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MANUAL PREVIEW

Minneapolis Moline

Operator's Manual

1200 Series

Shellmaster

Operator's Manual

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MM-O-1200 SM

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CORN HUSKORS



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TWO ROW MOUNTED



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SPECIFICATIONS

MANUAL PREVIEW

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Capacity per hour husked corn.....	800 to 1200 Bu.
Capacity per hour snapped corn.....	250 to 1000 Bu.
Cylinder speed.....	800 to 815 rpm
Cylinder cage length.....	41-3/8 in.
Cylinder shaft diameter.....	2-1/8 in.
Cylinder shaft bearings.....	2 ball, 1 roller
Countershaft bearings.....	2 roller
Eccentric shaft bearings.....	2 roller
Total separating area.....	12 sq. ft.
Total cleaning sieve area.....	12 sq. ft.
Length of cobstacker.....	15 ft.
Diameter of cleaning fan.....	21 in.
Diameter of blower fan.....	34-3/4 in.
Over-all width.....	6 ft. 3 in.
Over-all length.....	21 ft. 9 in.
Over-all height.....	10 ft. 2 in.
Weight complete.....	3387 lbs.
Recommended power to operate.....	30-40 hp.

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NOTE: Minneapolis-Moline reserves the right to change design, materials, and specifications without notice

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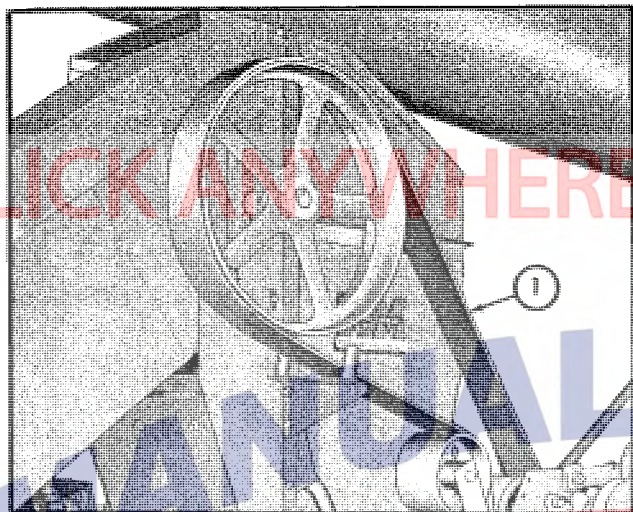


Fig. 3

1. Feeder drive belt.

FEEDER TROUGH RAISING JACK

Remove a nut from the hinge pin rod on the feeder raising jack. Remove the spacers, washers, and nuts from the hinge rod. Remove the "U" bolt from the crank, and remove the crank. Attach the wide end of the jack assembly to the sheller with the hinge rod assembly. Attach the narrow end of the jack assembly to the feeder trough with the crank as shown in Fig. 4. Make certain the locking bar is facing upward. Reinstall the cable and "U" bolt in the crank.

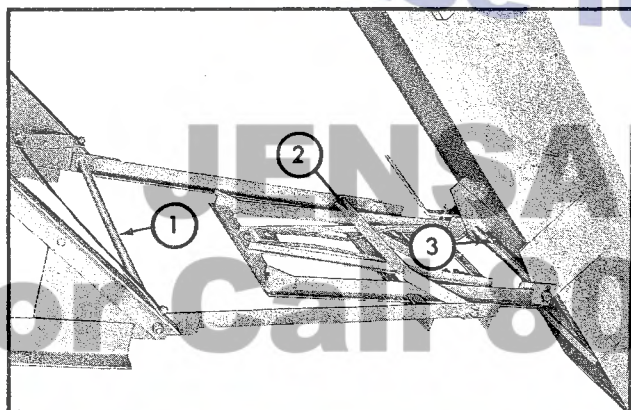


Fig. 4

1. Hinge rod assembly
2. Locking bar
3. "U" bolt

DRAG SWIVEL DRIVE ASSEMBLY

Secure the vertical angles to the feeder trough with the attaching bolts. Make certain the triangular plates are positioned as shown in Fig. 5.

