

9.0 REVERSER INSTALLATION

When installing the reverser on the left end of the kicker shaft, follow this procedure:

1. Prepare reverser sprocket:
 - a. Bring reverser components to the working area.
 - b. Install the taper lock hub into the sprocket.
 - c. Finger tighten the bolts.
 - d. Back out set screws from the hub so it doesn't interfere during installation.
2. Prepare shaft:
 - a. Use a brake cleaner or equivalent to remove any residue from shaft.
 - b. Use an air hose to completely dry shaft.
3. Mount sprocket on kicker shaft:



FIG 9-1 REVERSER SPROCKET



Cleaning



Kicker Shaft

FIG 9-2 KICKER SHAFT

- a. Lift sprocket with a crane or hoist on a strap.
- b. Slide sprocket and hub on the shaft almost flush with the end of the shaft.



FIG 9-3 MOUNT SPROCKET

4. Install key in sprocket:
 - a. Apply anti seize compound to keyway.



Anti-Seize

- b. Insert key in hub.
 - c. Slide or tap in with a hammer.



Hammer

- c. Slide key 3/16 inch past the end of shaft.



Installed

FIG 9-4 KEY

5. Position sprocket on shaft 3 inches $\pm 1/8$ inch from the side of the frame.



FIG 9-5 SPROCKET POSITION

6. Anchor sprocket on shaft:

a. Tighten bolts in taper lock hub:

- Tighten one bolt a small amount.
- Tighten next bolt a small amount.
- Tighten bolts to 80 ft-lbs.

- Go around the hub several times tightening each bolt a small amount to seat hub evenly on shaft.

b. Re-measure sprocket clearance from frame to be sure it is 3 inches \pm 1/8 inch.

c. Loosen taper lock hub, move sprocket slightly and seat taper lock hub again.

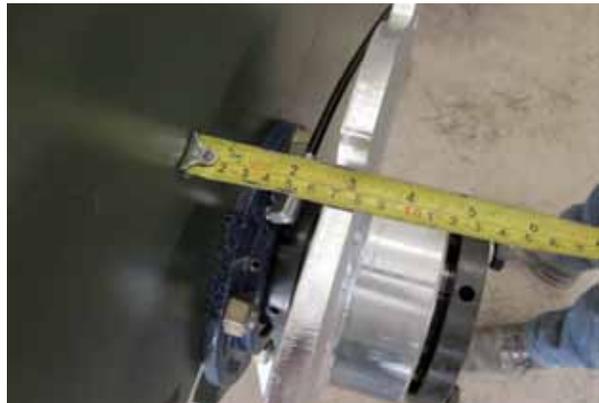
d. Repeat adjusting until sprocket is at the required position.



Tightening



Tightened



Measuring

FIG 9-6 ANCHOR SPROCKET

7. Bring reverser frame to the left side of Ditcher:
 - a. Attach 'ring bolt' to hole on the top of the frame.



Ring Bolt

- b. Lift and move with a hoist or crane.



Lifting

- c. Position next to frame.



Positioned

FIG 9-7 POSITION REVERSER

8. Mount reverser frame:
- a. Insert top cylinder bolt into anchor hole in frame side plate.



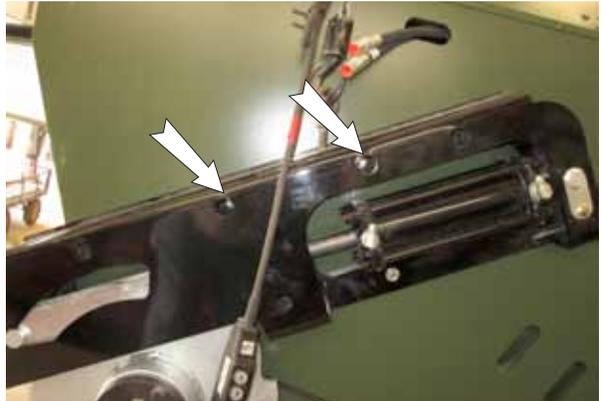
Anchor Hole

- b. Secure with anchor bolts along top of reverser frame.



Anchor Bolts

- c. Tighten anchor bolts to their specified torque.



Tightened

- d. Check the inside of frame side plate to be sure bolt heads are properly seated in their holes.



Bolt Heads

FIG 9-8 MOUNT REVERSER

9. Attach hydraulic hoses to cylinder:
 - a. Pull hoses out through slot in frame next to fittings.
 - b. Attach hoses to fittings.
 - c. Tighten to their specified torque.



Hoses



Attached

FIG 9-9 HYDRAULIC HOSES

10. Mount grease line to reverser frame.:

- a. Bring anchor bracket and mounting bolt to assembly area.



Anchor Bracket

- b. Attach and secure bracket to reverser frame.



Bracket Installed

- c. Tighten to its specified torque.

- d. Insert grease line and secure with jam nut.



Grease Line

- e. Tighten jam nut to its specified torque.

- f. Install grease zerk and tighten to its specified torque.



Grease Zerk

FIG 9-10 GREASE LINE

11. Check alignment of sprocket and reverser by sighting along the reverser frame. The reverser should be in the center of the sprocket.



FIG 9-11 ALIGNMENT

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