



# LT-100

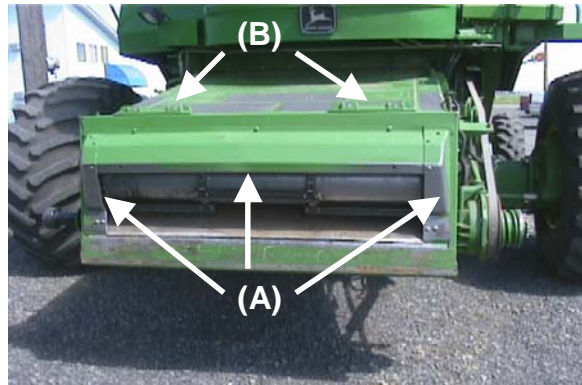
LATERAL TILT SYSTEM FOR JOHN DEERE COMBINES

## INSTALLATION INSTRUCTIONS

For John Deere 9400, 9410, 9500, 9510, 9600, 9610, CTS & CTSII combines

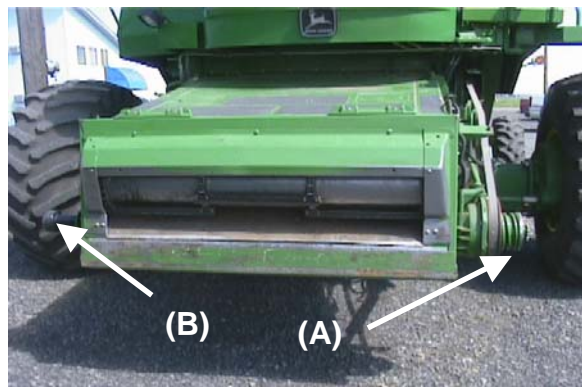
**NOTE: The terms “Left, Right, Top, Bottom, Front or Back” used in this manual are referenced as if sitting in the operator’s seat of the combine facing the direction of travel.**

1. Remove the JD front feeder house shields (A) and the cast header mount blocks (B).



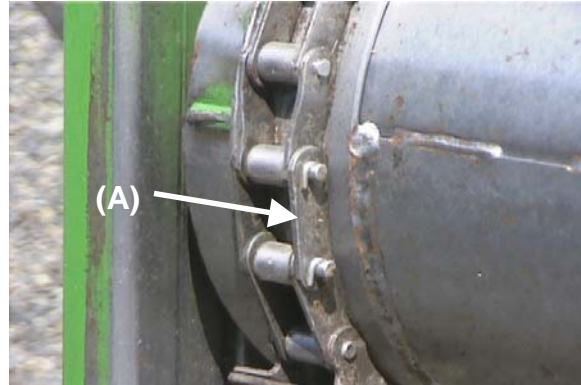
2. (9400, 9410, 9500, 9510, CTS & CTS II) Remove the JD header drive sprockets from the left (A) and right (B) side of the feeder house reverser shaft.

(9600 & 9610) Remove only the header drive sprocket from the right side (B) of the feeder house reverser shaft.



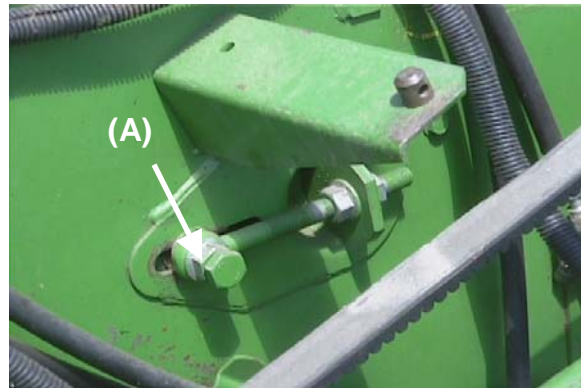
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3. Roll feeder chain till the master links **(A)** are at the front of the feeder chain drum. Remove the master links.

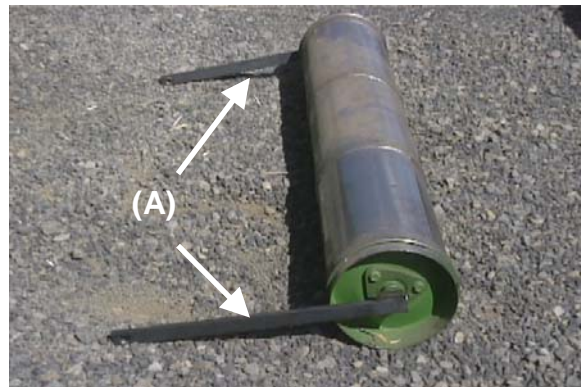


**CAUTION: The feeder drum is awkward to handle. It is recommended to use two people for the next step.**

4. With one person holding the feeder chain drum from rolling out of the feeder house, remove the left and right feeder chain drum bolts **(A)**. Remove the drum from the feeder house.



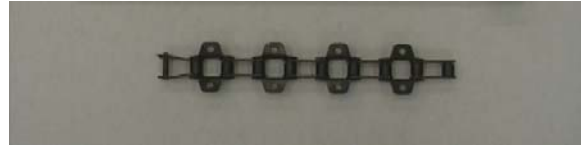
5. Remove the JD feeder chain drum arms **(A)**. (Note: This is a good opportunity to replace the feeder chain drum bearings if needed) Install the new Hillco feeder chain drum arms. There is a right and left arm and they are stamped with an “R” or “L”. Reinstall feeder chain drum into feeder house.



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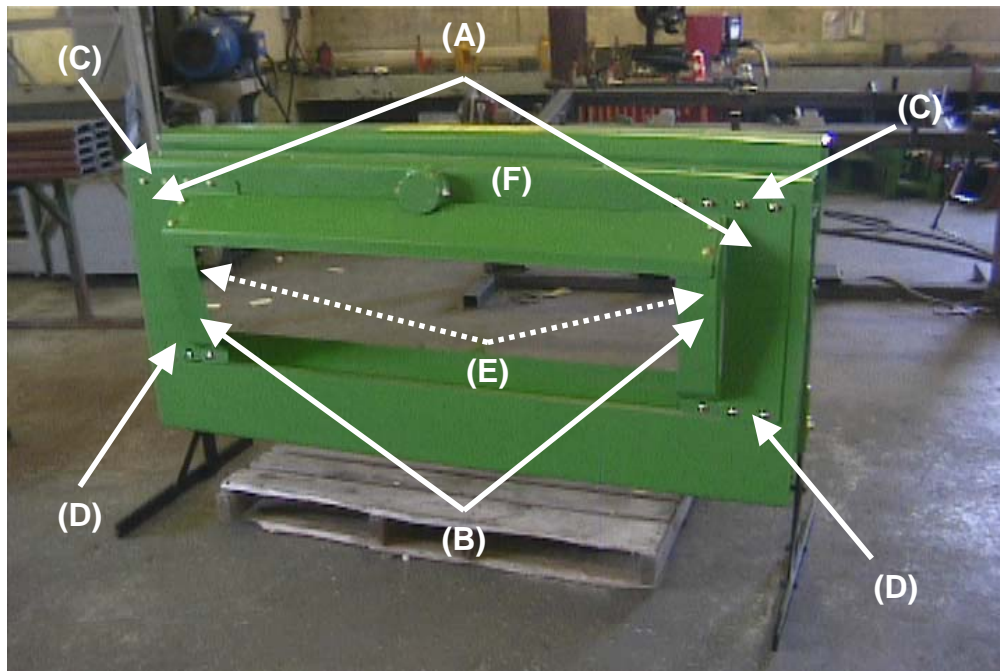
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6. Install the Hillco feeder chain extensions (Bag #6). The 9600 & 9610 use four chains, 9400, 9410, 9500, 9510, CTS & CTSII use three chains. Bolt on the feeder chain slats with M8 X 16 bolts and M8 lock nuts (Bag #4). **Note: The slats are not part of the Hillco LT-100 kit. Slats need to be purchased from your JD dealer. The number of slat depends on what model of JD combine the LT-100 is being installed onto.**

