



Service Bulletin

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32" AND 36" MOWERS - NOISE REDUCTION

Improvements which have effectively reduced the noise level of our 32" and 36" mowers have been incorporated in production.

Similar improvements, adaptable to previously produced units, may be incorporated in the field. Improvements involve new cross shaft gears and longer blade spindles, together with thicker thrust washers. These changes provide improved gear tooth contact resulting in quieter operation.

The following service procedure should be performed whenever an abnormal noisy mower is encountered in the field.

DISASSEMBLY

1. Release tension from the mower drive belts.
2. Remove both gear covers and clean out grease from around gears.
3. Remove grease fittings from the top of both spindle shafts.
4. Remove both blades and blade cups.
5. Hold cross shaft and remove both cross shaft gear retaining nuts.
6. Remove snap rings from both spindles.
7. Holding the spur gears down, push the spindles up through spur gears and remove the woodruff keys.
8. For future reference, identify the position of the spur gear as to top or bottom. Push the spindles down and remove the spur gears, thrust washers and thrust bearings.
9. Remove the spindles and discard. Remove the spindle grease seals.
10. Remove the cross shaft gears and discard.
11. Check the cross shaft for being tight in the cross shaft bearings. If the shaft is a loose fit in the bearing races, it should be replaced.
- 11A Models with split cross shafts. When the cross shafts are found loose in the cross shaft bearings on split cross shaft models, a change over should be made to a solid (1 piece) cross shaft.

12. Check cross shaft bearings for being pressed into the bearing housings squarely. This may be determined by checking to see if the bearing is seated squarely against the shoulder of the housing. If a bearing is found to be cocked in its housing, the bearing and housing assembly should be replaced.

ASSEMBLY

1. Install new cross shaft gears, part #7898, making sure the woodruff keys are in place.
2. Insert new spindles, #7895, from the bottom of the deck. (These spindles are 1/8" longer than the original spindles)
3. Install a #7894 thrust washer on each side of the thrust bearing, #1534 or use 2-1535 thrust washers on each side of the #1534 bearing. Fit thrust washers and bearings over spindles and install the original spur gears inverted from their original position.
4. Push the spindles up sufficiently to allow the woodruff keys to be inserted and install the keys. Note: At this time the blade timing should be checked and set by positioning gears and spindles so that one blade will be at right angles to the other.
5. Install the spindle snap rings and grease fittings.
6. Install new spindle oil seals.
7. Install the blade cups and blades and again check for proper blade positioning.
8. Install cross shaft nuts. Hold the cross shaft and tighten the two cross shaft nuts.
9. Center the cross shaft so that both sets of gears have the same back lash. The cross shaft may be staked next to the bearing to insure its position.
10. Grease the spindle fittings and apply grease to the gear teeth and surrounding area. Pack the area generously using approximately 1/2 pound of American Oil Company "Super Permalube Grease" (or equivalent) for each gear set.
11. Install the gear covers.
12. Check for proper pulley alignment and adjust as required.
13. Adjust belt tension.
14. Check for proper operation.

NEW PARTS REQUIRED PER UNIT

2-7898	Gear
2-7895	Spindle
4-7894	Thrust Washer (or 8-1535 thrust washers, see paragraph #3, under assembly)

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