



Idler Spring Can Be Over-Extended

Product: ProCore Processor

November 4, 2009

Affected Units:

Models:

Serial Numbers:

ProCore Processor

09749

280000101-290099999

Situation:

The [Arm-Idler, ASM \(110-2717\)](#) has a feature to allow the use of ½" drive socket wrench or breaker bar to aid installation and adjustment of the primary drive belt. The geometry of this adjustment in the listed units can allow the Spring- Extension (54-2730) to be pulled past its design yield point. This can cause damage to the spring that will result in insufficient tension applied to the idler assembly and eventual belt failure.

Instructions:

Refer to the attached revised Operators Manual pages for instruction to avoid spring damage.

Please contact your local Toro Commercial Products Distributor for additional information on this issue; reference Commercial Service Bulletin Specialty 09-12 when making your inquiry.

Cooling System Maintenance

Cleaning the Engine Screen and the Oil Cooler

Service Interval: Before each use or daily

Before each use, check and clean the engine screen and oil cooler. Remove any build up of grass, dirt or other debris from the oil cooler screen and engine screen (Figure 53).

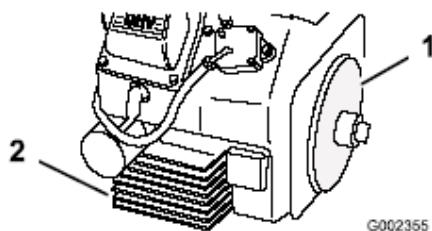


Figure 53

1. Engine screen
2. Oil cooler

Cleaning the Engine

Service Interval: Every 100 hours

Using low pressure compressed air (20 psi or less), clean around the carburetor, the governor levers and the linkage. This will make sure adequate cooling to the engine and will reduce the possibility of overheating and mechanical damage.

Belt Maintenance

Adjusting the Belts

Service Interval: After the first 8 hours

Every 50 hours

Check the belts for cracks, frayed edges, burn marks or any other damage. Replace damaged belts. Check the condition and tension of the belts as required:

Engine Clutch to Jack shaft Belt

To check the belt proceed as follows:

1. Remove the belt cover (Figure 54).

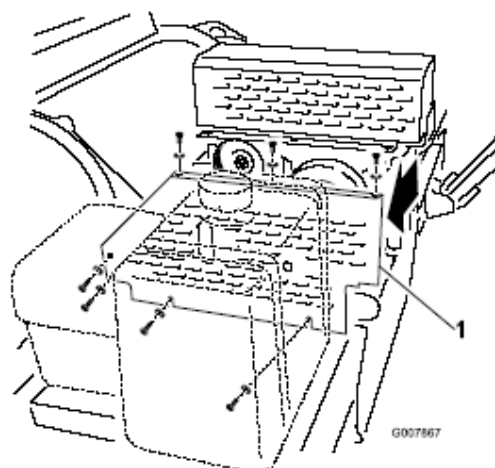


Figure 54

1. Engine clutch to jack shaft belt cover
2. Check the condition of the belt (Figure 55).

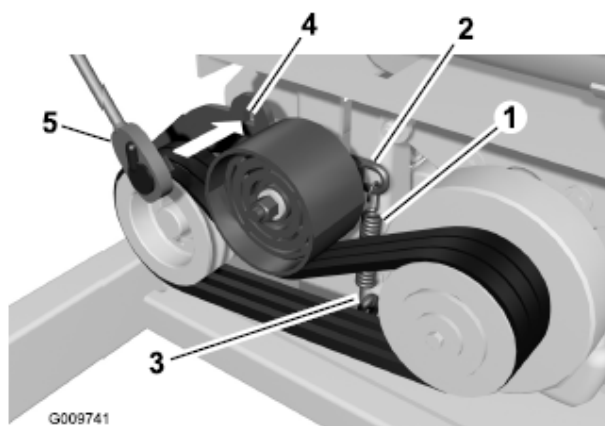


Figure 55

1. Extension spring
2. Belt
3. Eye bolt
4. Square hole
5. Socket wrench
6. Idler pulley

3. To release the belt tension, proceed as follows:

- A. Loosen the lower nut on the eye bolt and thread it to the end of the bolt (Figure 56).