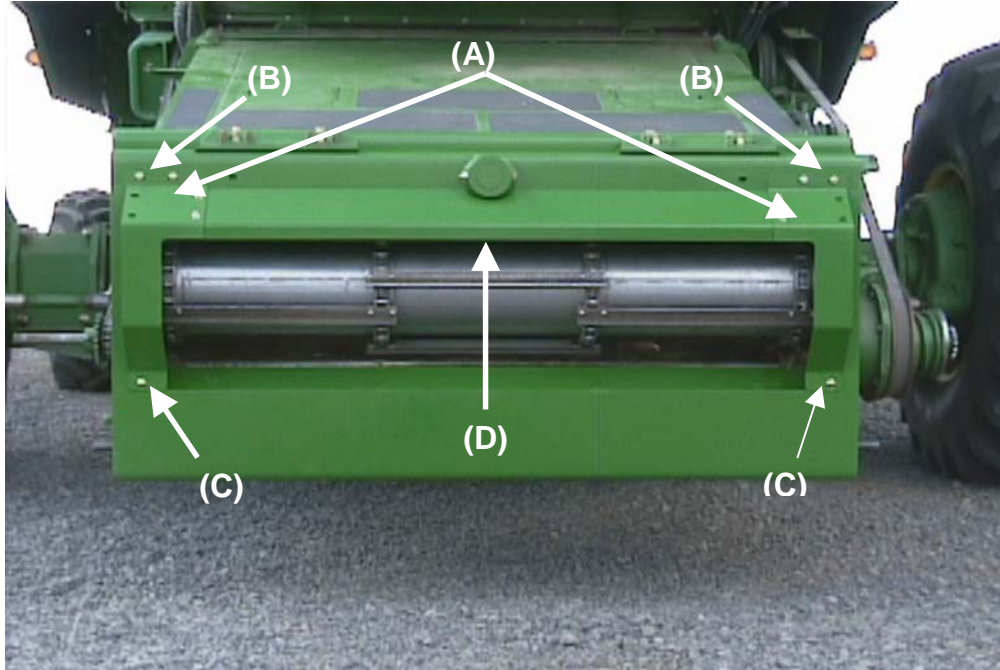


7. Configure the LT-100 front shields to work on your model of JD combine.

**(9400, 9410, 9500, 9510, CTS, CTSII)** Assemble the front shields into the narrow position, as shown. To do this bolt on the outer flat shields **(A)** and main left and right shields **(B)** with M8 X 30 flanged head bolts and M8 flanged nuts **(C)** on top and M8 X 30 carriage bolts and M8 flanged nuts **(D)** on the bottom with the support brackets. Bolt in the top shield **(F)** with M8 X 30 flanged head bolt and M8 flanged nuts **(C)**. Bolt in the left and right throat filler plates **(E)** with M8 X 30 carriage bolts and M8 flanged nuts **(D)**. (bolts and nuts Bag #8)

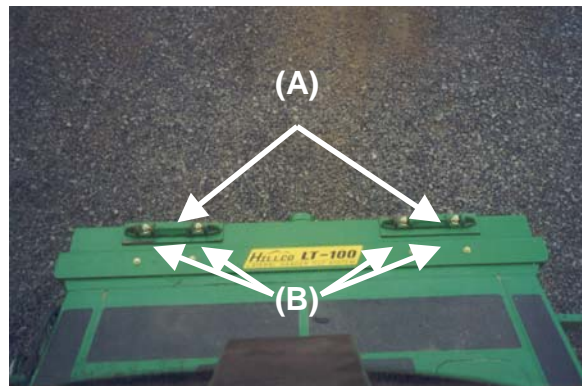


**7. cont. (9600 & 9610)** Assemble the shields into the wide position as shown. To do this bolt the left and right shields **(A)** in the widest position, using M8 X 30 flanged head bolts and M8 flanged nuts **(B)** to bolt the top and M8 X 30 carriage bolts and M8 flanged nuts **(C)** to bolt the bottom. Bolt the top shield **(D)** in from the backside of the left and right shields with M8 X 30 flanged head bolts and M8 flanged nuts **(B)**.



**8.** Using a forklift or other lifting device, lift the LT-100 onto the front of the feeder house. Use four M12 x 40 flanged head bolts **(A)** to bolt on the LT-100 to the feeder house, where the header mount blocks were bolted originally.

Bolt on the JD header mount blocks **(B)** to top of the LT-100 using four M16 x 45 carriage bolts (Bag #2). It may be necessary to die grind the holes out in the cast JD header mount blocks so the M16 bolts will fit.



**9. (9600 & 9610 ONLY)** Bolt on the Hillco hex drive adaptor **(A)** onto the left header drive sprocket using M12 X 40 flanged head bolts and M12 flanged lock nuts (Bag #3). Grind groove in the right side of the reverser shaft as described below. **(ALL OTHER 9000 & 10 SERIES)** On both the left and right side grind a groove 1-1/2" from the end of the reverser shaft. Be careful not to make the groove too wide. Make sure the yoke fully locks on and has no more than 1/8" end play.



**10.** Relieve all pressure in the JD hydraulic stack valve. To do this start the combine and lower the feeder house until it is resting fully on the ground, and then hold the feeder house down switch a few seconds longer. Shut off the combine. Drain the JD hydraulic system or place a vacuum on the JD hydraulic reservoir to hold the oil in the reservoir.

### HIGH PRESSURE FLUIDS

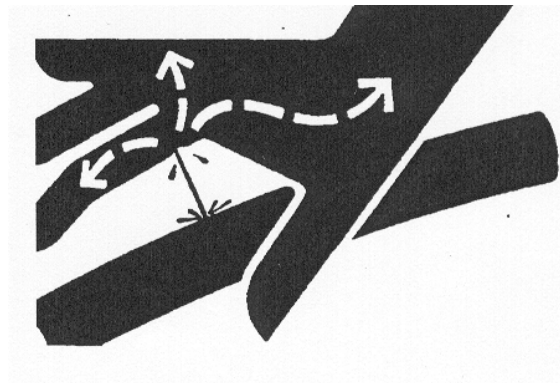
Escaping fluids under pressure can penetrate the skin causing serious injury.

Search for leaks with a piece of cardboard.

Relieve pressure before disconnecting hydraulic or other lines.

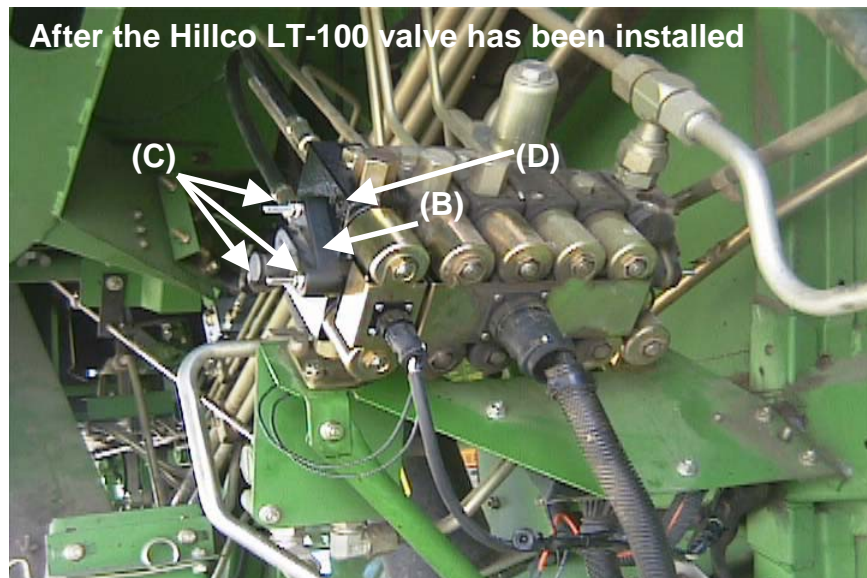
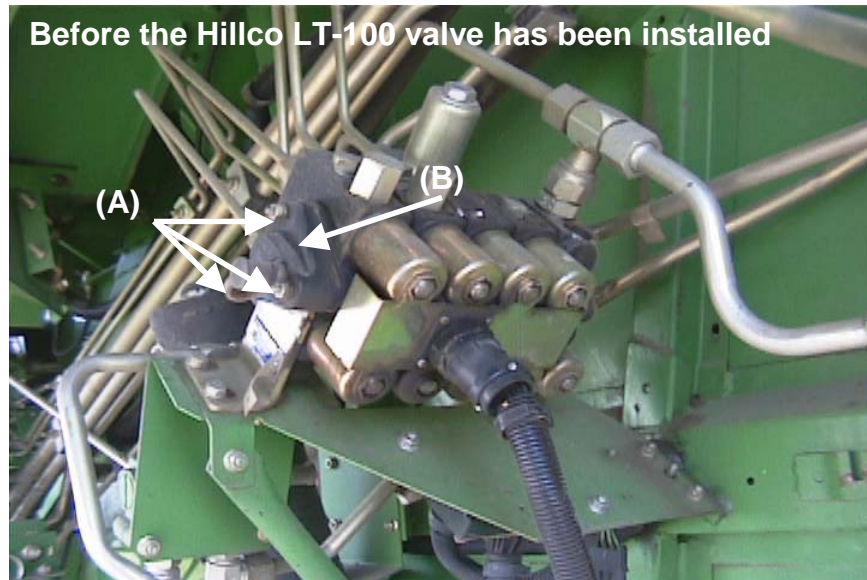
If an accident occurs consult a physician immediately.

