

## Adjusting Self-leveling

### ■ IMPORTANT

- When checking, park the tractor on flat and hard ground, set the range shift lever in neutral, apply parking brake, stay clear of operating area while setting self leveling.

### ■ NOTE

- In the case that both the quick attach pallet fork and quick attach bucket are used, set the self leveling for the quick attach pallet fork.
- Magnetic inclinometer is required to measure the angle of rise or drop of attachment (hardware or tool shop).

### ■ Raise Leveling Adjustment

- Start the engine and set at 2000 min<sup>-1</sup> (rpm).
- Set the bucket (or pallet fork) flat on the ground and raise the boom to the maximum height.
- If the bucket (or pallet fork) angle is not within the positive or up angle shown in the illustration, readjustment is required. (No down or negative angle is acceptable.) Lower the boom and loosen the lock nut (3) then adjust by raising adjuster (2) with the appropriate allen wrench as follows.
  - Bucket (or pallet fork) forward tilt : Raising adjuster "IN"
  - Bucket (or pallet fork) back tilt : Raising adjuster "OUT"
 (Typically 1/2 turn is a good increment of change)
- Tighten the lock nut (6) with the specified torque as shown below.

### ■ IMPORTANT

- The torque for the locking nut is very important, if the locking nut is over torqued, it will break the adjusting screw.
- Avoid loosening of adjustment screws by 5 turns or more with reference to the fully-tightened position because over-loosening may cause loss of the screws. As a guide, the head portion of the adjustment screw protrudes by about 13 mm from the locknut when the adjustment screw is loosened by 5 turns.

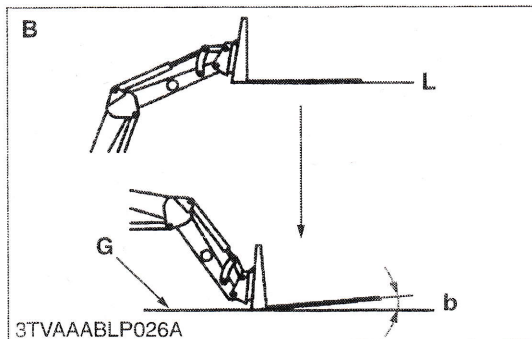
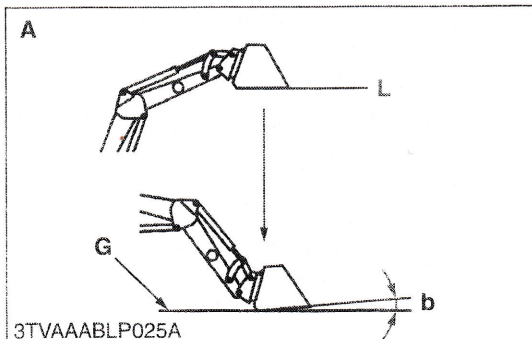
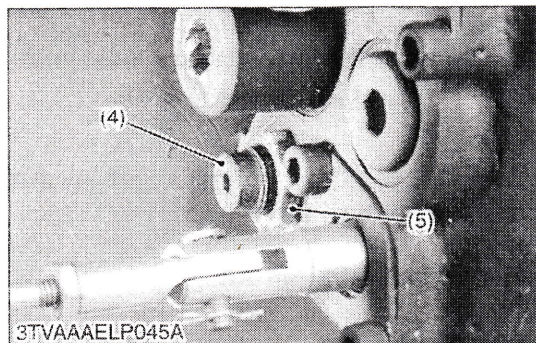
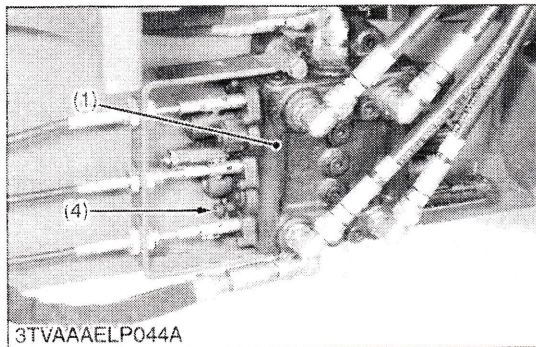
Raise bucket (or pallet fork) angle "a"	Factory spec.	0 ° to 3 ° [Bucket (or pallet fork) back tilt]
Tightening torque	Lock nut	18.7 to 20.5 N·m 1.9 to 2.1 kgf·m 13.8 to 15.1 ft-lbs

- (1) Front Loader Control Valve  
(2) Raising Adjuster  
(3) Lock Nut

- A : Loader with standard pin on bucket  
B : Loader with quick attach pallet fork  
G : Ground line  
L : Level  
a : 0 ° to 3 ° or No "Down"

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### Adjusting Self-leveling (Continued)

#### ■ Lower Leveling Adjustment

1. Start the engine and set at 2000 min<sup>-1</sup> (rpm).
2. Set the boom in the maximum raised position and the bucket (or pallet fork) parallel to the ground.
3. Lower the boom until the bucket (or pallet fork) slightly contact to the ground.
4. If the bucket (or pallet fork) angle is not within the positive or up angle shown in the illustration, readjustment is required. (No down or negative angle is acceptable.) Loosen the lock nut then adjust by lowering adjuster with the appropriate allen wrench as follows.
  - Bucket (or pallet fork) forward tilt: Lowering Adjuster "OUT"
  - Bucket (or pallet fork) back tilt: Lowering Adjuster "IN"
  - (Typically 1/2 turn is a good increment of change)
5. Tighten the lock nut with the specified torque as shown below.

#### ■ IMPORTANT

- The torque for the locking nut is very important, if the locking nut is over torqued, it will break the adjusting screw.
- Avoid loosening of adjustment screws by 5 turns or more with reference to the fully-tightened position because over-loosening may cause loss of the screws. As a guide, the head portion of the adjustment screw protrudes by about 13 mm from the locknut when the adjustment screw is loosened by 5 turns.

Lower bucket (or pallet fork) angle "b"	Factory spec.	0° to 3° [Bucket (or pallet fork) back tilt]
Tightening torque	Lock nut	18.7 to 20.5 N·m 1.9 to 2.1 kgf·m 13.8 to 15.1 ft-lbs

- (1) Front Loader Control Valve  
(4) Lowering Adjuster  
(5) Lock Nut

- A : Loader with standard pin on bucket  
B : Loader with quick attach pallet fork  
G : Ground line  
L : Level  
R : Rear side of tractor  
F : Front side of tractor  
b : 0° to 3° or No "Down"

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