



Service Kit

753-04873

Date: August 6, 2004

Subject: Upper Drive Belt Tension and Drive Pedal Cable Adjustment

Models Affected: YardBug Rear Engine Riders - Model Series 300

PURPOSE: There have been occasional reports of the upper drive belt dropping out of the variable speed pulley. This scenario may be due to normal belt wear, normal cable stretch and/or variation in belt length resulting in a reduction in tension on the variable speed drive pedal cable. This instruction sheet addresses proper variable speed drive pedal cable adjustment. In addition, a belt guide and installation instructions are supplied to minimize the opportunity of the upper drive belt moving outside the variable speed pulley as normal belt wear and cable stretch occur.

NOTE: *These materials are prepared for use by trained technicians who are experienced in the service and repair of equipment of the kind described in this publication, and are not intended for use by untrained or inexperienced individuals. Such individuals should seek the assistance of an authorized service technician or dealer.*

NOTE: *Save this Instruction Sheet. Refer to it when ordering replacement parts.*

Service Kit Contents

(See Figure 1)

ITEM NO.	PART NUMBER	QTY	DESCRIPTION
1	711-0828	1	STUD: GUARD: BELT
2	712-3004A	1	NUT: FLANGE LOCK: 5/16-18 GR5
3	769-01346	1	THIS INSTRUCTION SHEET

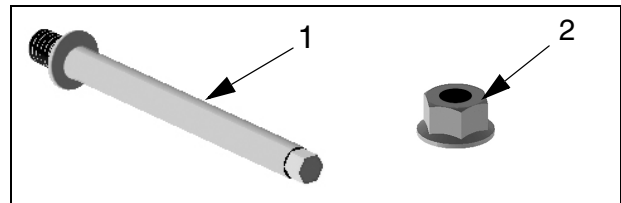


FIGURE 1

Pre-Service Preparation:

1. Set the Parking Brake and turn the ignition key to "OFF". Remove the ignition key. Allow the engine and muffler to cool before proceeding.
2. Move the deck height lever to the lowest position.
3. Pivot the hood assembly up and remove the grass bagger and discharge chute.
4. Remove the spark plug wire from the spark plug and ground wire to the engine block.

Belt Guard Installation:

5. Inspect the drive belts for damage or excessive wear. Replace as necessary.
6. From the rear of the rider locate the smaller empty hole (depending on model there may be two empty holes) located just to the left of the Variable Speed Pulley bolt. See Figure 2.
7. Install the Belt Guard Stud, Item 1, from the underside of the frame (See Figure 3) and secure using the Hex Flange Lock Nut, Item 2. Ensure the belts are routed to the inside of the Belt Guard Stud as shown in Figure 3.
8. Proceed to Page 2 for **Speed Control Pedal Adjustment**. The Speed Control Pedal Adjustment instructions are taken from *The "Must Have" Manual of Outdoor Power Equipment - Book 2 - Rear Engine Riders & Lawn Tractors*, MTD Publication No. 770-10579.

