



Shut down the tractor and remove the key before repairing, servicing, lubricating or cleaning the machine.

Disconnect the hydraulic hoses from the tractor before going near the machine. Relieve all hydraulic pressure in the hoses.

Securely block the machine to avoid any movement while doing the work.



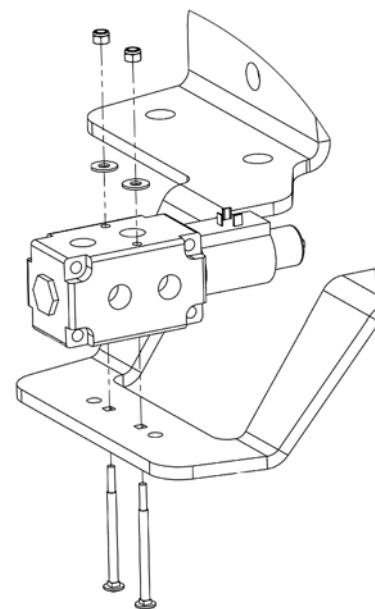
Removing Parts

1. Disconnect all the hydraulic hoses from the solenoid valves located between the hitch frame tubes.
2. Disconnect the electrical connectors from the solenoid valves located between the hitch frame tubes.



Disconnect Hoses and Electrical from Solenoids ²¹⁵²⁰⁷

3. Remove the solenoid valves by removing the 1/4" locknuts, washers and carriage bolts.



Remove the Solenoid Valves ²¹⁵²⁰⁸

Installation of the 1 Remote (Joystick) On Top Gun 650

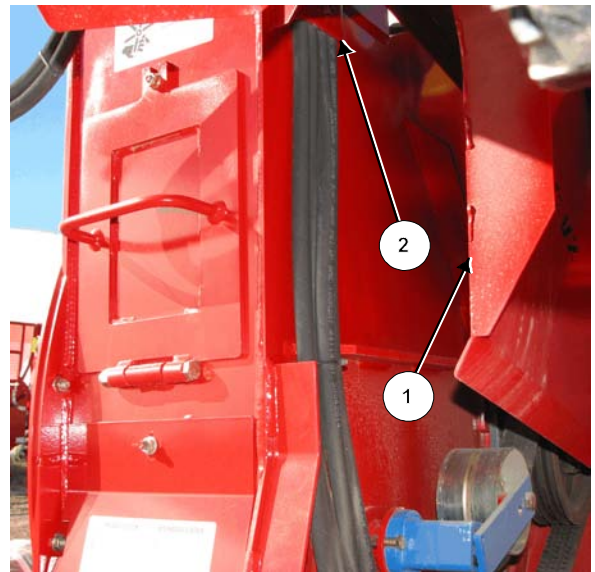
4. Disconnect the hydraulic hoses from the nozzle rotate motor.



Disconnect Hoses from the Motor

215209

5. Lift the drive shield (1).
- Take note of how the hoses are routed. The new hoses to be installed will follow this same routing.
6. Remove the hose clamp (2) holding the hoses.
7. Remove the turret motor hoses.
- These hoses can be discarded.



Remove Hose Clamp and Hoses

215210C

8. Disconnect the hydraulic hoses from the nozzle lift cylinder.
- Take note of how the hoses are routed through the rings (1) near the chain. The new hoses to be installed will follow this same routing.
9. Remove the nozzle lift cylinder hoses.
- These hoses can be discarded.



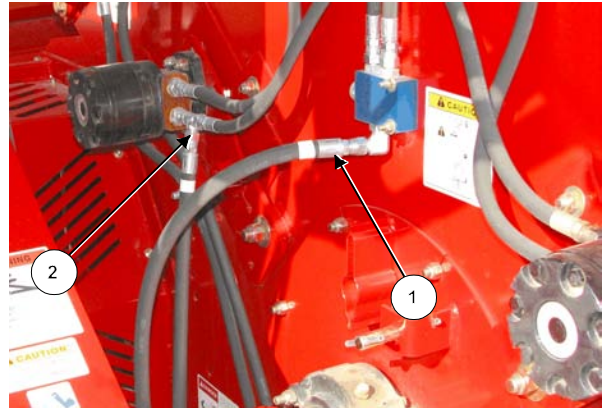
Remove Nozzle Lift Cylinder Hoses

215211C

Installation of the 1 Remote (Joyystick) On Top Gun 650

10. Disconnect the hydraulic hoses from the feed rollers.

- Disconnect the hose from the flow divider (1).
- Disconnect the hydraulic hose from the tee connection at the right feed roller (2).

