5. Any parts replaced under this warranty are warranted only from the original date of purchase of the warranted product of which they are a part.



E. PRODUCT REGISTRATION

In order to activate the warranty, Fischer Panda requires that the original owner complete and return to Fischer Panda the registration card provided with this product. Upon Fischer Panda's receipt of the registration form, Fischer Panda will send the owner a customer identification card, the use of which will be required for the processing of any warranty service matters in the future. Warranty coverage for a subsequent owner requires that such owner applies for a customer identification card by contacting Fischer Panda Generators, 4345 NE 12 Terrace, Oakland Park, Florida 33334.

F. WARRANTY SERVICE PROCEDURES AND REMEDIES

Factory authorization is required for all repairs in excess of \$200.00. Fischer Panda Generators must be notified within 30 days after discovery of any product failure covered by this warranty. All warranty service must be performed by an authorized service representative referred by Fischer Panda Generators.

Contact our service department at:

Phone 800-508-6494 or 954-462-2800.

Fax: 954-462-2801

e-mail: service@fischerpanda.com.

Mail: 4345 N.E Terrace, Oakland Park
Florida 33334

Full documentation must accompany all warranty claims. If authorization is required, the Fischer Panda dealer must contact Fischer Panda Generators for authorization. Charges must be as per the limitations detailed above. The following information must be provided for warranty authorization.

1. Unit serial number: This is required in order to process a warranty claim. The serial number of your generator can be found on your generator on the service side to the left of the terminal strip on the generator housing, the edge of the capsule and on the inside cover of user's manual.
2. Commission date and operating hours
3. Description of the failure and repairs needed
4. Make of vessel
5. Estimated hours to do the repair, including travel time

Upon receipt of the required information, written authorization and an authorization number will be faxed to the dealer. **DO NOT** proceed with repairs until Fischer Panda Generators receives the above information on a service report. The authorization number must be referenced on the warranty claim when submitted.

This is our exclusive warranty. We make no other express warranty nor is anyone authorized to make any on our behalf. Any implied or statutory warranties including any warranty or merchantability or fitness of purpose is expressly limited to the duration of this warranty.

Some States do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above may not apply to you.

For Answers to Questions

Fischer Panda Generators

4345 NE 12 Terrace, Oakland Park,
Florida 33334

Tel: 800-508-6494 or 954-462-2800

Fax: 954-462-2801

sales@fischerpanda.com www.fischerpanda.com

Inspections for Panda Generators

The inspections must be done by a qualified technician according to the categories A, C, E, F, G of the checklist. This form must remain with the generator. In the event of manufacturer's defects, a copy of this form has to be sent to the manufacturer in order to validate the warranty.

	Inspection required at:	Inspection Category:	Hours on elapsed hours meter	Inspected by:	Date:	*) Seal, stamp & full address of responsible inspection firm (only necessary for categories A, C, E, F, G)
01	0 h	A				*)
02	35 - 50 h	C				*)
03	100 h	D				
04	200 h	D				
05	300 h	D				
06	400 h	D				
07	500 h	E				*)
08	600 h	D				
09	700 h	D				
10	800 h	D				
11	900 H	D				
12	1.000 h	F				*)
09	1.100 h	D				
10	1.200 h	D				
11	1.300 h	D				
12	1.400 h	D				



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	Inspection required at:	Inspection Category:	Hours on elapsed hours meter	Inspected by:	Date:	*) Seal, stamp & full address of responsible inspection firm (only necessary for categories A, C, E, F, G)
13	1.500 h	E				*)
14	1.600 h	D				
15	1.700 h	D				
16	1.800 h	D				
17	1.900 h	D				
18	2.000 h	F				*)
19	2.100 h	D				
20	2.200 h	D				
21	2.300 h	D				
22	2.400 h	D				
23	2.500 h	E				*)
24	2.600 h	D				
25	2.700 h	D				
26	2.800 h	D				
27	2.900 h	D				
28	3.000 h	F				*)
29	3.100 h	D				
30	3.200 h	D				



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	Inspection required at:	Inspection Category:	Hours on elapsed hours meter	Inspected by:	Date:	*) Seal, stamp & full address of responsible inspection firm (only necessary for categories A, C, E, F, G)
31	3.300 h	D				
32	3.400 h	D				
33	3.500 h	E				*)
34	3.600 h	D				
35	3.700 h	D				
36	3.800 h	D				
37	3.900 h	D				
38	4.000 h	F				*)
39	4.100 h	D				
40	4.200 h	D				
41	4.300 h	D				
42	4.400 h	D				
43	4.500 h	E				*)
44	4.600 h	D				
45	4.700 h	D				
46	4.800 h	D				
47	4.900 h	D				
48	5.000 h	G				*)