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INSTALLATION & ASSEMBLY INSTRUCTIONS
Grease Trough and Curb Hinge Assembly
For Models PNU and PDU

RECEIVING AND INSPECTION
Immediately upon receipt of a shipment, carefully inspect for damage and shortage. If any damage and/or shortage is detected or suspected the carrier must be asked to conduct an inspection. The consignee’s representative should not accept shipment without a notation on the delivery receipt indicating items not delivered or apparent extent of damage.

When a shipment is opened and damage is found which was not evident externally (concealed damage), it is mandatory that the consignee request an immediate inspection by the carrier. Report damage to the carrier within 15 days. Failure to report damage within the above time limit will cause rejection of a claim.

HANDLING
When handling fans and their accessories, always use equipment and methods that will not cause damage. Fans should be lifted using slings and padding or spreaders to avoid damage.

CAUTION! Always make sure that all lifting and handling equipment and techniques conform to current safety standards. Avoid lifting fans in a way that will bend or distort fan parts. Never pass slings or timbers through the orifices of fan.

CAUTION! Do not lift by the fan hood. Fans with special coatings or paints must be protected in handling to prevent damage.

STORAGE
Fans are protected against damage during shipment. If they cannot be installed and put into operation immediately upon receipt certain precautions are necessary to prevent deterioration during storage. Responsibility for integrity of fans and accessories during storage must be assumed by the user. The manufacturer will not be responsible for damage during storage. These suggestions are provided solely as a convenience to the user, who shall make his own decision as to whether to use any or all of them.

INDOOR: The ideal storage environment for fans and accessories is indoors, above grade, in a low humidity atmosphere which is sealed to prevent the entry of blowing dust, rain, or snow. Temperatures should be evenly maintained at between 70°F and 105°F (wide temperature swings may cause condensation and “sweating” of metal parts). Windows should be covered to prevent temperature variations caused by sunlight. Provide thermometers and humidity indicators at several points and maintain the atmosphere at 40% relative humidity, or lower.

It may be necessary to use trays of renewable desiccant or portable dehumidifier to remove moisture from the air in the storage enclosure.

Thermostatically controlled portable heaters (vented to outdoors) may be required to maintain even temperatures inside the enclosure.

CAUTION! Provide fire extinguishers, or fire alarms, or telephone to protect building and equipment against fire damage. Be sure that building and storage practices meet all local, state and federal fire and safety codes.

The following fans or accessories must be stored indoors, in a clean dry atmosphere:

a. Propeller Wall Fans not in Wall Housings.
b. Any fan which is protected by a cardboard carton.
c. Motors dismounted from fans.
d. Spare wheels or propellers.
e. The belts, sheaves, bushings and other parts when not mounted on fan.
f. Boxes, bags or cartons of hardware.
g. Curbs
h. Shutters

Remove any accumulations of dirt, water, ice or snow and wipe dry before moving to indoor storage. Allow cold parts to reach room temperature to avoid “sweating” of metal parts. Open boxes or cartons. Remove any accumulated moisture; if necessary use portable electric heaters to dry parts and packages. Leave coverings loose to permit air circulation and to permit periodic inspection.

Rotate wheels or propellers by hand to distribute bearing grease over the entire bearing surfaces.

Store at least 3½” off the floor on wood blocks covered with moisture proof paper or polyethylene sheathing. Provide aisles between parts and along all walls, to permit air circulation and space for inspection.

OUTDOOR: Fans designed for outdoor use may be stored outdoors, if absolutely necessary. The storage area should be reasonably level and drained or ditched to prevent accumulation of water. Fencing and lighting for security are desirable. Roads or aisles for portable cranes and hauling equipment are needed. Consider the use of drift fencing to minimize accumulation of blowing snow or dirt.
The following fans may be stored outdoors, if dry indoor storage space is not available:

a. Fans intended for outdoor use that are crated in wood.
b. Wall fans where installed in wall housings.

All fans must be supported on wooden blocks or timbers above water or normal snow levels. Provide enough blocking to prevent settling into soft ground. Fans should be set in place using the directional arrow markings on the crate as a guide.

Locate pieces far enough apart to permit air circulation, sunlight, and space for periodic inspection. Place all parts on their supports so that rain water will run off, or to minimize water accumulation. Do not cover parts with plastic film or tarps-these cause condensation of moisture from the air passing through heating and cooling cycles.

Fan wheels and propellers should be blocked to prevent spinning caused by strong winds.

**INSPECTION AND MAINTENANCE DURING STORAGE**

Inspect fans and accessories at least once per month, while in storage. Log results of inspection and maintenance performed. A typical log entry should include the following:

a. Date  
b. Inspector’s Name  
c. Name of Fan  
d. Location  
e. Condition of Paint or Coating  
f. Is moisture present?  
g. Is dirt accumulated?  
h. Corrective steps taken?

If moisture or dirt accumulations are found on parts, the source should be located and eliminated. Fans should be rotated at each inspection by hand ten to fifteen revolutions to redistribute the motor and bearing lubricant.

