



International Harvester

**Service Manual
990**

**Mower Conditioner
7 & 9 Foot**

Service Manual

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IH-S-990 MC

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AXLE SPINDLE REPLACEMENT

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GENERAL DESCRIPTION

7 and 9 Foot

This manual is prepared to cover both 7 and 9 ft. 990 Mower Conditioners and the principles are the same for both. They are designed to cut and condition a variety of crops and place the conditioned material either in a swath or window. They are available from the factory with 540 rpm drive only but can be converted to 1000 by reversing the gear box drive gears and changing the front drive knuckle. On the 9 ft. machine it is necessary to reposition the clevis. On the 7 ft. machine it is necessary to shorten the tongue two inches. The machines are factory adjusted for average conditions and will not require any adjustments unless unusual crops or crop conditions are encountered.

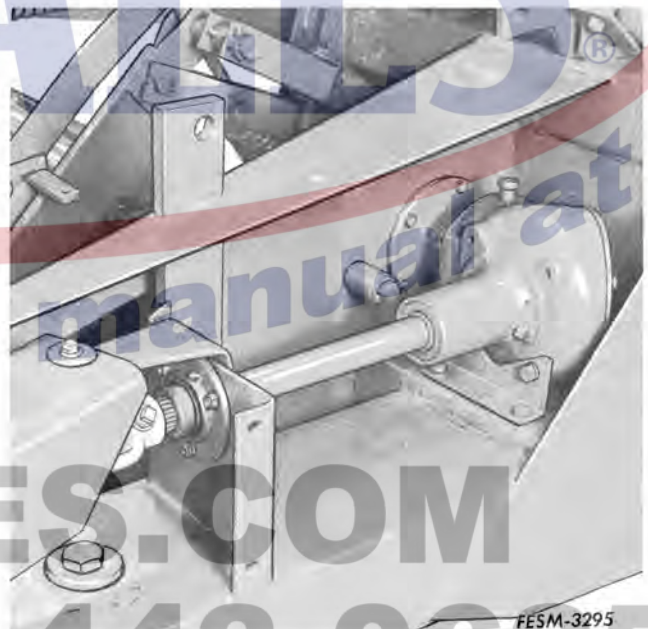
The machines are furnished with forged steel guards only. A smooth or serrated knife is available. Both the reel speed and attitude of the tines can be adjusted for unusual crop conditions. A four bat reel is regular equipment but holes are provided to change it to a 5 or 6 bat reel. The balanced head sickle drive is utilized and is different from those used in the 100 Mower, in that it has a 3-inch stroke rather than 2-5/8 inch. A knife drive speed of 822 cycles (1644 strokes) per minute is used.

Power Train - PTO

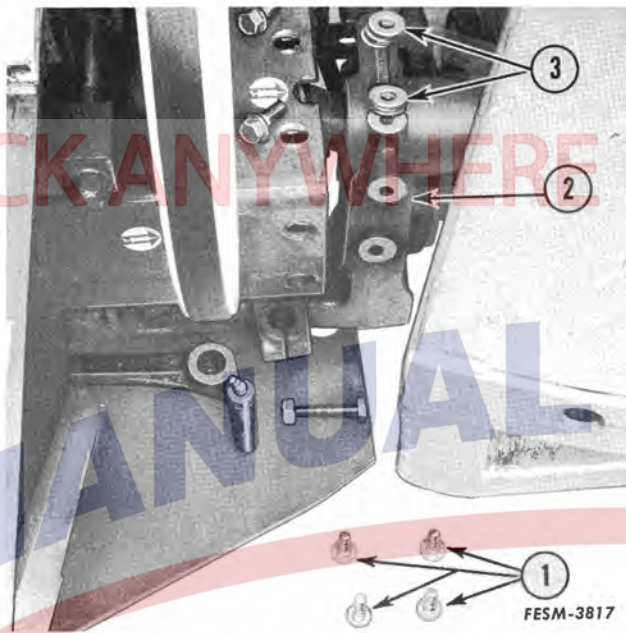
The PTO drive line is supported by a pedestal bearing which is adjustable up and down to position the drive as straight as possible with a variety of tractor drawbar heights.

Gear Box

The gear box is a right angle drive mounted into the main frame with a Poly-V belt drive pulley on the output shaft which drives the auxiliary drive.



