

Section 5: Hydraulic Assist Operation

Section Contents

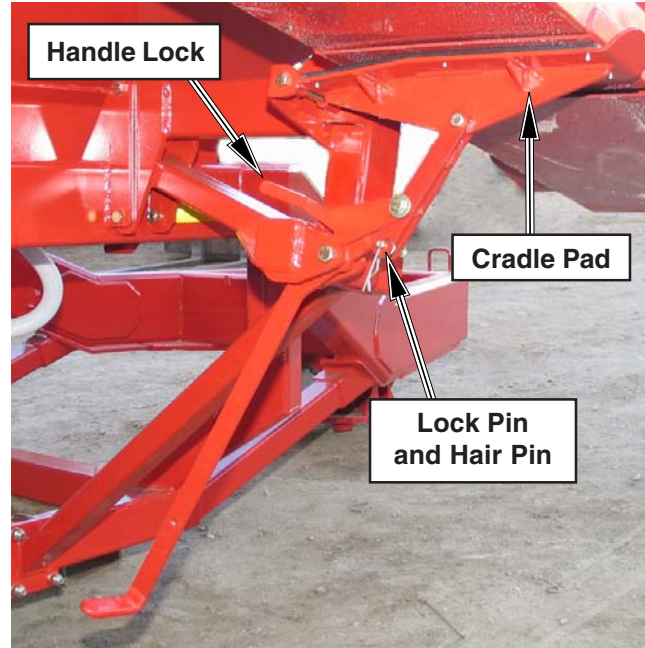
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Operation

Hydraulic Assit Settings

Handle Lock

- The front cradle is equipped with a handle lock.
- The handle lock is to guard against a sudden drop of the cradle pad.
- Ensure handle lock is position as shown to engage lock.



Arm Speed Control Adjustment

The operating speed of the arms will require setting to the preference of the operator. The hydraulic flow rate of the tractor directly affects the setting.

- Adjust the operating speed of the arms with the flow control valve to provide smooth controllable comfortable operation.

Note: The valve has a restrictor plate to prevent excessively quick movement of the arms. **DO NOT REMOVE** restrictor plate.



Flow Control Valve

Controller Storage

Box Controller

- Place box controller in holder on outer arm.



Note: Both controllers are water resistant. But should be placed inside when the air cart is not being used for extended periods or during prolonged rain.

Joy Stick Controller

- Place joy stick controller in holder on outer arm.
- Slide cover over joy stick.



Joy Stick Holder



Joy Stick Cover

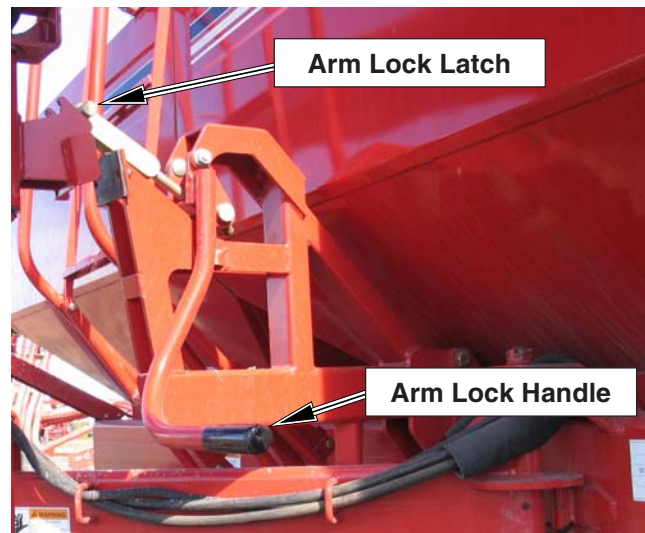
Operation

Hydraulic Assist Operation

- Ensure selector valve is in correct position for conveyor operation and engage tractor hydraulics.
- Extend lift cylinder to slightly pressure up conveyor body against upper cradle support. Excessive pressure could buckle body.
- Unlatch front lock. With some pressure on handle of lock arm, lift handle lock clear to release. Reduce pressure on handle to continue lowering cradle pad.
- Slowly lower cradle pad fully, keeping head and upper body clear of pad movement.
- Unlatch arm lock.



Front Lock



Arm Lock

! WARNING



OVERHEAD HAZARD

To prevent serious injury or death:

- Ensure lift cylinder is fully extended before unlatching Auger/Conveyor.
- Stay clear of cradle pad when locking and unlocking.
- Keep others away.

