

300 CORN HUSKER



OPERATORS MANUAL

**300
CORN HUSKER**

OMN159565 H2 English

**JOHN DEERE DES MOINES WORKS
OMN159565 H2**

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ENGLISH



Introduction



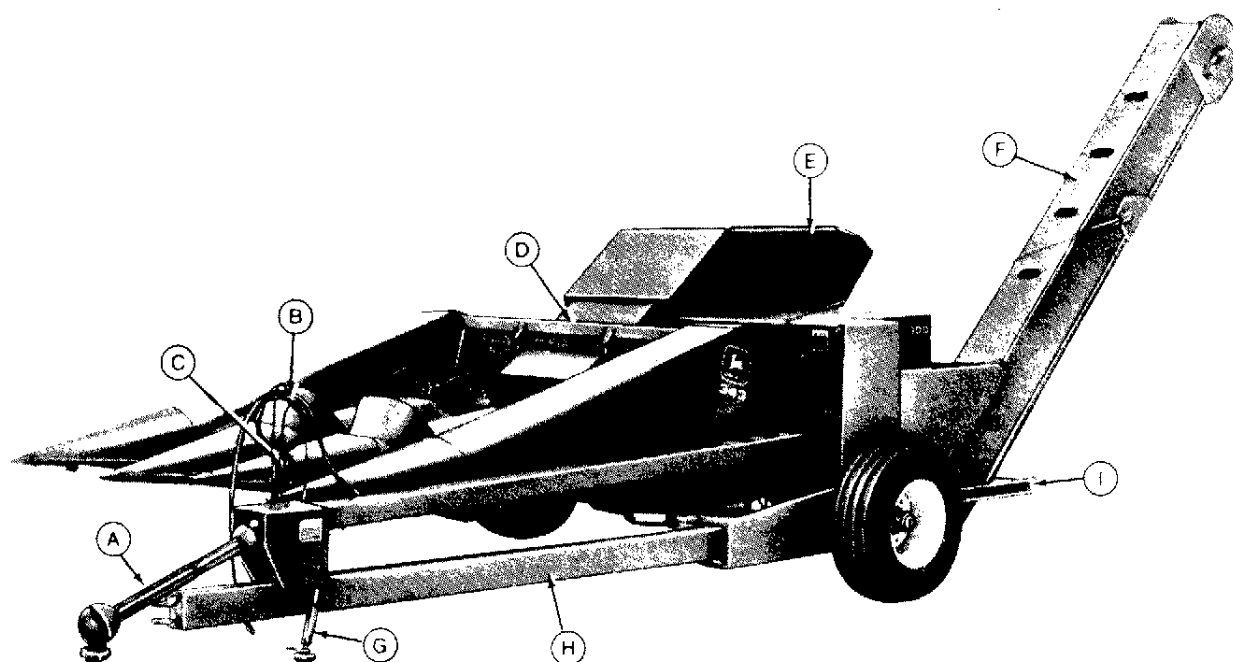
CAUTION: This safety alert symbol identifies important safety messages in this manual. When you see this symbol, be alert to the possibility of personal injury and carefully read the message that follows.

This operator's manual contains SI Metric equivalents which follow immediately after the U.S. customary units of measure.

"Right-hand" and "left-hand" sides are determined by facing in the direction the husker will travel when in use.

The warranty appears on your copy of the purchase order which you should have received from your dealer.

Record your model and serial numbers on page 53.



775-111

John Deere 300 Husker with 343 Corn Head

A—POWR-GARD™ Powershaft
B—Lift Cylinder Hydraulic Hose
C—Electromagnetic Clutch Control Console

D—First Elevator
E—First Elevator Exhaust
F—Wagon Elevator

G—Storage Stand
H—Tongue
I—Wagon Drawbar

300 CORN HUSKER

PREDELIVERY CHECK LIST

- ☐ All grease fittings have been lubricated and gear case fluid level checked.
- ☐ Drive belts and chain have been checked for proper adjustment. See pages 33 through 36.
- ☐ Make sure the 30 tooth drive sprocket is on the husker and the 24 tooth sprocket is on the corn head.
- ☐ Tires have been properly inflated. See page 7.
- ☐ Torque wheel bolts to 130 lb-ft (176 N·m).
- ☐ All shields are in place and in good condition. The rotating shields on the PTO shaft rotate freely.
- ☐ Check for any obstructions in the fan, first elevator air chamber, and shelled corn hopper.
- ☐ Run the husker at slow speed for a few minutes. Listen for clipping clutches or other indications of trouble. Shut off tractor engine and check gear case idlers, and bearing housing for heating.
- ☐ Any parts scratched in shipment have been touched up with paint.
- ☐ This husker has been checked and to the best of my knowledge, is ready for delivery to the customer.