Fluid injection into the skin must be surgically removed within a few hours or gangrene may result.



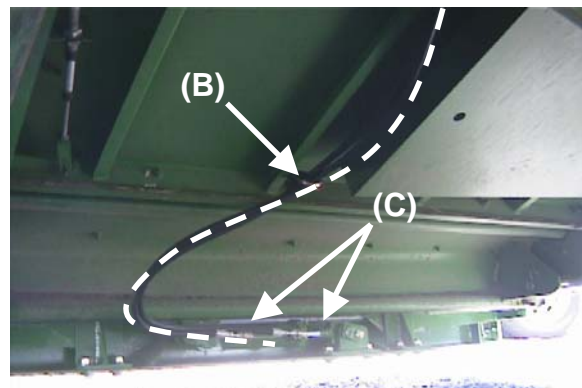
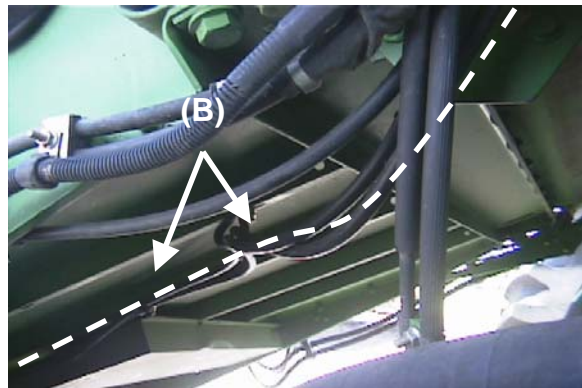
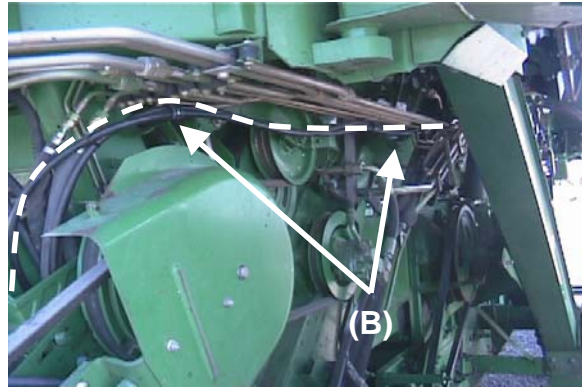
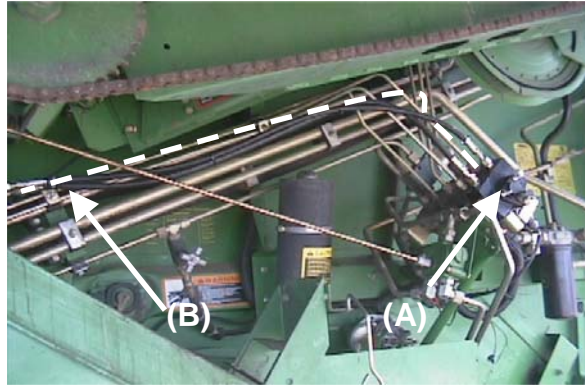
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11. Make sure the JD stack valve area is clean to avoid contamination. Remove the nuts from the three tie rod bolts **(A)** on the JD stack valve. Remove the end cap **(B)**. Remove the two connecting tubes and replace with the new connecting tubes supplied in the kit. Replace the JD tie rods with the new Hillco tie rods **(C)**, one at a time. Install the new Hillco LT-100 valve **(D)** onto the out side of the stack. Insert the short connecting tubes into the Hillco LT-100 valve, and then reinstall the end cap **(B)**. Install the nuts onto the new tie rod bolts and tighten to 141 lb-in (16•m).



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12. Route the two hoses from the Hillco LT-100 valve **(A)**, as shown in the pictures below, to the Hillco LT-100 cylinder. Use the clamps **(B)** (Bag #4) and zip ties supplied in the kit. Install the two #4 MORB x #4 MORS 90° **(C)** hydraulic adaptors into the Hillco LT-100 cylinder. The hose from the top port of the Hillco LT-100 valve connects with the base port of the Hillco LT-100 cylinder. The hose from the bottom port of the Hillco LT-100 valve connects to the rod port of the Hillco LT-100 cylinder



**Identify what model and serial number of combine that you are installing the LT-100 on. Then determine whether it will be operated in manual only or in automatic/manual (using height and tilt sensors on the header or platform).**

-9400 SN (            - 660100)  
-9500 SN (            - 660200)  
-9600 SN (            - 660300)  
-CTS SN (            - 660400)

**-If automated (which means using height and tilt sensors on the header) follow steps 33-68.**

**-If manual only, follow to steps 13-32.**

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-9400 & 9410 SN (660101-            )  
-9500 & 9510 SN (660201-            )  
-9600 & 9610 SN (660301-            )  
-CTS & CTSII SN (660401-            )

**- If automated (which means using height and tilt sensors on the header) follow steps 83-93.**

**- If manual only, go to steps 69-82.**

### Installation of Hillco LTA-242271 harness

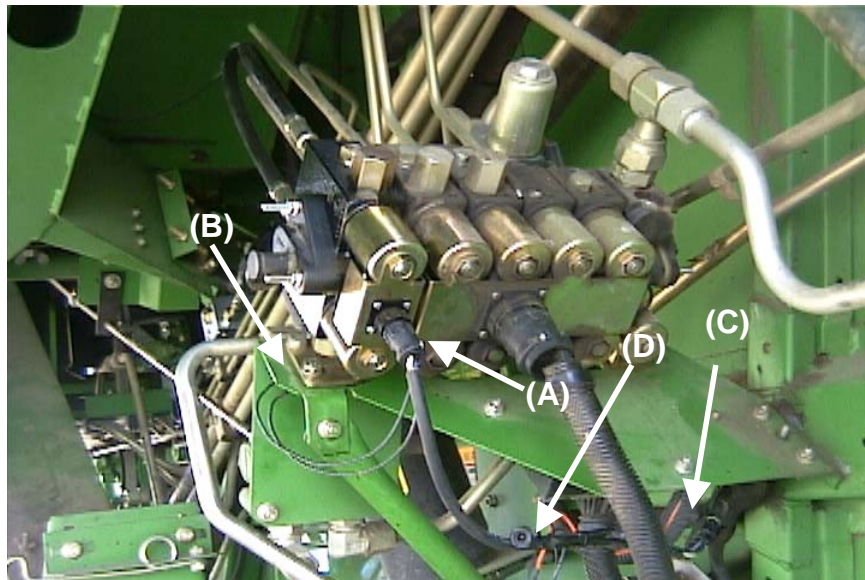


**13.** Plug the round four-pin AMP connector **(A)** into the Hillco LT-100 valve.

**14.** Bolt the two ground wires #7 & #8 to the JD stack valve mount bolt **(B)**.

**15.** The four pin Weatherpack connector **(C)** with wires #5 & #6 will be plugged in later in the installation process.

**16.** The one pin Weatherpack connector **(D)** with wire #9 will be plugged in later in the installation process.



**Installation of Hillco LTA-242281 harness**

**17.** Locate JD connector C221 **(A)**. Disconnect connector C221 from the JD stack valve logic box. Disassemble the strain relief from connector C221.

**18.** Using the AMP terminal extraction tool (Bag #5) remove wire #922 from hole #7.

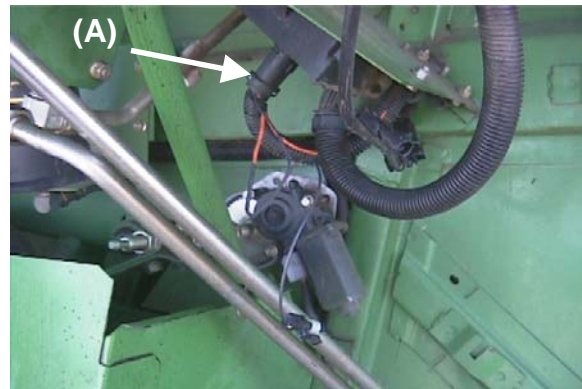
**19.** Connect Hillco wire #10, that has the AMP pin crimped on it, to JD wire #922 that was just removed from JD connector C221. Slide the heat shrink down over the connection and using a heat gun or lighter shrink the heat shrink.