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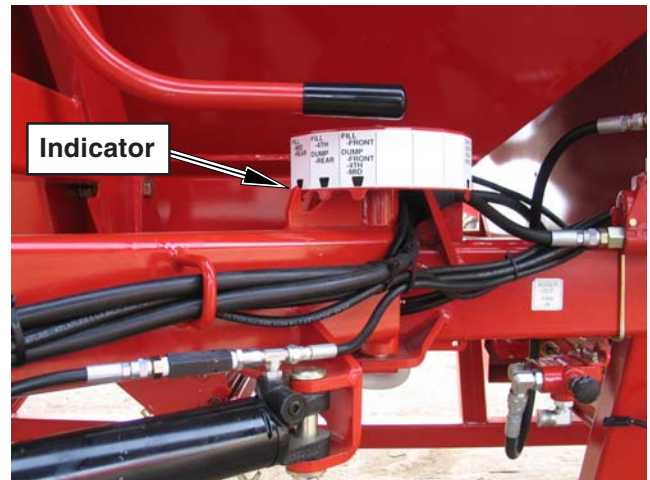
Hydraulic Assist Operation - Continued

- Refer to indicator decal for required inner arm positions.
- Swing out the conveyor using controller to extend/retract cylinders as required.
- Adjust the speed which the arms move at with the flow control valve to provide smooth operation. See “Arm Speed Control Adjustment”.

Note: The valve has a restrictor plate to prevent excessively quick movement of the arms. DO NOT REMOVE restrictor plate.

- Whether filling or dumping tanks, start by positioning inner arm as indicated. Move outer arm as required.
- All three tanks can be filled from a central hopper location as shown in diagrams on next page. Keeping hopper anchored move both arms in small increments from one tank to the next.

Note: To move from dumping front and 4th tanks to middle tank or vice versa, conveyor must be completely swung out and around to the opposite side of the inner arm.



Arm Position Indicator

Danger

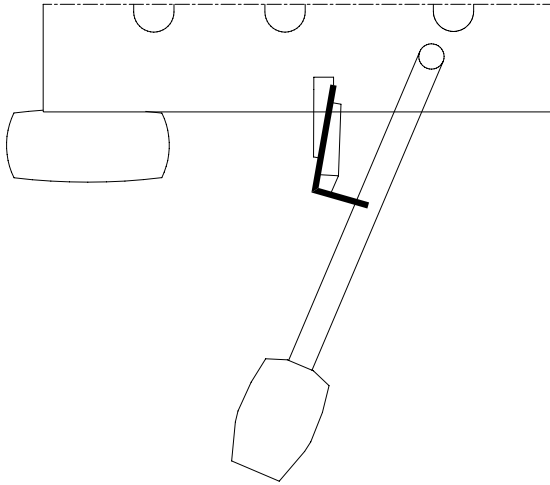
Keep all shields in place. Keep hands, feet and clothing away from auger intake, failure to do so will result in serious injury or death.



