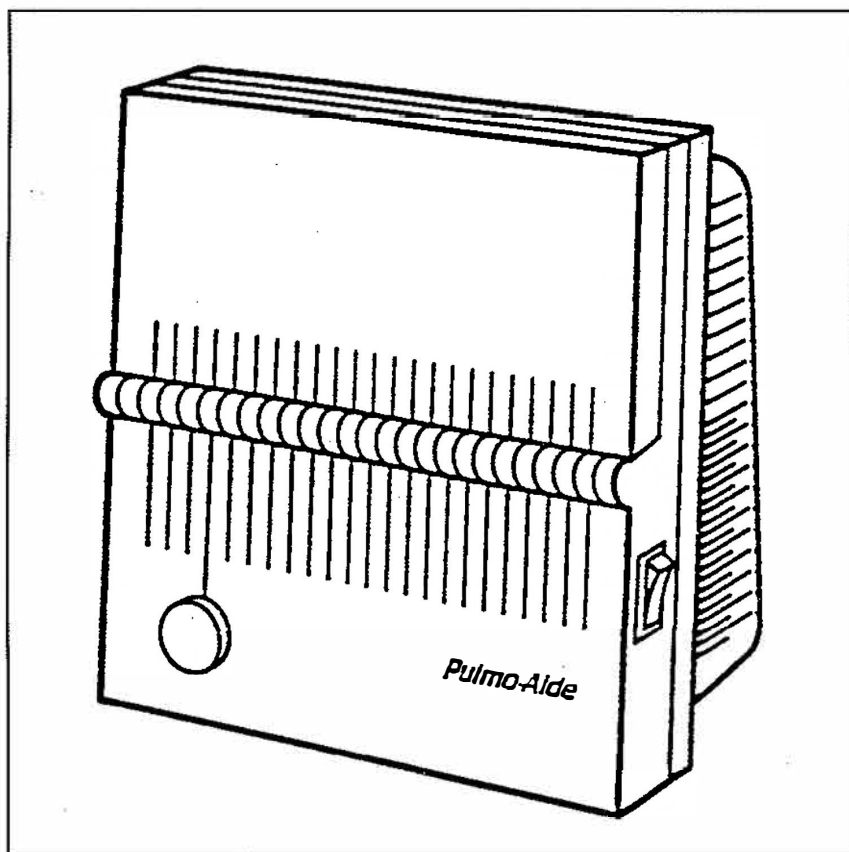


DeVilbiss Pulmo-Aide® Compressor/Nebulizer Service Manual

Models 5650D & 5650C



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LT-1469 Rev. B

Purpose

To provide a portable means of supplying compressed air to devices which do not require a large volume of air, such as nebulizers, atomizers, and syringes. The

compressor displaces clean, oil-free air at 12 lpm. It can be operated at 20 psi continuously or at 30 psi intermittently at a minimum of 110 VAC.

Installation

Lower access door to expose the air outlet connector. The compressor is set up for use with slip-on hose connectors. Attach the

tubing to the unit by sliding the tubing over the connector.

Maintenance

The air filter (14) should be changed whenever it turns completely gray in color. Remove the filter cap (15) by pulling outward. To remove the filter from the holder, pull out with fingers. Push the new filter in place and push the cap back into the front of the Pulmo-Aide.

CAUTION—Do not use cotton or any other material as a filter, nor attempt to wash or clean filter. It may cause damage to the compressor.

DANGER—Electric shock hazard. Always disconnect the unit from the power source before servicing.

Service

To replace head, valve plate, and/or diaphragm:

1. Remove the six T20 torx screws from the rear cabinet.
2. Lay unit face down and lift the rear cabinet off of the unit.
3. Only disconnect the tubing (10) from the compressor fittings if you are going to replace the head assembly.
4. Remove the four T5 torx screws from the head. Using a flat-bladed screwdriver, pry

in between the head and motor to loosen the head from the diaphragm.

