

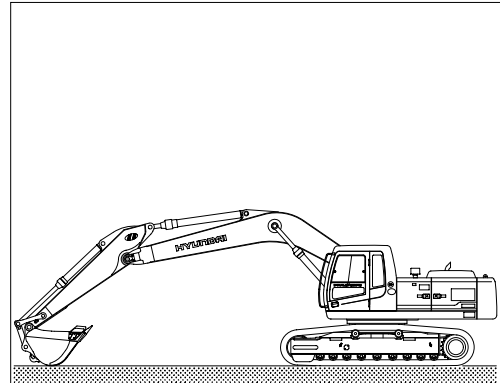
### 3. DISASSEMBLING FOR TRANSPORTATION

#### 1) DISCONNECTING HYDRAULIC HOSES AND LINES

- (1) Position the machine on flat, firm and level ground.
- (2) Retract the bucket cylinder and arm cylinder completely.
- (3) Lower the boom to the ground as shown.
- (4) Stop the engine.
- (5) Move the safety lever down to lock the system securely.  
※ Refer to the page 3-14 for details.
- (6) Turn the engine start switch to ON position.  
Do not start the engine.
- (7) Pull up the safety lever, Move the left and right operating levers, respectively to the full extension in all directions to remove internal pressure from the hydraulic circuits.
- (8) Turn the star switch to OFF position.
- (9) Release internal pressure in the hydraulic tank through the air breather of the hydraulic tank.
- (10) Disconnect hoses and lines.  
※ **Treat oil in an environmentally safe way.**
- (11) Dismantle the components (boom, arm, counter-weight etc.)

**▲ Immediately after operating the machine, the hot hydraulic oil can cause severe burns to unprotected skin.**

**▲ These may be residual hydraulic pressure can remain in the hydraulic system.  
Serious injury may result if this residual pressure is not released before any service is done on the hydraulic system.**



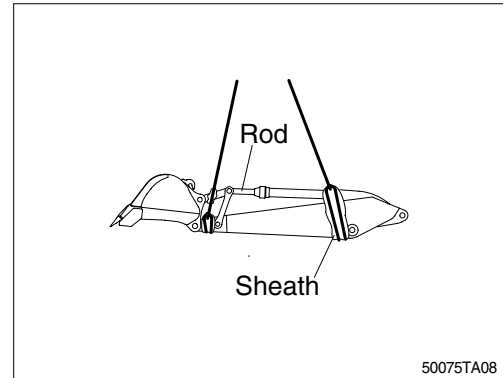
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## 2) DISASSEMBLING ATTACHMENT

※ Follow the disconnecting hydraulic hoses and lines procedure before disassemble the components.

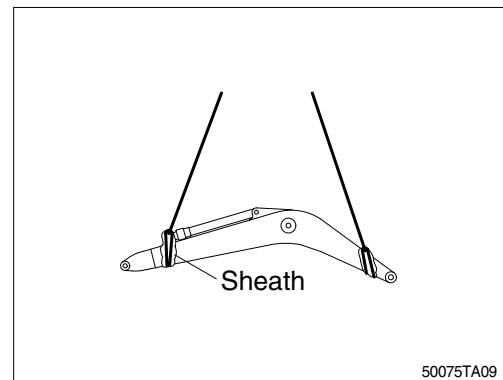
### (1) Bucket and arm with bucket cylinder

Use cable sheaths to protect the lifting cable from being damaged by the edges of the arm.  
Protect piston rod and the cylinder tube.



### (2) Boom with arm cylinder

Use cable sheaths to protect the lifting cable from being damaged by the edges of the boom.  
Secure piston rod of the arm cylinder to the cylinder tube.



### 3) COUNTERWEIGHT REMOVAL AND INSTALLATION

#### (1) Counterweight removal

- ① Position the machine on flat, firm and level ground, free from any obstruction or interference.
- ② Keep the service position.
- ③ Push down the safety locking lever securely.  
Move the safety lever down to lock the system securely.  
※ Refer to the page 3-14 for details.
- ④ As shown in the illustration, connect the lifting cables or slings with sufficient strength for the counterweight at the lifting eye correctly.
- ⑤ Disassemble four bolts.
- ⑥ Lift the counterweight enough.
- ⑦ Place the counterweight onto suitable support.

#### (2) Counterweight installation

- ① Carry out installation in the reverse order to removal.
  - Tightening torque :  $390 \pm 40 \text{ kgf} \cdot \text{m}$  ( $280 \pm 290 \text{ lbf} \cdot \text{ft}$ )
- ▲ Move the safety locking lever down to lock the system securely, See safety locking system on page 3-14. And attach a warning tag(Do not start the engine) to the left operating lever.
- ▲ Personal injury or death can occur from a counterweight falling during installation.  
Do not allow personnel under or around the counterweight during installation.
- ▲ Use certified cables and shackles of adequate load rating. Improper lifting can allow the load to shift and cause injury or death.

