CHAMPION POWER EQUIPMENT Technical Bulletin

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Adjust Governor Droop

This bulletin covers the following Champion Power Equipment models (*Note*: Read instructions completely before performing service):

– **All Champion Power Equipment products equipped with a 717cc or 754cc engine**

Instructions to adjust governor droop

1. Engine speed droop is difference in RPM from high speed no load (HSNL) to 100% load where throttle is close to touching WOT stop.
2. The main governor spring is normally in hole #5 to target 240 RPM (4 Hz) droop
3. The factory may set the spring in other hole# to adjust for batch variation
4. Governor may need to have droop reset for following reasons:
   a. After many hours (300-500 hrs) of operation to compensate for wear. Droop usually gets wider with wear.
   b. If the generator is experiencing wide speed droop from HSNL to 100% load
   c. If the generator is experiencing speed instability /speed hunting due to tight droop.
5. If engine has many hours on it (300-500 hours) then reset governor to WOT first.
6. To reset the governor droop do the following:
   a. To tighten droop move governor spring closer to the governor shaft paddle pivot (a lower hole #).
   b. To widen droop move governor spring further away from the governor shaft paddle pivot (a higher hole #).
   c. Reset engine speed to 3750 RPM (62.5 Hz) HSNL
7. Check the running performance for droop & stability.
   a. If droop is adjusted too tight, then you may encounter no load speed hunting
   b. Load engine to 100% load. Droop should be near 240±60 RPM (4±1 Hz)
   c. HSNL should be 3750 RPM(62.5Hz) and mid-load operation should be near 3600 RPM(60Hz).
   d. Flick throttle or governor lever to upset the speed balance. Engine speed should recover and run steady within 8-10 seconds.

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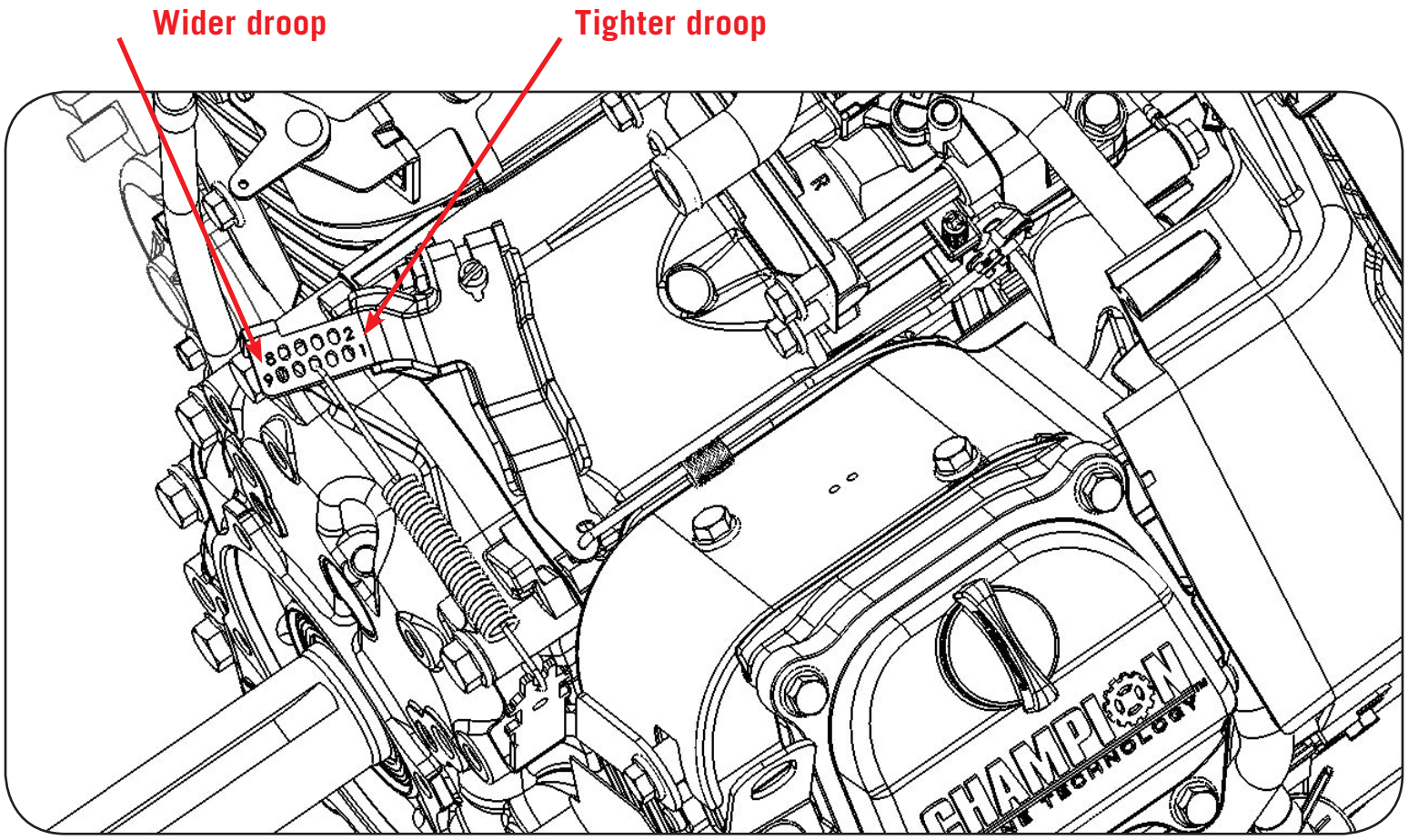
Adjust Governor Droop



To widen droop move spring to high hole#
To tighten droop move spring to lower hole#