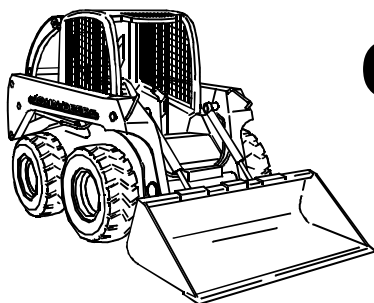


**Utility Backhoe
PRO850, PRO900, PRO911
for 240, 250, 260, 270 and
4475, 5575, 6675, 7775,
8875 Skid Steers**

(Serial No. 100100 –)



**OPERATOR'S
MANUAL**

**John Deere
Commercial Worksite Products**

OMKV16796 C0

North American Version
Litho in U.S.A
English

INTRODUCTION

THANK YOU for purchasing a John Deere product.

Read this manual and your vehicle manual thoroughly. Failure to do so could result in personal injury or equipment damage.



This manual should be considered a permanent part of your attachment and should remain with the attachment when you sell it.

Measurements in this manual are metric units and their U.S. customary equivalents. RIGHT-HAND and LEFT-HAND sides are determined by facing in the direction the machine will travel when going forward. When you see a broken line arrow (----->), it indicates the part it is pointing to is hidden.

Product warranty is provided as part of John Deere's support program for customers who operate and maintain their equipment as described in this manual. The product warranty is explained on the warranty certificate you received from your dealer.

Record identification numbers below. Be sure to record all the numbers to help in tracing the attachment if it is stolen. You also need to give these numbers to your authorized John Deere skid steer dealer when you order parts.

DATE OF PURCHASE:

DEALER NAME:

DEALER PHONE:

SERIAL NUMBER (A):

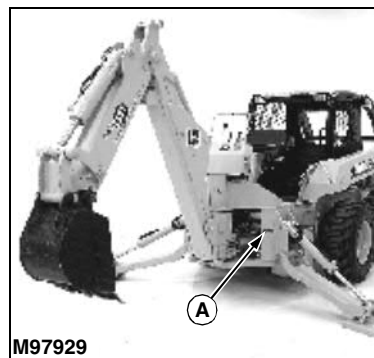


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SAFETY SIGNS

Safety-Alert Symbol

Read and recognize safety information. Be alert to the potential for personal injury when you see this safety-alert symbol.



On your machine safety labels, the words DANGER, WARNING, and CAUTION are used with this safety-alert symbol. DANGER identifies the most serious hazards. In this manual, the word CAUTION and this symbol call attention to safety messages.

Machine Safety Labels (PRO850 Backhoe)

WARNING (A)

- Seat mounting must be checked at regular intervals.
- Tighten if necessary.
- If cracks or rust occur replace this seat immediately.

DANGER (B)

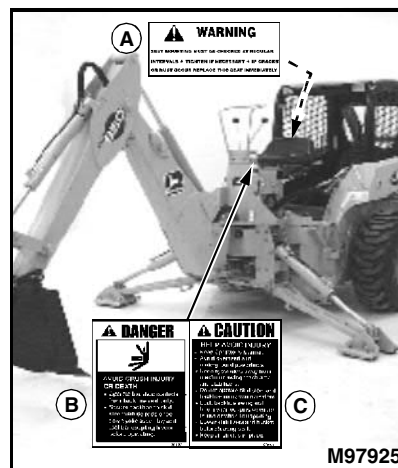
AVOID CRUSH INJURY OR DEATH

- Operate backhoe controls from backhoe seat only.
- Secure backhoe to skid steer with tie rods or tie down yoke assembly and tool bar coupling levers before operating.

CAUTION (C)

HELP AVOID INJURY

- Read Operator's Manual.
- Avoid overhead and underground powerlines.
- Keep bystanders away from maximum swing reach area and stabilizers.
- Do not operate skid steer and backhoe using two operators.
- Lock backhoe swing and boom with lockpins when not in use or when transporting.
- Lower stabilizers and bucket before leaving seat.
- Keep all shields in place.



SAFETY SIGNS

Machine Safety Labels (PRO900 and PRO911 Backhoes)

WARNING (A)

- Seat mounting must be checked at regular intervals.
- Tighten if necessary.
- If cracks or rust occur replace this seat immediately.

DANGER (B)

AVOID CRUSH INJURY OR DEATH

- Operate backhoe controls from backhoe seat only.
- Secure backhoe to skid steer with tie rods or tie down yoke assembly and tool bar coupling levers before operating.