NOTE: Corn head PDI and setup instructions are found in Section 10 of the Combine Technical Manual.

(Date)

(Signature)

OWNER REGISTER

Name _____

R.R. No. _____

City or Town _____

State _____ Zip _____

Husker Serial No. _____

Date Purchased _____

DELIVERY CHECK LIST

- ☐ Give the operator's manual to the customer and review all operating instructions and safety precautions with him.
- ☐ Explain the importance of keeping all shields in good condition and in place, and keeping PTO shaft shields rotating freely.
- ☐ When the husker is transported on the road, day or night, warning lights and devices should be used for adequate warning to operators of other vehicles. Advise the customer to check local governmental regulations concerning road transport of farm machinery.
- ☐ Advise the customer that the life expectancy of this or any other machine depends on the maintenance and care as described in the operator's manual.
- ☐ To the best of my knowledge, this husker has been delivered ready for field use and the customer has been fully informed as to the proper care and operation of same.

(Date)

(Signature)

AFTER-SALE CHECK LIST

- ☐ Check with the customer as to the performance of the husker. Make certain the proper operating adjustments for his crop (or field conditions) have been made.
- ☐ If possible, operate the husker to see that it is functioning properly.
- ☐ Go over entire husker for loose or missing bolts.
- ☐ Check for broken or damaged parts.
- ☐ Check to see that all safety shields are in place.
- ☐ Check with the customer to ascertain if the recommended periodic lubrication has been performed.
- ☐ Review the operator's manual with the customer and stress the importance of proper lubrication and safety precautions.

(Date)

(Signed)



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Safety



Operate Safely

DO NOT operate husker without reading this operator's manual.

DO NOT operate husker with more than one person on the tractor.

DO NOT allow anyone to ride on the husker.

DO NOT operate close to a ditch or creek.

Slow down when turning.

Drive slowly over rough ground.

Shift the tractor into a lower gear when operating on steep slopes.

Always shut off tractor engine, shift to "Park", and disengage PTO when leaving tractor. Remove ignition key when leaving tractor unattended.

Apply both tractor brakes evenly when making emergency stops. Plan ahead.

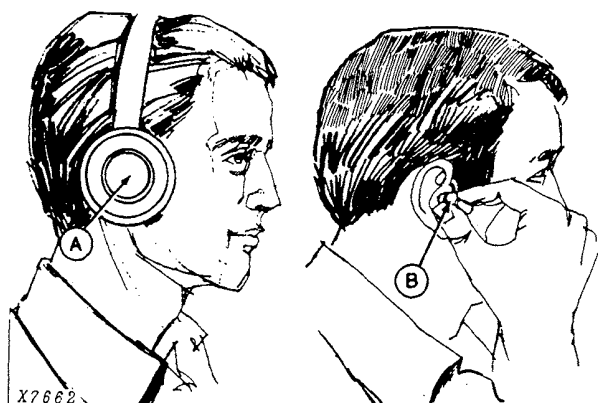
Wear relatively tight and belted clothing to prevent being caught on some part of the machine.

Know the height and width of the husker (and wagon).

Beware of overhead wires.

Keep hands out of corn head snapping rolls.

Unauthorized modifications to the machine may impair the function and/or safety and affect machine life.



Protect Against Noise

Prolonged exposure to loud noise can cause impairment or loss of hearing.

Wear a suitable hearing device such as earmuffs (A) or ear plugs (B) to protect against objectionable or uncomfortable loud noises.

