

**1359**

**Operator Instruction Book**

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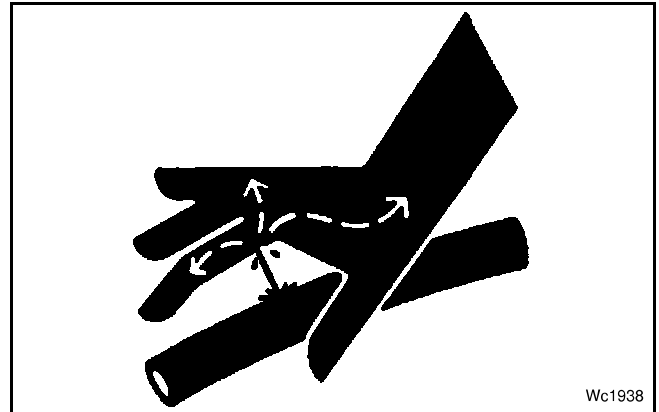


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**FIG. 15:** Escaping hydraulic fluid under high pressure can be almost invisible but can penetrate the skin causing serious injury.

Fluid injected into the skin must be surgically removed within a few hours. If not treated immediately, serious infection or reaction can develop. See a doctor familiar with this type of injury immediately.



**FIG. 15**

**FIG. 16:** Use a piece of cardboard or wood to search for possible leaks, never use your hands. Wear leather gloves for hand protection and safety goggles for eye protection.

Relieve all pressure before disconnecting any hydraulic lines. Make sure all connections are tight and hydraulic lines are not damaged before applying pressure.

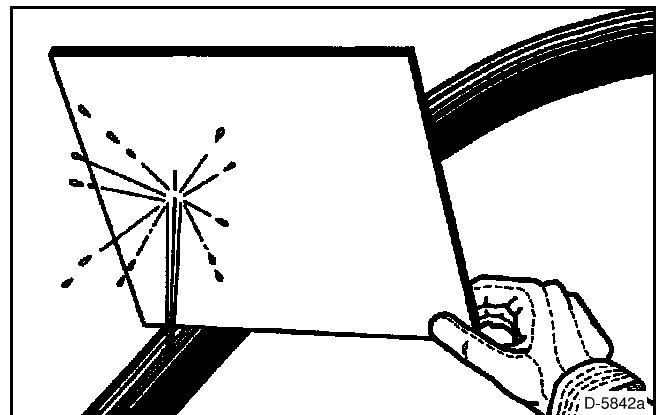
Make sure electrical connectors are free of dirt and grease before connecting.

Check for loose, broken, missing, or damaged parts. Have everything in good repair. Make sure all guards and shields are in place.

Check all nuts and bolts periodically for tightness.

Check the disc and knife bolts regularly for tightness, especially after striking foreign objects. See Cutterbar in the Specifications section for correct knife bolt torque.

After unplugging, lubricating, servicing, cleaning, or adjusting the machine make sure all tools and equipment have been removed.



**FIG. 16**

## OPERATION

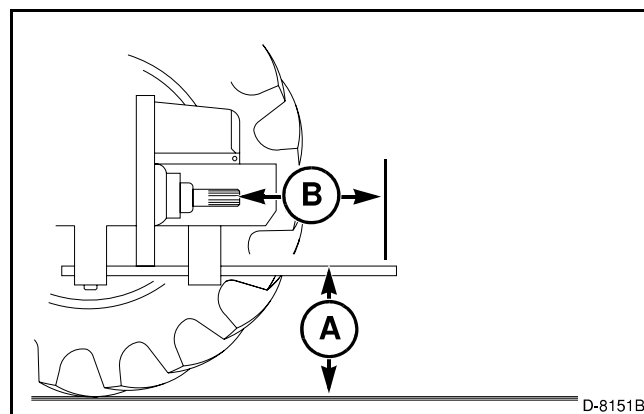
### CONNECTION TO THE TRACTOR

**FIG. 1:** Adjust the tractor drawbar height (A) to 360 to 510 mm (14 to 20 in) as measured from the ground to the top of the drawbar.

Adjust the tractor drawbar so the distance (B) from the center of the hitch pin hole to the end of the PTO shaft is 360 mm (14 in).

If necessary, the hitch clevis can be adjusted for tractor drawbar thickness and height. See Hitch in the Adjustments section.

**IMPORTANT:** Position the tractor three point arms so the three point arms do not contact the implement IDL (Implement Drive Line) or hitch. Lock the three point arms in position.