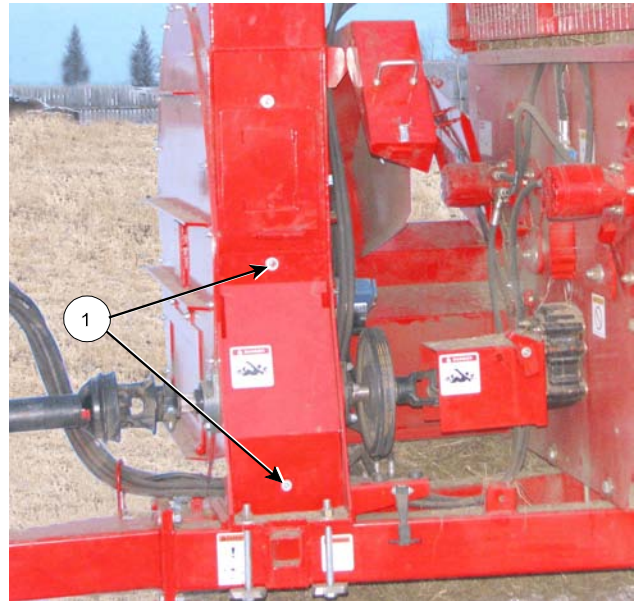


Disconnect Hoses from the Feed Rollers

215212C

11. Remove the drive shield from the side of the blower.

- Remove the nuts (1) from the shield.



Remove the Blower Drive Shield

215213C

12. Remove the feed roller hydraulic hoses through the blower side plates.

- Discard these hoses.



Remove Feed Roller Hoses

215214

Installation of the 1 Remote (Joytstick) On Top Gun 650

13. Disconnect the bale lift hoses from the bulkhead connections on the rear tub wall.



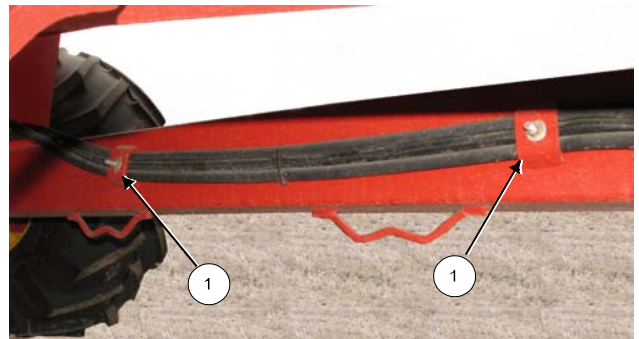
Disconnect Bale Lift Hoses

215215

14. Remove the hose clamps along the inside of the right frame member.

15. Remove the bale lift hoses from along the frame.

- Leave the electrical cable for the rear lights. It will be placed under the hose clamps when the new hoses are put in place.



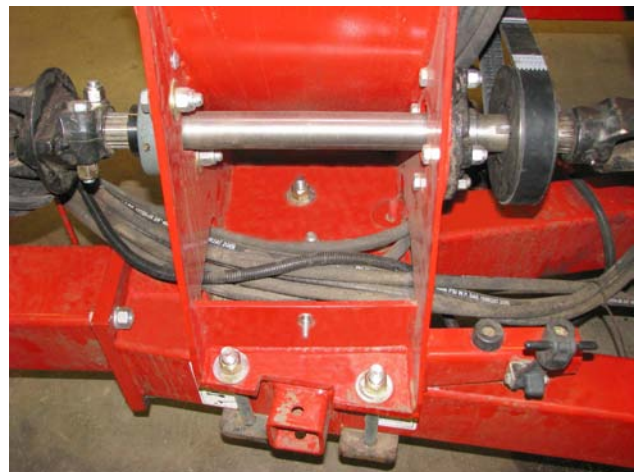
Remove Hose Clamps Along Frame

215216C

16. Remove the bale lift hoses from the blower side plates.

17. Remove the bale lift hoses from the hitch.

- Discard these hoses.



Remove Feed Roller Hoses

215214

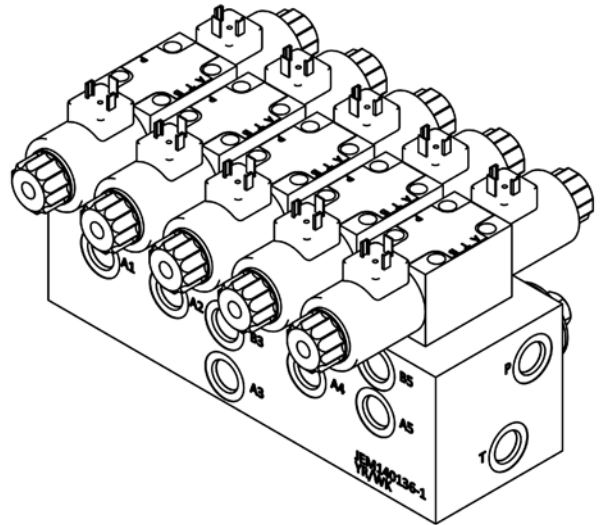
18. Remove the hoses that went from the solenoid valves to the tractor.