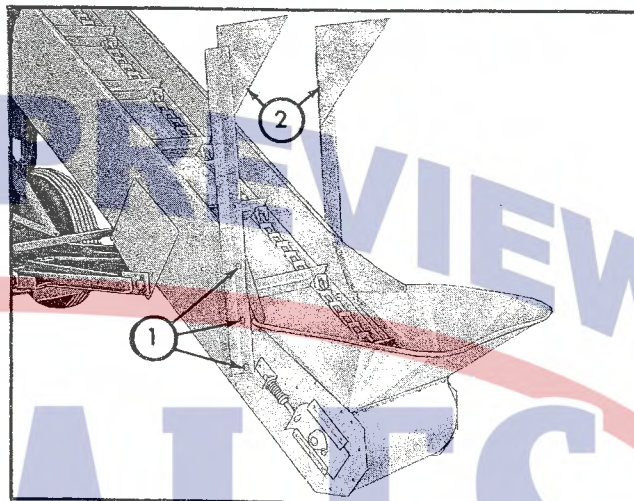


Fig. 5

1. Attaching bolts
2. Triangular plates

Secure the horizontal angles to the feeder trough with the attaching bolts. Install the chain tightener assembly and the clutch sprocket guard on the left-hand horizontal angle as shown in Fig. 6.

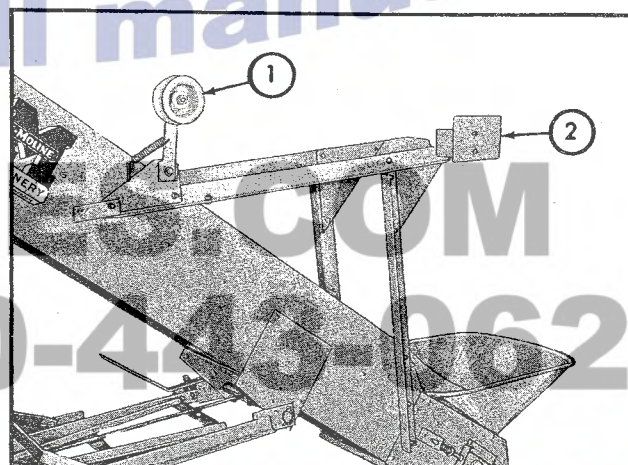


Fig. 6

1. Chain tightener assembly
2. Clutch sprocket guard

driven shellers, it will be necessary to remove the two support braces for the PTO assembly before installing the hitch.

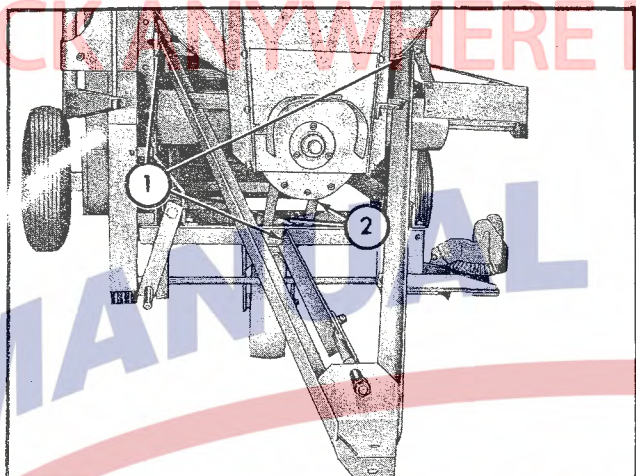


Fig. 21

1. Hitch mounting points
2. PTO support braces

COBSTACKER

Loosen the chain tightener adjusting nuts on the discharge end of the cobstacker. Push the roller assembly inward as far as possible. Install the conveyor chain, and take up the excessive chain slack by turning down the adjusting nuts. Fig. 22.

