



A6474X378
February 2012

Operation and Maintenance Manual

CM235 Continuous Miner

A6474X (Mechanical - Gathering Head/Conveyor)

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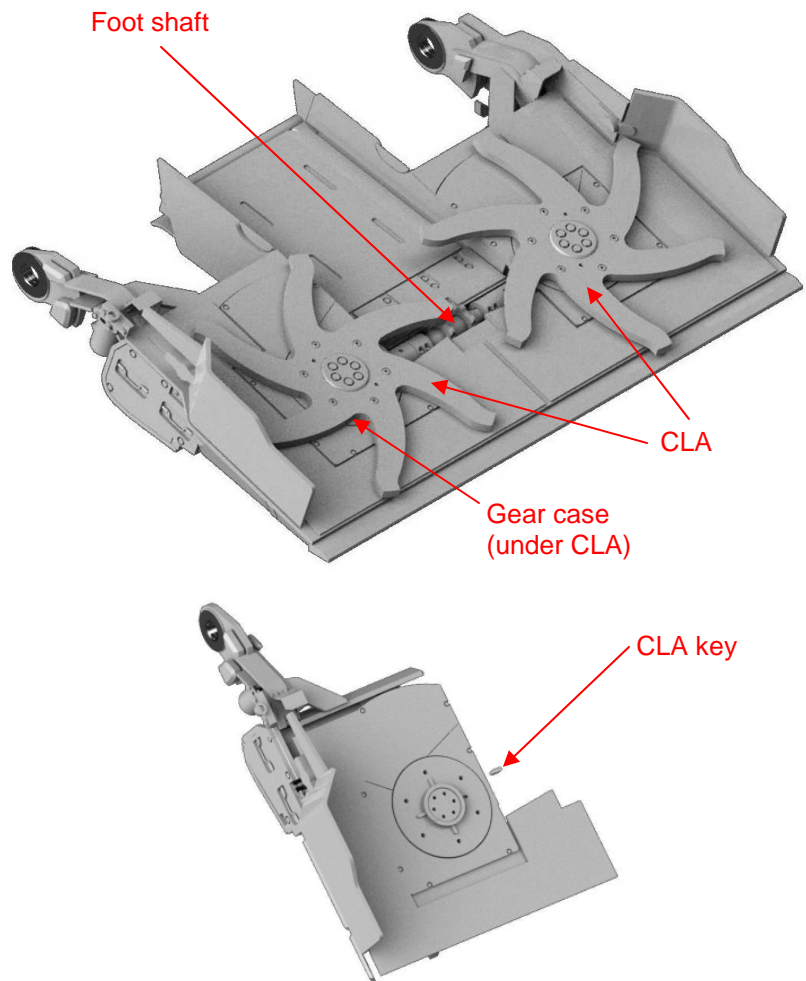
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Gathering Head Assembly

To remove the gathering head assembly:

1. Lower the conveyor tail section until it is level with the floor. Lower the gathering head (Fig. 1) until it rests on the floor. Place blocking under the rear of the gathering head to stabilize its position during and after removal of the pivot pins and disconnection of the lift cylinders.
2. Raise the cutter head to its highest point and place blocking underneath it. Lower the cutter head onto the blocking.
3. Disconnect the trailing cable to de-energize the miner. Follow all Federal and mine regulations for lockout/tagout.

Fig. 1: Gathering head assembly



10. Insert and tighten the two (2) 3/8" socket head capscrews and lock washers to secure clamp to the junction box.
11. Locate the motor's lug connections inside the junction box and match the motor lug connections to the corresponding power cable lugs.
12. Attach the first motor lug to its corresponding power cable lug by inserting a hex head capscrew through the power cable lug, through the motor lug, through a flat washer, and through a lock washer. Secure the capscrew with a hex nut.
13. Repeat this step with the other two power cable and motor lugged connections.
14. When all three connections have been secured, wrap each of the three connections with a layer of rubber tape, then a layer of electrical (black) tape, and finally a layer of glass tape.
15. Replace the junction box o-ring and junction box cover and secure the cover with four (4) 1/2" hex head capscrews and lock washers to secure the junction box cover.
16. Remove the pipe plug from the end of the motor (Fig. 7).
17. Slide the drive shaft through the gathering head motor and into the gathering head gear case (the drive shaft end without the threaded hole should be inserted first). The shaft may require some adjustment so that its end fits into the gear case.
18. Install the o-ring into the channel on the shaft end plug.
19. Insert the drive shaft end plug into position in the center of the motor.
20. Insert the retaining ring to secure the shaft end plug inside the motor housing.
21. Replace the pipe plug into the end of the motor.