9 ft. Illustrated

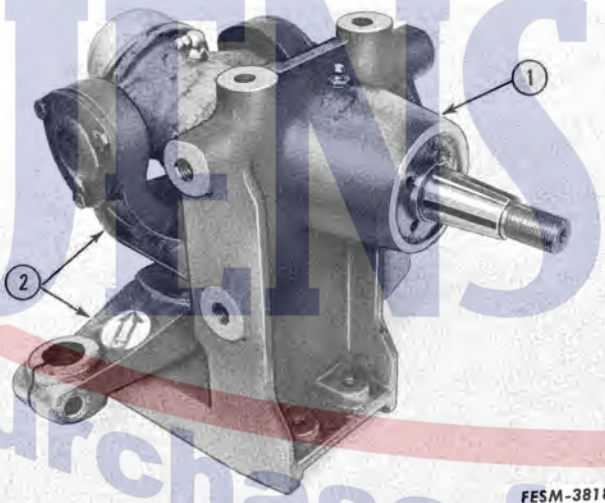


5. Lift the header high enough to make the underneath bolts accessible. Block the header up for safety.

6. Disconnect the knife.

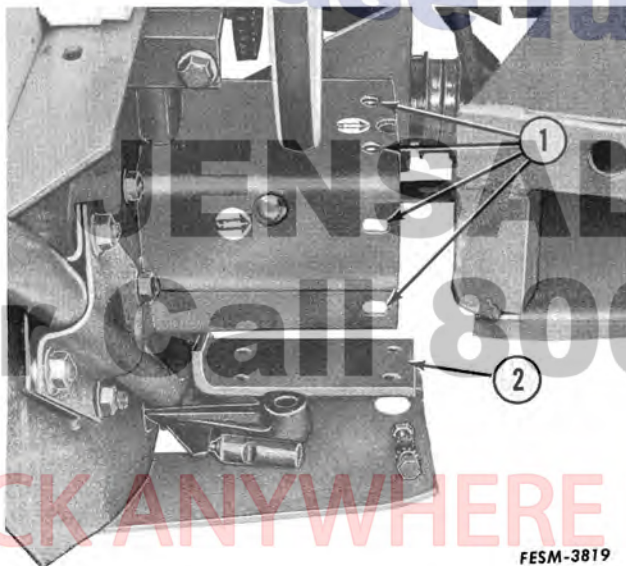
7. Remove all nine bolts securing the balanced head assembly to the upper and lower supports. Four are underneath in the lower support. Note the number of shims at each position and carefully set them aside for reassembly.

1. Bottom bolts
2. Balanced head housing
3. Shims



8. Pry out the balanced head assembly.

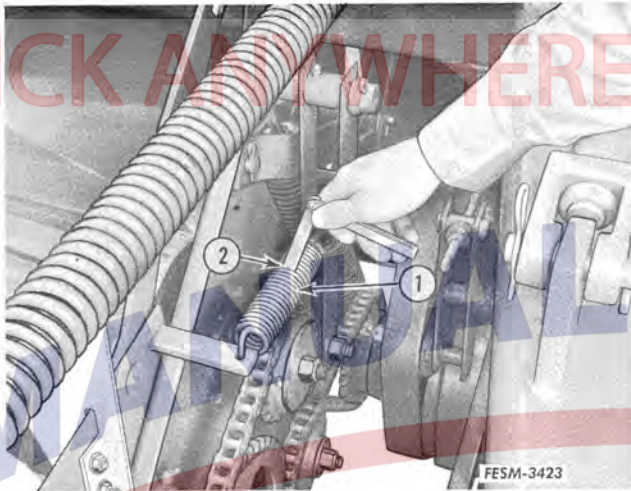
1. Housing
2. Balanced yoke



9. Disassemble and service as outlined in Service Manual GSS-1038-H.

1. Slotted holes for adjusting register
2. Lower support

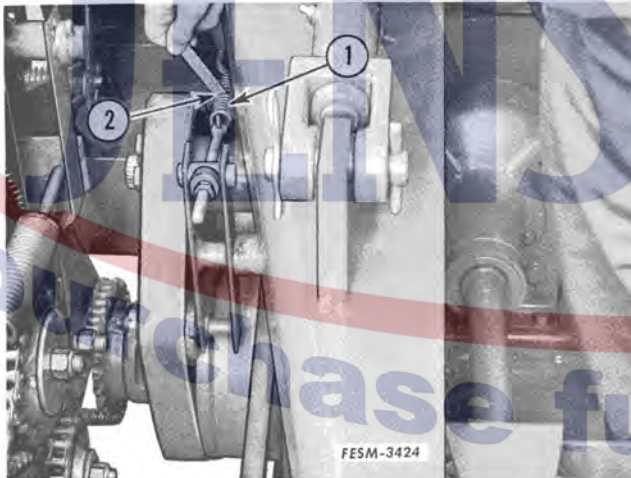
Roll Chain Drive



The roll chain drive spring should be checked at several places. Average gap should be .025".