A—Earmuffs

B—Earplugs

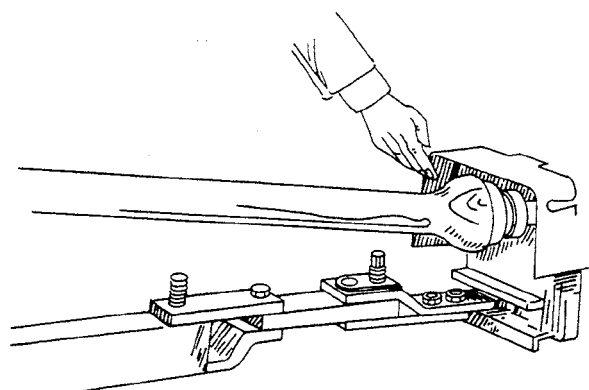
Stay Clear of PTO

Stop the engine and be sure the PTO has stopped before:

- Connecting or disconnecting a PTO shaft
- Making any adjustment to PTO drive train or hitch
- Cleaning out PTO driven equipment.

PTO master shield should be in place at all times except when connecting a PTO drive line or for special applications as directed in the operator's manual.

The PTO shaft guard should be in place when the PTO is not being used.



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Avoid Fires

DO NOT operate husker without a fire extinguisher near by. Fire extinguishers and mounting brackets are available. Order JD AT62018 and JD 62019 from your John Deere dealer. See page 52.



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Transport Safely

Use of flashing warning lights and turn signals is recommended when towing this equipment on public roads unless prohibited by state or local regulations. An implement safety lighting kit is available from your John Deere dealer.

If attached, always raise the corn head and install the safety support stop in the rear position.

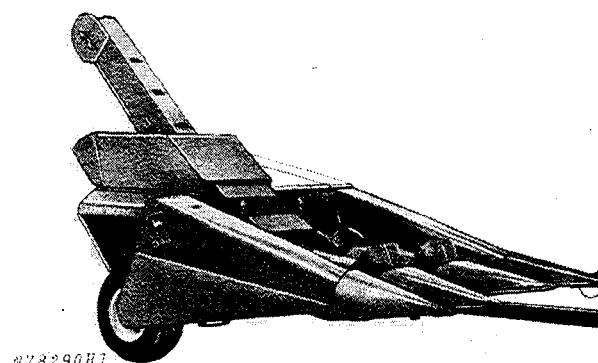
Always move the husker tongue from operating position to transport position.

Always raise the jackstand before transporting.

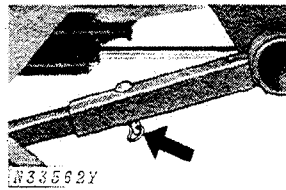
Shift the tractor into a lower gear when transporting down steep slopes of hills.

DO NOT transport unless the reflectors and SMV emblem are easily visible from the rear.

Stop slowly.



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Practice Safe Maintenance

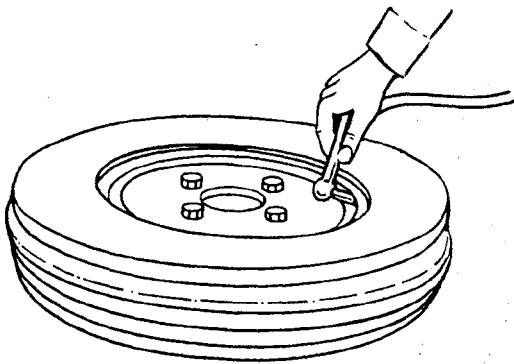
Always lower corn head before working on it. Install safety support pin in transport position (bold arrow) if working under corn head.

Replace any guards or shields removed for servicing.

Block the wheels so the husker remains stationary.

DO NOT lubricate, adjust, or clean the husker while it is operating.

Shut off tractor engine and remove key when working on husker.



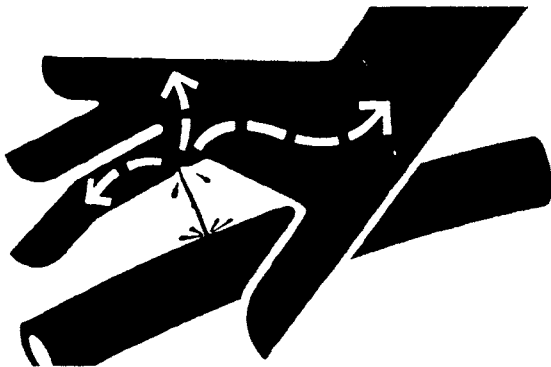
RW362

Mounting Tires

Failure to follow proper procedures when mounting a tire on a wheel or rim can produce an explosion which may result in serious injury or death. Do not attempt to mount a tire unless you have the proper equipment and experience to perform the job. Have it done by your John Deere dealer or a qualified tire repair service.