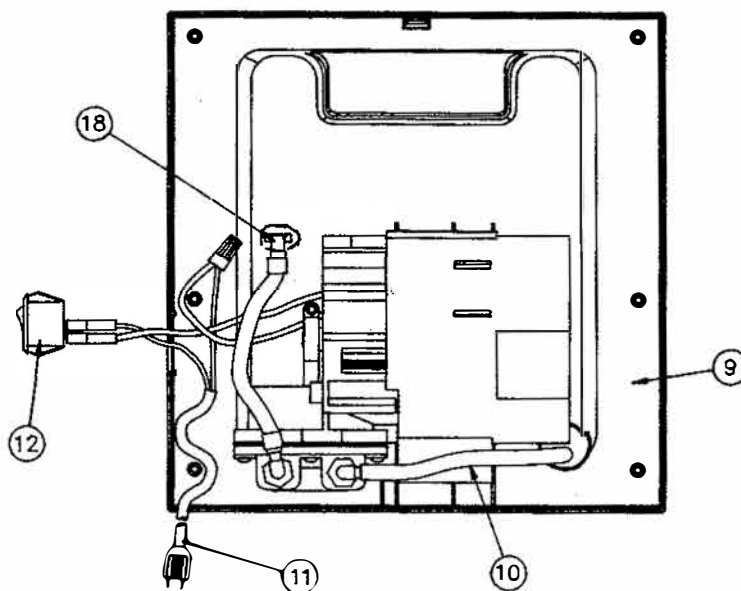
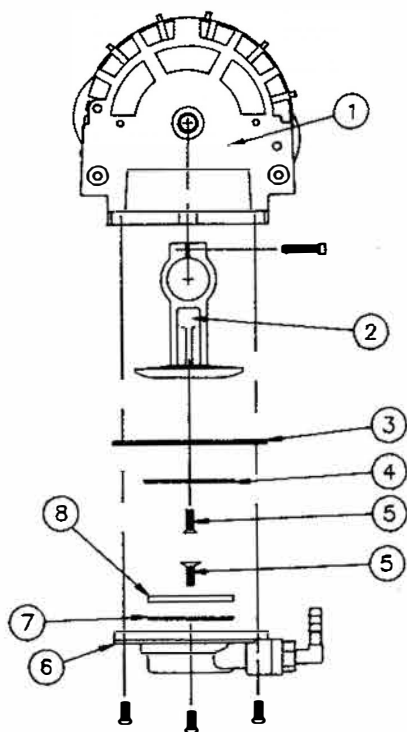
5. Lift the head (6) from the motor.
6. Remove diaphragm screw (5) from the connecting rod retainer plate for diaphragm replacement.
7. Remove the valve plate retainer screw (5) from the head for valve plate replacement.
8. Reverse the procedure to re-assemble the unit.

Specifications

Size	10.1" W x 10.5" H x 6.5" D (26 cm x 27 cm x 17 cm)
Weight	7.0 lbs (3.2 kg)
Sound Level	51 dBA
Electrical Requirements	1.3 amps, 115 VAC 60 Hz
Power Consumption	90 watts maximum
Maximum Compressor Pressure	30-45 psig*
Maximum Compressor Liter Flow	9.4 -16 lpm*
Nebulizer Operating Pressure	12-18 psig
Nebulizer Liter Flow	5-7 lpm
Nebulizer Capacity	10 ml (cc)
Nebulizer Nebulization Rate	0.15 ml/minute or greater
MMAD	Less than 5 microns
Warranty	5-year limited warranty on compressor parts