**20.** Insert Hillco wire #12 into hole #7 of JD connector C221.

**21.** Reassemble JD connector C221. Plug back into JD stack valve.

**22.** Connect Hillco wire #11 into wire #9 of Hillco harness LTA-242281 that was previously installed.

**23.** Zip tie harness neatly to the JD harness.

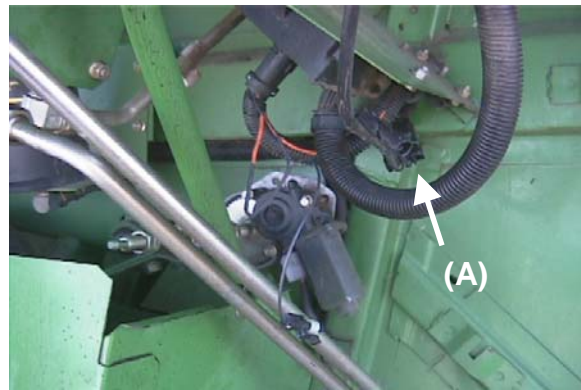


**Installation of Hillco LTA-242291 harness.**

**NOTE: The Hillco LTA-242291 is not included in the base LT-100 kit. It must be ordered separately from Hillco.**

**24.** Connect the four-pin Weatherpack connector **(A)** of the Hillco LTA-242291 harness to the four-pin connector of the Hillco LTA-242271.

**25.** Route the Hillco LTA-242291 harness as shown in the pictures, following the JD main LH harness from the JD stack valve towards the cab., under the cab to the right side of the cab. Use the zip ties and the existing JD clamps to secure the Hillco LTA-242291 harness.



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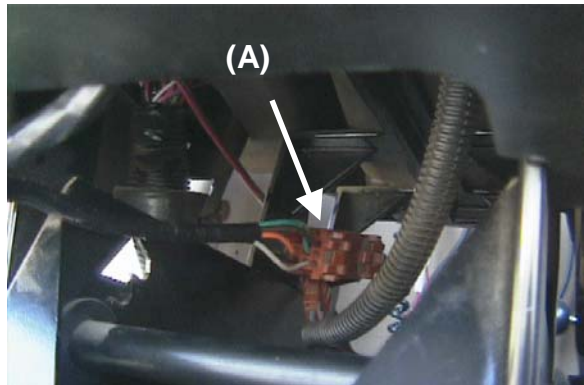
**26.** Route the cable under the cab to the right side.



**27.** Route Cable through the rubber plug at the center of the cab panel. Located on the right side of the cab.



**28.** Locate JD connector C518 **(A)** under the armrest in the cab. If this connector only has 6 cavities it will need to be replaced with the 9-cavity connector that is included in the Hillco LT-100 kit. If it already has a 9 cavity connector go to the next step.



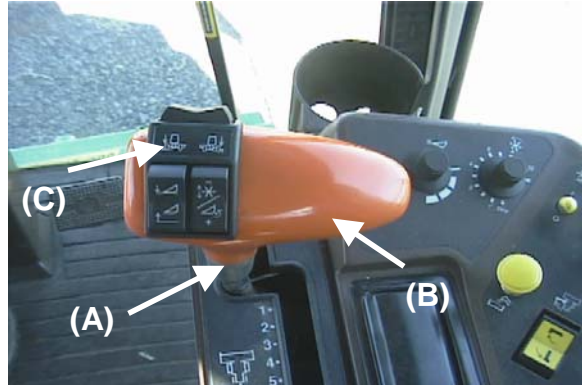
**29.** Disconnect JD C518. Using the AMP terminal extraction tool that is supplied in the Hillco kit. Remove both halves of the 6-cavity or 9-cavity connector by inserting the AMP terminal extraction tool down over each AMP pin or socket and depress the plunger to remove the terminal.

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**30.** Unscrew the nut at the base of the original hydro handle **(A)** and pull the handle with the switch up and out of the tube it is mounted on. Install the new JD hydro handle **(B)** and switch **(C)**.

**NOTE: THE NEW JD HYDRO HANDLE (AH145061) AND SWITCH (AH145060) ARE NOT SUPPLIED IN THE HILCO LT-100 KIT. THEY MUST BE PURCHASED FROM A JD DEALER**



**31.** Insert the wires into the 9-cavity connector as follows:

WIRE COLOR (hydro handle switch)	CAVITY #	WIRE #
RED	1	15
ORANGE	2	437
BLACK	3	425
YELLOW	4	408
GREEN	5	409
GRAY	6	(Hillco) 2
BROWN	7	(Hillco) 1
EMPTY	8	EMPTY
EMPTY	9	EMPTY

**32.** –Check or fill hydraulic oil level.

- Start the combine engine.

- Press the header tilt switch on the hydro-handle. It may take a little time till it starts to rotate.

- Rotate the Hillco LT-100 several times to bleed the air out of the system.

- Check the hydraulic oil level.

If the LT-100 is operating in the opposite direction than the switch, see the trouble-shooting guide.

**THIS COMPLETES THE INSTALLATION OF THE LT-100**

### TROUBLE SHOOTING

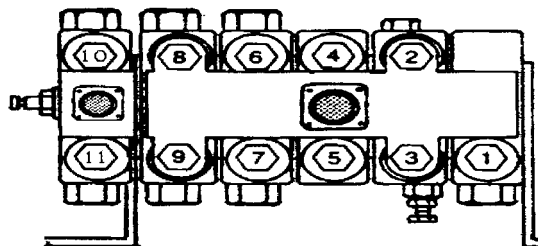
**Problem:** The LT-100 rotates in the opposite way the switch is depressed.

**Solution:**

- Have one person start the combine and hold the header tilt switch down to the right. Have the other person use a screwdriver to check magnetism at coils 10 & 1 by touching the coils with the screwdriver.

- If coils 10 & 1 are magnetized, then switch the hoses at the Hillco LT-100 valve.

- If coils 11 & 1 are magnetized, then switch the coils on the Hillco LT-100 valve.



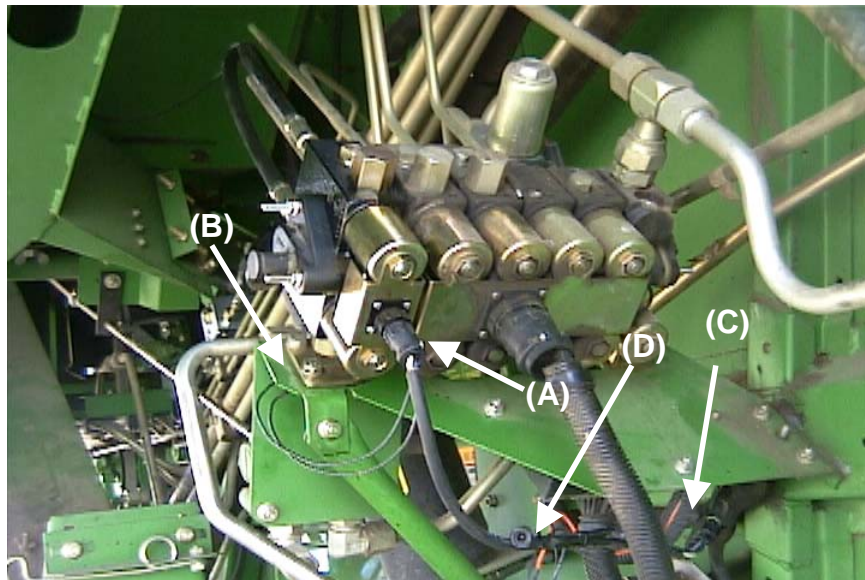
### Installation of Hillco LTA-242271 harness

**33** Plug the round four-pin AMP connector **(A)** into the Hillco LT-100 valve.

**34.** Bolt the two ground wires #7 & #8 to the JD stack valve mount bolt **(B)**.

**35.** The four pin Weatherpack connector **(C)** with wires #5 & #6 will be plugged in later in the installation process.

**36.** The one pin Weatherpack connector **(D)** with wire #9 will be plugged in later in the installation process.



**Installation of Hillco LTA-242281 harness**

**37.** Locate JD connector C221 **(A)**. Disconnect connector C221 from the JD stack valve. Disassemble the strain relief from connector C221.