If paint deterioration begins, consideration should be given to touch-up or repainting. Fans with special coatings may require special techniques for touch-up or repair.

Machined parts coated with rust preventive should be restored to good condition promptly if signs of rust occur. The most critical items are pulleys, shafts and bearing locking collars. At the first sign of rusting on any of the above parts, remove the original rust preventive coating with petroleum solvent and clean lint-free cloths. Polish any remaining rust from surfaces with crocus cloth or fine emery paper and oil. Do not destroy the continuity of the surfaces. Wipe clean with lint-free cloths and recoat surfaces evenly and thoroughly with Tectly 506 (Ashland Oil Company) or equal. For hard to reach internal surfaces or for occasional use, consider using Tectly 511M Rust Preventive or WD40 or equal.

**REMOVING FROM STORAGE**

As fans are removed from storage to be installed in their final location, they should be protected and maintained in similar fashion, until the fan equipment goes into operation.

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**GREASE TROUGH INSTALLATION (Roof Fan)**

1. Place grease trough assembly in position on curb as shown in Figure A. The hole in the center of the grease trough top should be directly under the downspout. Mark the position of the two key holes in the grease trough top on the fan curbcap or on the roof curb depending on the desired location.

2. Drill 5/16” (8 mm) holes at the locations marked on the curbcap or roof curb.

3. Thread the speed nut up to within 1/4” (6 mm) of the head of the 1/4 - 20 x 3/4" round head machine screw and insert into the hole. Thread the standard 1/4” nut onto the screw on the inside of the curb and tighten.

4. Install the grease trough and its top on these two screws as shown in Figure B.
GREASE TROUGH INSTALLATION (Wall Fan)

1. The grease trough should line up just below the windband lip as shown in Figure C. It should be centered below the fan when viewed from the outlet side of the fan.

2. Attach grease trough bracket supports to fan windband.

3. Attach grease trough bracket between supports using supplied bolts as shown in Figure D.

4. Drill four (4) holes in the fan windband. Loosely assemble all parts. Position grease trough and mark holes of grease trough bracket. Mount to fan with supplied hardware.

5. Tighten two supplied 1/4” bolts into the grease trough bracket so that the grease trough and grease trough lid may be hung on the bolt heads.

GREASE TROUGH NOTE (Roof and Wall)

This grease trough has been designed with two chambers. One for collecting grease and the other for an escape channel for rain water. For proper operation, the grease level must be kept above the bottom of the baffle plate which separates the chambers. If your operation produces a lot of grease, then 1 1/4” (32 mm) of water in the bottom of the grease trough should keep the grease from overflowing until you clean the trough. If you are in an arid area and produce little grease, then 2” (51 mm) to 3” (76 mm) of water may be required.

Frequent inspections should be made of the grease trough until you can determine the level of water to be used and the frequency of cleaning. To begin, fill the trough with 2” (51mm) of water just before start up and check the trough the next morning.

FAN-TO-CURB HINGE KIT (TYPE A) INSTALLATION

Hardware Supplied

- Eye Bolt 5/16"-18 x 1 1/4" QTY 2
- Cable Clamp QTY 2
- Nylon Locknut 5/16"-18 x 1 1/4" QTY 2
- Nut 5/16"-18 x 1 1/4" QTY 6
- Washer 5/16" QTY 2
- Bolt 5/16"-18 x 1 1/4" QTY 2

WARNING: Disconnect power to fan and observe lock out tag out procedures per OSHA regulation. Make sure wiring to fan is long enough to allow the fan to tilt back using a flexible connection.

1. See Figure E and Figure F. Install one bolt 5/16-18 x 1-1/4 and one 5/16" washer through pivot hole (Figure A) on fan curb cap opposite of drain on fan. Install one Nut 5/16-18 onto bolt and tighten (Figure B). Repeat for other side.
2. See Figure G and Figure H. Locate long slot opening on hinge bracket and slide onto bolt. **NOTE: Insure the 4 holes in the hinge bracket face towards the drain on the fan (See Figure G).** Install one Nylon Locknut 5/16-18 onto bolt (Do not tighten the locknut on the bolt more than one thread into the nylon material of the Locknut). Repeat for other side. Locknut is used to hold assembly together during attachment of hinge bracket to curb. Hinge bracket final assembly view Figure H.

3. Place fan on curb and center the fan to the curb. Move hinge bracket up until the bottom of the long slot on hinge bracket is in contact with the bolt. Then rotate hinge bracket until it is parallel to the bottom of the curb cap and sitting against curb (Figure J). Install (2) Stainless Steel 1/4" self tapping screws on bottom two openings. Repeat for other side. Note: If locknut prevents hinge bracket from sitting flush against curb it can be loosened.

4. Have an assistant tilt fan back and install the remaining self tapping screws into hinge bracket. Do not allow fan to rest against the curb without support damage to curb cap may happen.

