



# Service Repair Manual

## **Models**

# D6R TRACK-TYPE TRACTOR

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Product: TRACK-TYPE TRACTOR

Model: D6R TRACK-TYPE TRACTOR 4HN

Configuration: D6R Track-Type Tractor LGP 4HN00001-UP (MACHINE) POWERED BY 3306 Engine

## Disassembly and Assembly D6R TRACK-TYPE TRACTOR POWER TRAIN

Media Number -SEN8357-02

Publication Date -01/05/2005

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SEN83570004

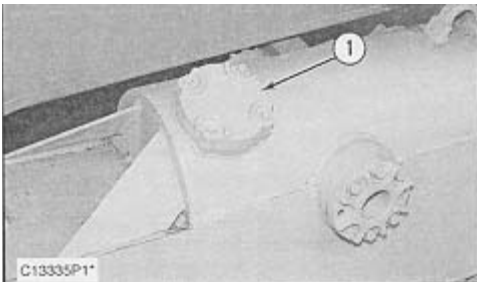
### Track

SMCS - 4170-015; 4170-016; 4170-076; 4170-077; 4170-010

### Separate Track

#### **WARNING**

**The machine must be on a level hard surface before a separation of the track is made. Any time a separation of both tracks is made the machine must have blocks correctly in position so the machine will not move.**



Typical

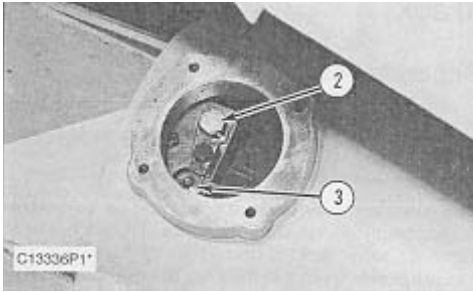
1. Remove track adjuster cover (1) and the O-ring seal from the roller frame.

#### **WARNING**

**The adjuster cylinder for the track is under high hydraulic pressure. Do not visually inspect the relief valve to see if grease is released when it is**

**open. Look to see that the track has loosened. Use this warning any time the tracks are loosened or tightened.**

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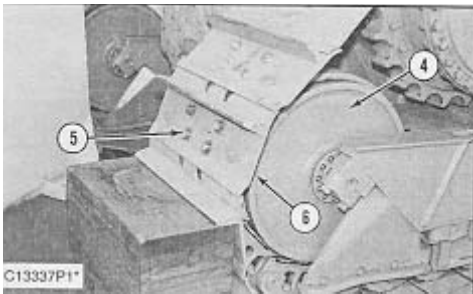


**2. Loosen the track as follows:**

**a.** Turn the relief valve (2) one turn counterclockwise to permit grease to be released from the track adjuster. If the track does not loosen go to Step b.

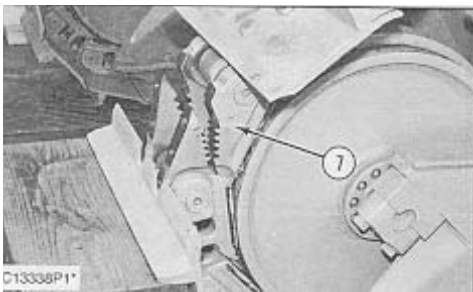
**b.** Turn fill valve (3) one turn counterclockwise to permit grease to be released from the track adjuster. If the track still does not loosen, start the machine and move it forward and backward. If grease is still not released go to Step c.

**c.** Install a piece of round bar stock between the bushing and sprocket inside the links. Move the machine to the rear so the track will be pushed up by the round bar stock. This will put tension on the track and move the track adjuster in.



**3.** Move the track until the master link is just above the centerline of rear idler (4). Put wood blocks under the grouser bar just below the master link. Move the track to the rear until it has rigid contact with the wooden blocks.

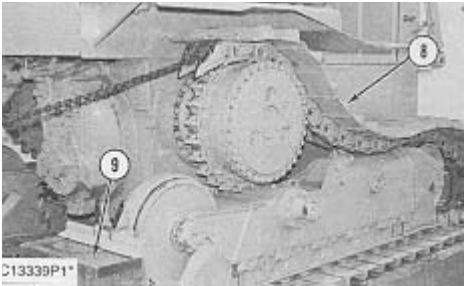
**4.** The weight of the master shoe is from **19.5 kg to 37.5 kg (43 lbs to 82.5 lbs)**, depending on which track the vehicle is equipped. Remove four bolts (5) and master shoe (6).



