



**LS160**  
**LS170**

**Workshop  
Manual**

LS160 - Valid from Serial No. LMU029683 and up  
LS170 - Valid from Serial No. LMU028259 and up

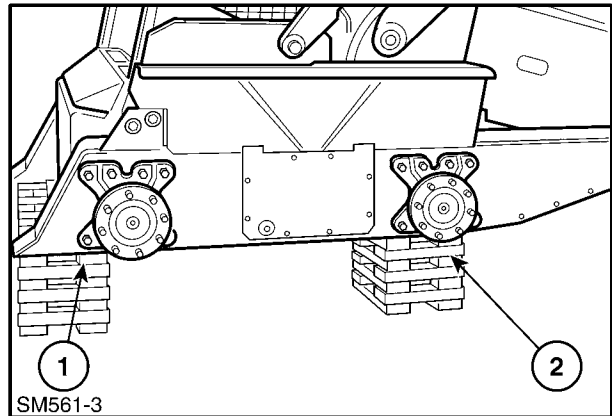


PROVEN PERFORMANCE

**PROPERLY SUPPORT A RAISED MACHINE**

If servicing neutral adjustment, final drive adjustment or repairs requiring the machine to be raised, securely support the machine with adequate jack stands or blocks as shown.

Support the machine at 1 to the front of the final drive cases and to the rear at 2, making sure the supports are on the flat area of the final drive cases.

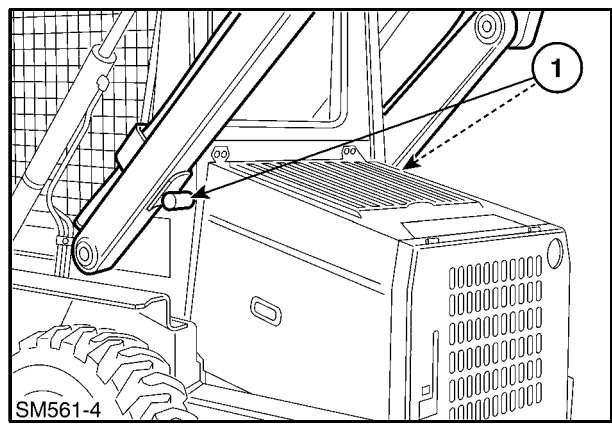


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**PROPERLY SUPPORT BOOM ON BOOM LOCK PINS**

Before servicing the machine or any of its attached equipment, be sure that the attachments are lowered to the ground or the boom arms are supported by the boom lock pins, 1.

If the boom is to be raised on the boom lock pins, remove any attachment. Opening a hydraulic line could cause a mounted attachment to dump over unexpectedly.

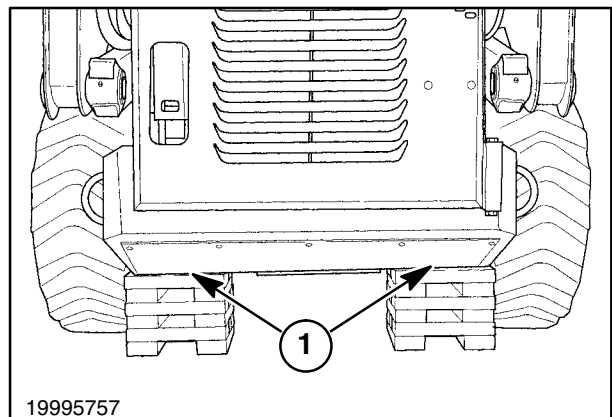


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**RAISING BOOM WITHOUT HYDRAULIC OIL FLOW**

**(Engine or Hydraulic System not functioning)**

1. Remove any attachment from the boom mounting plate.
2. Block the rear of the skid steer under the rear of the final drive cases, 1, as shown. This will prevent the front wheels from raising during boom lifting.



