
FV3100 Engine Speed Variation

A problem may be encountered with surging or speed variation on the FV3100-1115 due to the governor spring. The new model variations will specify use of governor spring number 90833 instead of standard spring no. 90635.

The spring 90833 should be installed on this engine (FV3100-1115) whenever a surging is experienced, thus removing the possibility that this could be caused by governor spring.

Fig. 2 illustrates 90833 governor spring installed. It should be installed in the hole in the throttle lever closest to the throttle shaft. The 90635 spring was installed in a special location (on FV3100-1115) which is not to be used for the 90833 spring.

After installation, check to be certain that the spring does not drag across the throttle lever when in any position other than idle as a contact across the throttle lever can cause this surging. The arrow in Fig. 2 points to the place where drag is to be avoided.

When changing spring, check link and throttle lever to be certain of free movement of these parts. The same surging problem can occur as a result of damage in shipment of engines, units, or due to previous improper service or adjustment.

Surging can also be caused by carburetor adjustment. The idle and power (main) adjustment should be checked for proper setting as necessary.

IN SUMMARY: After properly installing the 90833 governor spring check:

- A. For drag of spring end on throttle lever plate.
- B. For free movement of governor link and throttle lever.
- C. For proper carburetor adjustment.

NOTE: Fig. 1 illustrates the 90635 spring and also the 90833 spring.