**38.** Using the AMP terminal extraction tool (Bag #5) remove wire #922 from hole #7.

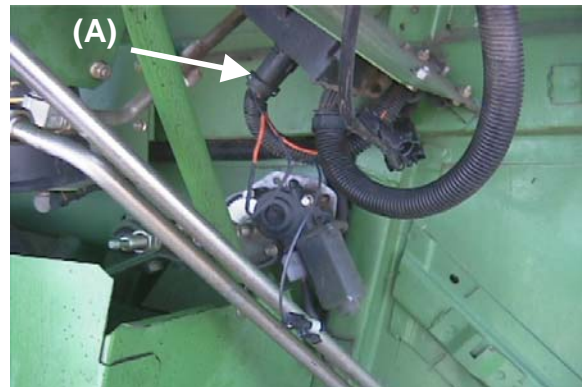
**39.** Connect Hillco wire #10, that has the AMP pin crimped on it, to JD wire #922 that was just removed from JD connector C221. Slide the heat shrink down over the connection and using a heat gun or lighter shrink the heat shrink.

**40.** Insert Hillco wire #12 into hole #7 of JD connector C221.

**41.** Reassemble JD connector C221. Plug back into JD stack valve.

**42.** Connect Hillco wire #11 into wire #9 of Hillco harness LTA-242271 that was previously installed.

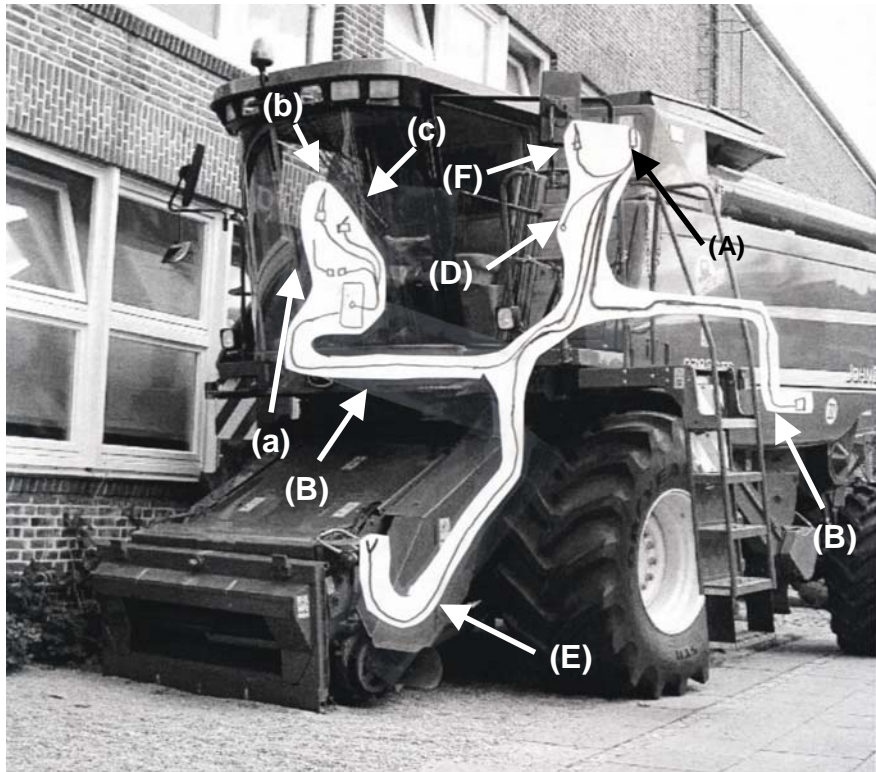
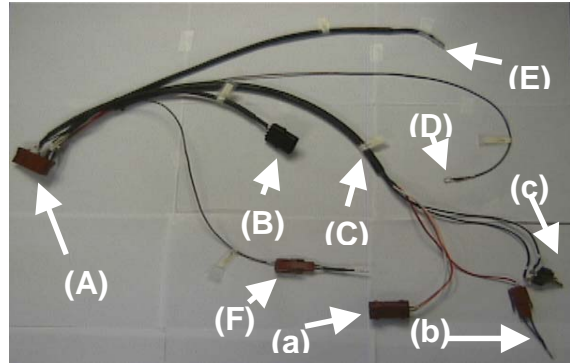
**42.** Zip tie harness neatly to the JD harness.



### Installation of Hillco LTA-243931 harness

Use these pictures as reference during the installation process.

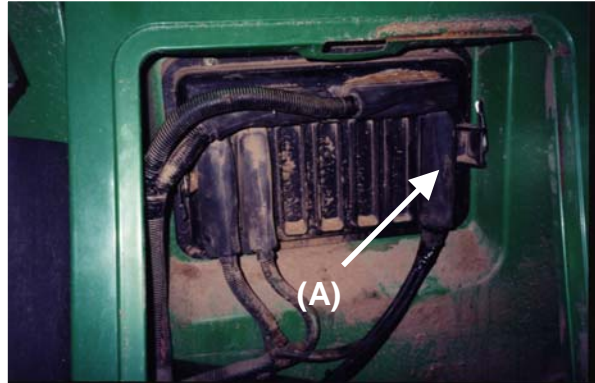
- (A) - 19-pin AMP connector
- (B) - Cable B
- (C) - Cable C
  - (a) - 9 cavity hydro-handle connector.
  - (b) - Wire #30
- (c) - Auto/ Manual switch
- (D) - Wire #22
- (E) - Cable A, wires #31 & #32
- (F) - Wire #15



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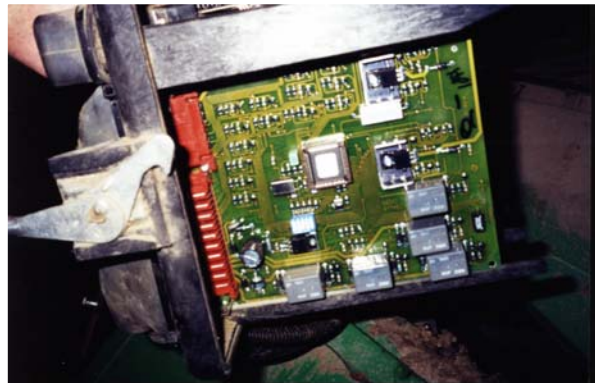
**44.** Open the door to the combines electronics module, located at the right of the cab. Slide rubber boot **(A)** down harness. Unplug the harness from the Dial-A-Matic™ circuit board.



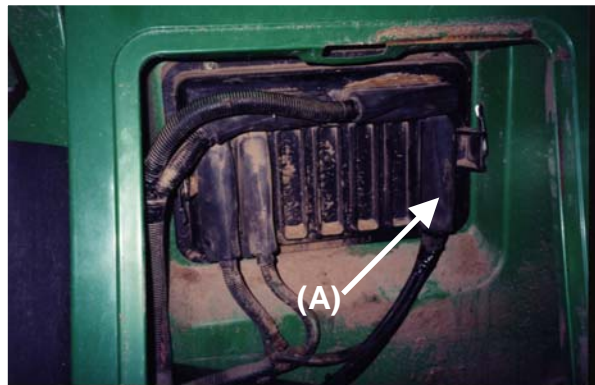
**45.** Pull open the Central Electronics Module and remove the Dial-A-Matic circuit board.

**46.** Install the new JD Dial-A-Matic™/Contour Master™ circuit board (AH137147) into the same slot. Plug the JD harness into the new circuit board.

**NOTE: JD Dial-A-Matic™/ Contour Master™ circuit board is not included in the Hillco LT-100 kit. It must be purchased from a JD dealer.**

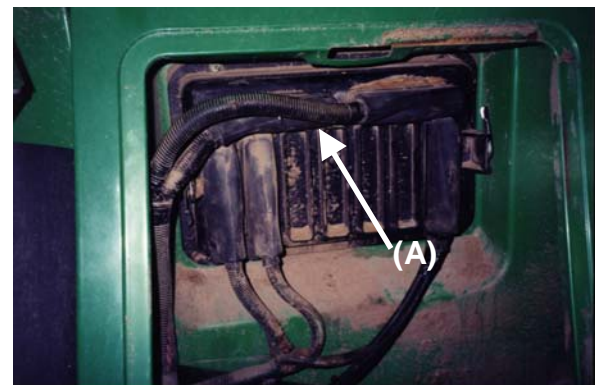


**47.** Slit the bottom of the rubber boot **(A)** and insert the 19-pin connector of the new Hillco harness through the boot and plug it into the new circuit board.