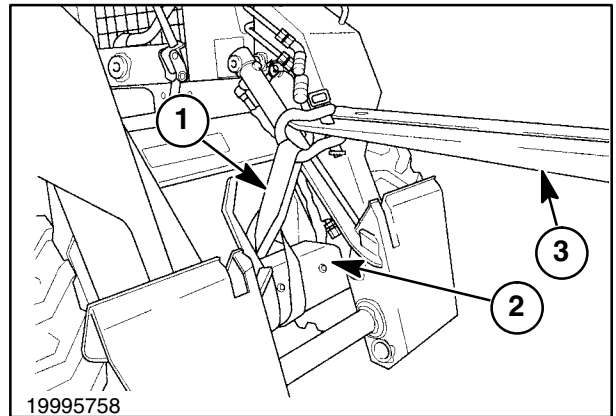
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SECTION 00 - GENERAL INFORMATION

3. Attach a chain or strap, 1, to the main boom, 2, and lifting device, 3. Attach chain or strap securely to prevent unhooking during boom lifting.

**CAUTION**

**Attach suitable chains or straps capable of handling the weight of the boom, 454 kg (1000 lbs). Attach chains securely to prevent them from coming loose during lifting of the boom.**

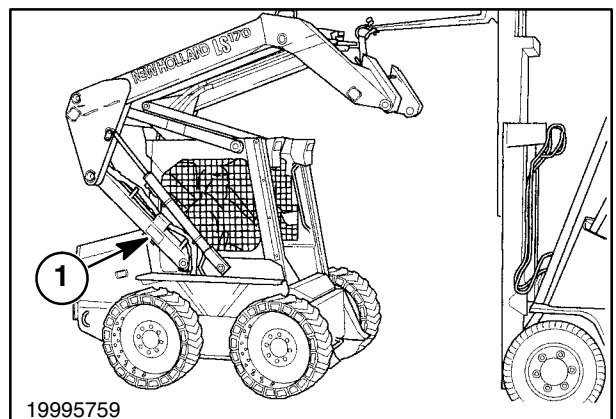


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4. With an Operator sitting in the Operator's seat with the seat belt buckled.
5. Turn the ignition key to the "ON" position. Foot controls, press the toe of the left foot pedal, boom control, or hand controls, pivot the left hand control lever down, into the boom float position.
6. Slowly raise the boom above the boom lock pins, 1.
7. Operator sitting in seat, engage the boom lock pins, 1.
8. Lower the boom and rest on the boom lock pins, 1.
9. Return the boom control to the "NEUTRAL" position.
10. Turn the ignition key to the "OFF" position.

**CAUTION**

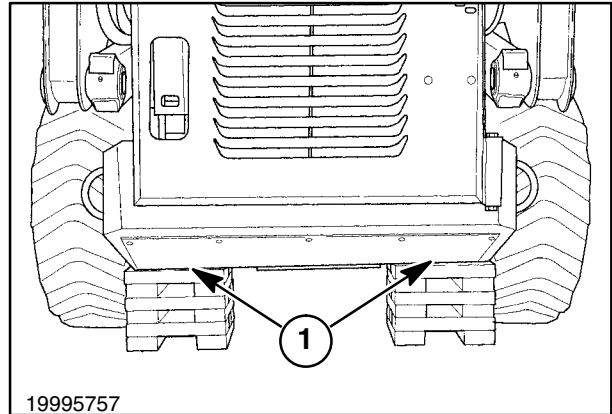
**The operator must not leave the operator's seat until the boom is resting solidly on the boom lock pins. The boom could drop suddenly if lifting devices should fail.**



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**RAISING BOOM WITHOUT BATTERY VOLTAGE (12 VOLTS)**

1. Remove any attachment from the boom mounting plate.
2. Block the rear of the skid steer under the rear of the final drive cases, 1, as shown. This will prevent the front wheels from raising during boom lifting.

