

16.0 FAN PADDLE INSTALL

Paddles are designed with an adjustable plate equipped with a wear edge that requires adjustment or replacement after using for a period of time. Paddles can also be damaged or bent if large hard objects are encountered during operation.

1. Prepare paddle for installation:

- a. Bring paddles and auxiliary components to assembly area.

- b. Attach lifting chain and bolt to a wear plate mounting hole.

- c. Use a hoist or crane to move to the machine.



Components



Lifting Chain



Moved

FIG 16-1 PADDLE COMPONENTS

2. Prepare fan base for paddle installation:
 - a. Turn the fan until the seam is next to opening.



Seam

- b. Install paddle mounting bolt through fan.



Bolts

- c. Use a vise grip as a clamp to hold fan in position and prevent it from turning.



Vise Grip

FIG 16-2 FAN PREPARATION

3. Swing paddle into frame:
 - a. Move paddle into opening.



Opening

- b. Position around anchor bolt.



Anchor Bolts

- c. Install flat washer, lock washer and nut on bolts.
 - d. Snug up nuts but do not tighten at this time.



Installed

FIG 16-3 PADDLE POSITION

4. Mount wear plate frame:
 - a. Move wear plate next to paddle.
 - b. Install mounting bolts.
 - c. Install nuts and snug up a center bolt to hold wear plate in position.
 - d. Release vise grip clamp holding fan in position.
 - e. Carefully rotate fan down to check clearance between wear plate and frame.
 - f. Check that clearance is 1/8 inch and parallel between wear plate and frame.

IMPORTANT

Both paddle and wear plate mounts are designed with large holes that allow for movement for adjustment. Position the fan in its middle adjustment position and the wear plate toward the center of the fan. This will provide for maximum wear plate adjustment during operation.

- g. Tighten all fasteners to their specified torque.
- h. Repeat this procedure with the next and remaining paddles.
- i. Rotate each paddle around the fan circumference to check for interference.

There should be no contact/interference. If there is any, determine which paddle is making contact and adjust.



Paddle



Wear Plate



Tightened



Clearance

FIG 16-4 WEAR PLATES

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