When seating tire beads on rims, never exceed 35 psi (241 kPa) or maximum inflation pressures specified by tire manufacturers for mounting tires. Inflation beyond this maximum pressure may break the bead, or even the rim, with dangerous explosive force. If both beads are not seated when the maximum recommended pressure is reached, deflate, reposition tire, relubricate bead, and reinflate.

Detailed agricultural tire mounting instructions, including necessary safety precautions, are contained in John Deere Fundamentals of Service (FOS) Manual 55, Tire and Tracks, available through your John Deere dealer. Such information is also available from the Rubber Manufacturers Association and from tire manufacturers.



X9811

Avoid High-Pressure Fluids

Escaping fluid under pressure can penetrate the skin causing serious injury. Relieve pressure before disconnecting hydraulic or other lines. Tighten all connections before applying pressure. Keep hands and body away from pinholes and nozzles which eject fluids under high pressure. Use a piece of cardboard or wood, rather than hands, to search for leaks.

If ANY fluid is injected into the skin, it must be surgically removed within a few hours by a doctor familiar with this type injury or gangrene may result.



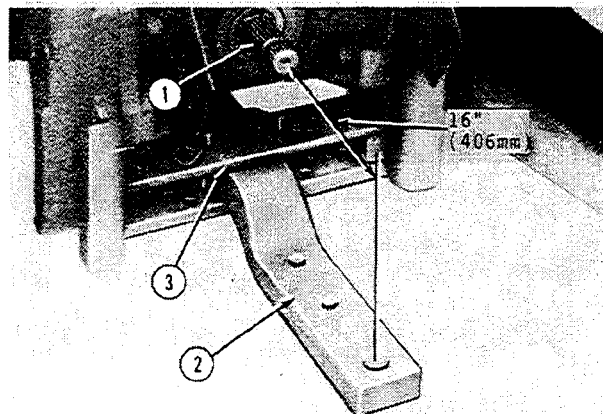
Preparing Tractor

1. Remove PTO guard and store it on the guard retainer.

CAUTION: Always install PTO guard on PTO shaft when PTO is not being used.

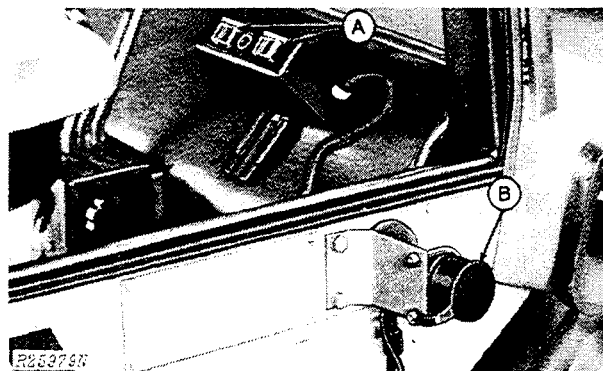
IMPORTANT: Husker is equipped for 1000 rpm PTO tractor **ONLY**. Minimum recommended PTO HP is 60 HP (45 kW) for 2-row husker and 65 HP (49 kW) for 3-row husker.

2. Position drawbar to dimension shown, from end of PTO shaft to center of drawbar hole, remove clevis if equipped, and offset, if equipped, should be down.
3. Lock drawbar in place with locking pins.
4. Secure in vertical position or remove the lift links and center link.



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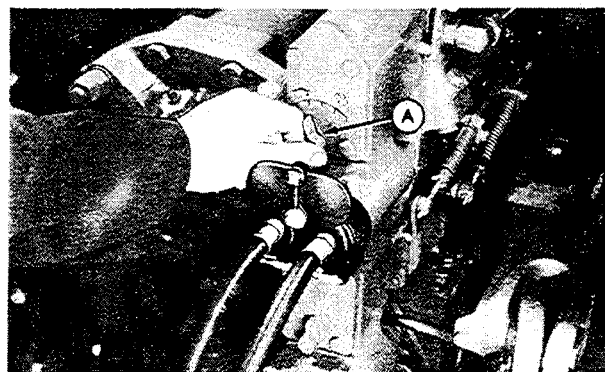
5. Make sure electrical switch (A) and receptacle (B) are installed correctly. See page 51.