CAUTION (C)

HELP AVOID INJURY

- Read Operator's Manual.
- Avoid overhead and underground powerlines.
- Keep bystanders away from maximum swing reach area and stabilizers.
- Do not operate skid steer and backhoe using two operators.
- Lock backhoe swing and boom with lockpins when not in use or when transporting.
- Lock swing lever, lower stabilizers and bucket before leaving seat.
- Keep all shields in place.

SAFETY SIGNS

Machine Safety Labels (PRO850, PRO900, and PRO911 Backhoes)

WARNING - DANGER

- DO NOT allow riders in the bucket.
- Never stand or lean anywhere on skid steer or linkage will crush you.



PREPARING THE VEHICLE

Skid Steer Equipment Requirements

Model 4475 skid steers require boom hydraulics and hand control handle kits for backhoe operation. If your unit is not equipped with this equipment, see your authorized John Deere skid steer dealer.

Ballasting Requirements

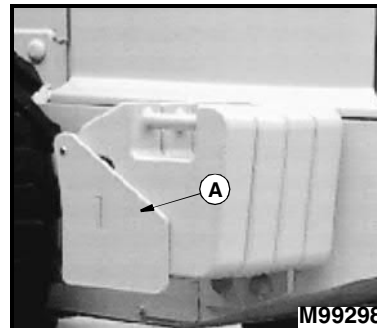


CAUTION: AVOID INJURY AND EQUIPMENT DAMAGE!
To maintain steering control and stability, always use the required rear ballast.

Rear ballast consist of a total of eight 20 kg (44 lb) Quik-Tatch weights mounted behind the rear skid steer tires. Rear ballast is required for the following skid steer/ backhoe combinations as follows:

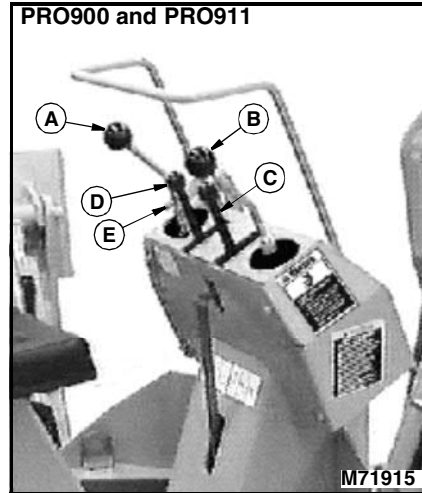
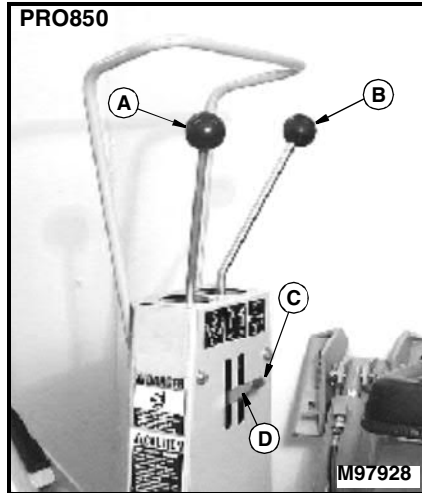
- Models 4475 and 5575 skid steers with PRO850 backhoe.
- Models 240 and 250, and 6675, 7775, and 8875 skid steers with PRO900 backhoe.
- Models 250, 260, and 270, and 6675, 7775, and 8875 skid steers with PRO911 backhoe.

Install rear weight brackets (A) and weights using the installation instructions supplied with the weight bracket kit. Ballasting kits are available at your authorized John Deere skid steer dealer.



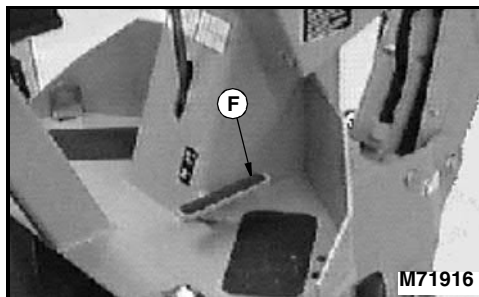
CONTROLS

Dash Controls



- A - Boom Lever – Raises and lowers boom and controls boom swing.
- B - Dipperstick Lever – Extends and retracts dipperstick and controls bucket curl and roll.
- C - Right Stabilizer Lever – Raises and lowers right stabilizer.
- D - Left Stabilizer Lever – Raises and lower left stabilier.
- E - Swing Lever Lock – (PRO900 and PRO911) Locks boom lever to prevent boom swing.

Foot Control (PRO911 Backhoe)



- F - Dipperstick Extender Lever – Extends and retracts outer dipstick.