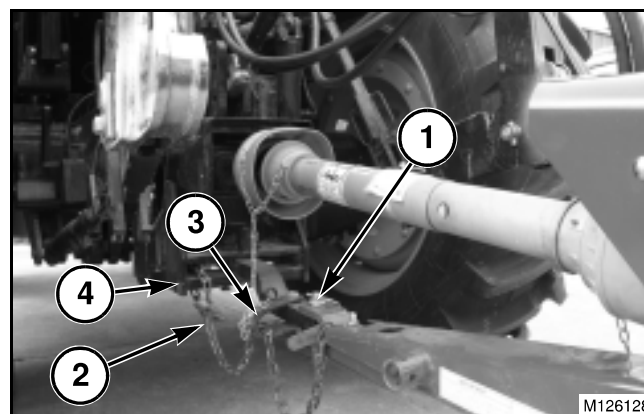
**FIG. 1**

**FIG. 2:** Connect the tractor to the implement with a 25 mm (1 inch) minimum diameter hitch pin (1). Put the hairpin into the hitch pin.

Make sure the transport chain (2) is correctly installed on the hitch. The chain is installed using a 3/4 x 2-3/4 bolt, a large flat washer, and a lock nut. See the Assembly section.

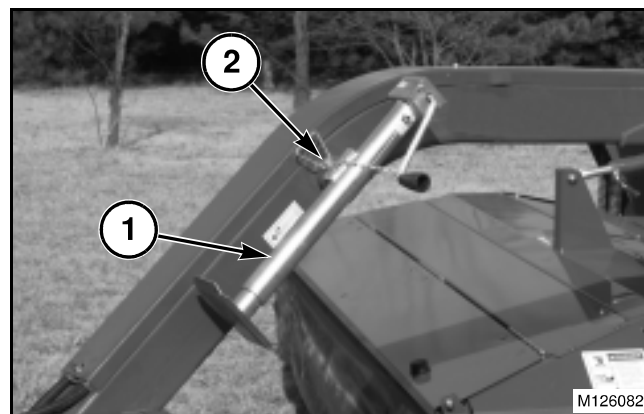
Install the transport chain clevis (3) onto the tractor drawbar using a 5/8 x 3-1/2 bolt and lock nut.

Thread the chain through the transport chain clevis and around the tractor drawbar support (4). Adjust the chain slack to permit the implement to turn. Lock the transport chain hook onto the transport chain.



**FIG. 2**

**FIG. 3:** Operate the jack crank to take the weight off the jack (1). Pull the jack retaining pin (2) and remove the jack from the hitch. Put the jack into the storage position. Wrap the pin chain around the crank to hold the crank in position.



**FIG. 3**

## CONDITIONER ROLL TIMING

Check the conditioner roll timing periodically. Adjustment is normally not necessary.

For proper crop conditioning, the conditioning rolls must be correctly timed so the spiral lugs on the upper and lower conditioning rolls are centered between each other.

**FIG. 10:** To adjust the timing of the hay conditioner rolls:

Loosen the drive flange bolts (1) on the upper conditioner roll.

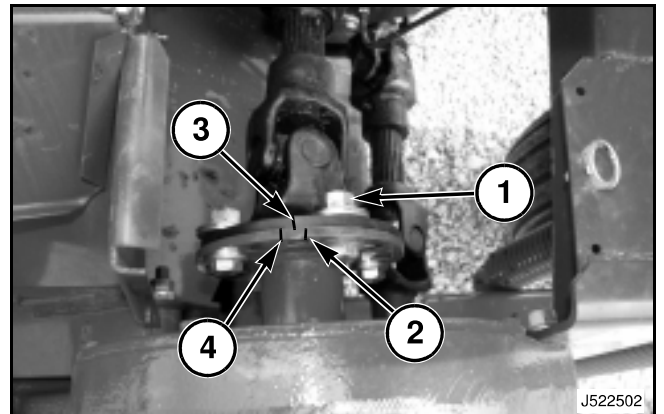
Rotate the top hay conditioner roll counterclockwise until contact is felt. Make a mark on the gearbox flange (2) and the drive shaft flange (3).

Rotate the top hay conditioner roll clockwise until contact is felt. Make another mark (4) on the gearbox flange that aligns with the existing mark on the drive shaft flange.

Rotate the top hay conditioner roll until the mark on the drive shaft flange is centered between the marks on the gearbox flange.

Tighten the drive flange bolts to 108 Nm (80 lbf ft).

*NOTE: If the drive flange bolts are at the end of the slots, move the drive flange bolts to another set of holes.*



**FIG. 10**

## CONDITIONER ROLL SPRING TENSION

The spring loaded upper conditioner roll keeps pressure against the crop as the crop is moved over the fixed position lower conditioner roll. One set of springs on each side of the header provide the upper conditioner roll down pressure.