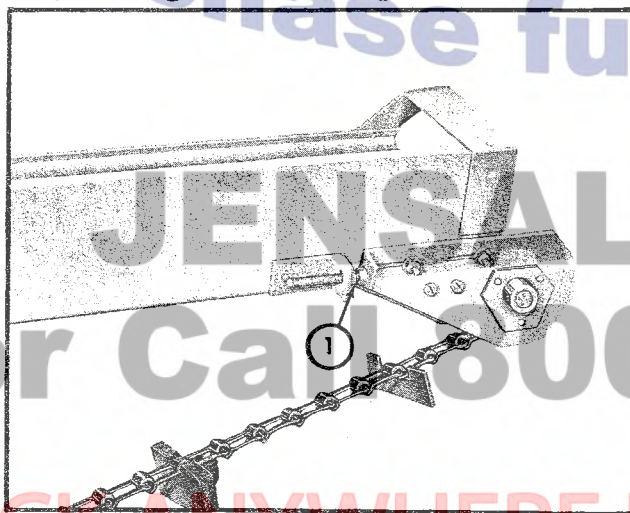


Fig. 22

1. Adjusting nuts

Slide the gear end of the cobstacker into the pivot yoke on the sheller. Hook "S" shaped end of the long support rod in the plate on the cobstacker. Raise the cobstacker upward until the other end of the rod can be inserted in one of the adjusting holes in the support angle on the blower housing. Install the adjusting sliding rod assembly to hold the cobstacker at the desired angle.

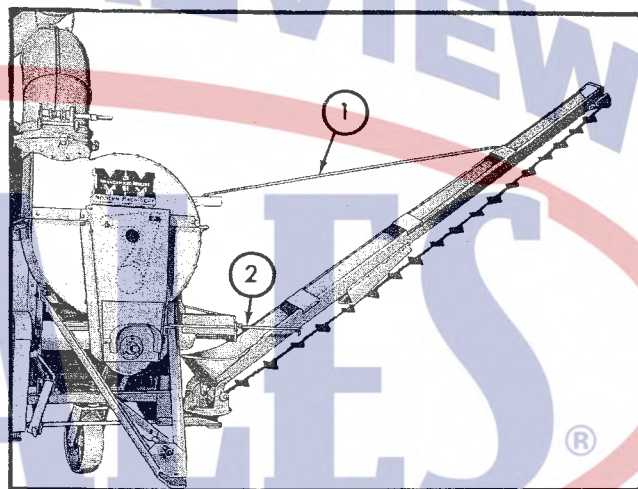


Fig. 23

1. Support rod
2. Sliding rod assembly

Check the bottom end of the cobstacker chain, and make certain there is no interference between the chain slats and the sheet metal. To eliminate any interference, bend the sheet metal up tight against the casting as shown in Fig. 24.

FAN DRIVE BELT

Loosen the setscrews in the inner and outer halves of either one of the split sheaves shown in Fig. 25. Now pull the square key, and unscrew the outer half of the sheave from the shaft. Install the drive belt with a twist as shown, and thread the outer half

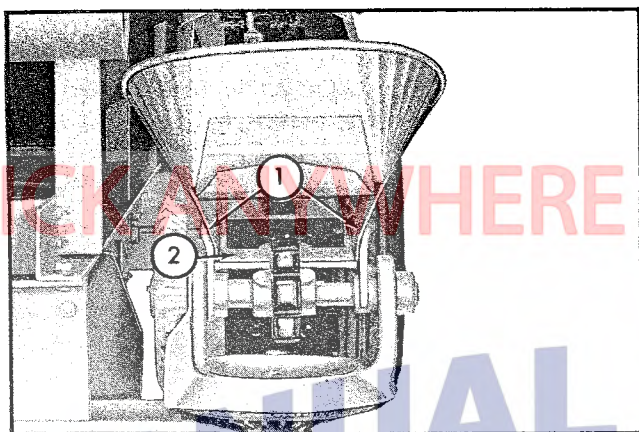


Fig. 24

1. Bend side out to meet casting
2. Bend bottom down to meet casting

of the sheave back onto the shaft until the belt has the desired tension. When threading the sheave half onto the shaft, turn the belt over by hand to prevent pinching the belt. Secure the sheave in position with the key, and securely tighten the setscrews.

