

Hobby Oil Free Series: LEONARDO



User Guide

Dear Customer,

Thank you for choosing Pilot Air.

In order to get the best performance out of this product, please read this manual carefully.

To avoid incorrect operation of the equipment and possible physical risk to the operator, please read and strictly follow the instructions contained in this manual.

Note, these instructions are in addition to the safety rules that apply in the country where the air compressor is installed.

Before packing for shipment, each machine undergoes a rigorous test to ensure the absence of any manufacturing faults and to demonstrate that the device can perform all the functions for which it has been designed.

This manual must be maintained available in any moment for future references and it has to be intended as inherent part of the relevant machine.

Due to the continuous technical evolution, we reserve the right to introduce any necessary change without giving previous notice.

Should you experience any trouble, or for further information, please do not hesitate to contact us.

Best Regards,



PILOT AIR COMPRESSORS

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GB

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INTRODUCTION

This instruction manual has been written to simplify the use and maintenance of the compressor. Strict attention should be paid to the contents of this manual to ensure a correct and economical operation of the compressor.

The "WARNING" indications underline those operations which, if not carried out correctly, could cause damage to people or objects. We strongly recommend the use of original spare parts which will guarantee the efficiency and service life of the compressor.

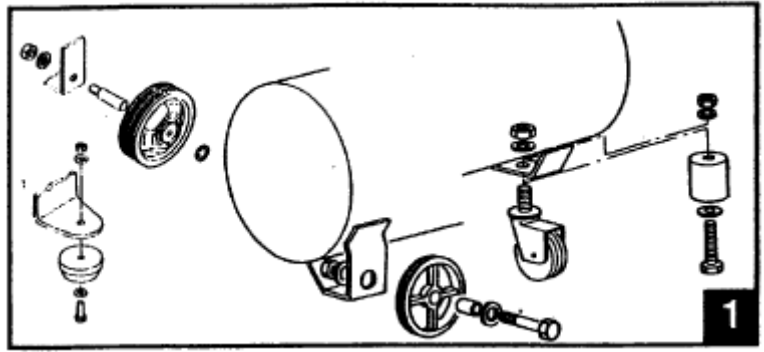
INSTALLATION

Place the compressor in a well ventilated area away from atmospheric agents.

INSTRUCTIONS FOR USE

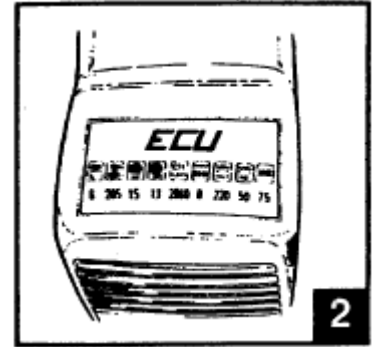
After removing the compressor from its packaging and having ascertained that it is in perfect condition, carry out the following operations:

- Fit the wheels and rubber washer on the tanks where they are not installed (Fig. 1).
- The three-phase compressors are supplied with cables without plug. Connect ari "EEC 252" 16A 3-pin plug + earth to the pressure switch outlet cable.

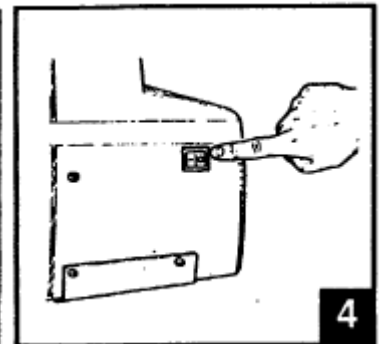
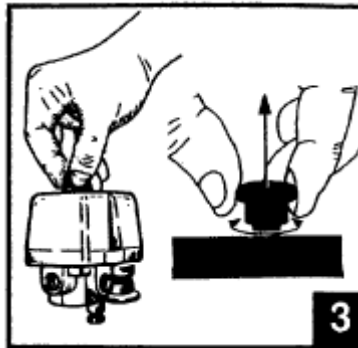


START UP

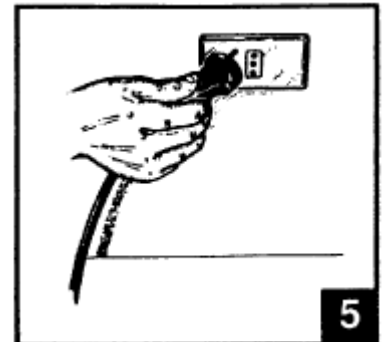
Check that the tension corresponds to the indication on the plate with the electrical data (fig.2), tolerance must be not more than + 5%:



Turn the knob of the pressure switch to "0" (fig.3) for the models with air receivers; turn the switch to "0" (fig. 4) for models without air receivers.