- Remove the hoses from the blower side plates and from the hitch.
- Discard these hoses.

19. If the optional discharge door is installed, leave the hoses connected to the door cylinder.
 - The cylinder hoses will be connected to the new hydraulic block later.

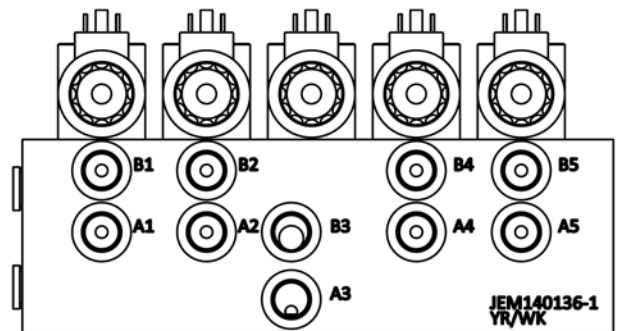
Installing Parts

1. Place the hydraulic block between the frame members and behind the front tub wall.
 - Place the block with the hydraulic ports to the front of the machine and the solenoids at the top.
 - Place the block on a support that leaves room to connect hoses and electrical cable connections. The block will be fastened to the frame in a later step.
2. The new hydraulic hoses and fittings will be connected according to the diagram shown below.
 - Use the fittings and hoses shown in the diagram and table.



