

Hydraulic Mulch Activation Kit for 54-Inch and 60-Inch High Capacity Mower Decks (SN 070001-)

BUC10536



JOHN DEERE

INSTALLATION INSTRUCTIONS

Hydraulic Mulch Activation Kit for 54-Inch and 60-Inch High Capacity Mower Decks (SN 070001-)

UC17929 06MAR18 (ENGLISH)

X730, X734, X738, X739, X750, X754, X758, X940,
X948, X949 (SN 070001-)

**John Deere Horicon Works
UC17929 (06MAR18)**

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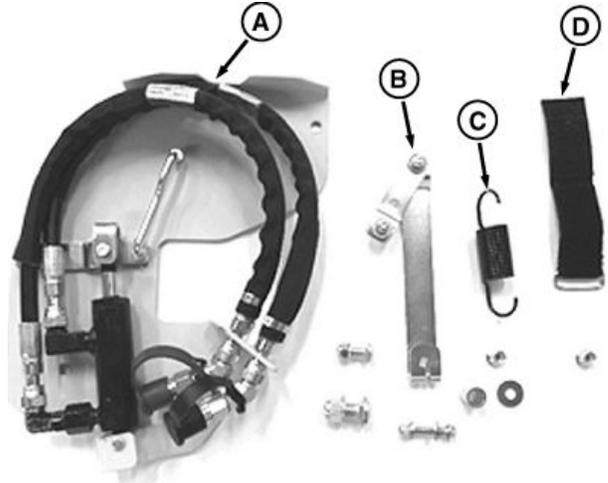
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A John Deere ILLUSTRATION™ Manual

UC17929-19-06MAR18

Parts in Kit

54-Inch and 60-Inch Mower Deck

Quantity	Description
1	Mounting Bracket Assembly (A)
1	Pivot Arm Assembly (B)
1	Spring (C)
1	Hook-and Loop Strap (D)
1	Bushing
1	Carriage Bolt, M12x25 (60HC only)
1	Locknut, Flange, M12 (60HC only)
2	Locknut, Flange, M8
1	Locknut, Flange, M8 (54HC only)
1	Carriage Bolt, M8x20, (54HC only)
1	Locknut, Flange, M6
1	Washer, 8.4x24x2
2	Washer, 6.4x18x1.6



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NOTE: Retain these installation instructions with your machine operator's manual.

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Parking Safely

1. Stop machine on a level surface, not on a slope.
2. Disengage mower blades or any other attachments.
3. Lower attachments to the ground.
4. Lock the park brake.
5. Stop the engine.
6. Remove the key.
7. Wait for engine and all moving parts to stop before you leave the operator seat.
8. Close fuel shutoff valve, if your machine is equipped.
9. Disconnect the negative battery cable or remove the spark plug wires (for gasoline engines) before servicing the machine.

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Remove Mower Deck

See REMOVING AND STORING section in mower deck operator's manual.

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Prepare Mower Deck

Mower Decks with MulchControl™ Kit Installed

1. Remove lock nut (A), washer (B), and spring (C).
2. Remove handle assembly (D).
3. Remove lock nut (E) from baffle bolt and remove detent plate (F).
4. Retain handle, detent plate, and hardware for future use.

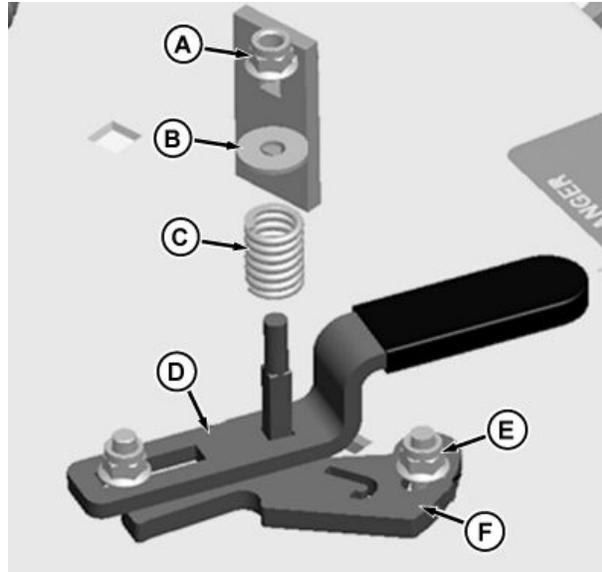
Mower Decks Without MulchControl™ Kit Installed

Refer to MulchControl™ Kit Operator's Manual for:

- Instructions on mower deck preparation.
- Instructions to assemble gate, install and adjust deflectors, and install mulch blades. Do not assemble or install the handle and detent plate.