Insert the plug into the socket (fig.5) and start the compressor by turning the knob of the pressure switch, or switch to "1".



The operation of the compressor is completely automatic and is controlled by the pressure switch which stops it when the pressure in the air receiver reaches the maximum level and re-starts it when it goes down to the minimum level; if an extension is required for the infeed cable, it should have a cross-section for the wires in proportion to its length.

Valid section for a maximum length of 20 mt

HP	50 Hz	60 Hz
1	1.5mm*	2,5 mm'
1.5	2.5mm	4 mm'

CAUTION

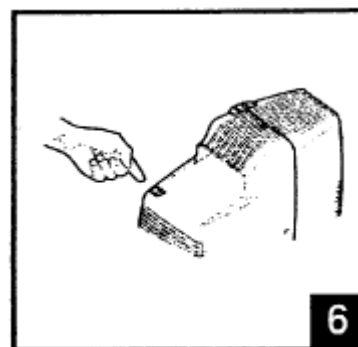
Electric compressors must be connected to a power socket protected by an adequate differential switch (thermomagnetic).

The motor of the compressor is fitted with a thermal protection inside-the wrap, which stops the compressor when the temperature is too high.

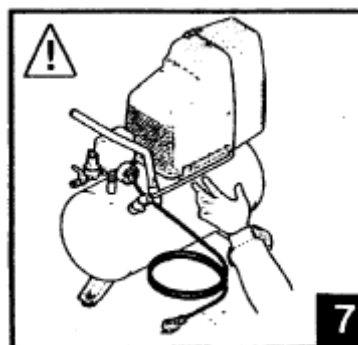
Should this be tripped, the compressor will re-start automatically after 15-20 minutes.

The motors of the compressor models "SEV-CSA" are fitted with an automatic amperometric thermal switch with manual reset, located outside on the housing.

When the thermal switch is tripped, wait a few minutes before manually resetting the switch (fig. 6).



After connecting the compressor to the air line, run a load at the maximum pressure and make sure the machine functions correctly. The feed pipe unit can reach high temperatures. Do not touch these parts when working in their proximity in order to avoid burns (fig. 7).



Before starting work, leave the compressor on for several minutes with the air valve completely open. After the first 5 hours of operation, check that the screws of the head and motor fairing are tight.

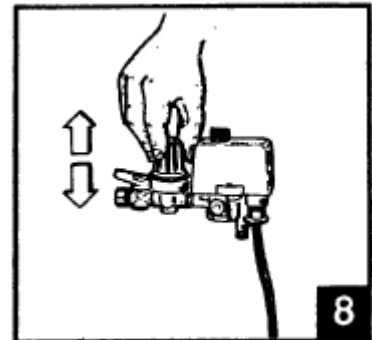
On start-up in compressors running on three-phase voltage, make sure the cooling fan turns in the right direction (shown by the arrow on the motor casing). The same precautions should be taken with compressors having a 60-Hz power supply.

ADJUSTMENT OF WORKING PRESSURE

Compressors with air receivers:

Unblock the knob of the pressure reducer by pulling it up, adjust the pressure to the required level by turning the knob clockwise to increase it and anti-clockwise to decrease it.

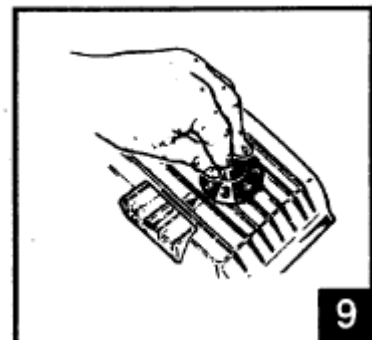
When the required pressure is reached, block the knob by pushing it firmly down (fig.8).