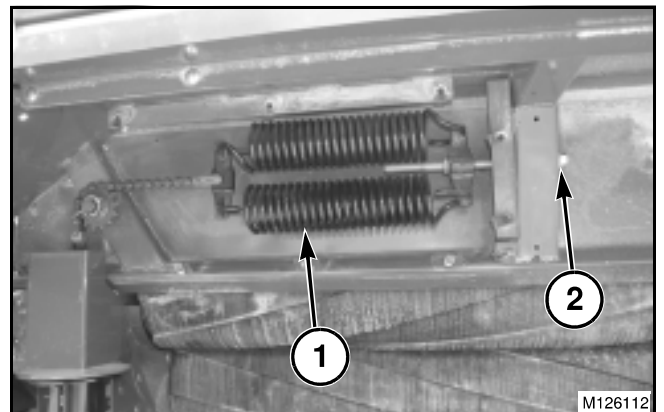
Check the conditioner roll spring tension. Adjustment is normally not necessary.

**FIG. 11:** To check for correct conditioner roll spring tension, lower the header to the ground. Measure the gap between the spring coils when the roll opening cylinders are completely retracted. The gap must be 6.4 mm (0.250 in).

To adjust the conditioner roll spring (1) tension, remove the spring cover. Loosen the jam nut and turn the adjusting bolt (2) until the correct gap in the spring coils is reached. Tighten the jam nut. Install the spring cover.

Adjust both of the conditioner roll springs.

*NOTE: The spring cover is removed for the illustration.*



**FIG. 11**

**FIG. 13:** The mower conditioner has two types of knives; one type for right-hand (clockwise) rotation (1) and one type for left-hand (counterclockwise) rotation (2). The knives are marked for the proper cutting direction. The knives will be marked with a R for the right-hand knife and a L for the left-hand knife. See the diagram of the cutterbar for the rotation sequence.

Install the new knife or the reversed knife. Install the knife bolts and nuts and tighten the bolts to 54 Nm (40 lbf ft).

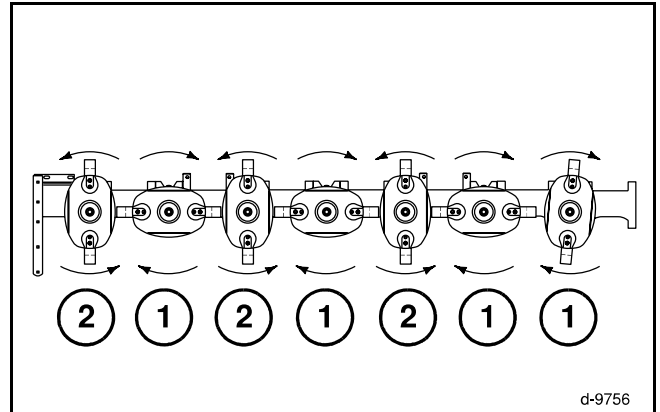
Make sure the knives swing freely.

### Knife Edge Reversing

Each knife has two cutting edges. When one edge becomes dull or damaged, reverse the knife. See Knife Removal and Installation in this section.

### Knife Replacement

Knife replacement is required when both cutting edges are dull or damaged. See Knife Removal and Installation in this section.



**FIG. 13**

**SPECIFICATIONS**

Specifications and design are subject to change without notice and without liability therefore.

**DIMENSIONS AND WEIGHTS**

Weight .....	1698 kg (3740 lb)
Cutting width .....	2770 mm (9 ft 3 in)
Transport width.....	3300 mm (11 ft)
Ground clearance to the bottom of the cutterbar.....	356 mm (14 in)
Height.....	1524 mm (60 in)

**CUTTERBAR**

Number of discs.....	7
Knives per disc.....	2
Disc speed at rated PTO speed.....	3000 rev/min
Cutterbar type .....	Modular component
Cutterbar drive .....	Hex shaft, 7 segments
Cutterbar angle .....	Adjustable: 0 degrees to 8 degrees down

**Bolt Torques**

Bolts that connect the cutterbar to the gearbox.....	271 Nm (200 lbf ft)
Bolts that connect disc drive units with spacers (with oil on threads) .....	250 Nm (185 lbf ft)
Disc lock nut.....	216 Nm (160 lbf ft)
Knife bolt .....	54 Nm (40 lbf ft)
Knife stop bolt .....	54 Nm (40 lbf ft)
Disc drive hub special cap screw .....	34 Nm (25 lbf ft)

**CONDITIONING ROLLS**

Conditioning roll width.....	2100 mm (7 ft)
Conditioning roll type .....	Intermeshing, spiral, machined, reinforced rubber
Conditioning roll diameter.....	241 mm (9.5 in)
Conditioning roll speed.....	735 rev/min
Conditioning roll separation.....	Hydraulically opened with header raised

**DRIVE**

Type of drive.....	Mechanical
Drive protection.....	Slip clutch and overrunning clutch.