After preparation, proceed with installation of Hydraulic Mulch Activation Kit.

1. Place mower deck on a hard level surface.
2. Use wooden blocks to prop up the front of the mower deck.



Picture Note: 60-Inch mower deck shown.

A—Lock Nut
B—Washer
C—Spring

D—Handle Assembly
E—Lock Nut
F—Detent Plate

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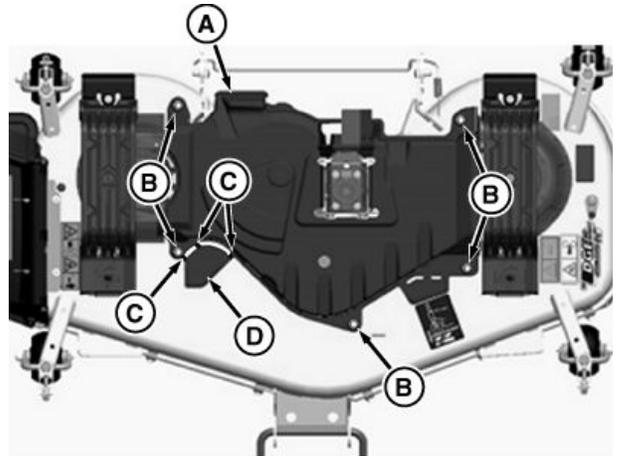
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If Mower Deck Shield Installed (European Models Only)

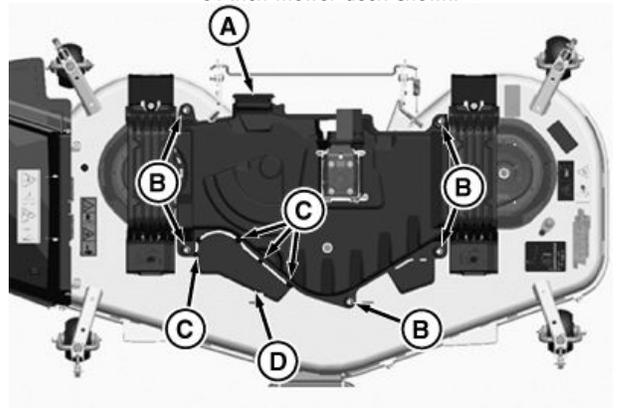
1. Install shield (A) to the mower deck using five self-tapping screws (B).
2. Cut along the slotted profile (C) and remove shield section (D).

A—Shield
B—Screw, Self-Tapping

C—Slotted Profile
D—Shield Section



54-Inch mower deck shown.



60-Inch mower deck shown.

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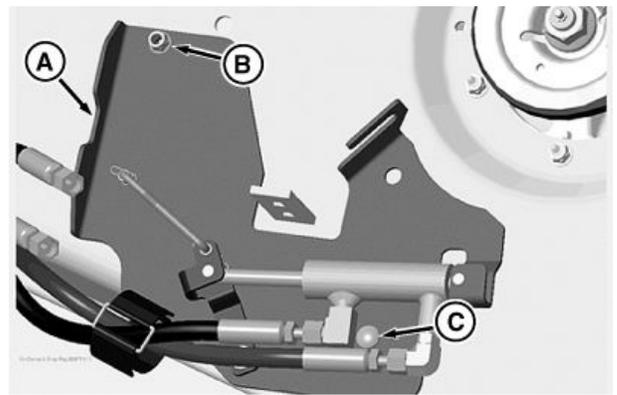
Install Mounting Bracket (54-Inch Mower Deck)

CAUTION: Avoid injury! Blades are sharp. Always wear gloves when handling blades or working near blades. Replace blades if defective. Never straighten or weld them.

1. Install mounting bracket (A) to mower deck with locknut (B) and carriage bolt (C) and M8 locknut as shown.
2. Tighten locknuts to specification.