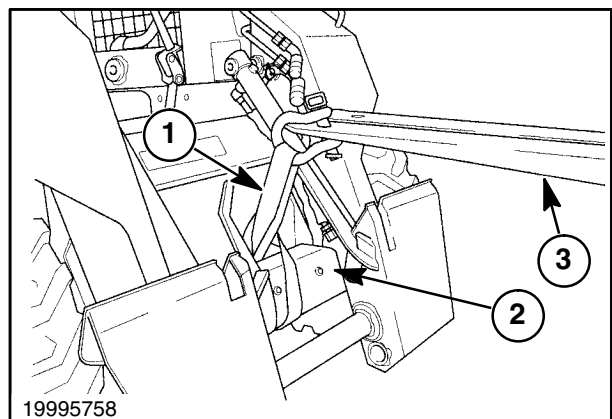


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3. Attach a chain or strap, 1, to the main boom, 2, and lifting device, 3. Attach chain or strap securely to prevent unhooking during boom lifting.

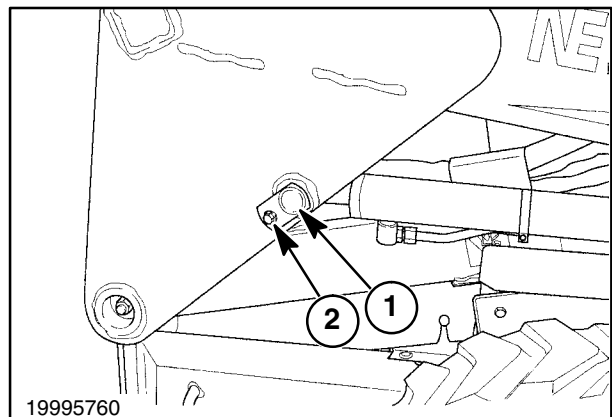


**Attach suitable chains or straps capable of handling the weight of the boom, 454 kg (1000 lbs). Attach chains securely to prevent them from coming loose during lifting of the boom.**



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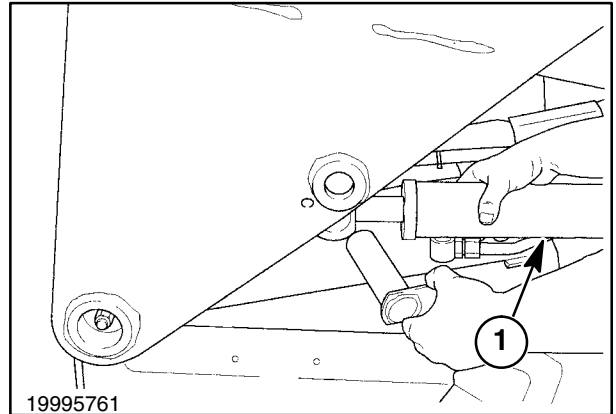
4. Remove the rod end (top) pivot pins, 1, from both cylinders by removing the retaining hardware, 2, from pivot pin and boom.



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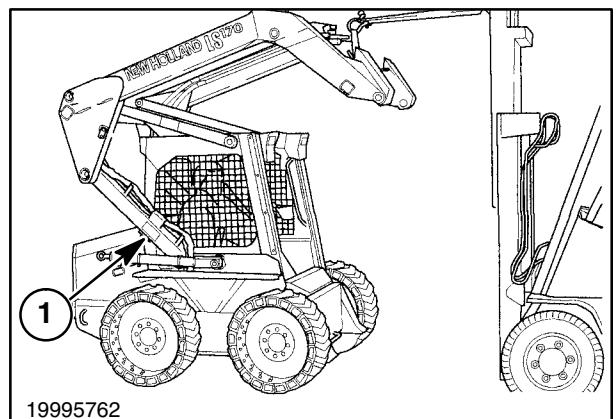
SECTION 00 - GENERAL INFORMATION

5. Support the cylinders on the fenders, 1, as shown.



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6. With an Operator sitting in the Operator's seat with the seat belt buckled, slowly raise the boom above the boom lock pins, 1.
7. Operator (sitting in the seat) engages the boom lock pins, 1.
8. Lower the boom and rest on the boom lock pins, 1.