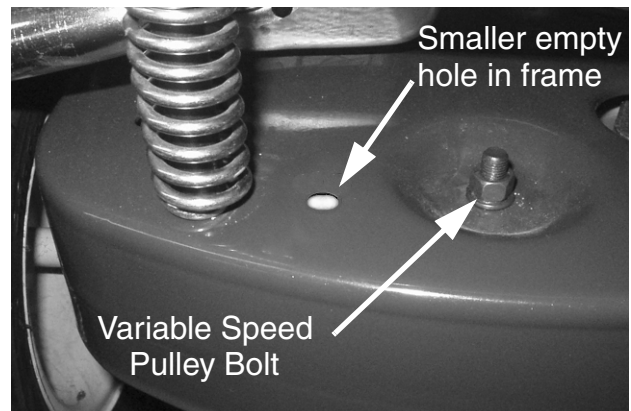


FIGURE 2

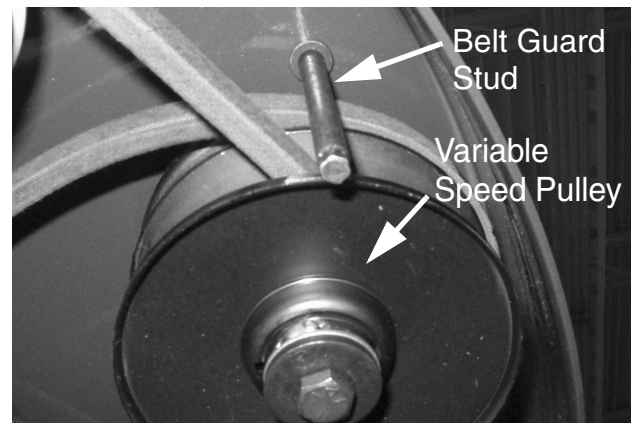


FIGURE 3

Speed Control Pedal Adjustment

INITIAL SPEED CONTROL PEDAL ADJUSTMENT WITH NEW BELTS:

NOTE: This section is performed with new belts **ONLY**.

- 9). Lock the parking brake and turn the ignition key "OFF".
- 10). Pivot the hood up and remove the spark plug wire from the spark plug.
- 11). Lower the hood.
- 12). From the right side of the rider, locate the variable drive cable under the front housing.
- 13). Follow the variable drive cable forward to the front channel assembly.
- 14). Locate and loosen the variable drive cable adjustment jam nuts using two 1/2" wrenches. See Figures 4 and 5.

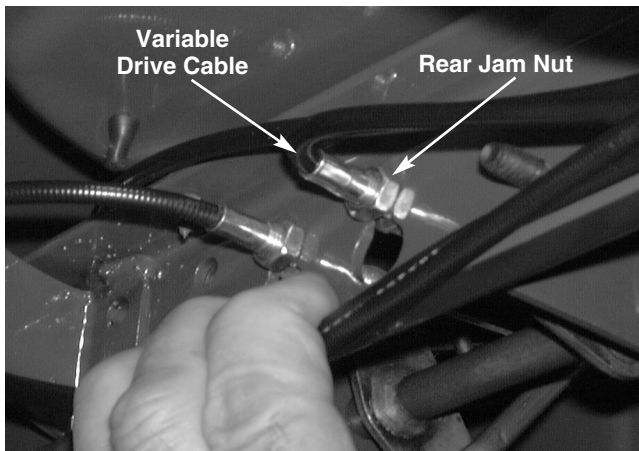


FIGURE 4.

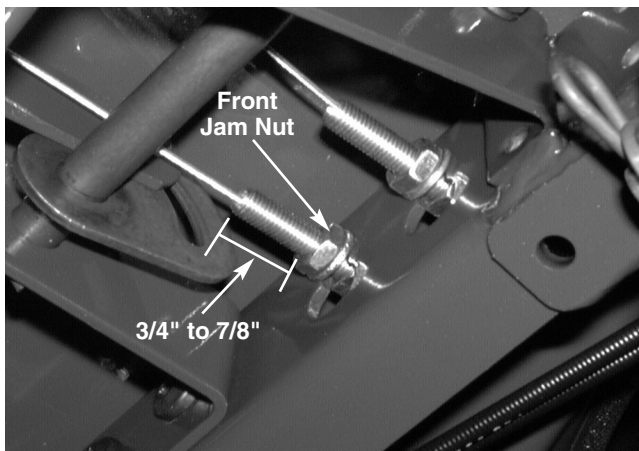


FIGURE 5.

- 15). By hand, loosen the rear jam nut (closest to the deck) until it bottoms out on the threaded cable end. See Figure 4.
- 16). By hand, tighten the front jam nut until the threaded cable end is exposed 3/4 to 7/8" past the front face of the front jam nut. See Figure 5.
- 17). By hand, tighten the rear jam nut (clockwise) until it is snug up against the rear of the front channel assembly. See Figure 4.
- 18). Tighten both jam nuts using two 1/2" wrenches.
- 19). Release the parking brake.
- 20). Apply 10 pounds of force to the variable pedal assembly with a fish scale. See Figure 6.



FIGURE 6.

- 21). From the back of the rider, locate the oval frame extrusion directly behind the engine.
- 22). Looking down through the oval extrusion, locate the head of the weld pin (belt keeper) on the idler bracket assembly.
- 23). With a partner applying 10 pounds of force to the variable pedal assembly, measure the distance between the edge of the weld pin head and the right inside edge of the oval extrusion. –The measurement will be between 1.60" and 1.65". See Figure 7.