Specification

Locknut, Flange,
M8—Torque.....25 N·m (221 lb·in)



A—Mounting Bracket Assembly
B—Locknut, Flange, M8

C—Carriage Bolt, M8x20, (54HC only)

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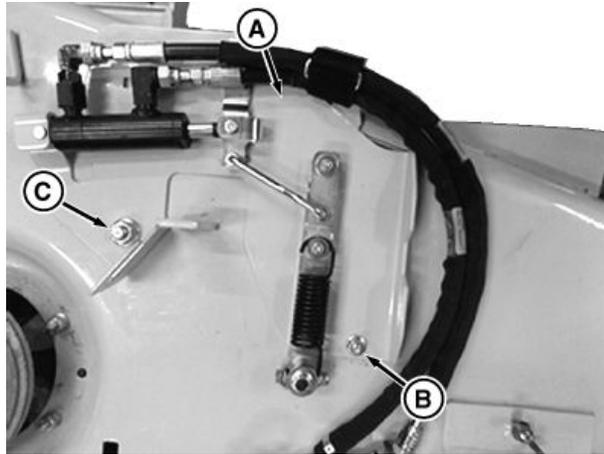
Install Mounting Bracket (60-Inch Mower Deck)

CAUTION: Avoid injury! Blades are sharp. Always wear gloves when handling blades or working near blades. Replace blades if defective. Never straighten or weld them.

1. Install mounting bracket (A) to mower deck with locknut (B) and carriage bolt and locknut (C) as shown.
2. Tighten locknuts to specification.

Specification

Locknut, Flange, M8—Torque.....	25 N·m (221 lb-in)
Locknut, Flange, M12—Torque.....	50 N·m (36 lb-ft)



A—Mounting Bracket Assembly
 B—Locknut, Flange, M8
 C—Locknut, Flange, M12

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Install Pivot Arm

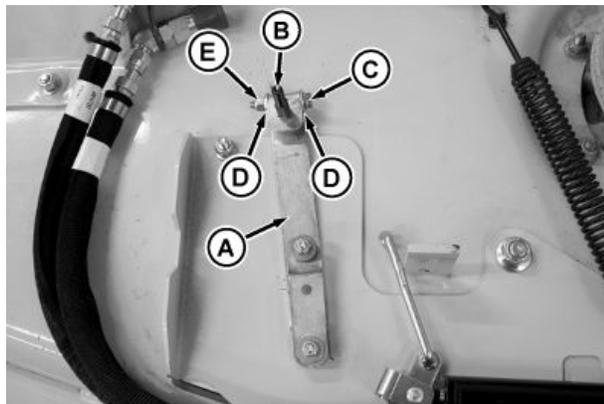
NOTE: The following installation procedure is shown on a 60-Inch mower deck. Installation is the same for a 54-Inch mower deck.

1. Install pivot arm (A) to mulch gate shaft (B). Make sure that the pivot arm is fully seated (bottoms out) on shaft.
2. Install bolt (C), two washers (D), and locknut (E).
3. Tighten locknut to specification.

Specification

Locknut, M6—Torque.....	13.5 N·m (120 lb-in)
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A—Pivot Arm Assembly
 B—Mulch Gate Shaft
 C—Bolt, M6x40 Flange Head
 D—Washer, 6.4x18x1.6
 E—Locknut, M6



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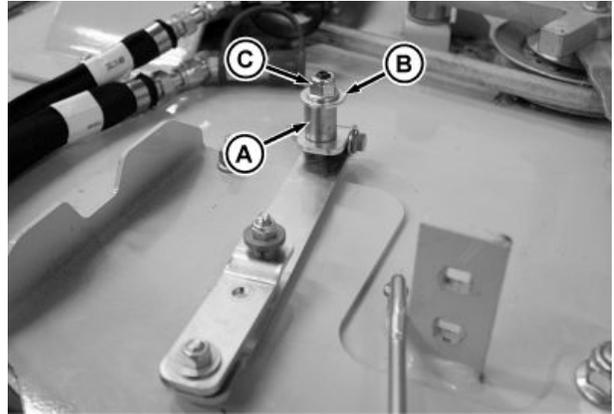
4. Install bushing (A), washer (B), and locknut (C).
5. To eliminate the slop from assembly, tighten the locknut to specification.

Specification

Locknut, M8—Torque.....13.5 N·m (120 lb·in)

A—Bushing
B—Washer, 8.4x24x2

C—Locknut, M8



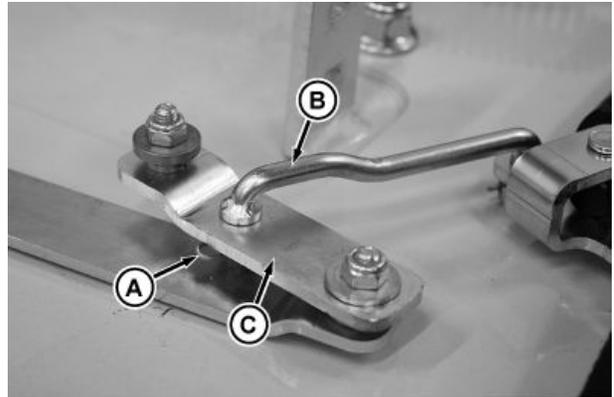
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6. Remove and retain the spring locking pin (A).
7. Install actuator rod (B) to the spring pivot arm (C).
8. Install spring locking pin back into the actuator rod.