Hydraulic Block

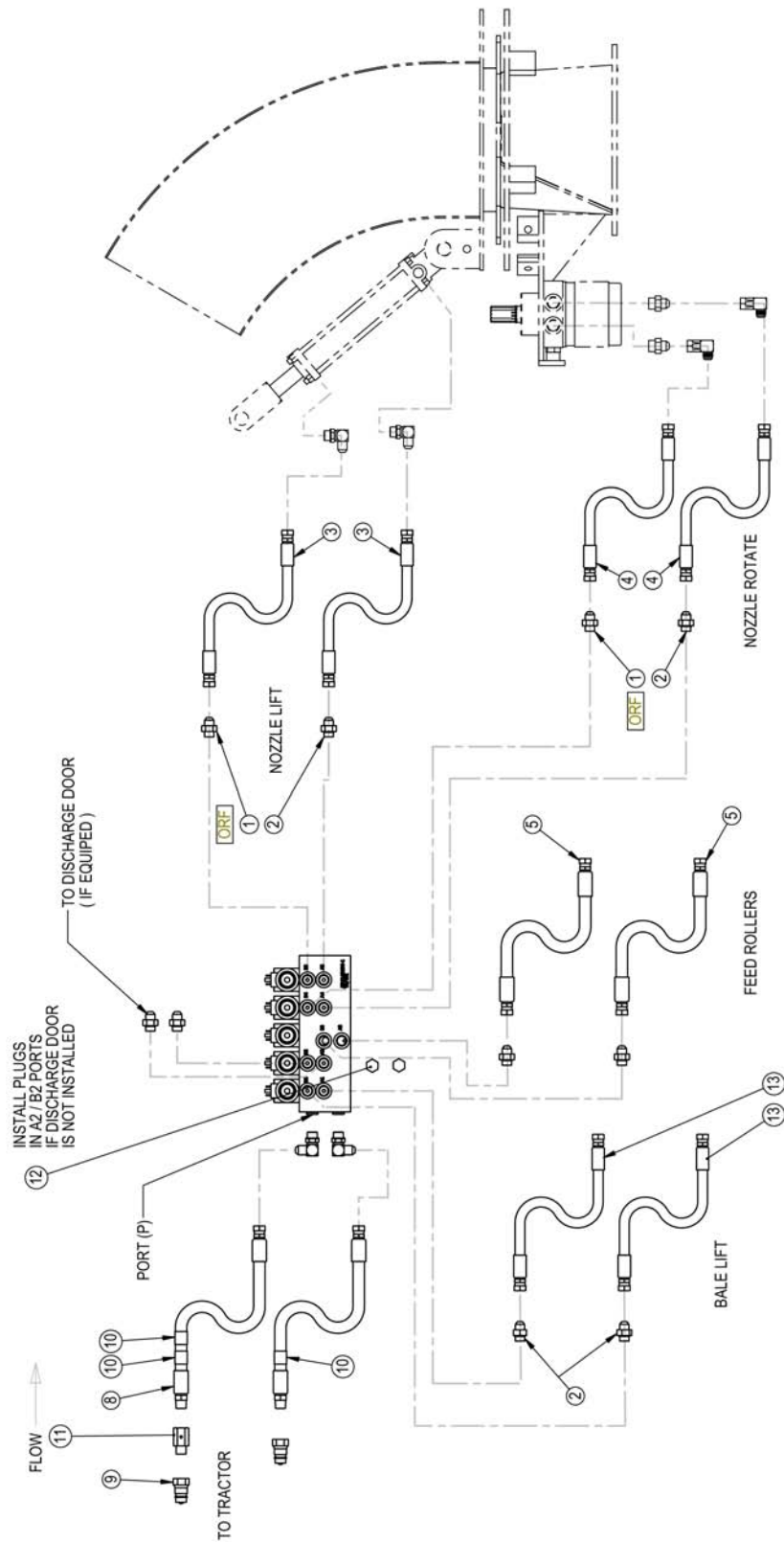
42759_A



Hydraulic Block

42759_A2

Installation of the 1 Remote (Joytstick) On Top Gun 650



Hydraulic Hoses and Fittings

43326_A

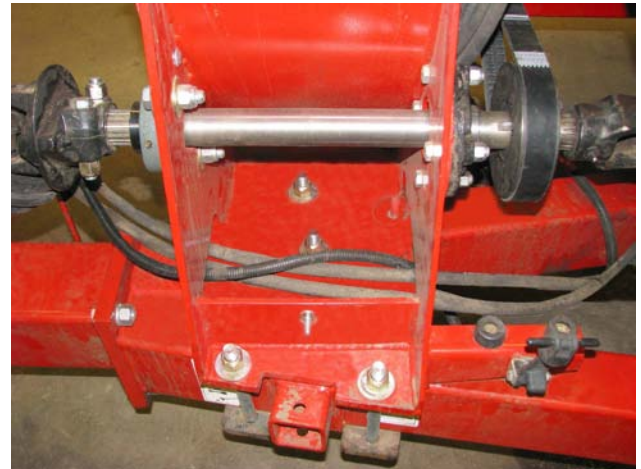
Installation of the 1 Remote (Joystick) On Top Gun 650

ITEM	DESCRIPTION	QTY.
1	HYD,FIT,ADAPTER,8MB-8MJ,031ORIFICE	2
2	HYD,FIT,ADAPTER,8MB-8MJ	8
3	HYD,HOSE,3/8X139,8FJX-8FJX,2W	2
4	HYD,HOSE,3/8X115,8FJX-8FJX,2W	2
5	HYD,HOSE,1/2X52,8FJX-8FJX,2W	2
6	HYD,FIT,ELBOW,8MB-8MJ90	2
7	NYLON ABRA SLEEVE,4.4ID 55L	1
8	HYD,HOSE,1/2X168,8MP-8FJX,2W	2
9	HYD,FIT,PIONEER,MALE,8FP	2
10	HOSE BAND,GREEN	3
11	HYD,VALVE,CHECK,08MP-08FP	1
12	HYD,FIT,PLUG,8MB	2
13	HYD,HOSE,3/8X100,8FJX-8FJX,2W	2

3. Route the hoses to the tractor through the blower side plates.

4. Connect the pressure hose to the hydraulic block to the port labeled as "P".

- Connect the other tractor hose to the port labeled as "T".



Route Hoses Through Blower Side Plates

215217

5. Connect the bale lift hoses to ports "A1" and "B1".

6. Connect the bale lift hoses to the bulkhead fittings on the back tub wall.



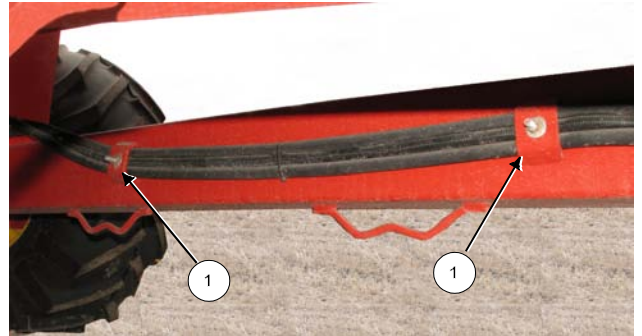
Bale Lift Hoses Connected to Bulkhead Fittings

215215

Installation of the 1 Remote (Joystick) On Top Gun 650

7. Route the bale lift hoses along the right frame tube.

- Route the rear light electrical cable along with the hoses.
- Fasten the hoses/cable in place with the hose clamps (1).