**5. Separate master link (7).**

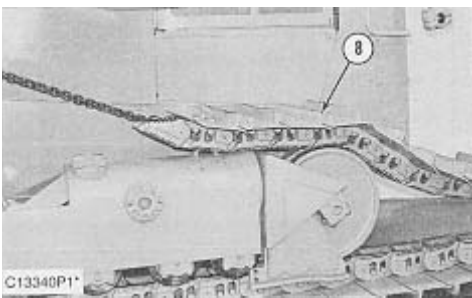
## **WARNING**

**Keep away from the front of the machine when the track is pushed off of the final drive. A minimum distance of 6.1 m (20 ft) is needed in front of the track to permit the track to move out on to the floor.**



6. Fasten a chain to the end of the track and to a wheel loader or similar machine. Turn the final drive in a forward direction and let track (8) fall forward, as the wheel loader or similar machine is moved forward.
7. The weight of the track is from **1676 to 2602 kg (3687 to 5724 lbs)** depending on which track the machine has on it. Lift the side of the machine and remove the track if necessary.

## **Connect Track**



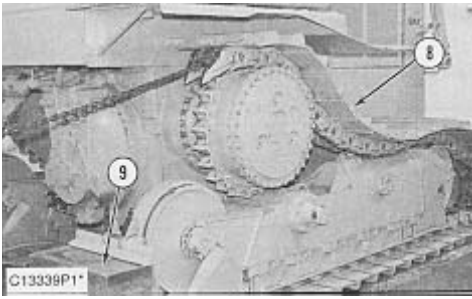
1. Put the track under the machine. Lower the side of the machine on to track (8).
2. Fasten one end of the chain to track (8) and the other end to a wheel loader or a similar machine.

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## **NOTICE**

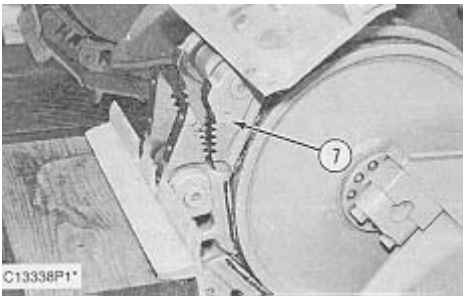
**To avoid damage to the track or to the machine, the track must be pulled in a straight line.**

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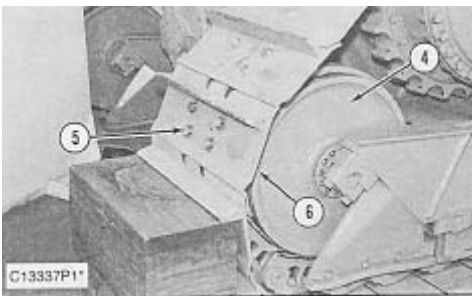


3. Pull the track until the track bushings engage with the sprocket segments on the final drive.
4. Start the machine and turn the final drive in a reverse direction to pull the track together.
5. Lift the end of the track and put wooden blocks (9) under the grouser as shown.

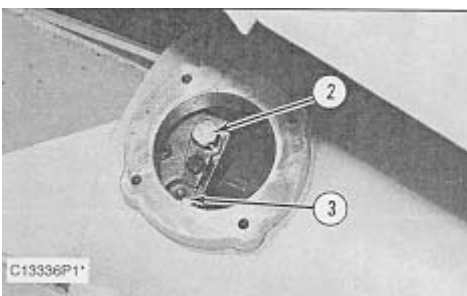
**NOTE:** Make sure the serrations on the master link are free of loose or thick rust, paint, and lubricants.



6. Align the lower end of master link (7) with the upper end of the master link. Make sure the teeth of both ends of the master link are engaged.



7. Put track shoe (6) in position on the master link. Put **2P2506 Thread Lubricant** on the threads, body and washer face of the master link bolts. Install bolts (5) that hold the master link together. Tighten the bolts to a torque of **400 ± 70 N·m (300 ± 50 lb ft)**. Tighten the bolts an additional 1/3 of a turn. For inspection purposes, after assembly, the final torque must be a minimum of **680 N·m (500 lb ft)**.



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