



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

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

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



Do Not Enter Tub While Parts Are Rotating

Before entering the tub:

- Turn off the tractor and remove the key.
- Wait for rotating parts to stop

Contact with the rotating flail drum will cause serious injury or death.

1. Set the aggression adjustment handle to the number 3 position.
2. Lock the flail drum with the flail drum lock on the front tub wall.
3. Inside the tub, place some wooden blocks between the flail drum and the guard rods to prevent the rods from falling when the adjustment handle is removed.



Lock the Flail Drum

221364



Block Up the Guard Rods

215058

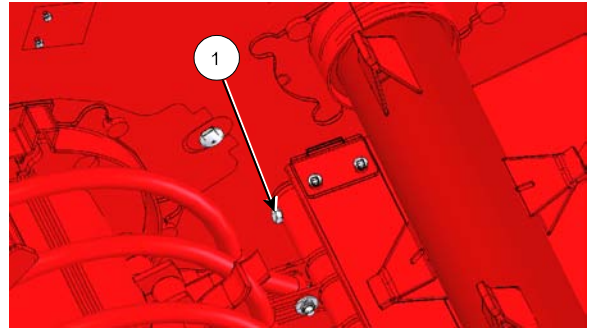
Assembly of the Hydraulic Aggression Control on the BP 663

Note: There are two types of aggression adjustment handles.

- One that is shaped like a "u".
- One that is a hand crank style.

To remove the U-shaped handle adjustment:

- Move the handle to lower the guard rods to be resting on the wood blocks.
- Inside the tub, remove the fasteners (1) holding the guard adjustment handle to the adjustment rod.
 - Discard these fasteners.
- At the front tub wall, remove the U-shaped adjustment handle and lock (2) by pulling them forward.
 - This handle and lock can be discarded.



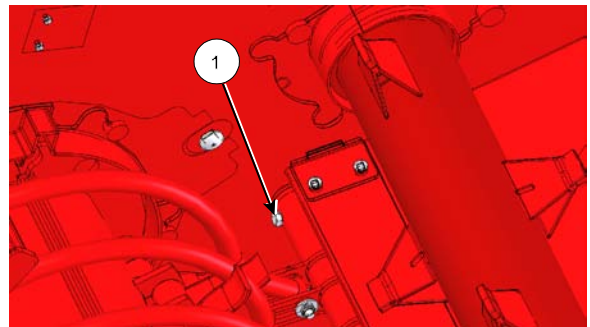
Remove Fasteners from Adjustment Handle 221245C



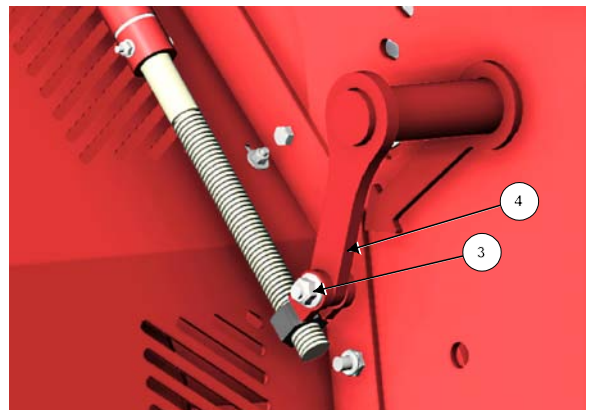
Remove the Adjustment Handle 221246C

To remove the crank style adjustment:

- Use the crank to lower the guard rods to be resting on the wood blocks.
- Inside the tub, remove the fasteners (1) holding the guard adjustment handle to the adjustment rod.
 - Discard the fasteners.
- At the front tub wall, remove the nut (3) and bolt holding the adjustment crank lug (4).
 - Discard these fasteners.
- Remove the adjustment crank lug (4).
 - Discard this crank lug.