Remove Hose Clamps Along Frame

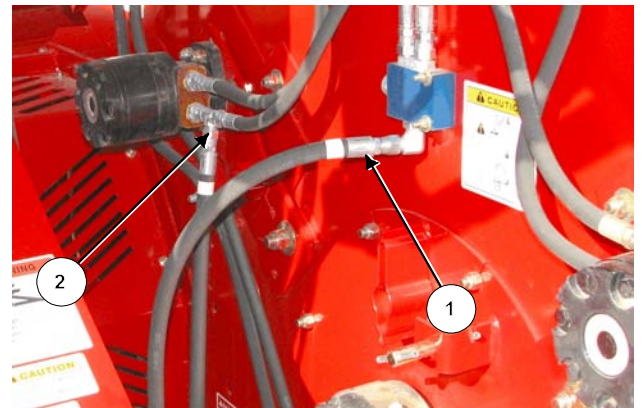
215216C

8. If the optional discharge door is installed, connect the cylinder hoses to ports "A2" and "B2".

- If the optional discharge door is not installed, place the supplied plugs into ports "A2" and "B2".

9. Connect the feed roller hoses.

- Connect a hose to the flow divider (1).
- Connect a hydraulic hose to the tee connection at the right feed roller (2).
- Connect the hoses to ports "A3" and "B3".



Connect Hoses to the Feed Rollers

215212C

10. Connect the nozzle rotate hoses to the nozzle motor.

- Connect the hoses to ports "A4" and "B4".



Connect Hoses to the Motor

215209

Installation of the 1 Remote (Joyystick) On Top Gun 650

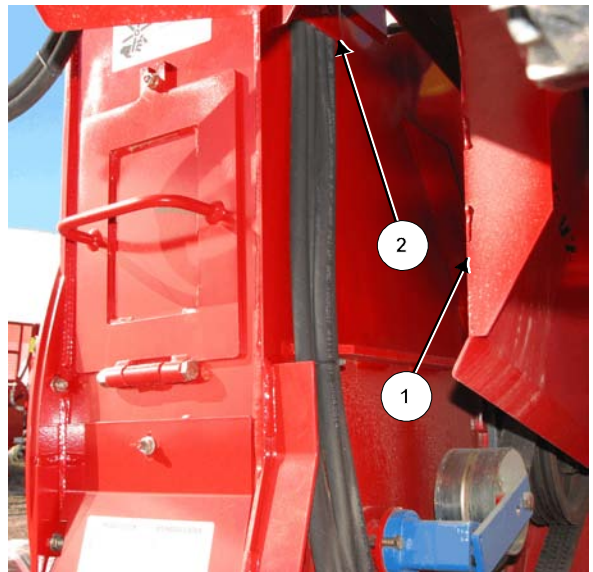
11. Connect the nozzle lift hoses to the nozzle cylinder.
 - Route the hoses through the rings (1) near the chain.
 - Connect the hoses to ports "A5" and "B5".



