

## 5.0 PTO DRIVELINE ASSEMBLIES

When replacing the driveline, follow this procedure:

1. Remove the old driveline components from the drive system.
2. Bring the replacement drivelines to the assembly area.



**FIG 5-1 DRIVELINES**

3. Prepare center driveline for installation:
  - a. Thread strap around short driveline.
  - b. Position strap close to over-speed clutch end to maintain a balance when lifting.
  - c. Use a crane or hoist to lift driveline.



**Strap**

- d. Remove clamp on clutch end.



**Clamp**

- e. Remove lock pin from yoke.



**Pin**

- f. Move driveline next to frame.



**Tightened**

**FIG 5-2 DRIVELINE PREPARATION**

4. Install clutch to shaft:
  - a. Slide clutch yoke on shaft and align lock groove on shaft to lock bolt location.



**Sliding On**

- b. Install locking components.



**Aligned**

- c. Tighten one of the clamp nuts until it just touches the clamping frame.



**First Bolt**

- d. Tighten the other side to 75 ft-lbs of torque.



**Both Bolts**

- e. Tighten the first nut to 75 ft-lbs of torque.



**Installed**

**FIG 5-3 INSTALL CLUTCH**

5. Install non-clutch end yoke to shaft:
  - a. Move lifting strap to the other end of shaft.
  - b. Move yoke to shaft.



**Shaft**

- c. Slide yoke on shaft and align lock groove on shaft and yoke.



**Aligning**

- d. Apply 242 Loctite to lock pin threads.



**Loctite**

- e. Install lock pin and tighten to 75 ft-lbs torque.



**Tightened**

**FIG 5-4 INSTALL YOKE**

6. Prepare gearbox input driveline:
  - a. Attach a strap to driveline for lifting.



**Strap**



**Slip Clutch**

- b. Remove lock pin bolts from yokes on each end.



**Lock Pin**

- c. Move next to frame.



**Positioned**

**FIG 5-5 GEARBOX DRIVELINE**

7. Attach driveline to gearbox shaft:
  - a. Align splines on shaft and yoke.



**Aligning**

- b. Slide yoke over shaft.



**Installing**

- c. Apply 242 Loctite to lock bolt threads.



**Loctite**

- d. Install lock pin and snug up.



**Snug Up**

**FIG 5-6 DRIVELINE INSTALLATION**

8. Attaching other end:
  - a. Align shaft and yoke splines.



**Aligning**

- b. Phase the drivelines by aligning the center of the yoke casting centerline.
  - c. Move yoke to an adjacent spline if required to properly phase the yokes.



**Phased**

**NOTE**

Yokes/drivelines that are not properly phased will generate a vibration into the system. Align the yokes to eliminate system vibration.

- d. Apply 242 Loctite to threads on lock bolt.



**Loctite**

- e. Tighten both lock bolts to a torque of 75 ft-lbs.



**Gearbox End**

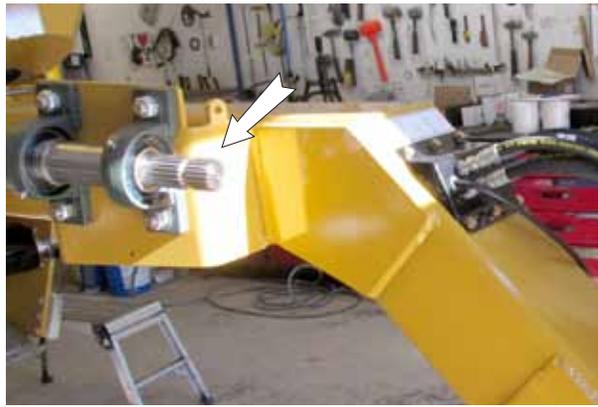
- f. Remove strap.



**Input End**

**FIG 5-7 INPUT END - GEARBOX DRIVELINE**

- 9 Install input driveline:
- a. Attach strap to driveline.



**Input Shaft**

- b. Move driveline to machine.
- c. Remove lock bolt from yoke.



**Lock Pin**

- d. Slide yoke over shaft.
- e. Align lock groove on shaft with lock pin hole.
- f. Apply 242 Loctite to lock bolt threads.
- g. Install lock bolt.



**Installed**

- h. Tighten bolt to 75 ft-lbs torque.
- i. Remove strap.

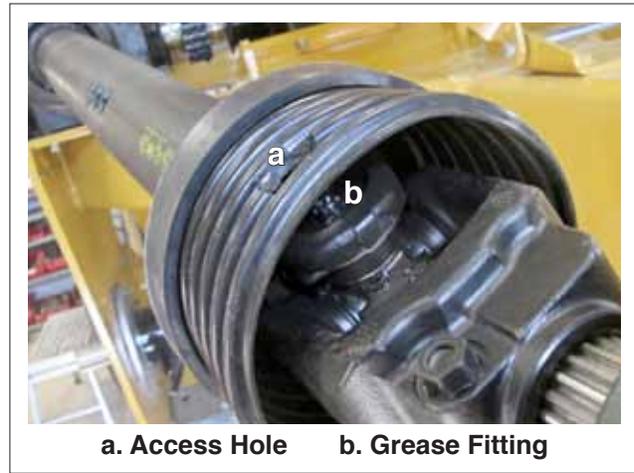


**Tightening**

**FIG 5-8 INPUT DRIVELINE**

10. Grease each driveline universal:

- a. Turn plastic guard to align access hole with grease fitting.
- b. Grease each universal.



**FIG 5-9    GREASING**

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