

HV Belt Drive Fan Service Items

Installation and Maintenance Instructions.

THESE INSTRUCTIONS MUST BE READ FULLY BEFORE COMMENCING INSTALLATION.

Owner / installer: The life of this apparatus and its efficiency will be increased if its use and maintenance is carried out in accordance with these instructions and current statutory requirements. The installation and initial adjustments should be carried out by a qualified and competent technician. Hydor Limited should be consulted before substituting or fitting parts from another manufacturer. It is the responsibility of the installer to verify that the installation is in accordance with all current statutory requirements and the owner is given the current User's Manual.

Any modifications to the fan or its installation, even the smallest modification, change or elimination of security components or pieces that influence the efficiency or loss of ventilation, will result in the CE Certification and Hydor's warranty being cancelled.

Please take note of the following symbols used within this document:



Warning: Hazards associated with electric current and high voltages



Important: Important information

Hydor's policy is one of continual improvement and the right to change a specification at any time without notice is reserved. Whilst every care has been taken to ensure that the contents of this document are correct at time of publication, Hydor shall be under no liability whatsoever in respect of such contents.

Hydor cannot guarantee the operation of any equipment unless all documented instructions are complied with, without variation.

Hydor is a registered trademark of EG Agri Ltd and is a member of Elta Group. All other trademarks, trade names or company names referenced herein are the property of their respective owners.

1. General

1.1 This document covers the maintenance of the following items

Replacement belt

Replacement motor pulley

Replacement motor

2. Health and Safety

2.1 These instructions cover only the Hydor product and do not include the supply or installation of any safety equipment that may be required e.g. adequate guarding or protection from rotating parts and proper electrical isolation.

2.2 Any declarations made by Hydor about product installation and safety are dependent on the equipment being used within installations which themselves meet the requirements of the Standards and Directives of your region.

2.3 Misuse can lead to physical injury or damage to the fan, tube or installation.



All electrical installations must be carried out by suitably qualified and competent personnel in accordance with local regulations.

3. Maintenance



WARNING: The fan(s) must be isolated from the power supply during installation and maintenance.

Only a suitably qualified and competent person may carry out maintenance after the electrical supply has been isolated.

Internal Access

3.1 To access the internals of the fan, an 8mm hex head socket should be used to remove the fixings around the wire guard. Removing the wire guard is expected for maintenance and will not void your warranty.

3.2 Inspection of the fan at least once every 6 months is recommended to ensure that the motor, fan blades, and supporting guards, are clean. Any build-up of dust and deposits on the blades, motor or guards should be removed using a non-abrasive cleaner. Failure to keep the unit clean can lead to overheating and damage which is not covered by the warranty.

3.3 All fastenings should be checked for tightness. In addition, all rotating items should be checked.

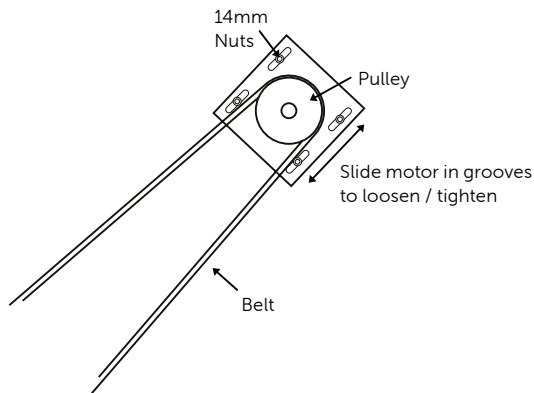
3.4 Bearings are of the "sealed for life" variety and will not need a detail inspection.

Belt Removal

- 3.5 Follow the above guide for gaining internal access.
- 3.6 Loosen but not remove the for 14mm hex head nuts holding the motor in place, slide the motor down until the belt can be removed.
- 3.7 Follow the guide below for tensioning the belt.
- 3.8 Reinstall the wire guard with all its fixings.

Belt Tension

- 3.9 Belt tension should be checked after the first 2-3 days use (48-72 hours usage) and then periodically depending on use.
- 4.0 Allow 15-20mm deflection for the correct tension.
Please note over tensioning will dramatically affect the longevity of the unit.
- 4.1 To tension the belt, loosen but not remove the four 14mm hex head nuts holding the motor in place, slide the motor until the required tension is found and then re tighten.



Pulley Change


Removal

- 4.2 Please follow the instructions above for removing the belt.
- 4.3 With the belt removed, remove the 13mm bolt in the centre of the pulley.
- 4.4 Loosen the grub screw on the pulley shaft under the flange with a 6mm Allen key.
- 4.5 Use a gear puller to remove the pulley from the motor shaft.

Installation

- 4.6 Gently tap the new pulley onto the motor shaft with a rubber mallet.
- 4.7 Tighten the 13mm centre bolt.
- 4.8 Tighten the pulley grub screw back onto the shaft.
- 4.9 Follow the above instructions for installing and tightening the belt.

Motor Change

-  The motor is heavy. IT is advisable to have another person hold/support the motor while the fixings are being loosened to ensure it doesn't drop.

Removal

- 5.0 Please follow the instructions above for removing the belt and pulley.
- 5.1 Disconnect the electrical flex and loosen the wiring gland on the side of the unit. Feed the whole length of flex back inside the unit.
- 5.2 With the belt and pulley removed, have a second person support the motor while the four 14mm nuts are removed.
- 5.3 Lower and twist the motor, pulling the back of the motor around the silver venturi, back out through the blades and away from the unit.

Installation

- 5.4 Reverse of the motor removal steps above.
- 5.5 Follow the above instructions for installing the pulley and belt.

Technical Support

Contact your distributor for technical support on this product.
Do not call the Hydor technical support department unless your distributor has first given their advice and attempted to rectify the issue.

Technical support will not be available if the instruction manual has not been read and understood. Please have this instruction manual available whenever you call for technical support.

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Notes

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Guarantee

Hydor or its agents will, within a period of 1 year from the date of dispatch from their works, repair or, at its option, replace any goods, which are proven to have defects as a result of defective materials or workmanship.

The goods **MUST** be returned to Hydor, carriage paid, for examination. A Hydor Engineer or appointed person should attend to carry out any work, unless otherwise agreed. Hydor will not accept accounts for workmanship by others.

Please see the Hydor warranty booklet for full details on submitting a warranty claim.

Any modifications to the system or its installation, even the smallest modification, change or elimination of security components or pieces that influence the efficiency or loss of ventilation, will result in the CE Certification and Hydor's warranty being cancelled.

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Inst Issue 1: 08.21