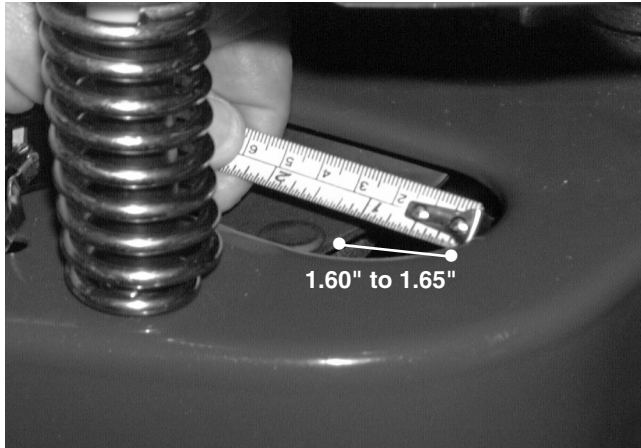


FIGURE 7.

IF ADDITIONAL SPEED CONTROL ADJUSTMENT IS NEEDED, PERFORM THE FOLLOWING STEPS:

IMPORTANT: DO NOT perform adjustment while the rider is running.

NOTE: Inspect both variable drive belts before performing this adjustment.

- 24). Place the rider on level ground and make certain the parking brake is **NOT** applied.
- 25). Raise the hood, remove one of the wiring harness female connectors from the seat switch, and lower the hood. See Figure 8.

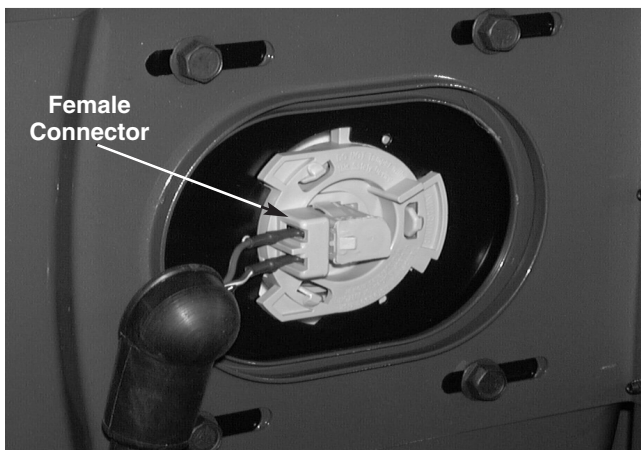


FIGURE 8.

- 26). Raise the rear wheels of the rider off the ground.
- 27). From the right side of the rider, locate the variable drive cable under the front housing.
- 28). Follow the variable drive cable forward to the front channel assembly.
- 29). Locate and loosen the variable drive cable adjustment jam nuts using two 1/2" wrenches. Refer to Figures 4 and 5.

- 30). By hand, loosen the front jam nut several full turns. See Figure 9.

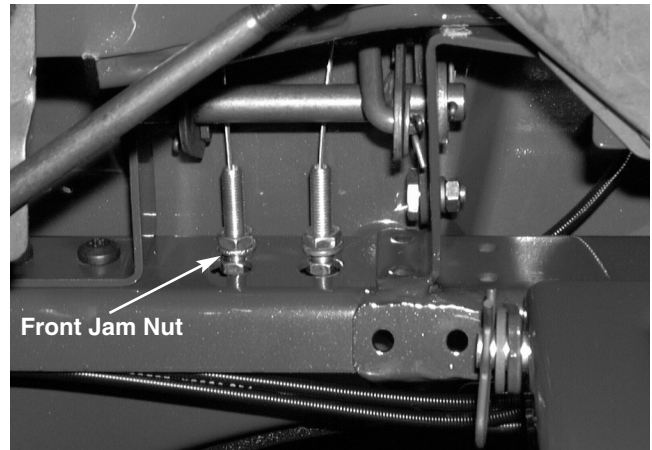


FIGURE 9.

- 31). Mark a line at any point on the back face of the rear jam nut. See Figure 10.



FIGURE 10.

- 32). Grasp the variable drive cable with your left hand from the rear of the front channel assembly and gently pull rearward.
- 33). Looking at the line that was marked on the rear jam nut, tighten the rear jam nut 1 complete rotation (clockwise) using a 1/2" wrench.
- 34). **"START"** the rider.
- 35). Place the shift lever in the forward position.
- 36). Make certain the variable drive pedal is fully released.

