



Service
Bulletin

B0402001

2004-01

Products: LTH2042 (featuring Kohler Courage engines)

Subject: Speed Instability / Governor Hunting During Warm-Up

There is a possibility of speed instability or governor hunting during warm-up on the above listed units featuring the Kohler Courage engine (SV470-600). Only units shipped prior to 1-1-2004 should be affected. The problem is caused by incorrect idle speed settings and is easily rectified by adjusting those settings.

If you encounter a tractor where the idle speed fluctuates during warm-up, use the following procedure to adjust the speed settings.

Note: Some instructions refer to the Kohler Courage Service Manual (TP2548). If you are not a Kohler dealer, you can still access this manual by visiting www.kohlerengines.com, and clicking on SERVICE MANUALS on the navigation bar at the top. When the page opens, scroll down to the Courage Series, click on the link and the manual will open.

1. Start the engine and allow it to warm up. Move the throttle control to the "fast" position and check the high-speed setting. For most engines it is **3300 RPM**. If it is incorrect, refer to page 5.11 in the Kohler Courage service manual and correct the adjustment.
2. Move the throttle control to the idle position. Refer to Figure 1 and back out the governed idle adjusting screw (turn it counterclockwise) until it is no longer in contact with the throttle control lever.

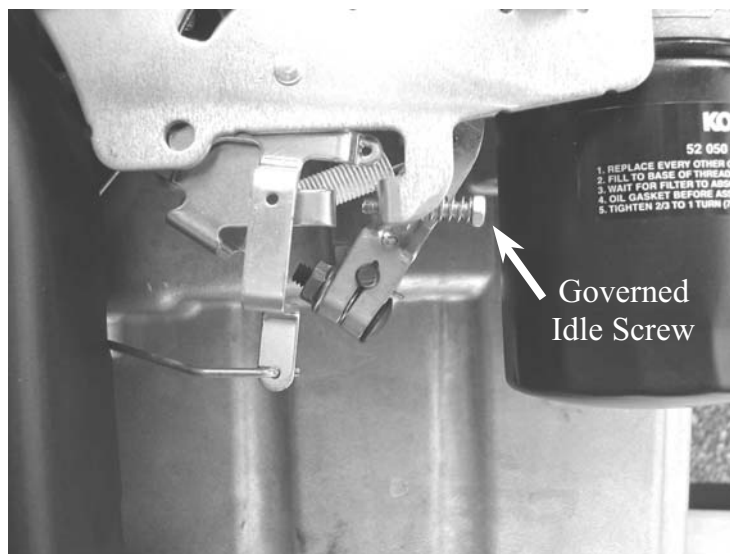


Figure 1



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- Using a tachometer and referring to Figure 2, slowly turn the idle speed adjusting screw counterclockwise until the idle speed drops to **1000-1100 RPM**.

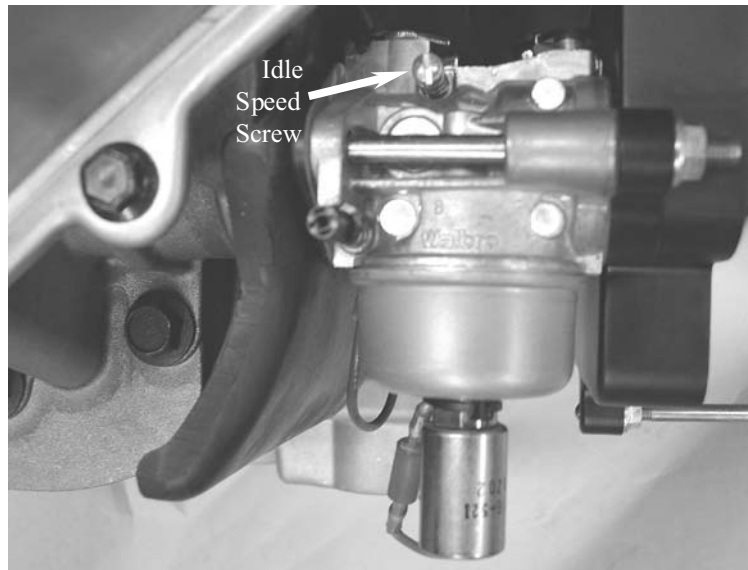


Figure 2

- Return to the governed idle adjusting screw and turn it slowly back in (clockwise) until the idle speed reaches **1200-1250 RPM**.
- Finally, turn the idle speed adjusting screw slowly back in (clockwise) until the idle speed reaches **1750 RPM**.

The above procedure eliminated speed instability or hunting in testing at the Kohler factory. If you encounter a unit where it does not, refer to the Kohler Courage service manual and check the initial adjustment (page 5.14) and the sensitivity adjustment (page 5.15).