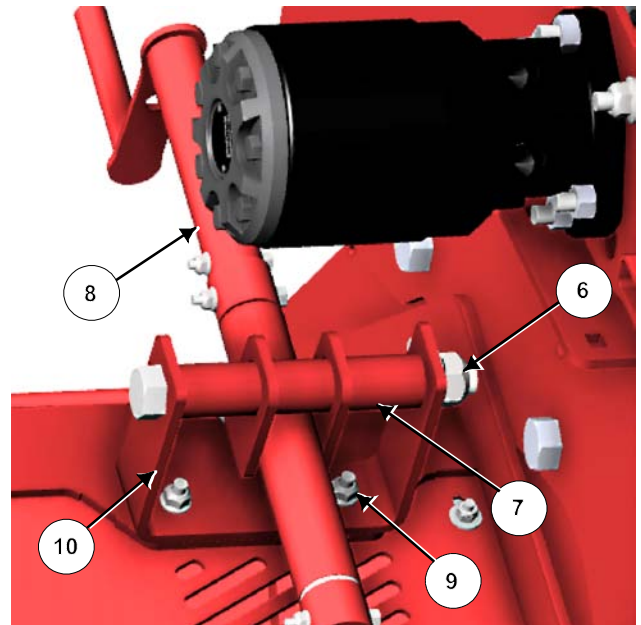
Remove Fasteners from Handle 221245C



Remove the Fasteners and Adjustment Lug 222345C

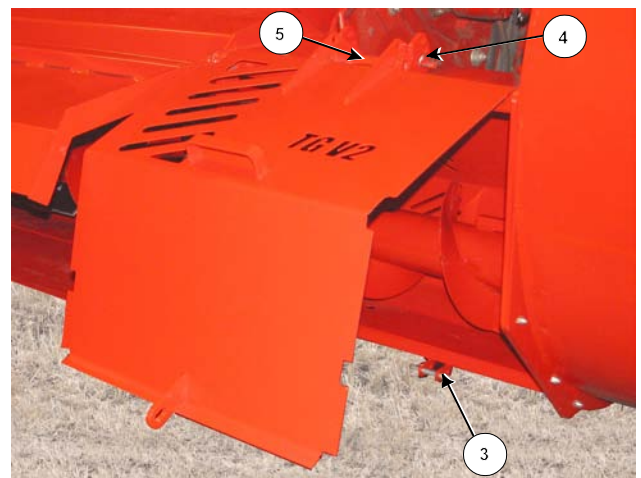
Assembly of the Hydraulic Aggression Control on the BP 663

- Remove the nut and bolt (6) and spacer pipe (7) from the hinge (10).
- Remove the crank handle (8).
- Remove the two nuts and carriage bolts (9) from the hinge (10).
- Remove the hinge (10).



Remove the Crank Handle Assembly and Crank Hinge
222346C

- Remove the carriage bolts (9) from inside the transition housing.
 - Raise the transition housing:
 - Remove the pin from the bottom of the cover (3).
 - Place the pin back into the tabs.
 - Remove the spring pin (4) from the hinge pin (5) at the top of the cover.
 - Remove the hinge pin.
 - Rotate the cover to the open position.
 - Install the hinge pin (5).
 - Install the spring pin (4).



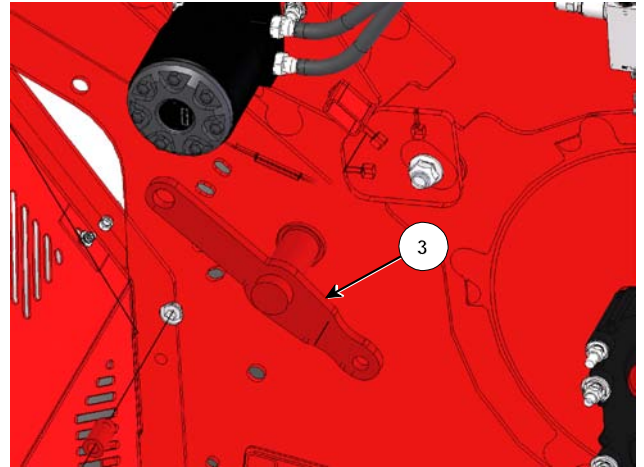
Raise the Transition Housing to Remove the Hinge Carriage Bolts
212129C

- After removing the carriage bolts, close the transition housing and fasten with the pins described above.