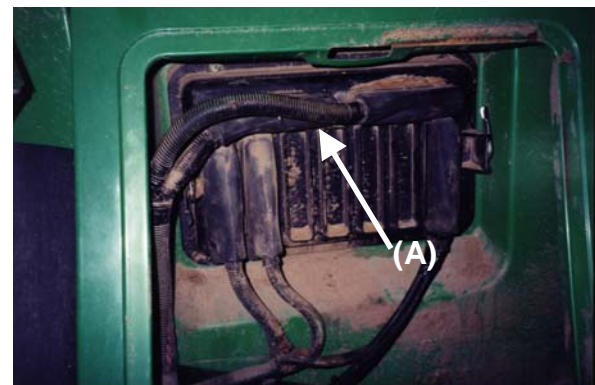


**48.** Install and zip tie the rubber boot just as it originally was.

**49.** To seal up the bottom of the rubber boot **(A)** around the base of the cable, pull the rubber boot around the cable and zip tie it tight to secure it.

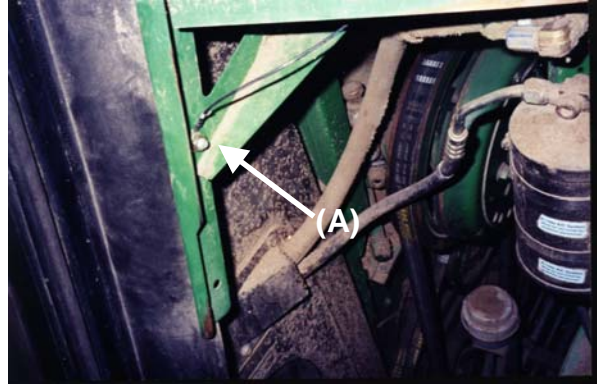


**50.** Route Hillco wire #15 to JD connector C201 **(A)** and using the splice tap (Scotch Lock) provided tap into JD wire #23 by inserting the wire and clamping the Scotch Lock down on the wires.



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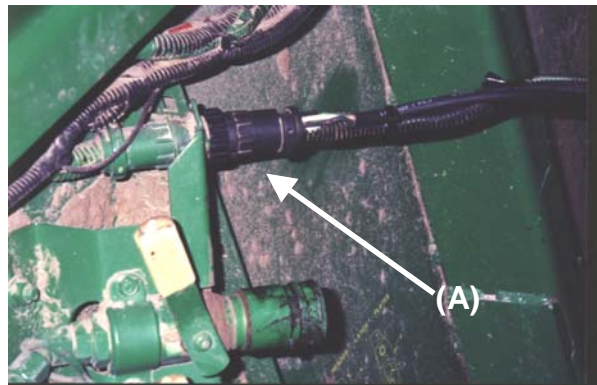
**51.** Ground wire #22 **(A)** as shown. Make sure to remove paint to get a quality ground.



**52.** Route cable A (which is the two wire cable with wires #31 & #32) of the Hillco harness from the Dial-A-Matic™/Contour Master™ circuit board down the left hand side of the JD feeder house following along the JD feeder house harness as shown.



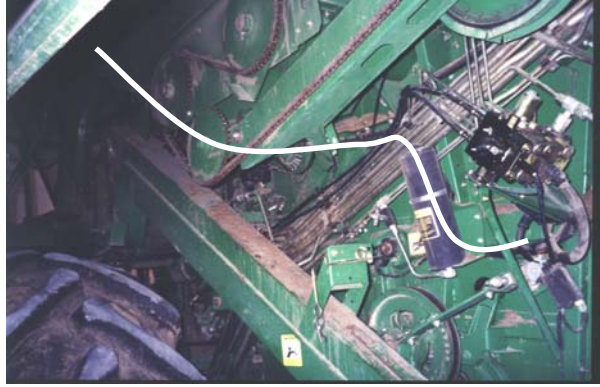
**53.** Disassemble the strain relief from the AMP connector **(A)** at the end of the JD feeder house harness. Insert Hillco wire #31 into hole #7 and Hillco wire #32 into hole #9 of the AMP connector. Reassemble the strain relief and zip tie the Hillco harness to the JD harness securely.



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**54** Route cable B from the Dial-A-Matic™/Contour Master™ circuit board down the left hand side of the combine to the JD stack valve following the JD left hand main harness to just below the JD stack valve, and plug into the four pin weatherpack connector of the LTA-242271 harness. Use the supplied zip ties and the original JD clamps to secure the cable.



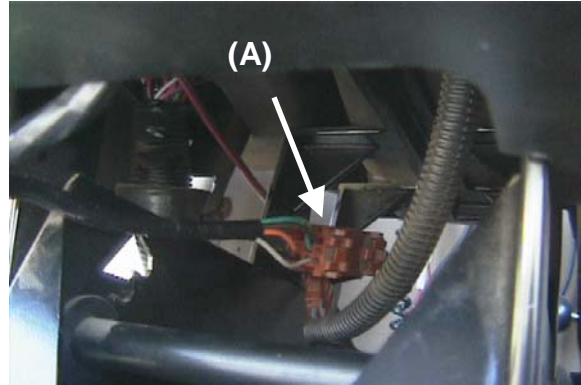
**55** Route cable C of the Hillco LT-100 harness from the JD Dial-A-Matic™/Contour Master™ circuit board down underneath the cab, following the JD harness to the right side of the cab.



**56.** Route cable C through the rubber plug in the center of the cab panel.

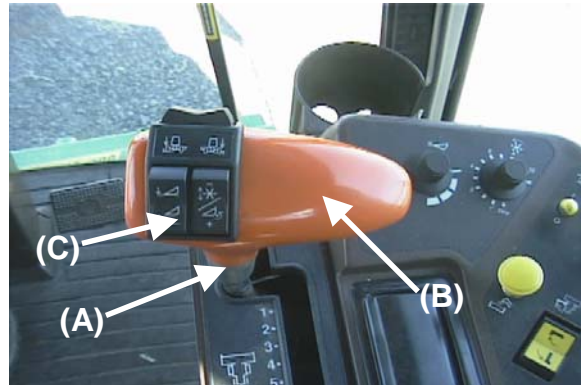


**57.** Locate JD connector C518 **(A)** under the armrest in the cab. If this connector only has 6 cavities it will need to be replaced with the 9-cavity connector that is included in the Hillco LT-100 kit.



**58.** Disconnect JD C518. Using the AMP terminal extraction tool that is supplied in the Hillco kit, remove both halves if it is a 6- cavity connector or only the hydro handle half if it is a 9-cavity connector, by inserting the AMP terminal extraction tool down over each AMP pin or socket and depress the plunger to remove the terminal.

**59.** Unscrew the nut at the base of the original hydro handle **(A)** and pull the handle with the switch up and out of the tube it is mounted on. Install the new JD hydro handle **(B)** and switch **(C)**.



**NOTE: THE NEW JD HYDRO HANDLE (AH145061) AND SWITCH (AH145060) ARE NOT SUPPLIED IN THE HILLCO LT-100 KIT. THEY MUST BE PURCHASED FROM A JD DEALER**

**60.** Insert the wires into the 9-cavity connector as follows:

WIRE COLOR (hydro handle switch)	CAVITY #	WIRE #
RED	1	15
ORANGE	2	437
BLACK	3	425
YELLOW	4	408
GREEN	5	409
GRAY	6	(Hillco) 26
BROWN	7	(Hillco) 27
EMPTY	8	EMPTY
EMPTY	9	EMPTY

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**61.** Remove the screws that hold the top of the dash in place. Lift the top of the dash off and then remove the screws that hold the JD armrest P.C. board.

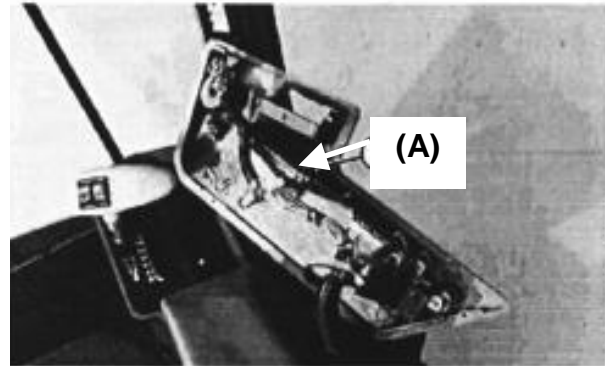
**62.** Measure and drill a ½” hole in the dash. Clean the top of the dash around the hole. Stick the Hillco LT-100 switch decal onto the dash.