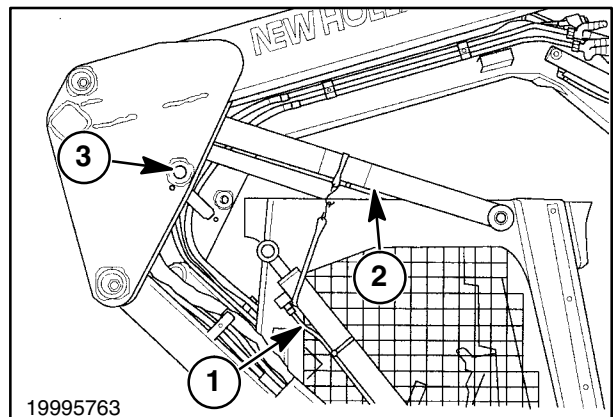
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**CAUTION**

The operator must not leave the operator's seat until the boom is resting solidly on the boom lock pins. The boom could drop suddenly if lifting devices should fail.

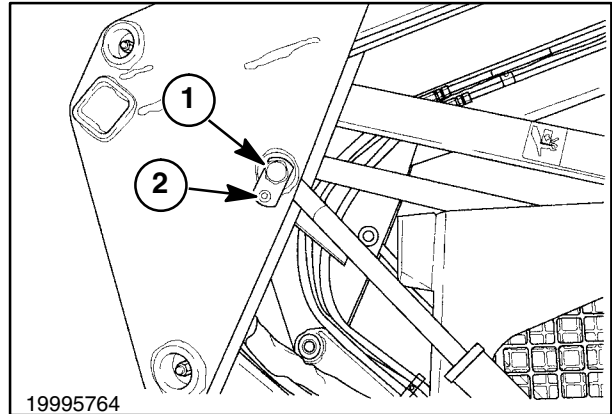
**REATTACHING CYLINDERS AFTER REPAIR WITH BOOM RESTING ON BOOM LOCK PINS**

1. Support the rod end of cylinders, 1, off the boom upper links, 2, to align with main boom cylinder pivot pin holes, 3.



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2. With operator sitting in the Operator's seat with seat belt buckled, start the engine and hydraulically extend cylinder rods to align cylinder with pivot pin, 1. Stop engine.
3. Turn the ignition key to the "ON" position. Move the boom control into "DETENT" (float) position with the left foot pedal (press toe down) or left hand control (push control lever down). Turn the ignition key to the "OFF" position.
4. If cylinder and boom are not properly aligned, use a pry bar to align cylinder and boom.
5. Install pivot pin, 1, and secure with retaining hardware, 2. Torque bolts to 38 N·m (28 ft. lbs.).
6. Start the engine and hydraulically extend the second cylinder rod to align cylinder with pivot pin. Stop engine.
7. If cylinder and boom are not properly aligned, sit in the operator's seat with seat buckled, turn the ignition key to the "ON" position. Move the boom control to the "DETENT (float) position and turn the ignition key to the "OFF" position.
8. Use a pry bar and align cylinder with boom and install pivot pin, 1, and retaining hardware, 2, and torque to 38 N·m (28 ft. lbs.).



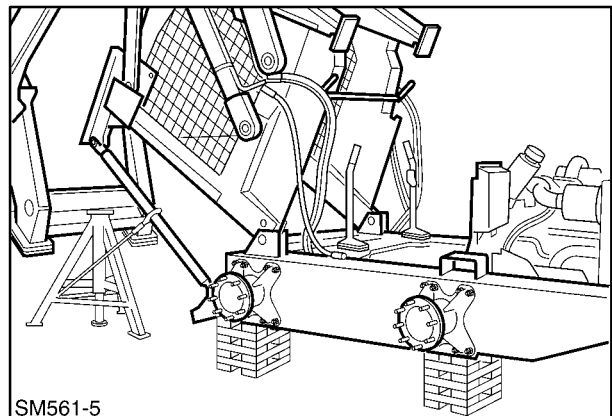
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### MAJOR UNIT OVERHAUL

For a major hydrostatic component or engine repair, the skid steer cab and boom assembly can be tilted forward for easier access to the components area. The figure shows the skid steer properly supported and the cab tilted forward.