INSTALLING

Park Skid Steer Safely

- Stop skid steer on a level surface, not on a slope.
- Lower boom to the ground.
- Engage the park brake.
- STOP the engine.
- Remove the key.
- Before you leave the operator's seat, wait for engine and all moving parts to STOP.
- Make sure the required ballast is installed on skid steer. (See Ballasting Requirements in the PREPARING THE VEHICLE section.)

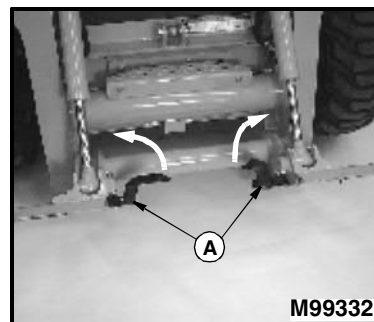
Install Backhoe (240, 250, 260, and 270 Skid Steers)



CAUTION: To avoid injury:

- **DO NOT** try to latch or unlatch handles from cab.
- **Be careful not to pinch hands between latch handle and step or latch handle and attachment.**

1. Pull latch handles (A) all the way upward to the UNLATCHED position.
2. Enter skid steer, fasten seat belt, and start the engine. Disengage park brake.
3. Drive skid steer so it is aligned straight behind the backhoe with boom lowered. Stop the skid steer.



INSTALLING

4. Using the bucket control pedal, tilt attaching plates (B) as shown.

5. Drive forward slowly and guide top edges of attaching plates under upper flange (C).

6. Using bucket control pedal, tilt attaching plates partially rearward until backhoe is hooked on plates.

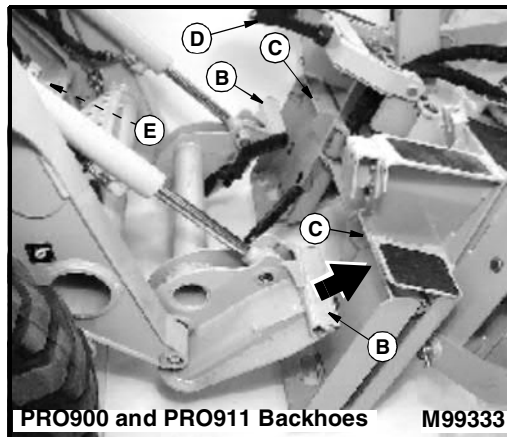
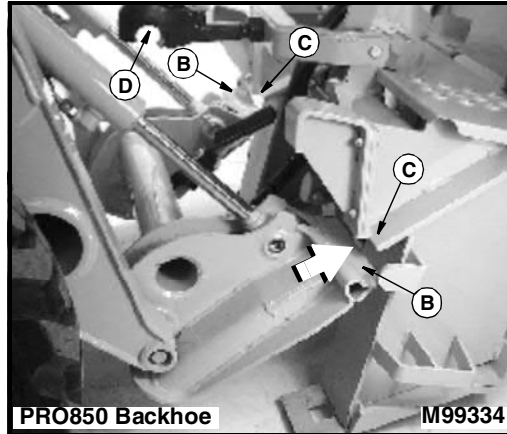
7. Using boom control pedal, raise boom slightly so hitch (D) is higher than ball (E) on skid steer backhoe bracket.

8. Using bucket control pedal, tilt attaching plates rearward as far as possible. Bottom surface of attaching plates must be tight against backhoe.

9. Using boom control pedal, lower boom completely so hitch rests on ball.

10. Engage the park brake and stop the engine.

11. Remove seat belt and exit the skid steer.



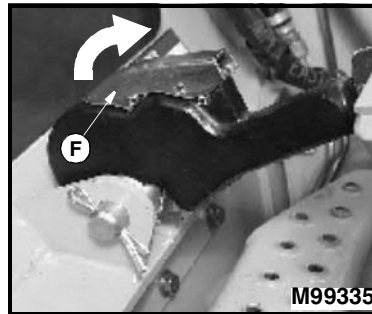
INSTALLING

IMPORTANT: Hitch tightness must be checked regularly to maintain proper backhoe support and prevent premature wear of the hitching assembly:

- Check hitch-to-yoke tightness after first 1 hour of operation each time backhoe is installed.
- Check hitch-to-yoke tightness every 10 hours thereafter.

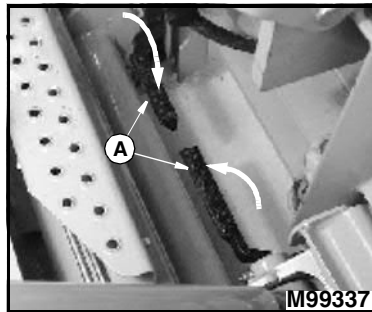
If hitch length is not adjusted properly, hitch may be difficult to latch or remove. See Adjusting Hitch Length in the SERVICE section.