Assembly of the Hydraulic Aggression Control on the BP 663

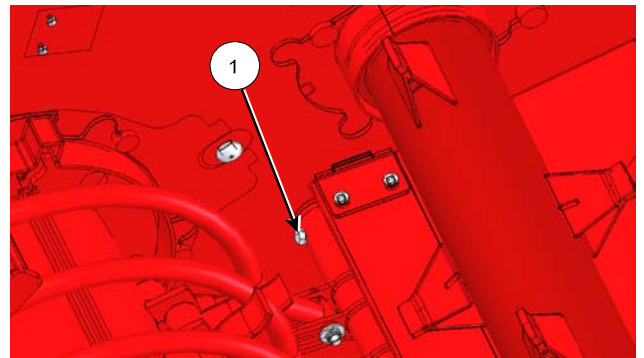
Install the Hydraulic Aggression Control:

- Place the new adjustment link (3) into the guard rod adjustment tube located inside the tub.
- Position the adjustment link with the short end of the link toward the flail drum gearbox.
- Inside the tub attach the adjustment link (3) to the adjustment rod with a new $\frac{1}{2}$ " x 3" bolt and nylon locknut (1).
- Assemble the remaining parts according to the table and diagram that follow.



Place Adjustment Link into Adjustment Rod

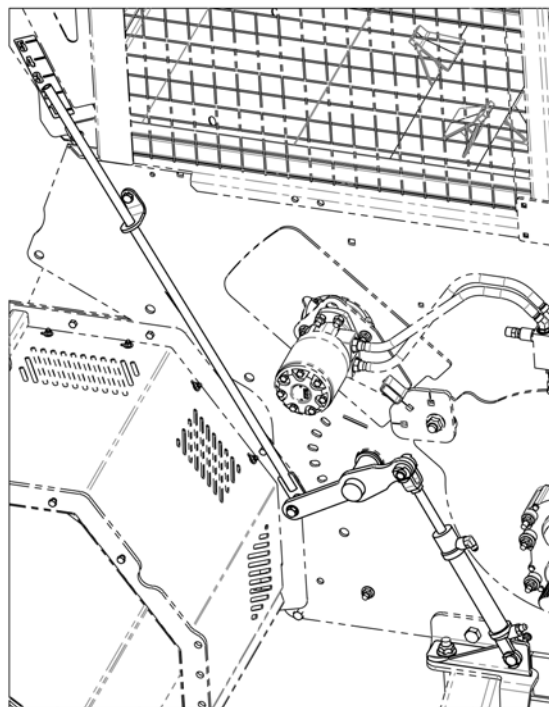
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Attach the Link to Adjustment Tube