A—Spring Locking Pin
B—Actuator Rod

C—Spring Pivot Arm

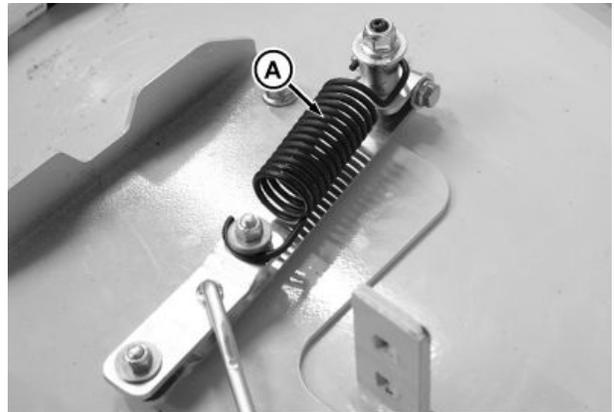


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9. Install spring (A) over both bushings as shown.

A—Spring



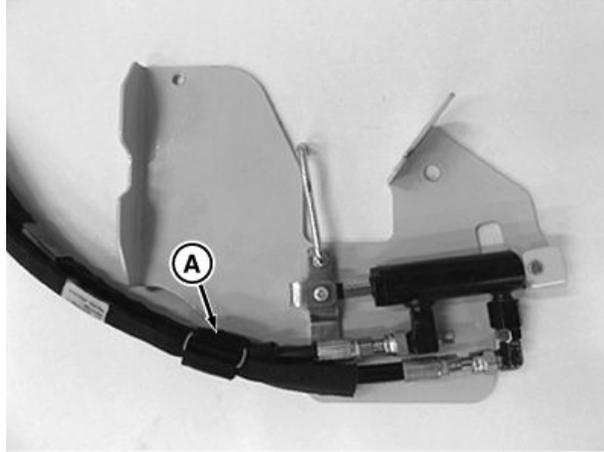
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10. Install hook-and-loop strap (A) around hoses.

A—Hook-and-Loop Strap



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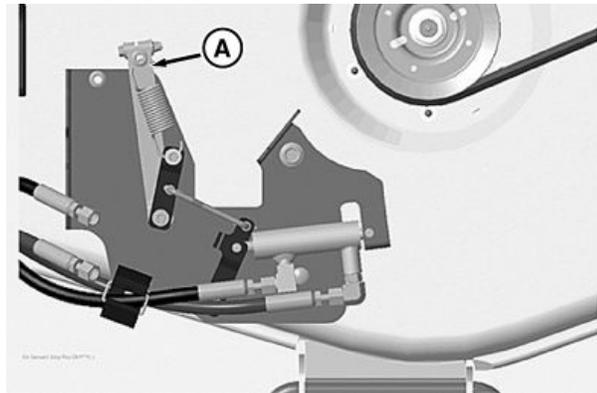
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Install Mower Deck

NOTE: Before installing the mower deck, manually move the mulch control linkage (A) to the mulch door open position. This moves the mulch control linkage away from the drive-over path of the tractor wheels.

See INSTALLING section in the mower deck operator's manual.

A—Mulch Control Linkage



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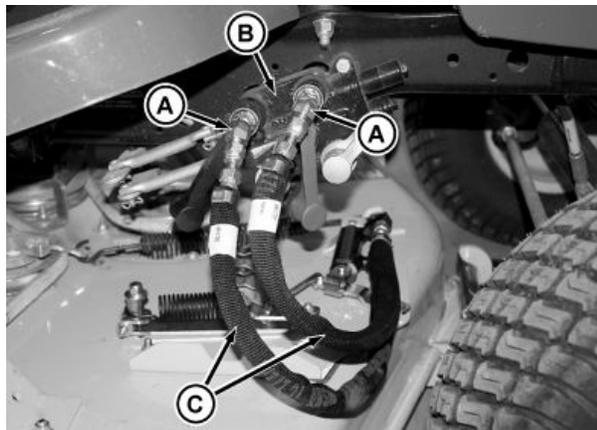
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Complete Installation

⚠ CAUTION: Avoid injury! Escaping fluid under pressure can penetrate the skin causing serious injury. Relieve hydraulic system pressure by moving hydraulic controls in all directions before connecting or disconnecting hydraulic lines.