12. Lift upward on hitch lock lever (F) to seat hitch onto ball. Release the lock lever and make sure hitch is secure.



CAUTION: To avoid injury, be sure pins and latch handles are secure before operating boom and bucket. If attachment is not securely latched, remove it and repeat the installation.

13. Push latch handles (A) downward completely to engage lock pins



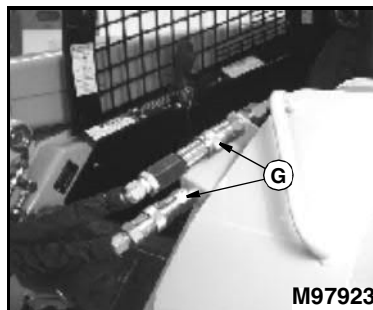
INSTALLING



CAUTION: Escaping fluid under pressure can penetrate the skin causing serious injury. Avoid the hazard by relieving pressure before disconnecting or connecting hydraulic and other lines. Tighten all connections before applying pressure. Search for leaks with a piece of cardboard. Protect hands and body from high pressure fluids.

14. Connect the backhoe hydraulic hoses to the skid steer hydraulic couplers (G) at left side of machine.

15. Test the hydraulic system. (See Test Backhoe Hydraulic System in this section.)



INSTALLING

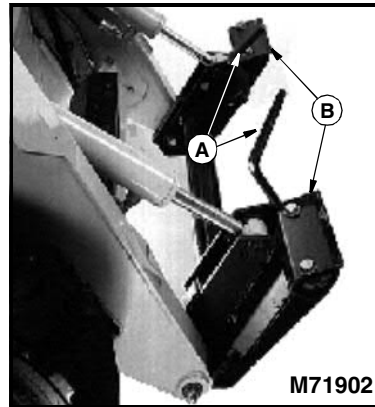
Install Backhoe (4475, 5575, 6675, 7775, and 8875 Skid Steers)



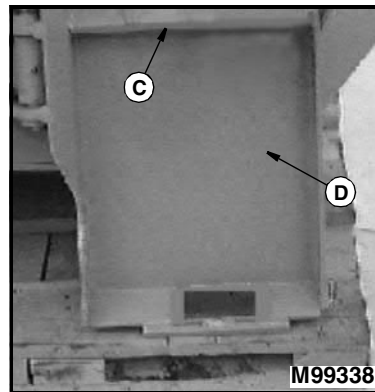
CAUTION: To avoid injury:

- **DO NOT** try to latch or unlatch handles from cab.
- **Be careful not to pinch hands between latch handle and step or latch handle and attachment.**

1. Rotate latch handles (A) all the way upward to the UNLATCHED position.
2. Enter skid steer, fasten seat belt, and start the engine. Disengage park brake.
3. Drive skid steer so it is aligned straight behind the backhoe with boom lowered. Stop the skid steer.
4. Using the bucket control pedal, tilt attaching plates (B) as shown.



5. Drive forward slowly and guide top edges of attaching plates under upper flange (C) of backhoe mounting brackets (D).
6. Using bucket control pedal, tilt attaching plates rearward as far as possible. Bottom surface of mounting plates must be tight against mounting brackets.
7. Engage park brake, stop engine, and remove the key.
8. Remove seat belt and exit the skid steer.

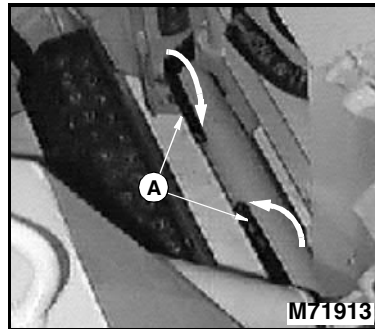


INSTALLING



CAUTION: To avoid injury, be sure pins and latch handles are secure before operating boom and bucket. If attachment is not securely latched, remove it and repeat the installation.

9. Push latch handles (A) downward completely to engage lock pins.



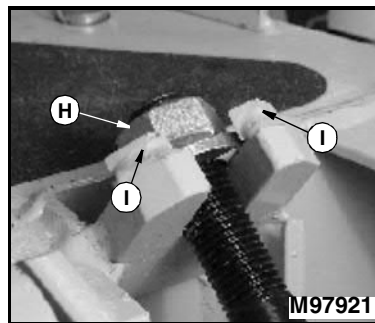
CAUTION: AVOID INJURY OR DEATH!
Never operate backhoe without tie rods installed.