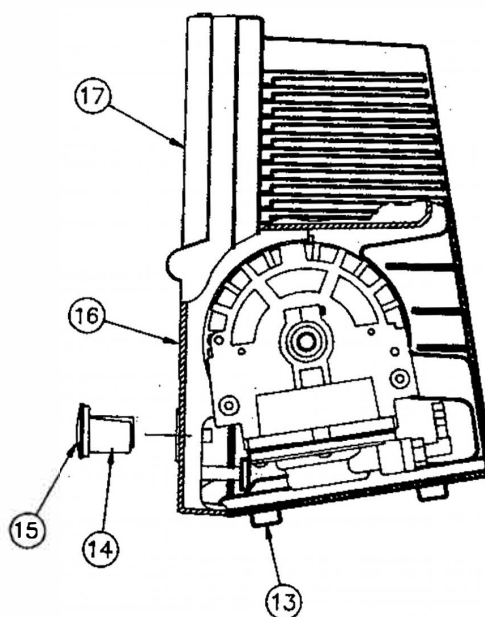
*Conditions may vary based on altitude above sea level, barometric pressure changes.

Important Parts of the Pulmo-Aide



REPLACEMENT PARTS

- | | | |
|-----|------------|--|
| 1. | 5650D-606 | Compressor/Motor Assembly |
| 2. | 5610D-609 | Connecting Rod Kit |
| 3. | 5610D-614 | Diaphragm & Valve Plate Assembly Kit (diaphragm) (3 kits) |
| 4. | 5610D-617 | Connecting Rod Plate |
| 5. | 5610D-614 | Diaphragm & Valve Plate Assembly Kit (screw) (6/pkg) |
| 6. | 5650D-613 | Head Assembly Kit |
| 7. | 5610D-614 | Diaphragm & Valve Plate Assembly Kit (gasket) (3/pkg) |
| 8. | 5610D-614 | Diaphragm & Valve Plate Assembly Kit (valve plate) (3/pkg) |
| 9. | 5650D-604* | Rear Cover Assembly |
| 10. | 5650D-615 | 7" Vinyl Tubing (6/pkg) |
| 11. | 5650D-610 | Line Cord Assembly (2-prong cord) |
| | 5650H-610 | Line Cord Assembly (3-prong cord) |
| 12. | 5650D-614 | Power Switch |
| 13. | 5650D-609 | Push-In Feet (4/pkg) |
| 14. | 5650D-602 | Long-Life Air Inlet Filter (5/pkg) |
| | 5650D-601 | Long-Life Air Inlet Filter (25/pkg) |
| 15. | 5650D-612 | Filter Cap |
| 16. | 5650D-603* | Front Cover Assembly |
| 17. | 5650D-605* | Storage Compartment Door Assembly |
| 18. | 5650D-611 | Tubing Connector w/Pal Nut (6/pkg) |



* MODEL 5650C

- | | |
|-----------|-----------------------------------|
| 5650C-604 | Rear Cover Assembly |
| 5650C-603 | Front Cover Assembly |
| 5650C-605 | Storage Compartment Door Assembly |

Troubleshooting

SYMPTOMS	POSSIBLE CAUSES	REMEDIES
A. Reduced air output.	1. Dirty air inlet filter. 2. Worn diaphragm or valve plate. 3. Air leak.	1. Replace filter. 2. Replace diaphragm or valve plate. 3. Tighten hose connections and tighten head screws.
B. Compressor labors when air device is not being used.	1. Occluded nebulizer or tubing.	1. Install some means of venting excess air when device is not in use or use P/N 656 pressure regulator.

Pulmo-Aide Five-Year Limited Warranty on Compressor Parts

DeVilbiss Model 5650D & 5650C compressors are warranted to be free from defective workmanship and material for a period of five years from date of purchase. Any defective part(s) will be repaired or replaced at DeVilbiss' option if the unit has not been tampered with or used improperly during that period. Make certain that any malfunction is not due to inadequate cleaning or failure to follow instructions. **If repair is necessary, contact your DeVilbiss provider or DeVilbiss Service Department for instructions:** U.S.A. 814-443-4881, **Canada 905-660-2459.** **NOTE**—This warranty does not cover providing a loaner compressor, compensating for cost incurred in rental while said unit is under repair, or cost for labor incurred in repairing or replacing defective part(s).

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This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.



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Authorized DeVilbiss Provider:

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