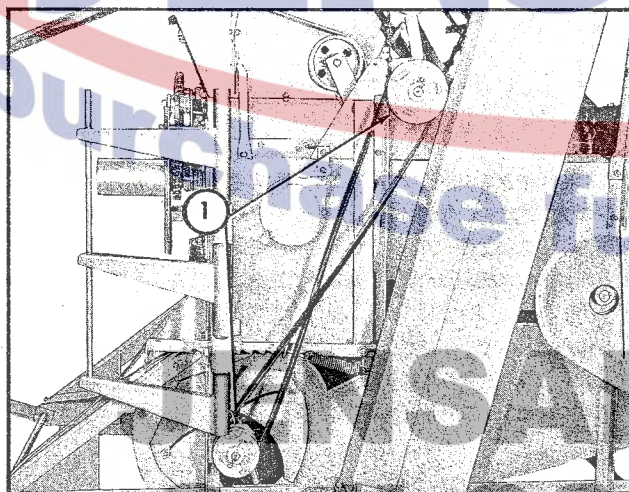


Fig. 25

1. Split sheaves

PTO SHAFT ASSEMBLY

Remove the PTO housing cover, and remove the outer support

plate. Install the drive sprocket on the cylinder shaft, align it with the other sprockets, and secure it with the key. Install the chain as shown in Fig. 26.

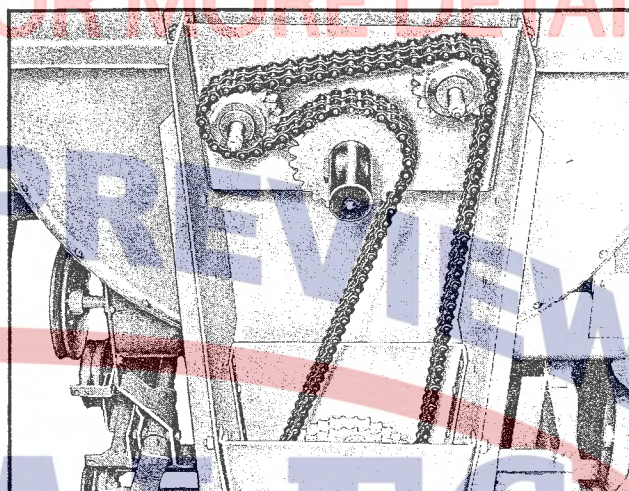


Fig. 26

Replace the outer support plate, and adjust the chain tightener sprocket. Bolt the housing cover to the side supports.

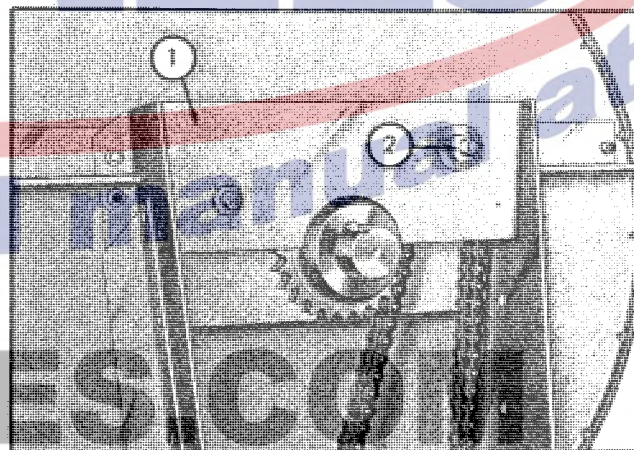


Fig. 27

1. Support plate
2. Tightener

Install the pto shaft and secure it with the woodruff key and lock bolt. Install the shaft guard as shown in Fig. 28.