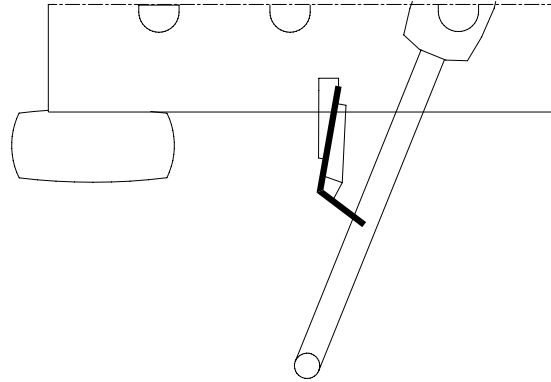
Operation

Arm Positions

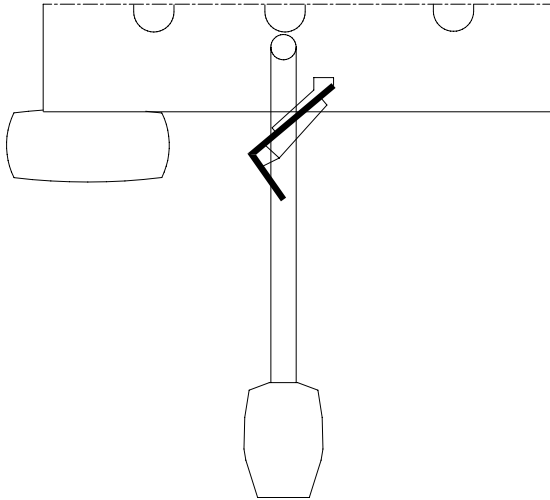
Fill Front Tank



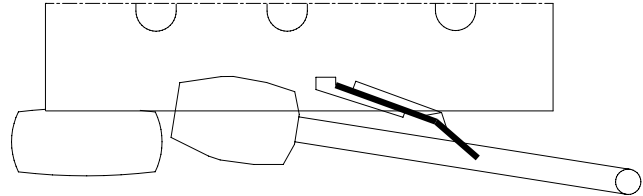
Empty Front Tank



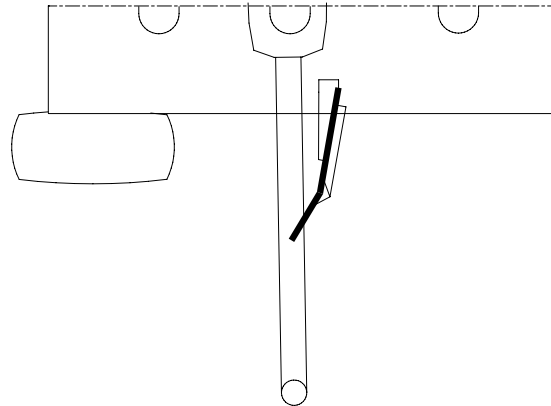
Fill Middle Tank



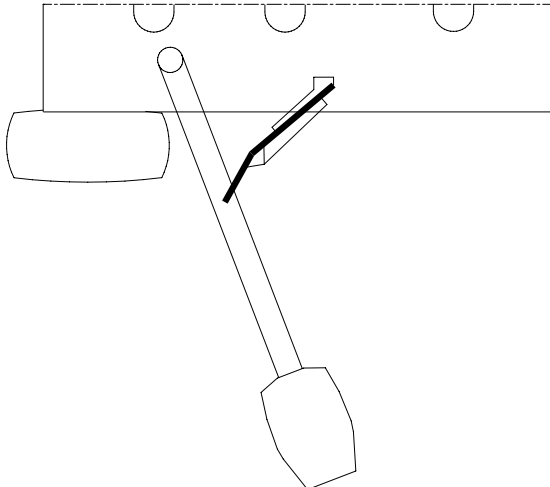
Swing Under Rear/Middle Tank



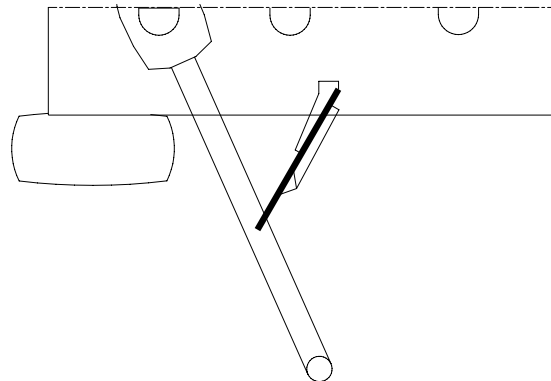
Empty Middle Tank



Fill Rear Tank

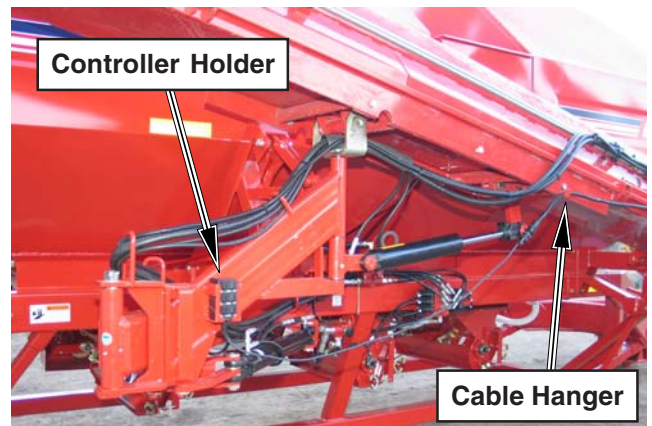


Empty Rear Tank



Hydraulic Assist Transport

- Swing conveyor into transport position using controller to extend/retract cylinders as required.
- With lift cylinder pressure conveyor body firmly against upper cradle support. This will make locking cradle pad in place easier.
- Lock cradle pad in place with cradle handle.
- Ensure handle lock is position as shown to engage lock.
- Secure controller in holder or remove if desired.
- Lock arm lock.



Operation

Notes
