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MANUAL PREVIEW

Caterpillar

Service Manual

No. 21, 23,

24, 25 & 27

Cable Controls

Service Manual

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MANUAL PREVIEW

Caterpillar
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Cable Controls

NO. 27

NO. 25

NO. 24

NO. 23

NO. 21

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INSTALLING DRUM BEARING RETAINER

1—Retainer. 2—Rubber ring seal. 3—Oil seal. 4—Shims.

DRUM GEAR AND SHAFT

The drum gear shaft is mounted on two roller bearings which are mounted on the inside of the hub.

Removal

Take out the nine capscrews holding the hub to the case. Pull the hub using three $\frac{1}{2}$ "—13 (NC) puller screws. Remove the lock ring (1) from the hub and press out the bearing (2). To remove the drum shaft it



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REMOVING DRUM BEARING SUPPORT HUB

1—Lock ring. 2—Bearing.

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REMOVING SHEAVE SUPPORT BRACKET

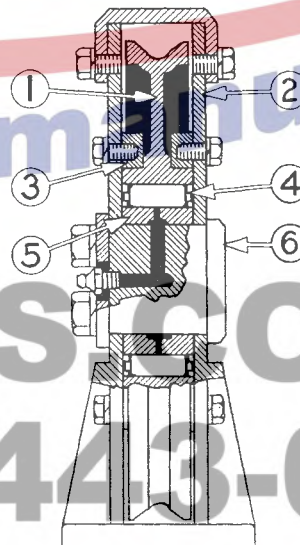


Remove the fair lead sheave shrouds by taking out the eight capscrews holding the retainer to the cable control case. They are mounted to the case on a double-row ball bearing (5). When the bearings are worn they can be replaced easily. Bend the nut lock, remove the retaining nut and take out the bearing.

All the sheaves are mounted to the shrouds in the same manner. Remove the two capscrews holding the shaft to the retainer washer. Take out the four capscrews on each side of the shroud which hold the retainer (3) in place. Remove the shaft (6) and pull the sheave (1), retainers (3), bearing (4), bearing race (5) from the shroud (2).



ADJUSTING THE SWIVEL SHEAVE BRACKET BEARING



SHEAVE ASSEMBLY

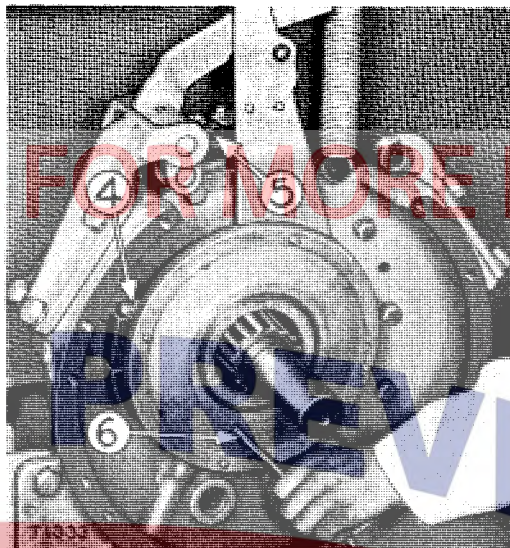
1—Sheave. 2—Shroud. 3—Retainer.
4—Bearing. 5—Bearing race. 6—Shaft.

Assembly

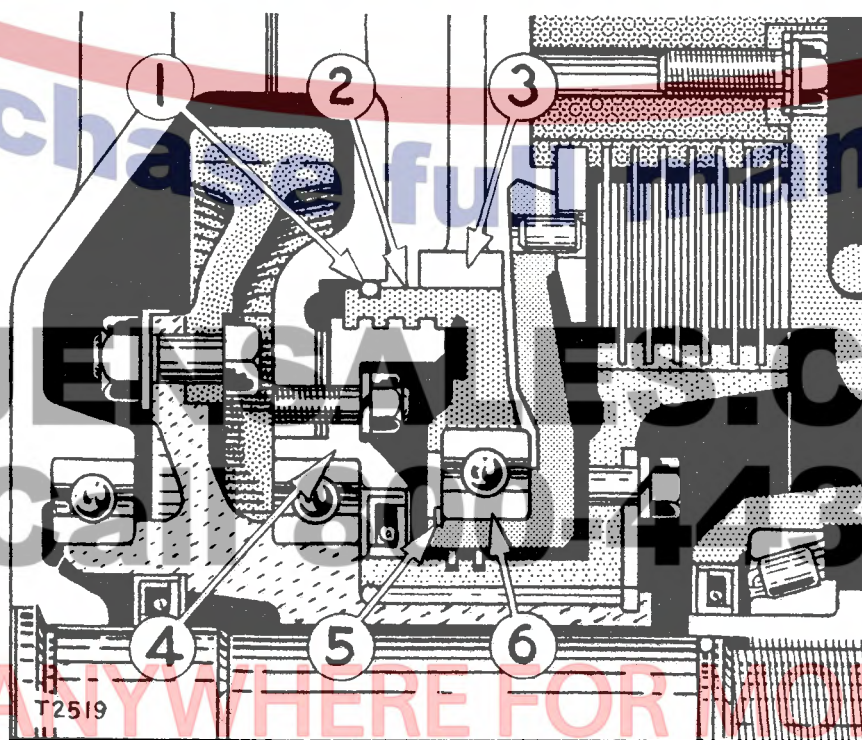
Assemble in the reverse order of removal making sure the oil seals and bearings have been replaced if damaged or worn.

REMOVING CLUTCH ENGAGEMENT ASSEMBLY

4—Clamp bolt. 5—Clutch lever return spring. 6—Punch in aligning hole.



Turn the flange and nut with the punch until the clutch nut is off the clutch screw. Remove the rubber oil seal (1), engagement lever (3) and lock ring (5). Remove the clutch engagement nut (2) and bearing (6) from the flange by tapping the engagement nut with a punch through the hole in the flange. Take off the six stud nuts and remove the clutch engagement screw (4) by using two $\frac{3}{8}$ "—16 (NC) puller screws.



CLUTCH MECHANISM CROSS-SECTION (EARLY NO. 24 CONTROLS)

1—Rubber ring seal. 2—Clutch engagement nut. 3—Engagement lever.
4—Clutch engagement screw. 5—Lock ring. 6—Bearing.