

ECV860 Governor Response Improvement

There have been isolated reports of low power on the ECV860-3019 engine. It has been determined that the governor droop (reaction to load) is too slow on some of these engines.

Replacing the original (see Figure 1) black governor spring (19 089 08) with an orange governor spring 19 089 05-S and replacing the original governor linkage lever (19 090 01) with a new design (see Figure 2) governor linkage lever 19 090 05-S that moves the governor spring hole location, should correct this situation.

NOTE: This fix has been tested and approved for spec ECV860-3019. If you encounter this condition with a different ECV860 engine, it must be tested and approved by Kohler Engines to ensure that it corrects the condition.

Use the following procedure to replace these two components on an ECV860-3019 engine.

1. Remove the M6 screw (D) securing the governor linkage lever (B). Unhook the speed control linkage (C) and governor spring (A) from the governor linkage lever (B). Save the screw (D) and spacer behind the governor linkage lever (B); discard the governor linkage lever (B). Remove the governor spring (A) from the governor lever (E); discard the governor spring (A). See Figure 1.

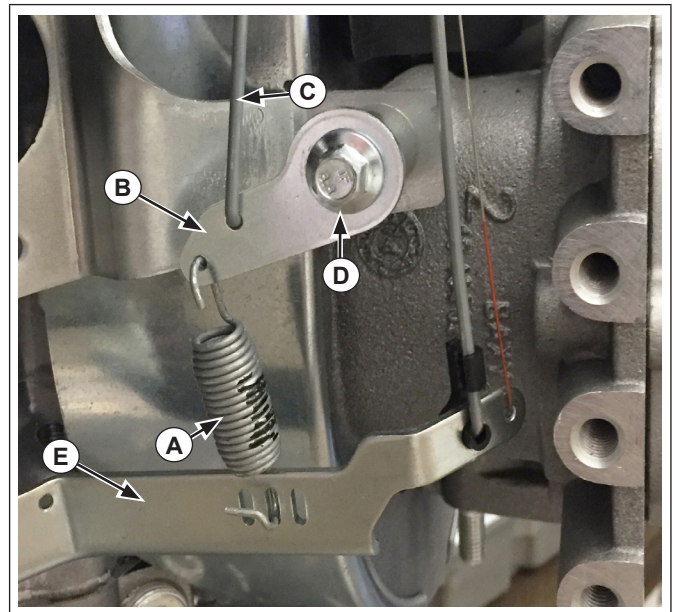


Figure 1. Original Governor Linkage Lever and Governor Spring.

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- Hook the speed control linkage (C) and the new governor spring (A) into the new governor linkage lever (B). See Figure 2.
- Hook the new governor spring (A) into the middle slot of the governor lever (F). Orient spring ends as shown in Figure 2. Secure the new governor linkage lever (B) and the spacer (D) with the M6 screw (E). Torque screw (E) to 10.2 N·m (90 in. lb.). See Figure 2.

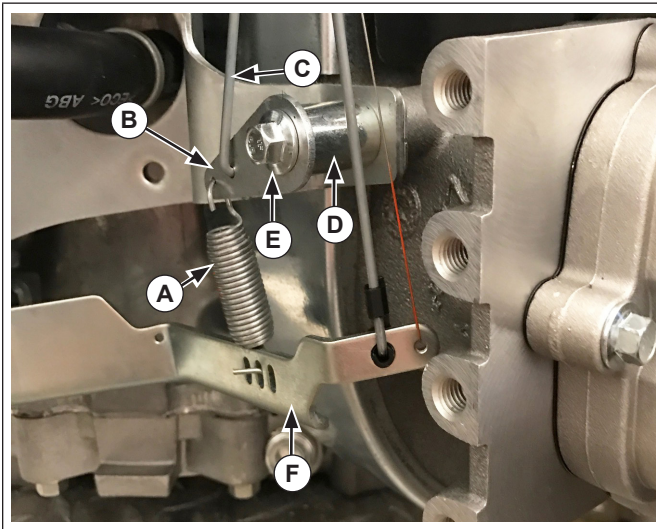


Figure 2. New Governor Linkage Lever and Governor Spring.

- Start the engine and allow it to warm up for a few minutes.
- Reset the high speed to 3640 RPM. See Figure 3. First loosen the screw (A) securing the cable clamp that holds the speed control cable from the application. Next move the application lever to high speed position (rabbit), then pull on the cable (C) and turn the adjusting screw (B). When the desired RPM speed is obtained, tighten the screw (A) to secure the cable clamp.



Figure 3. Reset High Speed.

- Cycle the application lever from slow (turtle) to high speed position (rabbit) a few times, then verify high speed is still at desired RPM, if not repeat step 5.
- Set the idle speed to 1500 RPM by adjusting the idle speed screw (A) on the throttle body. See Figure 4.

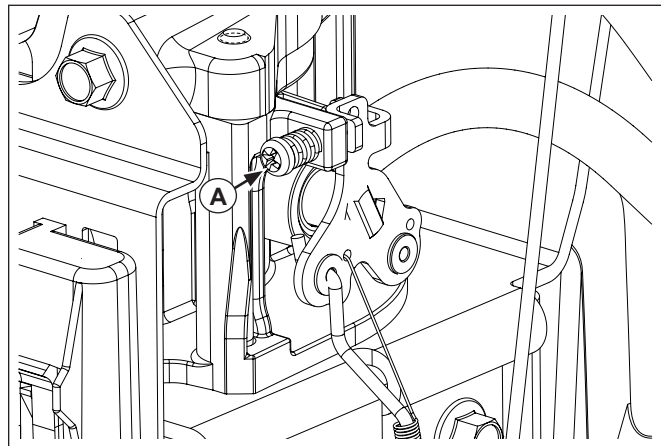


Figure 4. Reset Idle Speed.

Normal warranty terms apply. Submit warranty claim using 19 089 08 as the Defective Part Number and ZZ (Other) as the Failure Code. Labor Time of up to 0.5 hour using Labor Code 9999 for Misc. Labor.