

## 9. TOWING THE MACHINE

**▲ Personal injury or death can result when you tow a disabled machine incorrectly.**

**Read the following recommendations.**

※ Towing the backhoe loader is not recommended.

If your machine is disabled, you must make a judgement if the machine can be moved without damage. If possible, repair the machine at the job site.

The towing machine must have power, steering and braking ability to stop both machines. The speed at which the disabled machine is moved, must not exceed 10 km per hour (6 mph).

The machines must be attached as closely as possible.

The disabled machine must be moved only far enough to reach a safe repair location or onto a trailer.

Before moving a disabled machine you must be able to answer these questions :

- Does the towing machine have braking and steering capacity for both machines?
- Does the towing hardware, chains, cables, have the proper capacity to move the machine safely?
- Will the disabled machine have steering and braking capability?
- Will moving the machine cause damage to drivetrain or moving parts that lack lubrication?

Additional considerations :

- Be certain that all personal involved are shielded in the event that towing apparatus might break.
- An operator may only be allowed on the towed vehicle if the has steering and braking capability.
- Always block the disabled machines wheels before releasing the brakes or drivetrain component.

※ The backhoe loader engine may not be started by towing the machine. The drivetrain components will be damaged.

### 1) ENGINE RUNNING

- (1) Engage the parking brake.
- (2) Block the wheels with wheel chocks.
- (3) Place the FNR lever in neutral.
- (4) Place the 4 wheel drive select switch in off position.
- (5) Raise all tools and attachments off the ground.
- (6) Attach a rigid drawbar to the machine. Make sure the towing machine has enough power and braking ability to move and stop both machines.
- (7) Remove wheel chocks.
- (8) Release the parking brake.
- (9) No riders - keep all other persons completely out of the area.
- (10) Tow the disabled machine at a maximum speed of 10 km (6 mph). Do not exceed this speed.

## 2) ENGINE STOPPED

- (1) Engage the parking brake.
- (2) Block the wheels with wheel chocks.
- (3) Place the transmission in neutral.
- (4) Place the FNR lever in neutral.
- (5) Place the 4 wheel drive select switch in off position.
- (6) Raise all tools and attachments off the ground.
- (7) Attach a rigid drawbar to the machine. Make sure the towing machine has enough power and braking ability to move and stop both machines.

### (8) Manual release for parking brake

- ① Loosen lock nut and turn in adjusting screws evenly until preload of the cup spring is compensated and the disc pack is released.
  - ※ Evenly turning in the two adjusting screws prevents the brake piston from twisting.
- ② Any time the parking brake has been actuated due to an emergency braking (e.g. caused by a hydraulic system failure on the machine), **replace the discs of the parking brake.**

Ensure operability of the parking brake after dislocating the machine or after repair work. For this purpose turn both adjusting screws evenly back to their initial position and lock by lock nuts.

Adjust installation dimension

$$Y = 29 \pm 2 \text{ mm}$$

See figure - on both adjusting screws.

- Tightening torque (lock nut, M10 × 1) :  
4.69 kgf · m (33.9 lbf · ft)

- (9) Remove wheel chocks.
- (10) Release the parking brake.
- (11) No riders - keep all other persons completely out of the area.
- (12) Tow the disabled machine at a maximum speed of 10 km (6 mph). Do not exceed this speed.