221245C

ASSEMBLED VIEW

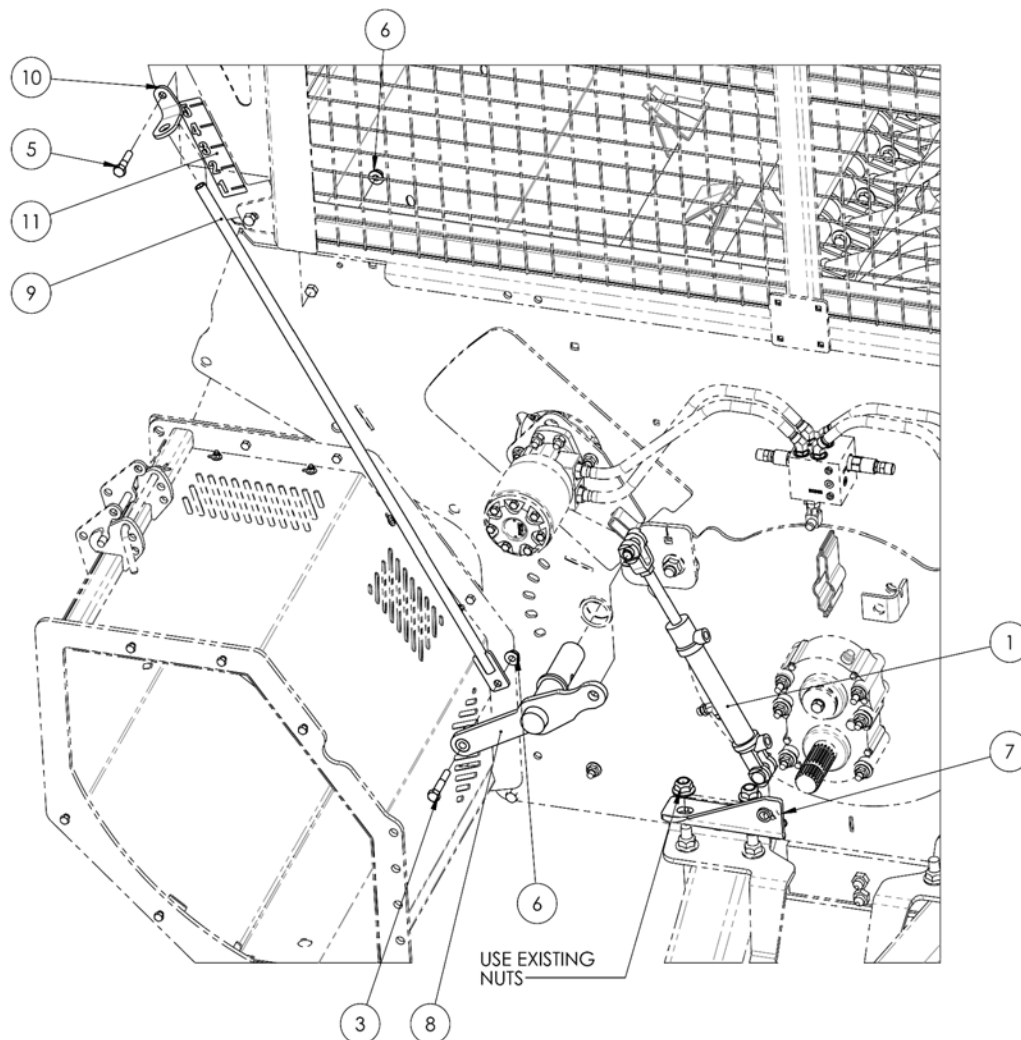


Assembled Hydraulic Aggression Control

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Assembly of the Hydraulic Aggression Control on the BP 663

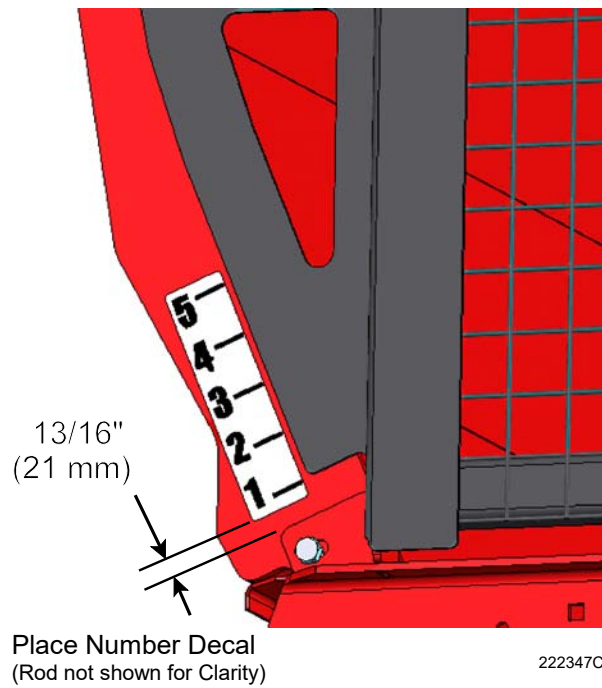
ITEM	PART
1	CYL HYD 1-1/4X6X16-1/4 NONSRVC (Mount the cylinder with the hydraulic ports facing the gearbox. Fasten with the cylinder pins.)
3	BOLT,HEX,1/2X2-3/4,UNC,GR5,ZP
5	BOLT,HEX,1/2X2,UNC,GR5,ZP
6	NUT,FLG,LOCK,1/2,UNC,GR5,ZP
7	LUG,CYL,663,HAC (Remove the nuts from the u-bolt to mount the lug.)
8	SHAFT, GUARD ROD ADJ
9	PIPE,INDICATOR
10	GUIDE,INDICATOR
11	DECAL,INDICATOR,AGGRESSION



