

Ampair Pacific 100

Owners Manual Installation & Maintenance

INDEX	Page	FINAL ASSEMBLY	9
SAFETY:		OPERATION & PERFORMANCE	9
Read before assembling or using	1	Starting & Stopping	9
Assembly	1	Performance	9
Mounting	1	Smooth Running	9
Electrical	1/2	COMPONENT PARTS DRAWING	10
SYSTEM DESCRIPTION		MAINTENANCE & SPARES	
Introduction	2	Key to Component Parts Drawing	10/11
The Generator	2	DIMENSIONS	11
PACKING LIST:		Inspection	12
Pre-installation check	3	Major Disassembly	12
INSTALLATION		Pivot Section	12
Choice of Mounting Position	4	Electrical Section	13
Hawk 2 Land Based (House/Cabin)	4	Electrical Fault Finding Tips	13
Boat Based	5	Alternator Section	14
Stern Mount	5	Stator/Rotor replacement	14
Mounting Drawings	3-6	RECOMMENDED SPARES	14
Mizzen Bracket	6	WARRANTY	14
ELECTRICAL INSTALLATION		SERVICING & REPAIRS ADDRESS	14
Charge Control Regulator	7		
Regulator Wiring Diagrams	8		

AMPAIR PACIFIC 100 SAFETY

Read before assembling or using

Note. Do not assemble the generator, vane and turbine until the electrical installation is complete.

ASSEMBLY

Fit the tail vane first.

If you fit the wind turbine first, the machine will turn out of control & be a danger to approach.

MOUNTING

Very careful attention must be given to the strength and integrity of the mounting.

This should be capable of withstanding a peak horizontal load of 120kg (250lbs).

Note. The mounting pole should be vertical. The space between the blade tips and the mounting pole must be left clear. i.e. no clamps or other items should diminish this clearance. The pole base should have a rigid mounting. (The mounting should not rest on a resonant surface such as the centre of a cabin roof since this may transmit any vibration making the machine audible inside).

ELECTRICAL

It is important to fit a fuse. The fuse should be next to the battery terminal since, in the event of a fault or damage to the cable, the battery will supply the fault current.

CORRECT POLARITY

When wiring the system be aware that if the Pacific is connected to the wrong battery terminals, giving REVERSE POLARITY the output rectifiers may be destroyed or the internal soldered connections to the brush holders may melt.

Check and double-check polarity before final connection.

CABLE COLOURS

BROWN = (+) Positive. BLUE = (-) Negative.

CHARGE CONNECTION POINT

The Pacific Output must go straight to the batteries. If the Pacific is connected on the DOWNSTREAM (loads side) of the battery isolator switch, it leaves scope for damage to electrical equipment.

Under these conditions it is possible to run the Pacific whilst the battery is isolated. This can subject the system to excess voltage. Take care when disconnecting the Generator in a high wind as the terminal voltage is enough to give a mild electric shock.