**Gathering Head
Foot Shaft Removal**

To remove the gathering head foot shaft (Fig. 12):

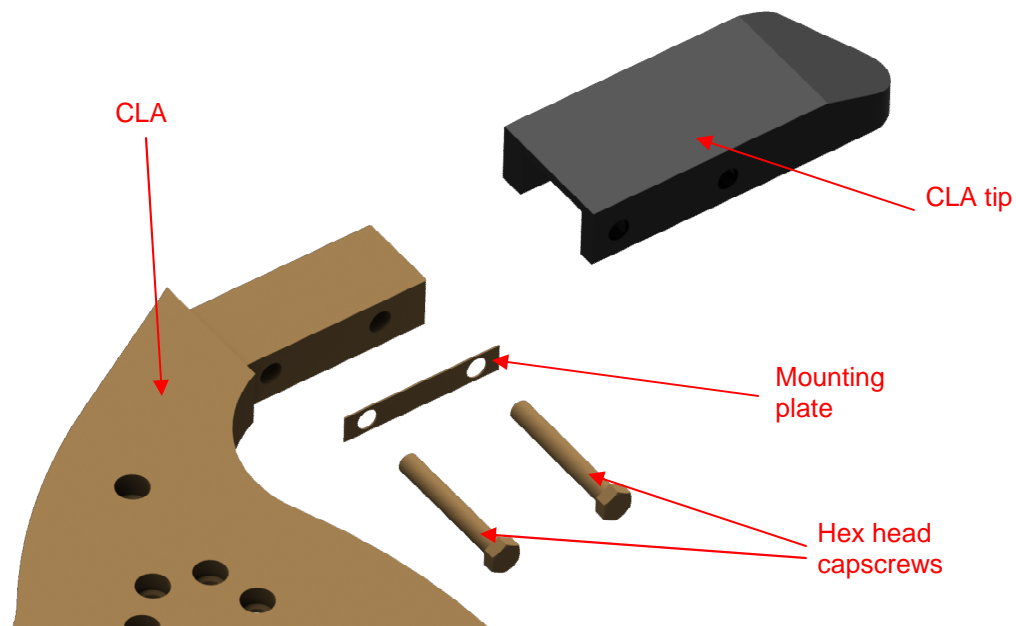
1. Lower the gathering head until it touches the floor.
2. Position the conveyor tail section directly behind the miner so that it is level with the floor.
3. Raise the cutter head assembly to its highest position. Place blocking underneath the cutter head assembly and lower the cutter head assembly onto the blocking.
4. Slowly advance the conveyor chain until a connecting link appears on the gathering head entrance pan.
5. Disconnect the trailing cable to de-energize the miner.
6. Loosen tension on the conveyor chain as much as possible (see Conveyor chain adjustment procedure in the Maintenance section of this manual).
7. With conveyor chain tension removed, remove the connecting link pins and the connecting link.
8. The conveyor chain should now be separated. Move the two pieces of the conveyor chain out of the way to allow for easier removal of the gathering head foot shaft.
9. Remove the hex head capscrews and lock washers that secure the foot shaft cover to the gathering head and remove the foot shaft cover.
10. Locate the two collars on the foot shaft and remove the eight (8) M12 X 60 hex head capscrews that secure each of the collars to the foot shaft. When the capscrews are removed, the flex lock nuts will fall free from the other side of the collar. Hand tighten new nuts onto their capscrews. Remove both collars from the foot shaft.
11. Slide the foot shaft couplings from the ends of the foot shaft toward the sprocket in the center. Once the couplings have been moved, the foot shaft is disconnected from the gear case bevel pinions.
12. The foot shaft can now be removed from the gathering head.

CLA tip installation

To replace a CLA tip (Fig. 18):

1. Lower the conveyor tail section until it is level with the floor. Lower the gathering head until it touches the floor.
2. Raise the cutter head assembly to its highest position. Place blocking under the cutter head assembly, both on the floor and on the gathering head. Lower the cutter head assembly onto the blocking.
3. Disconnect the trailing cable to de-energize the miner. Follow all Federal and mine regulations for lockout/tagout.
4. Locate the CLA tip (Fig. 18) which requires replacement.
5. Remove the hex head capscrews (Fig. 18) and mounting plate that secure the tip to the CLA.
6. Use force as necessary to remove the tip from the CLA.
7. Slide the new tip onto the CLA.
8. Insert and tighten the hex head capscrews through the tip and the CLA.

Fig. 18: CLA tip installation



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