Ferris Industries, Inc.

Service Bulletin

F043

July 2001

TOPIC: **CLUTCH BELT ADJUSTMENT PROCEDURE**

MODELS AFFECTED: **IS4000Z/D31**
IS4000Z/KAV27

Ferris Industries has generated additional information on page 2, (not currently listed in the Operator's Manual), to help clarify the procedure for properly tensioning the clutch belt. This additional information may affect the results of any units that have been adjusted, so please recheck those machines.

Please forward this information to the customers who have purchased the IS4000Z Series mower.

After following steps 1 & 2 in the **Clutch Belt Replacement & Adjustment** section of the Operator's Manual, proceed with the following:

1. Replace the two (2) bolts (D, Figure 1) that mount the tension brackets to the pump plate. When installing new belts, tighten these bolts until a maximum measurement of 6-5/8" is obtained between the center of the clutch retainer bolt and the top edge of the gearbox input pulley. To measure, lay a straight edge on top of the gearbox input pulley (see Figure 2).
2. Measure the clutch drive belt deflection. With the clutch belt idler spring installed on the pump drive idler arm, a dimension of 6-1/4" - 6-1/2" should be measured from the outside edge of the idler pulley to the outside edge of the clutch drive belt (see Figure 3). You may need to readjust the belt tension bolts (D, Figure 1) until this measurement is achieved. Tighten the (4) nylon nuts (C, Figure 1).

Continue with step 4 in the **Clutch Belt Replacement & Adjustment** section of the Operator's Manual.

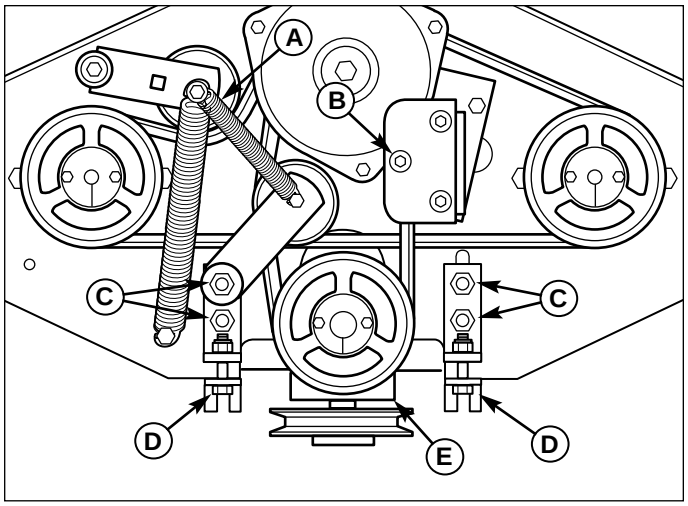

Figure 1. Clutch Belt Removal & Replacement

A. Clutch Belt Idler Spring
B. Clutch Anchor Hardware
C. Gearbox Mount Hardware
D. Belt Tension Hardware
E. Gearbox

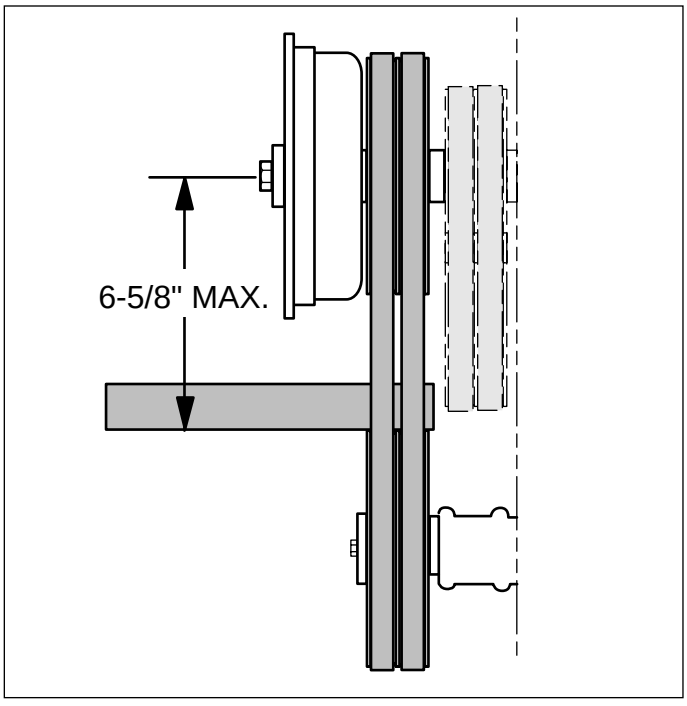

Figure 2. Clutch Belt Tension Initial Measurement

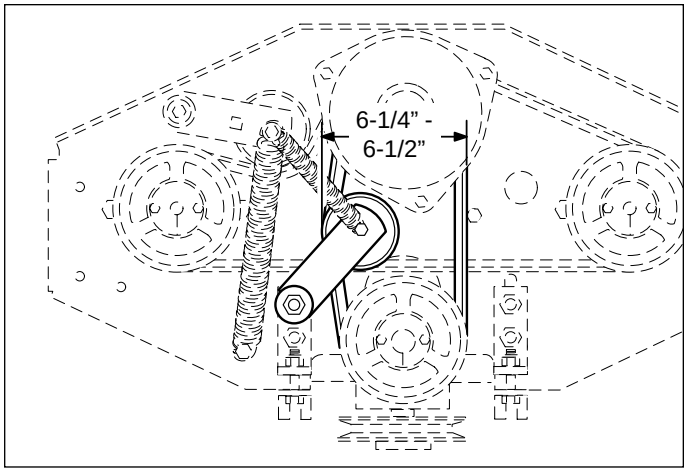

Figure 3. Clutch Belt Tension Measurement