5. Install one eye bolt in the fans curb cap location shown in Figure K. In the location shown use two nuts to secure eye bolt to curb cap. Do not extend the eye bolt more than one thread past the nut on the inside of the curb cap see Figure L.

6. Drill a 1/32" diameter hole into curb on the fans drain side as shown in Figure M. Install one eye bolt and 2 5/16-18 nuts as shown in Figure N.
7. See Figure P. Using the provided cable and one cable clamp insert cable into eye bolt on fan and make a small loop. Install the wire clip around both cables leaving about an inch of cable sticking out. Tighten nuts on cable clamp.

8. See Figure Q. With an assistant tilt fan back till the back of the fan curb cap just touches the curb. Do not allow the fan to rest against curb damage to curb cap may happen. Loop the other end of the cable to the curb eyelet and fasten with cable clamp. Make sure to pull all slack out of cable before securing wire clip.

9. Check if cable holds fan back without the fans curb cap resting against the curb. Adjust the cable if necessary.

10. Close and secure fan to curb with appropriate fasteners to prevent unit from opening in high wind events.
The Company has made a diligent effort to illustrate and describe the products accurately in all Company literature; however such illustrations and descriptions are for the sole purpose of identification and do not express or imply any warranty.

LIMITED WARRANTY

The Company warrants the MFS57, the DXP60 and the DXP50 housing to be free of defects in material and workmanship for a period of seven (7) years from the date of shipment to the original purchaser. This does not include items deemed cosmetic damage that could occur from improper application, improper misuse, mismanagement, improper maintenance, power supply, high winds, snow load, or other acts of God. The Company shall not be responsible for any loss, injury, death or property damage including, but not limited to, claims arising out of the Purchaser's or any end user's negligence, own acts, or acts of third parties.

EXCLUSIVE REMEDY FOR DEFECTIVE GOODS AND PURCHASER'S SOLE AND EXCLUSIVE REMEDY TO PURCHASER.

LIMITATION OF LIABILITY

The cumulative liability of the Company to the Purchaser and any other person for claims in any way relating to or arising out of the products, including, but not limited to, any cause of action sounding in contract, tort, or strict liability, shall not exceed the purchase price paid for the products. This limitation of liability is intended to apply without regard to whether other provisions of this agreement have been breached or whether any claim is based on or arises out of the products or any portion thereof. The Company shall not be liable to the Purchaser or any other person for any indirect, incidental, special, consequential, exemplary, punitive damages, or for any loss of profits or any incidental, special, exemplary, consequential damages for any claims or demands brought by the Purchaser or such other person.

Oklahoma, (the “Company”) and are not binding on the Company until the Purchaser has acknowledged this order to make changes or cancellations.

or any loss caused by, or arising from, the Products, including, but not limited to, any cause of action sounding in contract, tort, or strict liability, shall not exceed the purchase price paid for the products. This limitation of liability is intended to apply without regard to whether other provisions of this agreement have been breached or whether any claim is based on or arises out of the products or any portion thereof. The Company shall not be liable to the Purchaser or any other person for any indirect, incidental, special, consequential, exemplary, punitive damages, or for any loss of profits or any incidental, special, exemplary, consequential damages for any claims or demands brought by the Purchaser or such other person.

In the event of such a delay, the date of delivery shall be extended for a period equal to the time lost by reason of the delay.

PRICE ADJUSTMENTS

Prices are subject to change upon notice by the Company. Prices on existing orders are subject to surcharges in the event of cost increases. The Company reserves the right to modify or discontinue any product or service.

For pro rata payments shall become due as shipments are made. Each pro rate payments shall be based on the purchase of existing parts as stated.

cancellation charges which will take into account expenses already incurred and commitments made by the Company.

Any component resulting from the Purchaser’s order may be canceled by the Purchaser only by negotiations and upon payments of reasonable cancellation charges which will take into account expenses already incurred and commitments made by the Company.

ACCEPTANCE AND CANCELLATION

All orders and sales are subject to written approval and acceptance by an executive officer of AcmeFan.com or its Manufacturing Corporation, located in Muskogee, Oklahoma, (the “Company”) and are not binding on the Company unless so indicated in writing by the Company.

SAFETY ACCESSORIES

The Company manufactures products designed to serve multiple applications and offers a wide range of safety equipment, including guards and other devices, as may be required to meet customer specifications. Without exception, the Company recommends the use of sound and safe applicable safety devices. Products ordered without applicable safety devices are clearly the responsibility of the Purchaser. AcmeFan.com has not determined and acquired any and all safety device requirements noted on the order. The Company, Weather covers and guards for motor and V-belt drives, couplings, shafts and bearings, dust collector and outlet screeners, are optional accessories noted in the price list.

Governing Law

The rights, obligations and remedies of the Company and the Purchaser are governed by Oklahoma law, and the respective rights, obligations and remedies of the Company and the Purchaser are governed by Oklahoma law, without regard to any principles of conflict of laws.

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