Remove Nozzle Lift Cylinder Hoses

215211C

12. Fasten the nozzle rotate hoses and the nozzle lift hoses to the blower wall using the hose clamp (2).



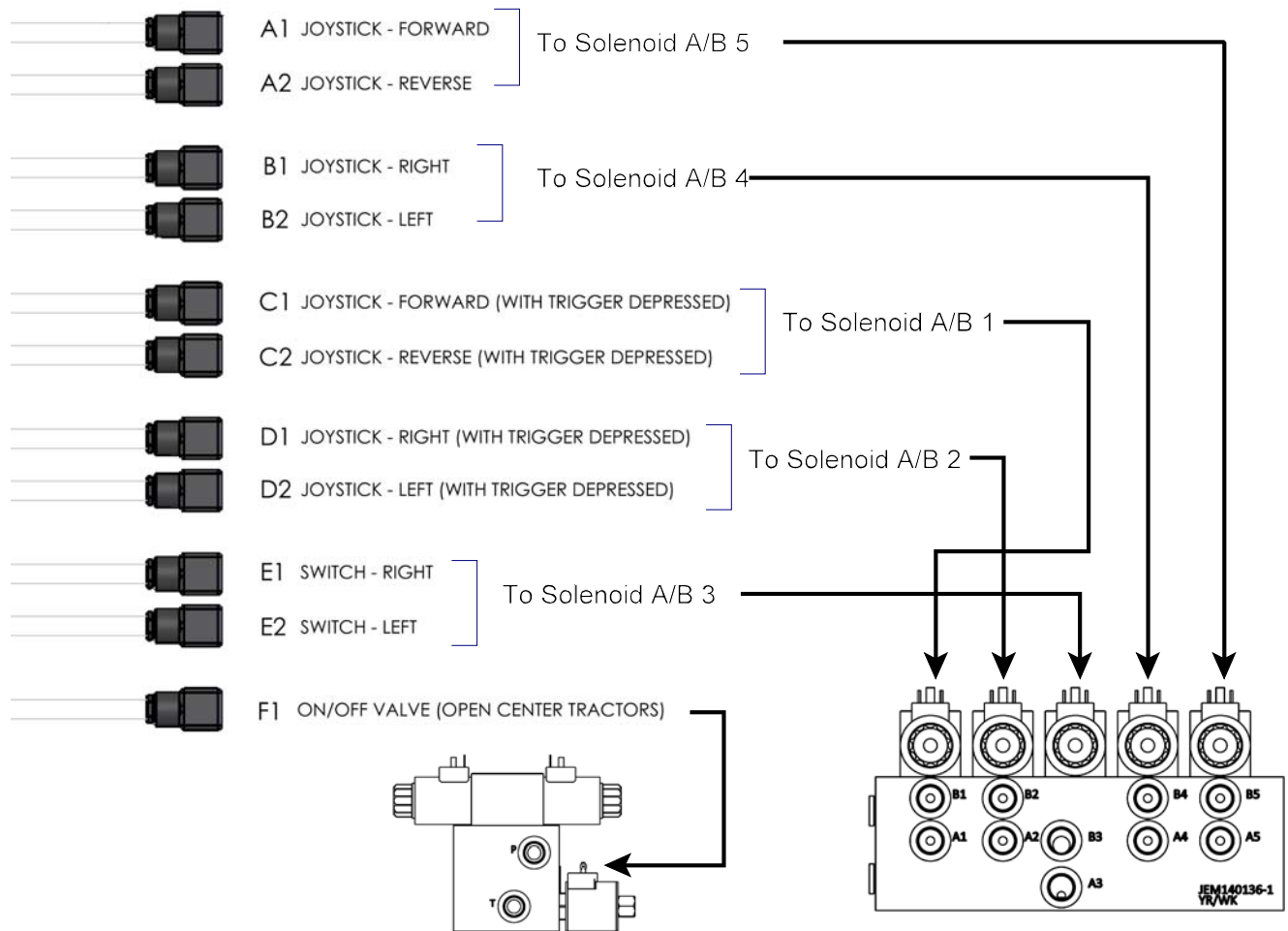
Remove Hose Clamp and Hoses

215210C

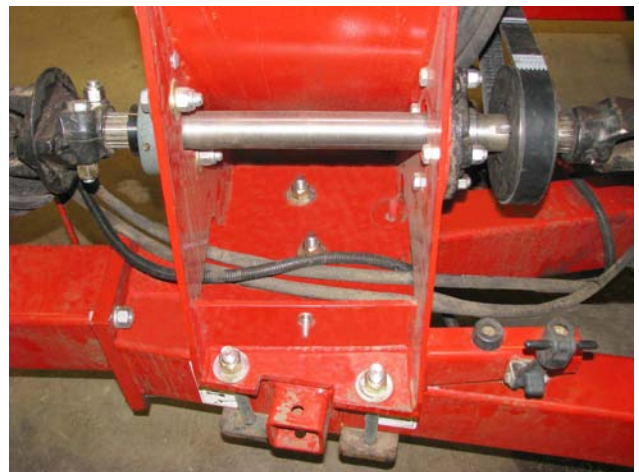
13. Attach the electrical control cable to the solenoids on the hydraulic block according to the diagram below.

Note: Only attach connector "F1" if the tractor has open center hydraulics. The actuator in the valve block adjusts for open center hydraulics.