Compressors without air receivers:

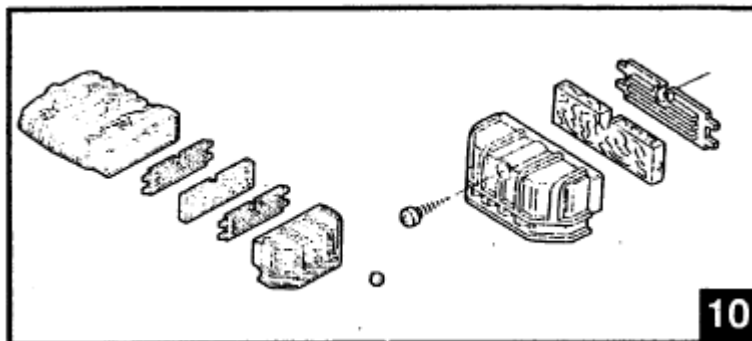
Rotate the knob until the indication of the pressure required is level with the arrow on the housing.

Turn it clockwise to increase the pressure and anti-clockwise to decrease it (fig. 9).

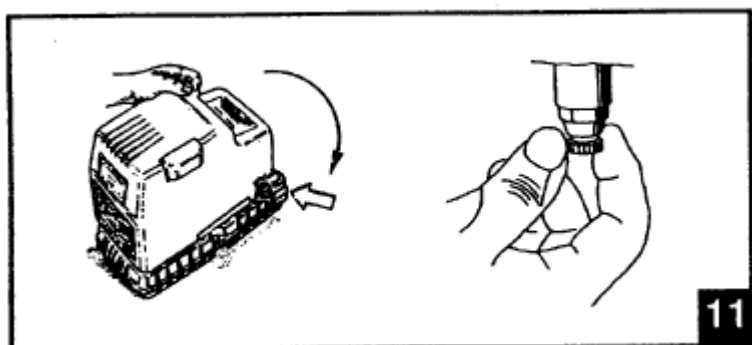


MAINTENANCE

Every 50 working hours, remove the intake filter and clean the filter element with compressed air (fig. 10).



Release the condensate from the air receiver at least once a week by opening the discharge tap (fig. 11).

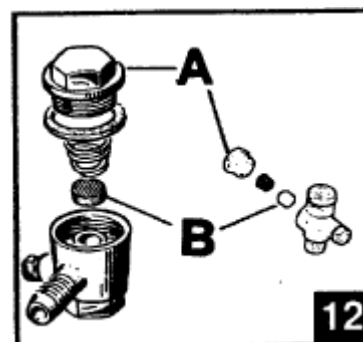


HOW TO FIX SMALL ERRORS

Air leaks from the pressure switch valve: this is caused by a poor seal on the stop valve.

How to fix it (fig. 12):

- Empty the tank completely.
- Unscrew the hexagonal head of the valve (A).
- Clean both the rubber disk (B) and its housing thoroughly.
- Re-assemble the unit carefully.

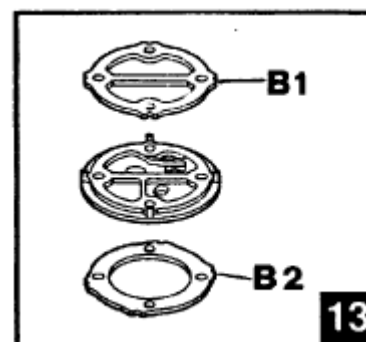


Air leaks

These may be caused by a poor seal on some fittings.

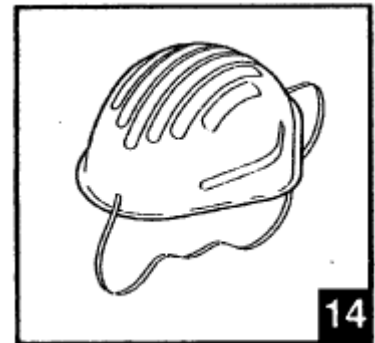
Check all fittings by wetting them with soapy water. The compressor runs but doesn't load

Valves (fig. 13) or a seal B1 B2) broken. Replace the damaged part.