10. Fasten the yoke side of tie rod (E) around hook on mounting plate (F).

11. Place threaded end of tie rod into notch in tie rod bracket (G) on backhoe.



12. Finger tighten tie rod nut (H), making sure it is seated flat against the tie rod bracket and behind welded stops (I).



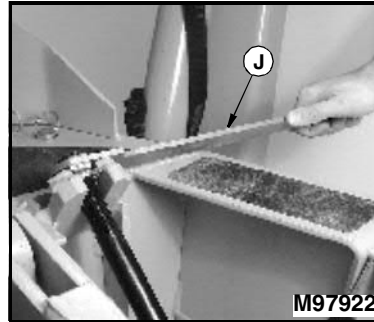
INSTALLING

IMPORTANT: Tie rods must not be loose. Check tightness of tie rod nuts regularly to maintain proper backhoe support and prevent premature wear or damage:

- Check tightness after first 1 hour of operation each time backhoe is installed.
- Check tightness every 10 hours thereafter.

13. Using special wrench (J), tighten the tie rod nut until some resistance is felt. Do not overtighten.

14. Install other tie rod in the same manner.

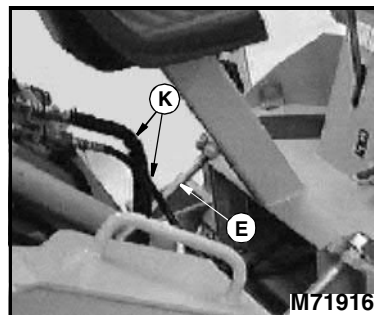


CAUTION: Escaping fluid under pressure can penetrate the skin causing serious injury. Avoid the hazard by relieving pressure before disconnecting or connecting hydraulic and other lines. Tighten all connections before applying pressure. Search for leaks with a piece of cardboard. Protect hands and body from high pressure fluids.

15. Route both backhoe hydraulic hoses (K) over left tie rod (E).

16. Connect the hydraulic hoses to the skid steer hydraulic couplers.

17. Test the hydraulic system. (See Test Backhoe Hydraulic System in this section.)



INSTALLING

Test Backhoe Hydraulic System

NOTE: If installing backhoe for the first time, return to the ASSEMBLY section for bucket installation instructions after testing the backhoe hydraulic system.

1. Remove the boom and swing lock pins from backhoe and place them in the storage location.
2. Enter skid steer, fasten seat belt, and start the engine.
3. Lock the park brake and put auxiliary boom hydraulic handle in the DETENT position so there is oil flow to the backhoe.
4. Remove seat belt and exit the skid steer.
5. Sitting in the backhoe operator's seat, raise and lower stabilizers.
6. Raise, lower, and swing the boom.
7. Extend and retract dipperstick.
8. Place backhoe in the TRANSPORT position.
9. Exit backhoe.
10. Pull auxiliary boom hydraulic handle upward, out of the DETENT position, and stop the skid steer engine.
11. Install the boom and swing lock pins.
12. Check skid steer hydraulic fluid level after testing hydraulic system. (See your skid steer operator's manual.)



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REMOVING

Prepare Backhoe for Removal

1. Put backhoe in TRANSPORT position. (See Transporting Backhoe in the OPERATING section.)

NOTE: Backhoe storage site should be a firm, level surface for ease of removal.

2. Drive skid steer to backhoe storage site. Maneuver backhoe into final position.

3. Engage park brake, remove seat belt, and exit skid steer.

4. Lower both stabilizers until pads (A) are approximately 60 cm (24 in.) above ground level.

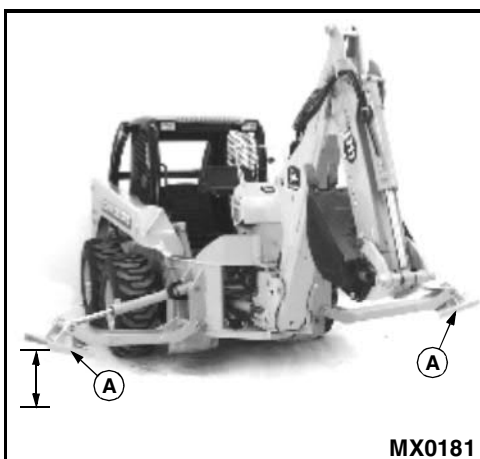
5. Enter skid steer.

6. Engage park brake, stop engine, and remove key.

7. Exit the skid steer.

8. Check the following:

- Make sure boom and swing lock pins are installed.
- PRO900 and PRO911 Only – Make sure swing lever lock is engaged.



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