Installation of the 1 Remote (Joystick) On Top Gun 650



14. Route the control cable through the blower side plates and up to the front of the hitch.

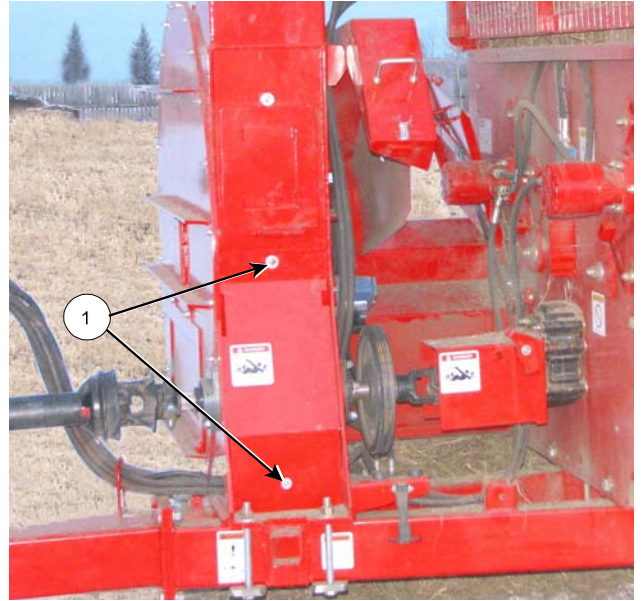


Route Cable Through Blower Side Plates

215217

Installation of the 1 Remote (Joytstick) On Top Gun 650

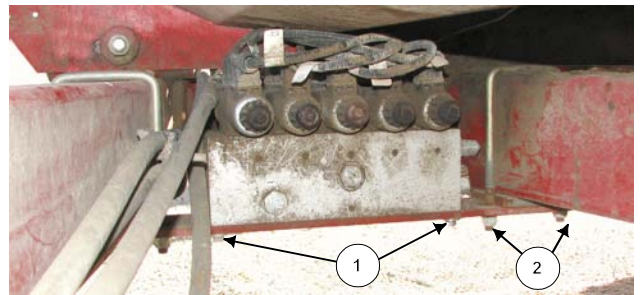
15. Put the drive shield back onto the side of the blower.
 - Replace the nuts (1) onto the shield.



Blower Drive Shield Back in Place

215213C

16. Attach the hydraulic block to the mounting plate with 4 of 5/16" x 1" bolts and lockwashers (1).
17. Mount the hydraulic block/plate to the frame using 2 of 1/2" u-bolts, flat washers and stover nuts (2).

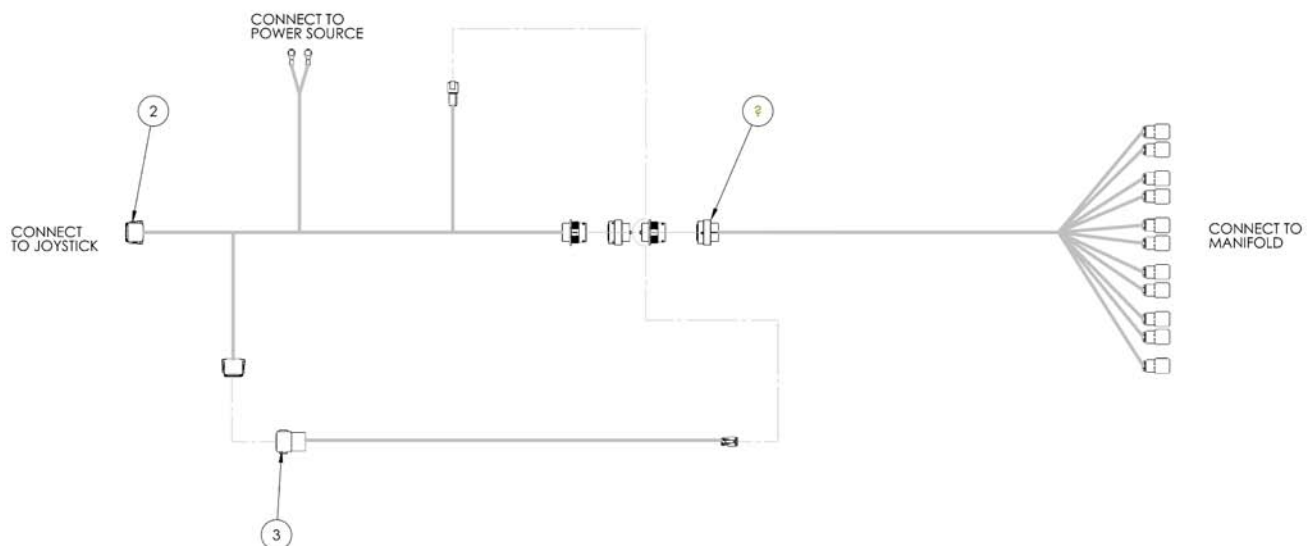


Attach Block Plate. Mount to Frame

215218C

Installation of the 1 Remote (Joystick) On Top Gun 650

18. Route the joystick harness (2) along the hitch into the cab of the tractor.
 - Connect the joystick harness to a power source that is rated for 10 amps or more.
 - The power can also be taken directly from the tractor battery.
19. If tractor has an Open-loop circuit, then install the 12" diode harness (3) to the harness connectors.
20. Connect the joystick cable (2) to the manifold cable (1).
21. Place the nylon abrasive sleeve over the hydraulic hoses and the electrical cables on the hitch.
 - This sleeve prevents wear on the hoses and cables.