NOTE: To keep rubber cap plugs clean while the hoses are installed to the control valve, mate the valve cap plug to the hose cap plug.

1. Install hose connections (A) (green to green, black to black) to control valve (B) on tractor.
2. Make sure that the hoses (C) are routed so that they clear the front wheel. Use the hook-and-loop strap provided to secure the hoses.
3. Connect negative battery cable or install spark plug wires (gasoline engines).
4. Start the engine.



A—Hose Connections
B—Control Valve

C—Hoses

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NOTE: Mulch gate can be opened and closed with the PTO on and the tractor moving forward.

NOTE: When the lower handle is pushed to the forward most detent position, the system is in hydraulic float. In the event the mower is operated with the handle in the forward detent position, the mulch gate can move from the intended position. If the gate moves, pull the handle to the closed position, then push forward to open the mulch gate.

5. To open mulch gate, push lower handle (A) forward.
6. To close mulch gate, pull lower handle rearward.

A—Lower Handle

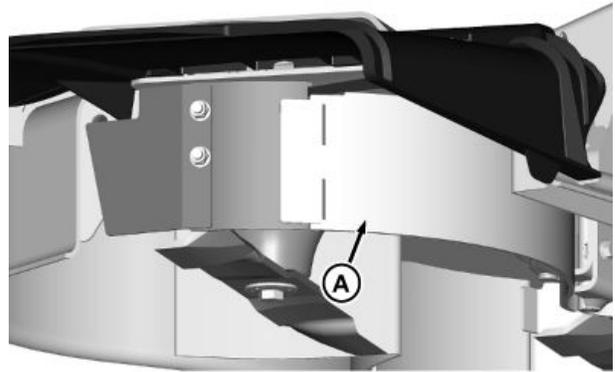


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7. Ensure that the deflector gate (A) is free to rotate open and closed.
8. Stop the engine and remove the key.

A—Deflector Gate



Picture Note: Deflector gate shown in closed position.

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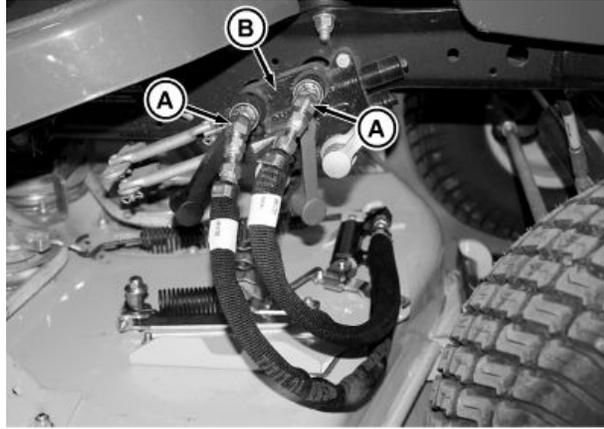
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Store Hoses

Once the Hydraulic Mulch Activation Kit is installed, and before the mower deck is removed:

⚠ CAUTION: Avoid injury! Escaping fluid under pressure can penetrate the skin causing serious injury. Relieve hydraulic system pressure by moving hydraulic controls in all directions before connecting or disconnecting hydraulic lines.

1. Push lower hydraulic lever forward to move mulch linkage away from drive-over path of tractor wheels.
2. Turn off engine.
3. Relieve hydraulic pressure (see CAUTION above).
4. Remove the hose connections (A) from the control valve (B).
5. Install the valve cap plugs into the control valve.
6. Install the hose cap plugs onto the ends of the hose fittings.



A—Hose Connections

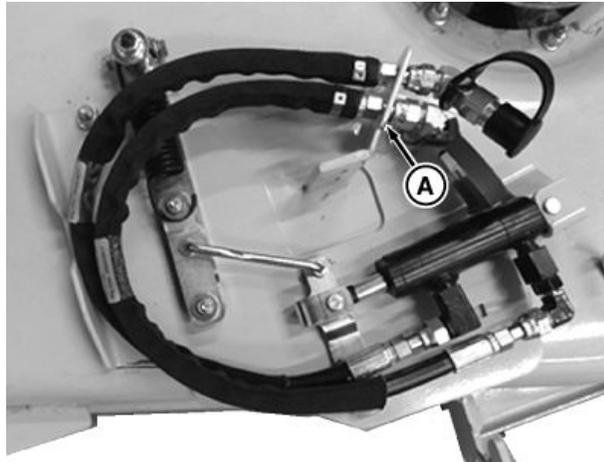
B—Control Valve

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7. Store hoses in the provided slot (A).

A—Slot, Bracket



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