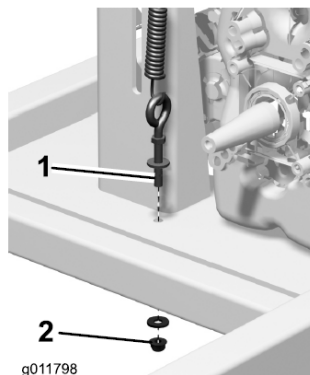


Figure 56

1. Eye bolt 2. Lower nut

- B. Insert a socket wrench into the square hole in the idler arm and rotate the wrench upward (Figure 55).

Important: Do not rotate the wrench upward too far because damage to the idler arm extension spring may occur. If the spring stretches to more than 3.75 inches, replace the spring. Measure the spring from inside loop to inside loop as shown in Figure 57.

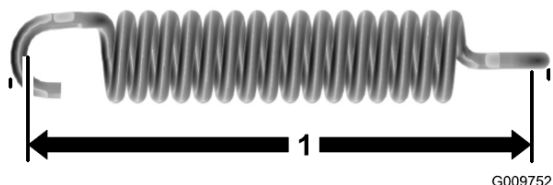


Figure 57

1. 3.75 inches

4. To increase the spring tension thus increasing the belt tension, shorten the eye bolt height by loosening the top eye bolt nut and tightening the lower nut (Figure 55 & Figure 58).

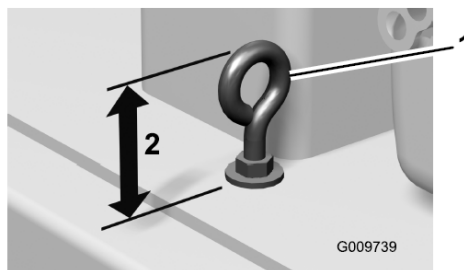


Figure 58

1. Eye bolt 2. Eye bolt height

5. Install the belt cover.

Jack shaft to Chopper Belt

To check the belt tension proceed as follows:

1. Remove the belt cover (Figure 59).

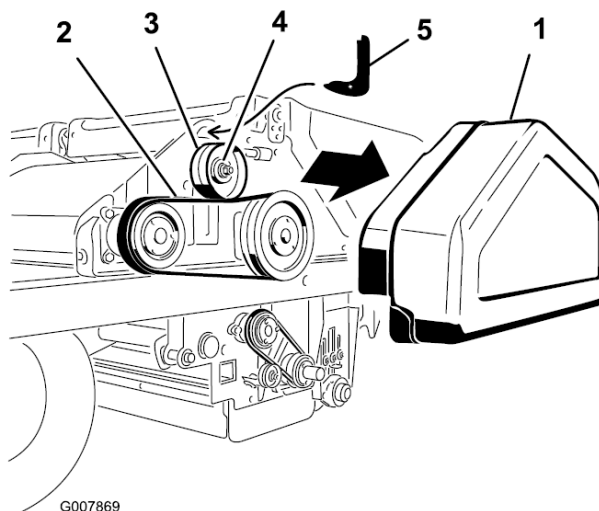


Figure 59

1. Jack shaft to chopper belt cover 4. Nut
2. Jack shaft to chopper belt 5. Belt tensioning tool
3. Idler pulley

2. Loosen the nut on the idler pulley (Figure 59).
3. Insert the hook end of belt tensioning tool into the hole above the idle pulley (Figure 59). Rest the curved bottom of the tool on the idler pulley.
4. Insert the drive of a 1/2 inch torque wrench into the hole in the belt tensioning tool (Figure 59).
5. Rotate the tool toward you until the torque of 50 inch-pounds is achieved, then, while holding the torque, tighten the idler pulley nut (Figure 59).
6. Remove the torque wrench and tensioning tool.
7. Install the belt cover.