WARNING

- Avoid at all costs, unscrewing any joints with the air receiver under pressure-always ensure that the air receiver is empty;
- Never open the air receiver without first emptying it of all the air;
- Do not work on the compressor without first unplugging the unit from the electrical socket.
- Ambient working temperature 0° + 35 °C;
- Do not point water or other inflammable liquids, towards the compressor;
- Do not place flammable objects near the compressor.
- Turn switch or pressure switch to the"OFF"position when not in use.
- Never direct the air nozzle at persons or animals.
- Do not transport the compressor with the tank under pressure.
- Keep children and animals away from the area where machine is operating.
- If compressor is used for painting:
 1. Do not operate in closed spaces or in the proximity of naked flames.
 2. Ensure that the room where you are working has a sufficient change of air.
 3. Use a mask to protect nose andmouth(Fig.14).



- To connect any pneumatic tool to a compressor without an air receiver use a rubber, heat resistant hose. This special hose should only be ordered as a spare part from the supplier.
- After using the compressor, always disconnect the plug from the electrical outlet.
- Compressor not for use on building sites. Maximum working pressure 8.5 bar Maximum utilization pressure 8 bar
- For the European market, compressor tanks are built in accordance with EC Directive 87/404
- Compressors for the European market are built in conformity with Directive 89/392/EC (Machine Directive) and subsequent modifications.
- Free field noise level at 1 m distance + 3 dB (A at maximum running pressure.

HP	QPM	dB(A)
1	1400-1700	65
1.5	2800	77
1.5	3450	80

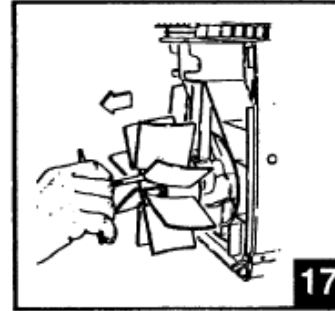
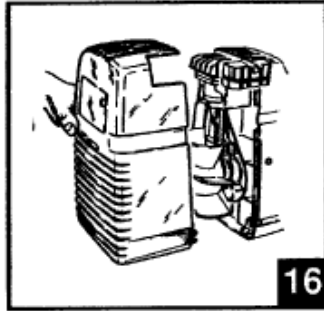
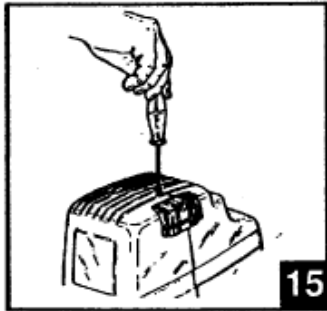
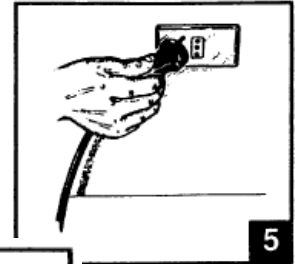
- The sound level value may increase by 1 to 10 dB(A) depending on the area where the compressor is installed.

REPLACEMENT OF CON-ROD/PISTON

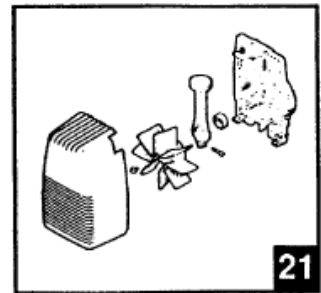
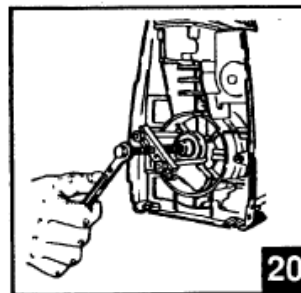
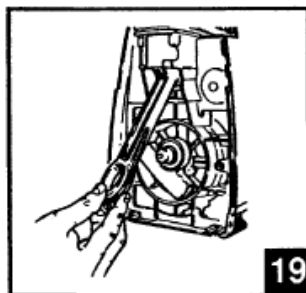
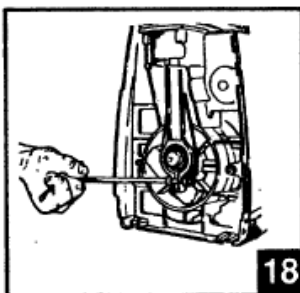
A marked decrease in the machine's performance indicates the wear of the segment on the conrod- piston, which happens after a prolonged use of the compressor. It is necessary to replace this part as follows:

Remove:

- Unplug the plug from the socket (Fig.5) and ascertain that the air receiver is empty of air;

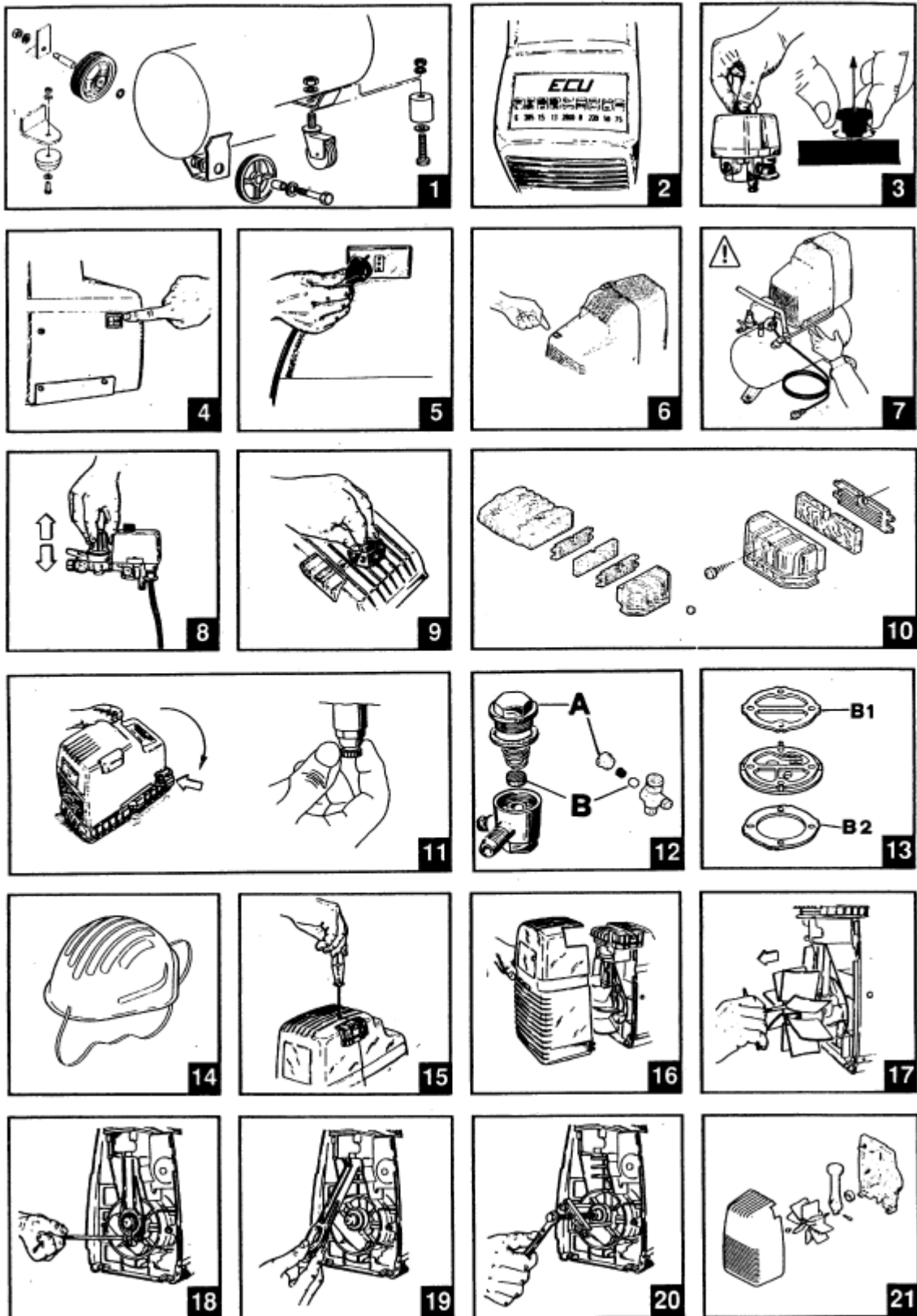


- Remove the front cover by unscrewing the screw on the upper part of the compressor (Fig.15-16);
- Remove the fan (Fig.17);