Connect the Cables

42763_A

22. Mount the joystick in the cab.
 - Connect the harness to the joystick.
23. Mount the joystick decal in the cab so that it is easily visible.

Joystick Control For Bedding

The joystick has multifunction ability. These functions are shown on the decal.

Nozzle Height

The joystick controls the angle of the discharge nozzle. The nozzle can be raised or lowered. Refer to the decal on the joystick for the desired height movement.

Nozzle Rotate

The joystick controls the rotation of the discharge nozzle. Refer to the decal on the joystick for the desired rotation.

Bale Forks

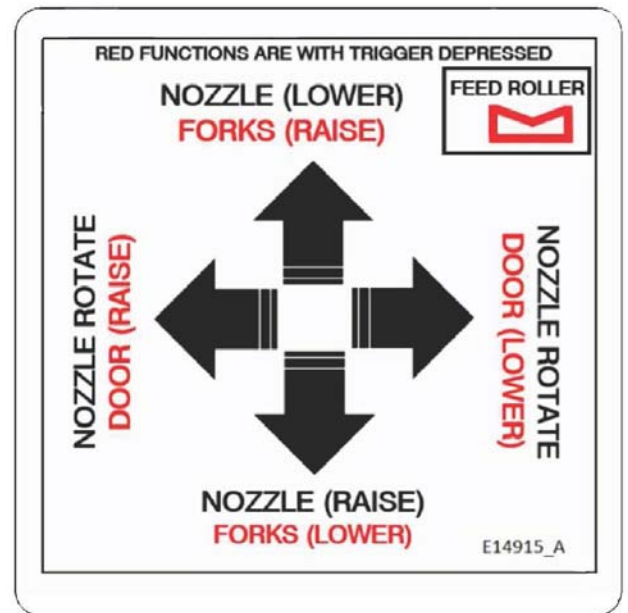
The joystick controls the bale forks for loading bales into the tub. Use the joystick with the trigger depressed to raise or lower the bale forks.

Feed Rollers

The joystick controls the direction of rotation of the bale feed rollers. Depress the rocker switch to rotate the rollers.

Discharge Door

The discharge door (if present) is not used when the TOP GUN is used for bedding.



Joystick Control

E14915_A

Joystick Control For Feeding - Not Using the Blower

The joystick has multifunction ability. These functions are shown on the decal.

Nozzle Height

The nozzle is not used for feeding when the auger doors are open.

Nozzle Rotate

The nozzle is not used for feeding when the auger doors are open.

Bale Forks

The joystick controls the bale forks for loading bales into the tub. Use the joystick with the trigger depressed to raise or lower the bale forks.

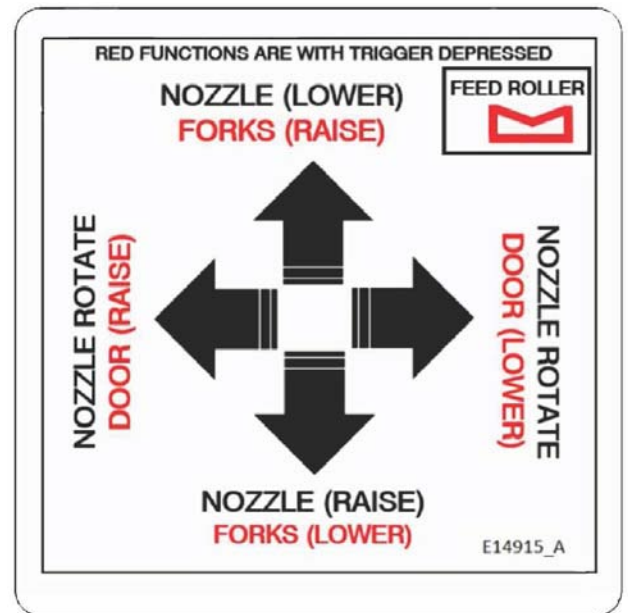
Feed Rollers

The joystick controls the direction of rotation of the bale feed rollers. Depress the rocker switch to rotate the rollers.

Discharge Door

The discharge door (if present) can be raised or lowered when the TOP GUN is used for feeding with the auger doors open.

- Use the joystick with the trigger depressed to raise or lower the discharge door.



Joystick Control

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