Install the Parts - Mount Cylinder with Ports Facing Upward

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- Place the number decal 13/16" (21 mm) up from the deflector mount tab.



- Remove the wood blocks from between the flail drum and the guard rods.

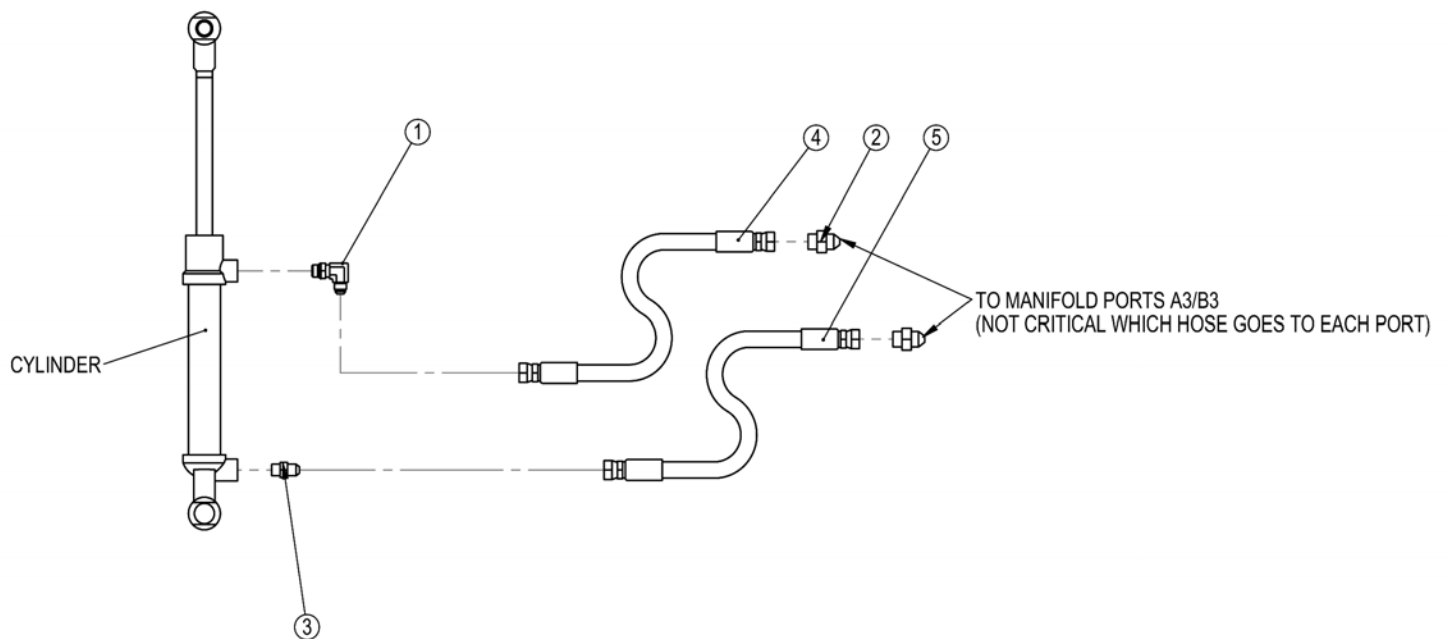


Remove Wood Blocks from Flail Drum

Install the Hydraulic Fittings and Hoses

1 Remote (Joystick) Hydraulic Fittings and Hoses

ITEM	DESCRIPTION
1	HYD,FIT,ELBOW,6MB-6MJ90
2	HYD,FIT,ADAPTER,8MB-6MJ