**63.** Install the Hillco LT-100 Auto/Manual switch with the notch pointed down.

**64.** Reinstall the JD armrest P.C. board. Make sure the Hillco switch terminals **are not** touching anything.

**65.** Locate JD connector C516 (A) on the JD armrest P.C. board. Using the AMP terminal extraction tool, remove JD wire #402 from hole #1 of the connector. Insert Hillco wire #30 with its splice into hole #1 of JD connector C516. Insert JD wire #402 into hole #3 of the Hillco splice. Reassemble the dash



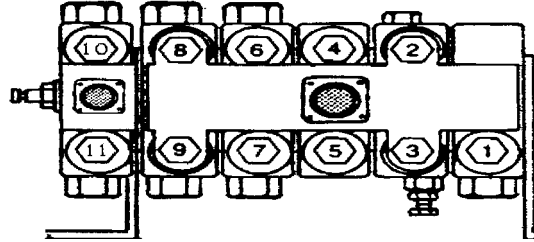
- 66.** –Check or fill hydraulic oil level.
- Start the combine engine.
  - Press the header tilt switch on the hydro-handle. It may take a little time till it starts to rotate.
  - Rotate the Hillco LT-100 several times to bleed the air out of the system.
  - Check the hydraulic oil level.
- If the LT-100 is operating in the opposite direction than the switch, see the trouble-shooting guide.

**TROUBLE SHOOTING**

**Problem:** The LT-100 rotates in the opposite way the switch is depressed.

**Solution:**

- Have one person start the combine and hold the header tilt switch down to the right. Have the other person use a screwdriver to check magnetism at coils 10 & 1 by touching the coils with the screwdriver.
- If coils 10 & 1 are magnetized, then switch the hoses at the Hillco LT-100 valve.
- If coils 11 & 1 are magnetized, then switch the coils on the Hillco LT-100 valve.



**TESTING THE OPERATION OF THE FULLY AUTOMATED HILLCO LT-100 SYSTEM.**

**67.** Hook the combine to a header that is equipped with JD Contour Master™ and Dial-A-Matic™ sensors.

**68.** With the combine running lift the header two feet off the ground, turn on the JD header engage switch (there is no need for the separator to be engaged for this test) as you are sitting in the seat. Flip the Hillco LT-100 switch to auto. Tilt the header to the left a couple of degrees, and then lower the header to the ground. The header should level itself to match the contour of the ground.

If problem occurs, check all connections.

**THIS COMPLETES THE INSTALLATION OF THE HILLCO LT-100**

The responsiveness can be altered by adjusting the switches on the JD Contour Master™/Dial-A-Matic™ circuit board.

SWITCH 1	SWITCH 2	SWITCH 3	SWITCH 4	SWITCH 5	RESPONSIVENESS
OFF	OFF	OFF	OFF	OFF	LEAST
OFF	ON	OFF	OFF	OFF	
OFF	OFF	ON	OFF	OFF	MEDIUM
OFF	OFF	OFF	ON	OFF	
OFF	ON	ON	ON	OFF	MOST

Contour Master™ circuit board switch settings

**FOR TECHNICAL ASSISTANCE CALL: HILLCO 1-800-937-2461**

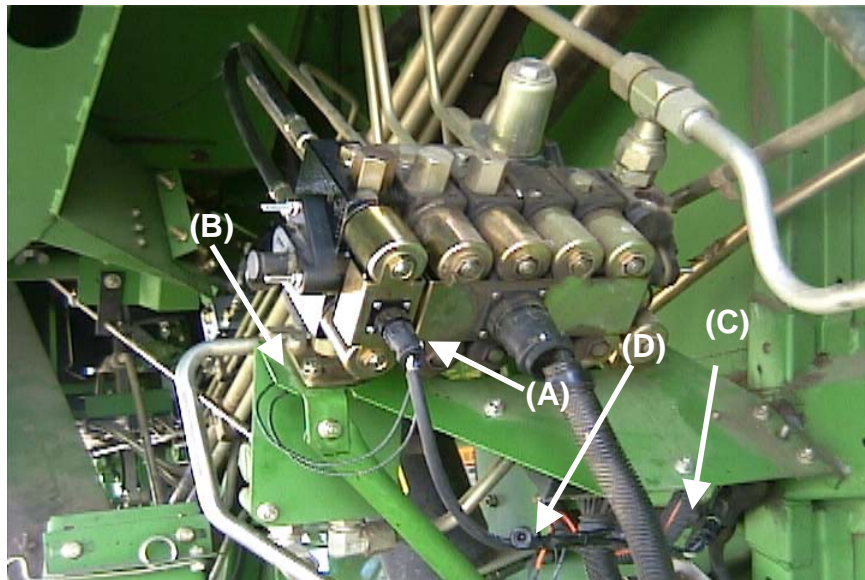
### Installation of Hillco LTA-242271 harness

**69.** Plug the round four-pin AMP connector **(A)** to the Hillco LT-100 valve.

**70.** Bolt the two ground wires #7 & #8 to the JD stack valve mount bolt **(B)**.

**71.** Plug the four pin Weatherpack connector **(C)** with wires #5 & #6 into the JD Weatherpack connector located under the JD stack valve.

**72.** The one pin Weatherpack connector **(D)** with wire #9 will be plugged in later in the installation process.



**Installation of Hillco LTA-242281 harness**

**73.** Locate JD connector C221 **(A)**. Disconnect connector C221 from the JD stack valve. Disassemble the strain relief from connector C221.

**74.** Using the AMP terminal extraction tool (Bag #5) remove wire #922 from hole #7.

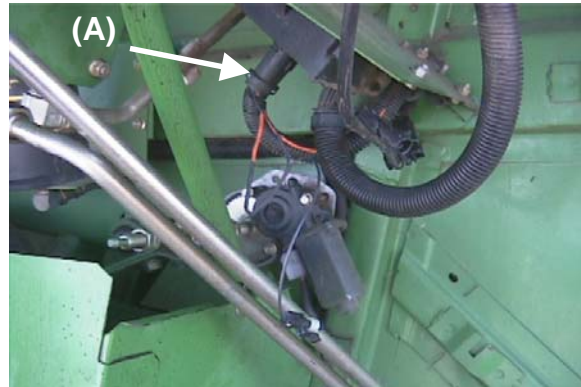
**75.** Connect Hillco wire #10 that has the AMP pin crimped on it to JD wire #922 that was just removed from JD connector C221. Slide the heat shrink down over the connection and using a heat gun or lighter shrink the heat shrink.

**76.** Insert Hillco wire #12 into hole #7 of JD connector C221.

**77.** Reassemble JD connector C221. Plug back into JD stack valve.

**78.** Connect Hillco wire #11 into wire #9 of Hillco harness LTA-242281 that was previously installed.

**79.** Zip tie harness neatly to the JD harness.

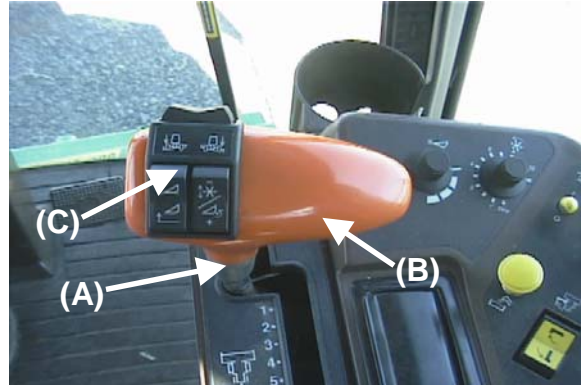


## LT-100 Installation Instructions

D-030617CLA01 REV2

**80.** Unscrew the nut at the base of the original hydro handle **(A)** and pull the handle with the switch up and out of the tube it is mounted on. Install the new JD hydro handle **(B)** and switch **(C)**.

**NOTE: THE NEW JD HYDRO HANDLE (AH145061) AND SWITCH (AH145060) ARE NOT SUPPLIED IN THE HILLCO LT-100 KIT. THEY MUST BE PURCHASED FROM A JD DEALER**



**81.** Insert the wires into the 9- cavity hydro-handle connector as follows:

WIRE COLOR hydro handle switch	CAVITY #	WIRE #
RED	1	15
ORANGE	2	437
BLACK	3	425
YELLOW	4	408
GREEN	5	409
GRAY	6	426
BROWN	7	427
EMPTY	8	EMPTY
EMPTY	9	EMPTY

**82.** –Check or fill hydraulic oil level.

- Start the combine engine.