A—Switch
B—Receptacle

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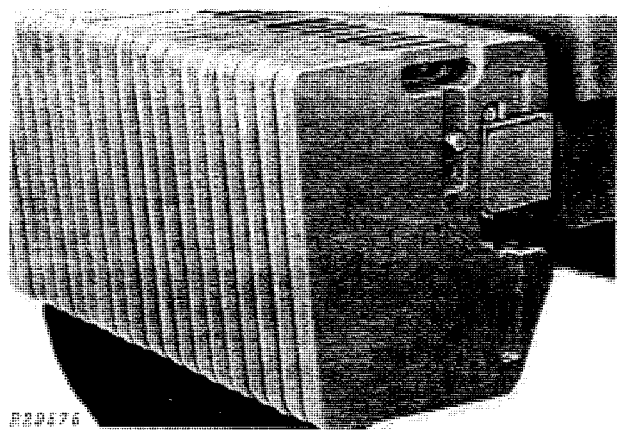
6. Turn metering valve (A) to fast position.
7. Check tractor hydraulic oil and add if necessary.
8. Set the tractor wheels for the desired row spacing so the tires straddle or are centered between the rows. See your tractor operator's manual.



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Continued on next page

6 *Preparing Tractor*



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9. Install sufficient front end or wheel ballast to stabilize tractor when operating on rough terrain. See your tractor operator's manual.
10. Attach Wheel Shields if desired.



Preparing Husker

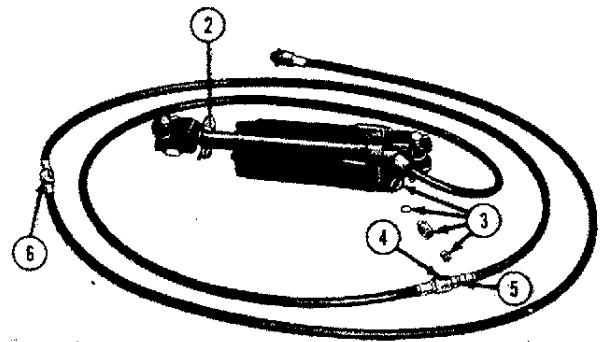
Converting Remote Hydraulic Cylinder

IMPORTANT: Double-acting 3 x 8-inch (76 x 203 mm) cylinder **MUST BE** converted to single-acting for satisfactory operation.



CAUTION: Working with hydraulic fluid under pressure can be dangerous. See page 4.

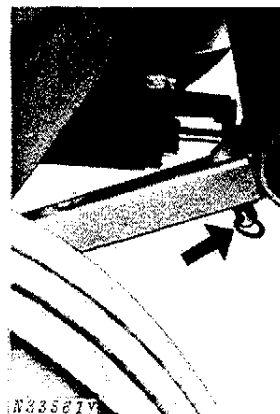
1. Bleed all air from the cylinder, if new, rebuilt, or not-recently used cylinder.
2. Completely retract the cylinder rod. Adjust the stop if necessary.
3. Remove left-hand cylinder hose and install breather, adapter and O-ring (furnished with husker).
4. Remove male Quik-Coupler from right-hand hose and store (for this application). Install connector and O-ring on the hose.
5. Connect the 70-inch (1 778 mm) hose, furnished with husker, to the right-hand hose with an O-ring.
6. Install connector and O-ring on the other end of new hose, and connect it to the previously removed remote cylinder hose.



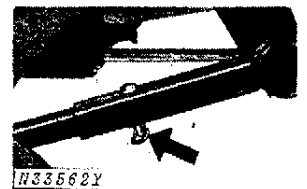
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Safety Support

Position safety support pin (bold arrow) in the field position.