1. Chain tightener spring
2. Average gap .025"

Poly-V Belt Idler



Check several places as shown. Average gap should be .020".

1. Poly-V belt tightener spring
2. Average spring coil gap .020"

Header Balance Springs



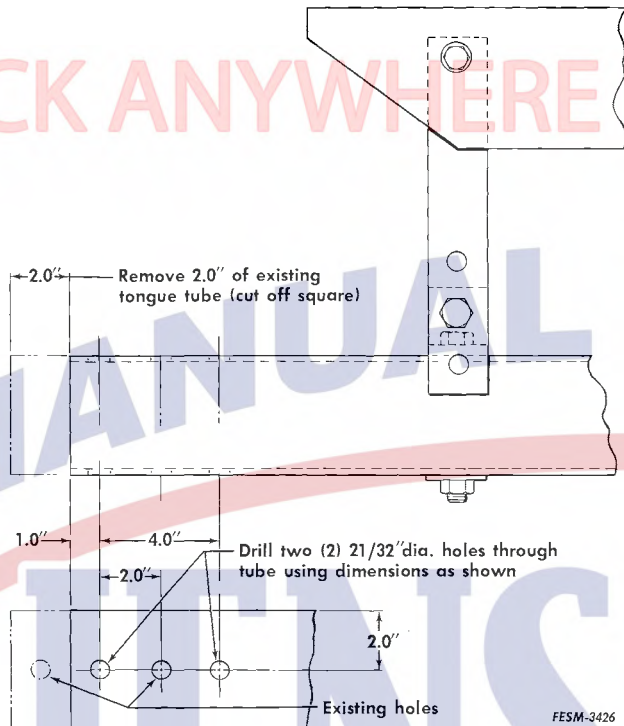
9ft. ... 7ft.

Left-hand spring should be 40-1/4" ... 48"

Right-hand spring should be 39-1/4" ... 47"

1. R.H. 40-1/4
L.H. (not shown, 39-1/4)
2. Knife storage

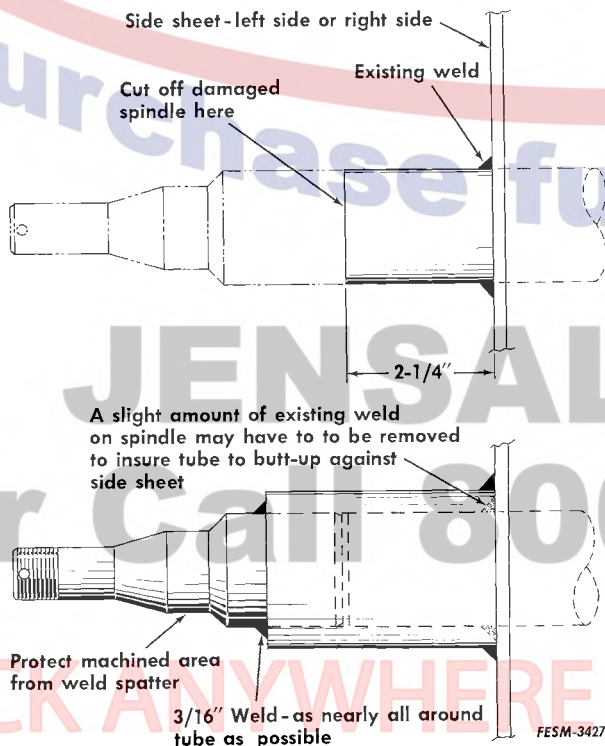
CONVERTING FROM 540 TO 1,000 RPM



7 Ft. Machines Only.

Converting from 540 to 1000 rpm - In addition to changing the PTO knuckle and reversing the gears, the simpler tongue clevis on the 7 ft. machines requires some re-working to convert for 1000 rpm operation. It is necessary to remove 2" of the front of the existing tongue as shown.

AXLE SPINDLE REPLACEMENT



The 7 ft. spindles are welded in the frame assembly. If a spindle is damaged, a replacement spindle may be secured through service parts, and welded in place as shown.