- Remove the con rod/piston from the bearing by unscrewing the screw of the M6 cylindrical head (Fig.18), and extract the con rod-piston from the cylinder (Fig.19);
- Remove the bearing with an extractor (Fig.20); Assembly:
- Insert the bearing onto the pin using the tool provided (Fig.21);
- Insert the con rod-piston with the segment into the cylinder and fix it onto the bearing tightening the M6 cylindrical head screw. Warning: Before inserting the con rod-piston into the cylinder, check that the segment is covered with a uniform layer of lubricant.
- Assemble the fan utilizing "loctite 270" to lock.
- Assemble the front cover;
- Turn on the compressor for 10 minutes leaving the air tap fully open.

Illustrations



NOTE: BEFORE FIRST USE. FIT O-RING ON TO GAUGE THREADED FITTING AND SCREW GAUGE FIRMLY INTO APPROPRIATE HOLE IN FILTER REGULATOR.

Warranty

Pilot Air Compressors Pty Ltd **manufactured goods - 1 Year Warranty and 3 Year Warranty (where applicable)**

(DATE)

Pilot Air Compressors Pty Ltd (**Pilot Air**) warrants to the first purchaser of goods (manufactured by it) (Product) from Pilot Air and the last purchaser prior to installation that, subject to compliance with the Conditions of Warranties below that:

1. For a period of 12 months from the date of purchase, the Product will be free from defects due to defective factory workmanship or materials; and
2. For a period of 12 months from the date of purchase that Pilot Air branded accessories supplied by Pilot Air will be free from defects due to defective factory workmanship or materials.
3. The compressor pump only (and excluding all other components of the unit) in the following units:
 - a. TM Series Units
 - b. Classic K Series Units
 - c. Petrol Industrial Series Units
 - d. Three Phase Industrial Series Units

will be free from defects due to defective factory workmanship or materials for a period of 3 years from the date of purchase.

4. The 'DCR', 'PAC' and 'FP' Series of Rotary Screw type compressors will be free from defects due to defective factory workmanship or materials for 3,000 working hours in the first 12 months from the date of purchase. This warranty is extended to a period of 2 years for the air end of the DCR PAC and FP Series Compressors.
5. Where compressors are powered with either petrol or diesel engines, the engine only is subject to the warranty provided by the manufacturer of the engine.
6. Non-Pilot Air accessories (meaning accessories which are not Pilot Air manufactured and branded) which are supplied by Pilot Air are not covered by this warranty. Purchasers are referred to the individual manufacturer's warranty. Purchasers can request a copy of the applicable warranties by contacting Pilot Air using the contact details below.

Warranty

Conditions of Warranties

The warranties specified herein are subject to the following conditions:

- (a) Pilot Air will not be liable for a breach of any of its warranties unless the Claimant provides proof of purchase of the Product and makes a written claim to Pilot Air at the address set out below, either within 30 days after the defect would have become reasonably apparent, or if the defect was reasonably apparent prior to installation, then the claim must be made prior to installation;
- (b) The warranties are not transferable;
- (c) The Product must be installed, operated, maintained and serviced strictly in accordance with the relevant Pilot Air literature current at the time of installation and must be installed in conjunction with the components or products specified in the Pilot Air literature. To obtain copies of such literature go to www.pilotair.com.au or telephone Pilot Air on (02) 9648 3099;
- (d) If the claimant chooses to rely upon any warranty specified herein the claimant's sole remedy under the warranty for breach of the warranty is (at Pilot Air's option) that Pilot Air will either supply replacement Product, rectify the affected Product or pay for the cost of the replacement or rectification of the affected product;
- (e) In the circumstances where the guarantees under the Australian Consumer Law do not apply in respect to the purchase of its Products, Pilot Air will not be liable for any losses or damages (whether direct or indirect) including property damage or personal injury, consequential loss, economic loss or loss of profits, arising in contract or negligence or howsoever arising. Without limiting the foregoing, Pilot Air will not be liable for any claims, damages or defects arising from misuse of the Product, inadequate maintenance and storage of the Product, repairs rendered necessary or arising from the use of non-genuine Pilot Air parts in the product, normal wear and tear maintenance of the Product, deterioration of any part of the Product due to normal wear and tear, work performed on the Product other than by an authorised Pilot Air service technician or their agent, use of the Product for any purpose other than which it was intended to be used, use of the Product after essential parts and accessories have been removed, operating the Product continuously under excessive load, and if the serial/model label has been removed or obscured on the Product;
- (f) In circumstances where the guarantees under the Australian Consumer Law do not apply in respect to the purchase of its Product/s: all warranties, conditions, liabilities and obligations other than those specified herein are excluded to the fullest extent allowed by law.
- (g) Parts repaired or replaced under any warranty specified herein are warranted only for the remaining period of the original warranty period.

Warranty

- (h) All defective parts that are the subject of a claim under any warranty specified herein become the property of Pilot Air.
- (i) The warranties specified herein do not apply to the following parts or conditions and cannot be relied upon in the situation whereby:
 - i) any Pilot Air product or part has been subject to misuse, negligence, accidental damage, improper or inadequate use, inadequate maintenance or improper storage or been operated under unusual conditions or continuously under excessive load;
 - ii) the defect has been caused by the use of non-genuine Pilot Air parts;
 - iii) the defect or deterioration was due to normal use, fair wear and tear and exposure, unless due to any defect in material or workmanship;
 - iv) work was undertaken on any Pilot Air product or part by an unauthorised Pilot Air agent;
 - v) the serial /model label has been removed from any Pilot Air product or part;
 - vi) normal maintenance items/parts including valves and piston rings
- (j) Warranty repairs on all 240 Volt and portable units shall be on a back to base basis that the Claimant is required to return the Product to the nominated warranty agent as advised by Pilot Air, provided that such costs are not significant;
- (k) The replacement or repair of any defective part or correction of operating faults under any warranty specified herein is to be made only after Pilot Air, or its authorised representative, have examined the unit to their satisfaction, with their decision being final.
- (l) In the circumstances where Pilot Air accepts or it is determined by Pilot Air that the claimant has a valid claim under this warranty, and subject to paragraph (m) below, Pilot Air will bear all of the claimant's reasonable and proximate expenses incurred as a result of claiming under this warranty. The claimant is to inform Pilot Air in writing to the address identified below within 21 days from when the claimant first makes a claim under this warranty of all such claims and expenses and provide it with copies of all receipts and invoices where relevant before any reimbursement is made by Pilot Air to the claimant. The claimant is responsible for all other costs of claiming under this warranty.
- (m) Pilot Air will not be responsible for any courier, transport or freight related costs whatsoever associated with the return to it of any defective Product that have not first been approved by it. Pilot Air reserves the right to first inspect any defective Product and decide how, if at all, the defective Product is to be returned to it. Any unapproved courier, transport or freight related costs will be to the claimant's account.

Warranty

Important Note:

If you acquire goods from Pilot Air as a consumer according to the Australian Consumer Law, our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

Any rights a consumer may have under any warranty specified herein are in addition to other rights and remedies of a consumer under a law in relation to the goods to which these warranties relate. Nothing in this document shall exclude or modify any legal rights a customer may have under the Australian Consumer Law or otherwise which cannot be excluded or modified at law.

Contact details if you wish to make a claim under any warranty specified herein:

For more information or to make a claim under any warranty specified herein please telephone Pilot Air on (02) 9648 3099, email Pilot Air via our website: <http://www.pilotair.com.au> or write to Pilot Air at:

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Silverwater NSW 2128