Field



Transport

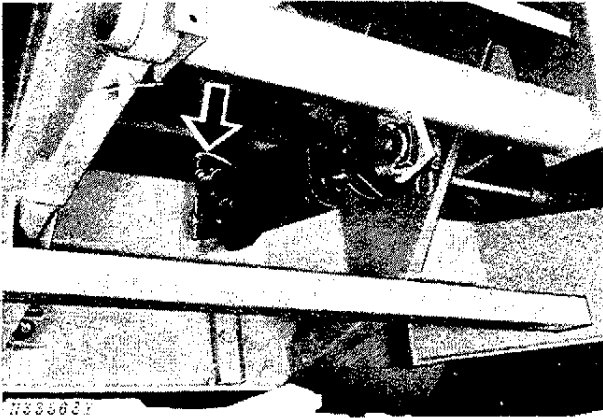
Check Tires and Wheels

Check air pressure frequently.

Torque wheel bolts to 130 lb-ft (176 N-m).

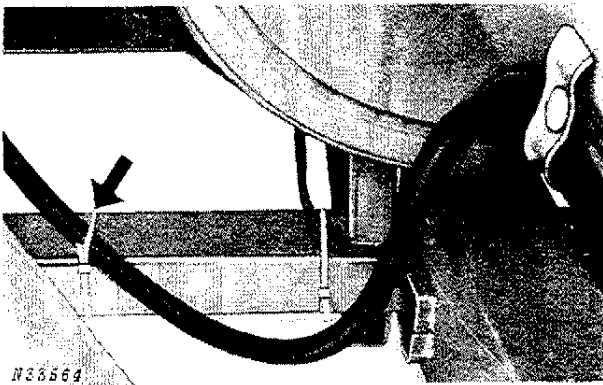
Tire Size	Inflation Pressure
11L x 14, 6 PR	32 psi (2.2 bar) (221 kPa)
12.5 x 16, 8 PR	36 psi (2.5 bar) (248 kPa)

8 Preparing Husker

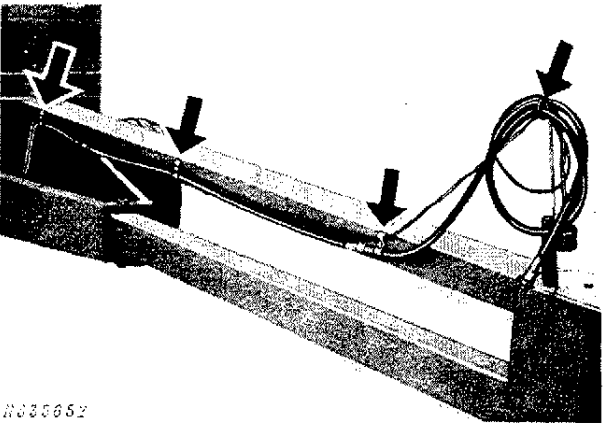


Installing Cylinder

Install cylinder as shown.

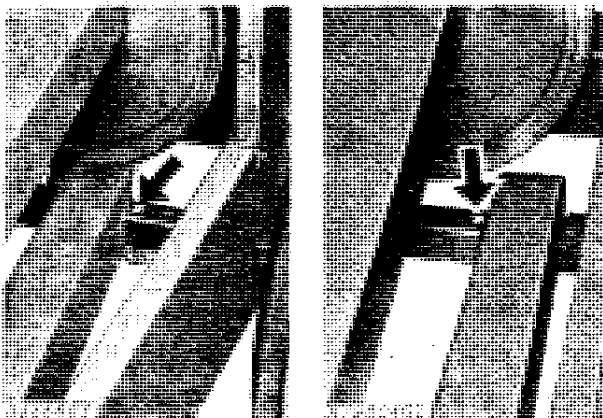


Strap the hydraulic hose to the frame as shown. Leave enough slack in hose and cable to allow for tongue movement.

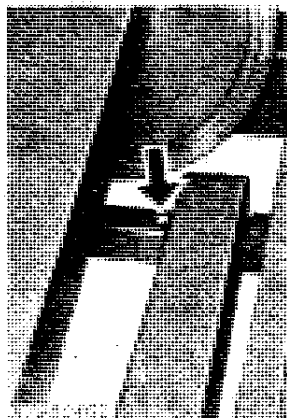


Loosen clamps on the powershaft shield and place the hydraulic hose in the lower loops of the clamps. Beginning at rear clamp, remove excess slack and tighten bolt on each clamp.

Insert the hydraulic hose through the support loop and hook the electrical control cable into the loop.



Field



Transport

Position Tongue

Move to field position.

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