- 37). Look at the rear tire assemblies and check for motion.

NOTE: If any motion is present, shut "OFF" the rider and proceed to Step 38.

NOTE: If there is NO motion, shut "OFF" the rider and repeat Steps 32 through 3.

- 38). Looking at the line that was marked on the rear jam nut, loosen the rear jam nut 2 complete rotations using a 1/2" wrench. See Figure 11.

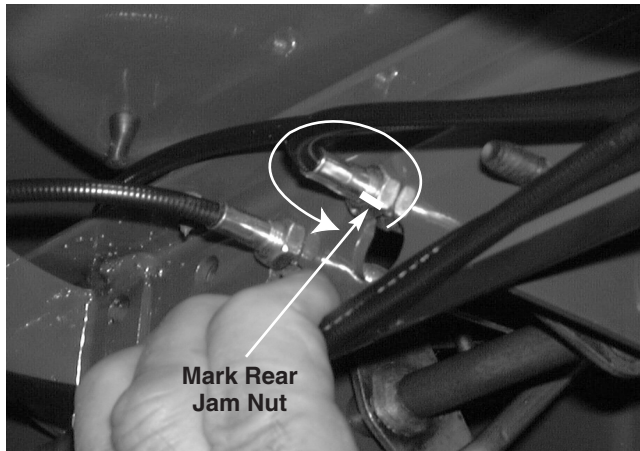


FIGURE 11.

- 39). By hand, tighten the front jam nut to the front of the front channel assembly. See Figure 12.

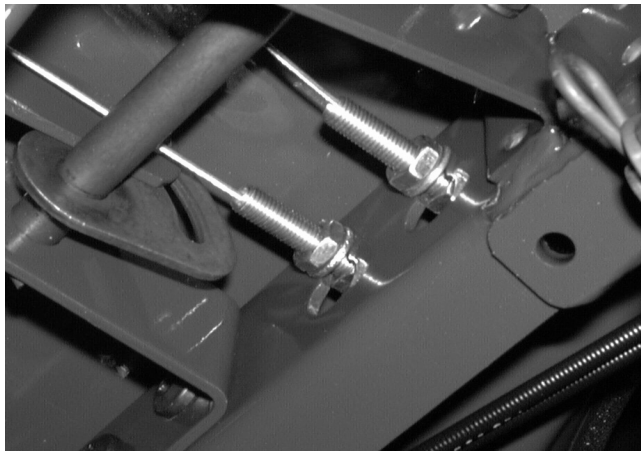


FIGURE 12.

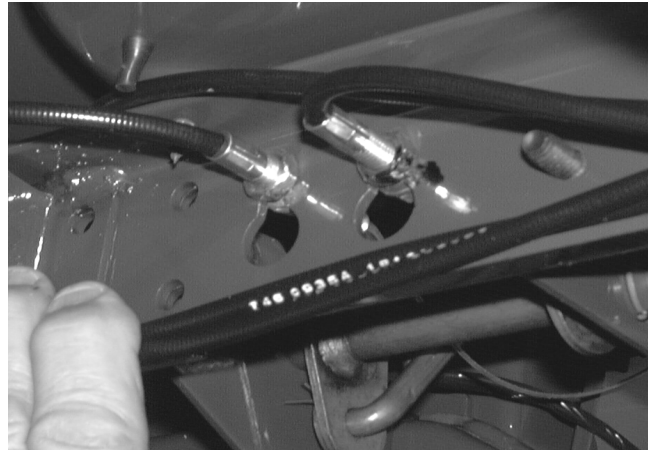


FIGURE 13.

- 40). Tighten both jam nuts using two 1/2" wrenches.
- 41). "START" the rider.
- 42). Depress and release the variable pedal assembly several times.
- 43). Fully release the variable pedal assembly and make certain the rear wheels are not trying to rotate.
- NOTE:** If the rear wheels try to move at all, shut the rider "OFF" and back the rear jam nut off 1 full rotation.
- 44). **IMPORTANT:** Raise the hood, connect the wiring harness female connector (removed earlier) to the seat switch, and lower the hood.

TEST RUN AND ADJUST IF NECESSARY.