**TIRES**

Tire size.....	9.5L x 14, 6 ply
Tire pressure.....	152 kPa (22 psi)
Lug bolt torque.....	115 Nm (85 lbf ft)

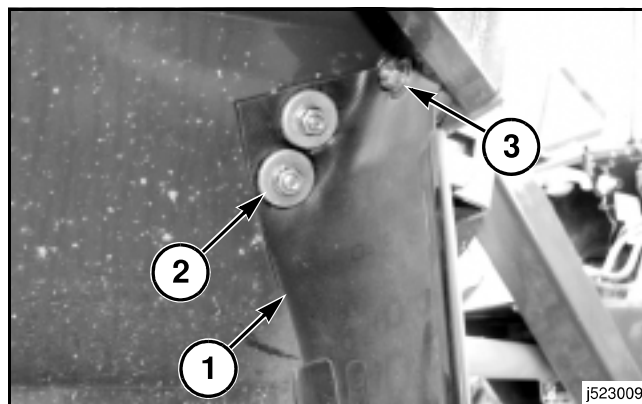
## Inner Curtain

**FIG. 16:** Remove the hardware to raise the deflector curtain stop.

Connect the inner curtain (1) (smooth side forward) to the back side of the mounting bracket and to the side panel using four flat washers, four 3/8 x 3/4 carriage bolts with flange nuts.

Install large flat washers (2) on the side bolts.

Install small flat washers (3) on the front bolts.

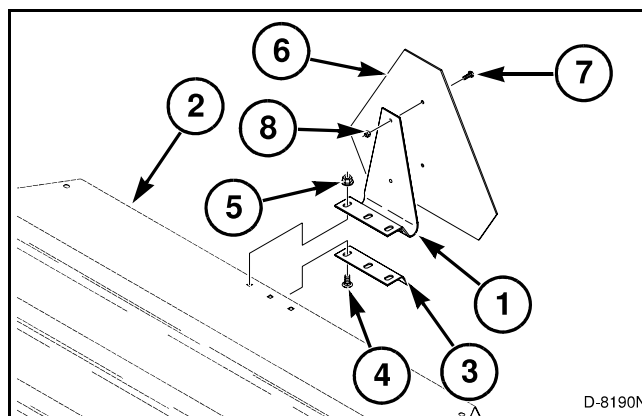


**FIG. 16**

## SMV Sign

**FIG. 17:** Connect the SMV sign bracket (1) to the rear of the hood (2) with a stiffener angle (3) under the hood. Use six 5/16-18 x 3/4 carriage bolts (4) and hex flange serrated lock nuts (5). The nuts must be outside the hood.

Connect the SMV sign (6) to the bracket using 1/4-20 x 3/4 bolts (7) and 1/4-20 hex top lock nuts (8).



**FIG. 17**

## Header Shipping Straps

**FIG. 18:** The machine is shipped with header shipping straps (1) which must be removed.

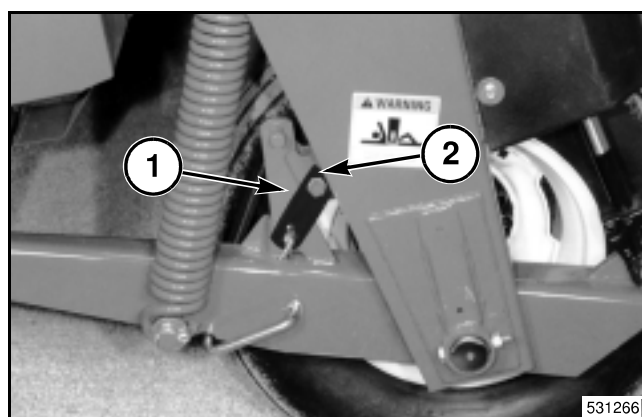


**CAUTION:** Use a floor jack with a minimum 1816 kg (4000 lb) lifting capacity to remove the header shipping straps.

Put a floor jack under the end of cutterbar. Raise the jack until the machine raises slightly, taking weight off the shipping strap bolts.

Remove and discard the bolt (2) and the shipping strap.

Lower the jack and repeat the procedure on the opposite side.



**FIG. 18**

## Lift Cylinder Lock Operation

See the Safety Section for information on lift cylinder lock operation.

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