**Never attempt to tilt the skid steer cab without using the proper tool and instructions. See more detail later in this section of the manual and/or contact your New Holland dealer.**

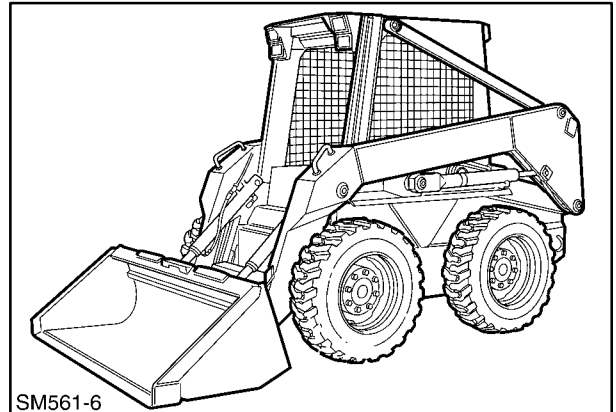


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**CAB AND BOOM TILT PROCEDURE**

The cab and boom assembly can be tilted forward for easier access to the major skid steer hydrostatic transmission or engine components. To tilt the cab, the proper cab tilting tool must be used to ensure safety and to prevent damage to the skid steer frame, cab, and boom structure. Contact your New Holland dealer for major service or repairs of the skid steer. Using the proper cab tilting tool and following these steps, the cab and boom can be tilted forward.

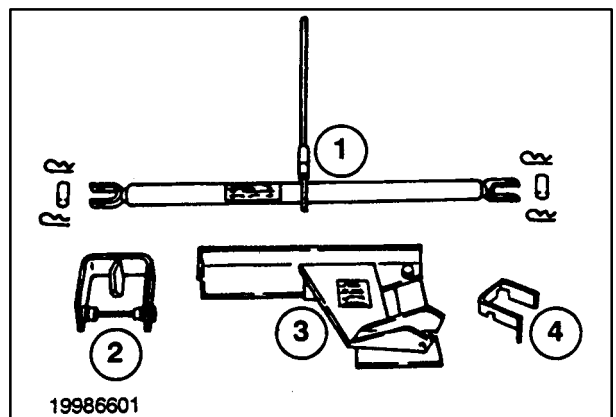
1. Remove any attachment, bucket, etc. from the boom quick-attach plate.



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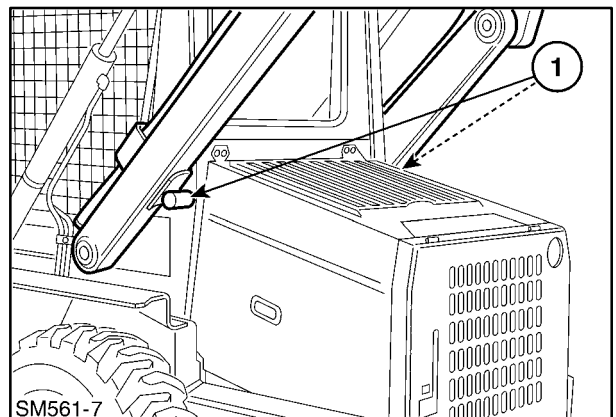
**Cab tilting jack and support brackets:**

- 1 Jack and screw assembly
- 2 Lower support
- 3 Upper support
- 4 Spacer top link



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2. Raise the boom and lower onto boom lock pins, 1.
  - Raise boom above boom lock pins.
  - Engage boom lock pins.
  - Stop engine, ignition key off position.
  - Turn ignition key to the on position.
  - Lower boom onto boom lock pins.
  - Turn the ignition key to the "OFF" position.



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