3	HYD,FIT,ORF,1/32,6MB-6MJ
4	HYD,HOSE,3/8X25,6FJX-6FJX,2W
5	HYD,HOSE,3/8X21,6FJX-6FJX,2W

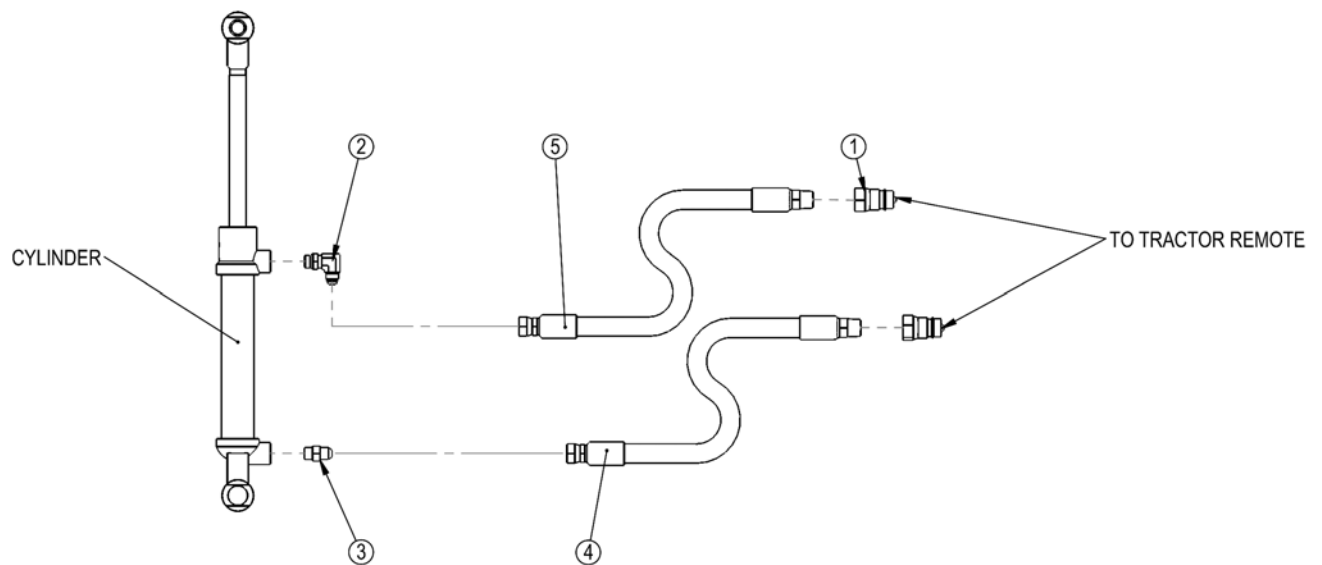


1 Remote (Joystick) Hydraulic Fittings and Hoses

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4 Remote Hydraulic Fittings and Hoses

ITEM	DESCRIPTION
1	HYD,FIT,PIONEER,MALE,8FP
2	HYD,FIT,ELBOW,6MB-6MJ90
3	HYD,FIT,ORF,6MB-6MJ
4	HYD,HOSE,3/8X150,8MP-6FJX,2W
5	HYD,HOSE,3/8X160,8MP-6FJX,2W



4 Remote Hydraulic Fittings and Hoses

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