- Press the header tilt switch on the hydro-handle. It may take a little time till it starts to rotate.

- Rotate the Hillco LT-100 several times to bleed the air out of the system.

- Check the hydraulic oil level.

If the LT-100 is operating in the opposite direction than the switch, see the trouble-shooting guide.

**THIS COMPLETES THE INSTALLATION OF THE HILLCO LT-100**

### TROUBLE SHOOTING

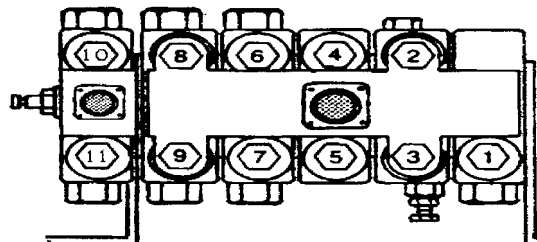
**Problem:** The LT-100 rotates in the opposite way the switch is depressed.

**Solution:**

- Have one person start the combine and hold the header tilt switch down to the right. Have the other person use a screwdriver to check magnetism at coils 10 & 1 by touching the coils with the screwdriver.

- If coils 10 & 1 are magnetized, then switch the hoses at the Hillco LT-100 valve.

- If coils 11 & 1 are magnetized, then switch the coils on the Hillco LT-100 valve.



9400 SN(660101- ), 9500 SN(660201- ),  
9600 SN(660301- ) & CTS SN (660400- )  
AUTOMATED OPERATION ONLY



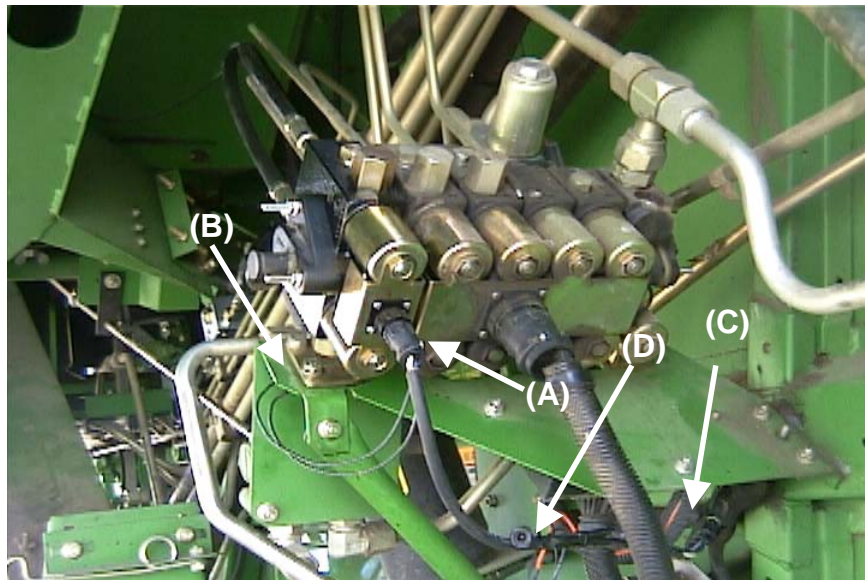
**Installation of Hillco LTA-242271 harness**

**83.** Plug the round four-pin AMP connector **(A)** to the Hillco LT-100 valve.

**84.** Bolt the two ground wires #7 & #8 to the JD stack valve mount bolt **(B)**.

**85.** Plug the four pin Weatherpack connector **(C)** with wires #5 & #6 the JD four pin weatherpack connector.

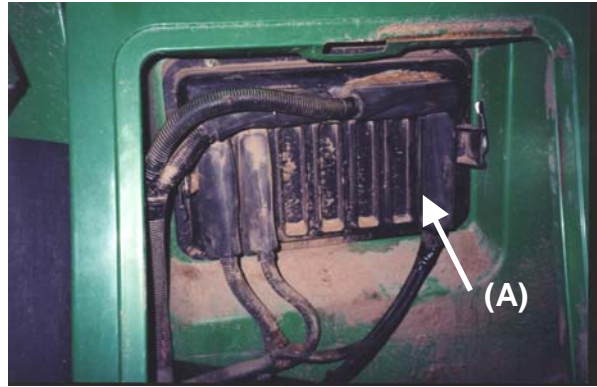
**86.** The one pin Weatherpack connector **(D)** with wire #9 will not be used.



## LT-100 Installation Instructions

D-030617CLA01 REV2

**87.** Replace the old Dial-A-Matic circuit board with the new JD Contour Master™/Dial-A-Matic™ circuit board **(A)**.



**88.** Unscrew the nut at the base of the original hydro handle **(A)** and pull the handle with the switch up and out of the tube it is mounted on. Install the new JD hydro handle **(B)** and switch **(C)**.

**NOTE: THE NEW JD HYDRO HANDLE (AH145061) AND SWITCH (AH145060) ARE NOT SUPPLIED IN THE HILLCO LT-100 KIT. THEY MUST BE PURCHASED FROM A JD DEALER**



**89.** Insert the wires into the 9-cavity hydro-handle connector as follows:

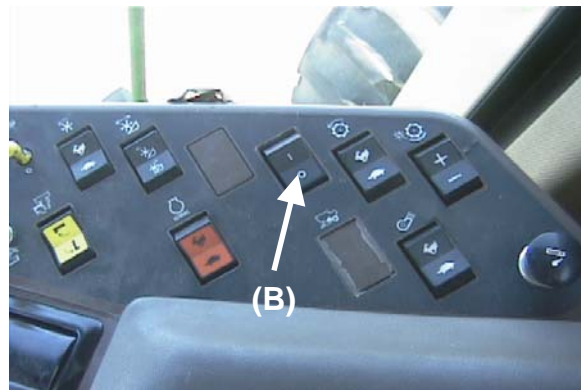
WIRE COLOR hydro handle switch	CAVITY #	WIRE #
RED	1	15
ORANGE	2	437
BLACK	3	425
YELLOW	4	408
GREEN	5	409
GRAY	6	426
BROWN	7	427
EMPTY	8	EMPTY
EMPTY	9	EMPTY

## LT-100 Installation Instructions

D-030617CLA01 REV2

**90.** Carefully cut out the switch knock out **(A)** with a utility knife. Insert JD switch (JD #AH111705) **(B)** into the socket on the armrest circuit board below. Snap on the switch actuator (JD #H143918) onto the switch. Then place I &O decal (JD # H151908) onto the actuator with the "I" towards the window.

**NOTE: JD PARTS ARE NOT INCLUDED IN THE HILLCO LT-100 KIT.**



**91.** –Check or fill hydraulic oil level.

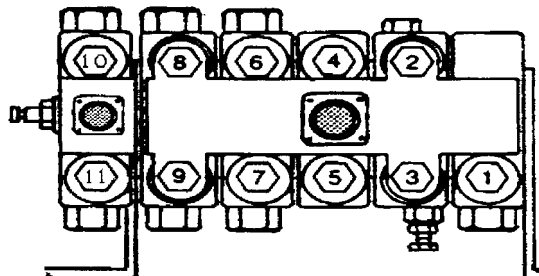
- Start the combine engine.
  - Press the header tilt switch on the hydro-handle. It may take a little time till it starts to rotate.
  - Rotate the Hillco LT-100 several times to bleed the air out of the system.
  - Check the hydraulic oil level.
- If the LT-100 is operating in the opposite direction than the switch, see the trouble-shooting guide.

### TROUBLE SHOOTING

**Problem:** The LT-100 rotates in the opposite way the switch is depressed.

#### **Solution:**

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**TESTING THE OPERATION OF THE FULLY AUTOMATED HILLCO LT-100 SYSTEM.**

**92.** Hook the combine to a header that is equipped with JD Contour Master™ and Dial-A-Matic™ sensors.

**93.** With the combine running lift the header two feet off the ground, turn on the JD header engage switch (there is no need for the separator to be engaged for this test) as you are sitting in the seat. Flip the Hillco LT-100 switch to auto. Tilt the header to the left a couple of degrees, and then lower the header to the ground. The header should level itself to match the contour of the ground.

If problem occurs, check all connections.

**THIS COMPLETES THE INSTALLATION OF THE LT-100**

**The responsiveness can be altered by adjusting the switches on the JD Contour Master™/Dial-A-Matic™ circuit board.**

SWITCH 1	SWITCH 2	SWITCH 3	SWITCH 4	SWITCH 5	RESPONSIVENESS
OFF	OFF	OFF	OFF	OFF	LEAST
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Contour Master™ circuit board switch settings					

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