

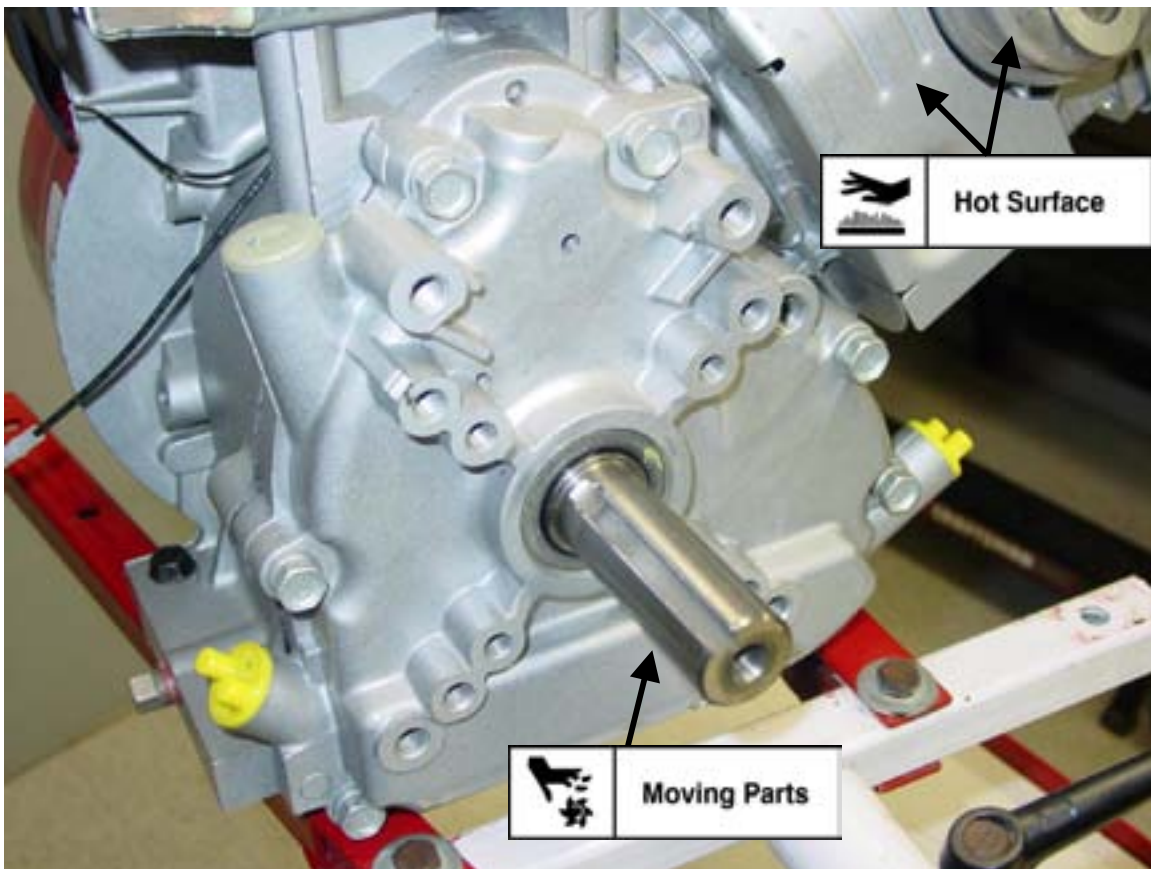
This instruction sheet is only intended for engine Model 205432, type 0036 -E1, to be used in the SAE Baja events.



Engine model and type numbers are stamped into the engine valve cover.



Make sure that the crankshaft is clear of any keys or spacers. No drive CVT, spacers, keys, washers or pulleys of any type can be on the engine during these procedures.



Tools required:

To set engine RPM; use Briggs & Stratton tachometer part number 19389. Follow instructions inside package to install tachometer, (easy process of wrapping the red wire around the spark plug lead).

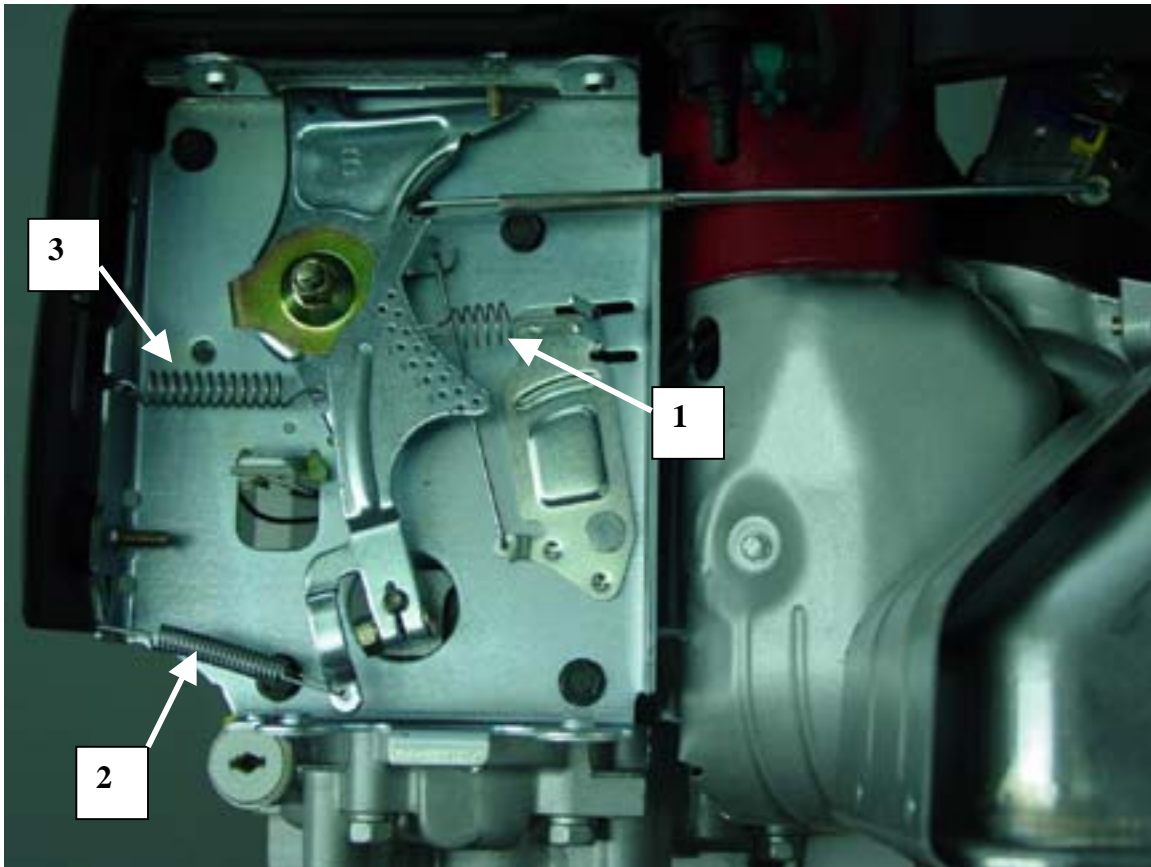


For adjusting the engine RPM, use Briggs & Stratton Tang Adjuster, part number 19480.



Make sure the engine is set up correctly for the SAE event.
For additional information refer to the SAE kit P/N 695221.

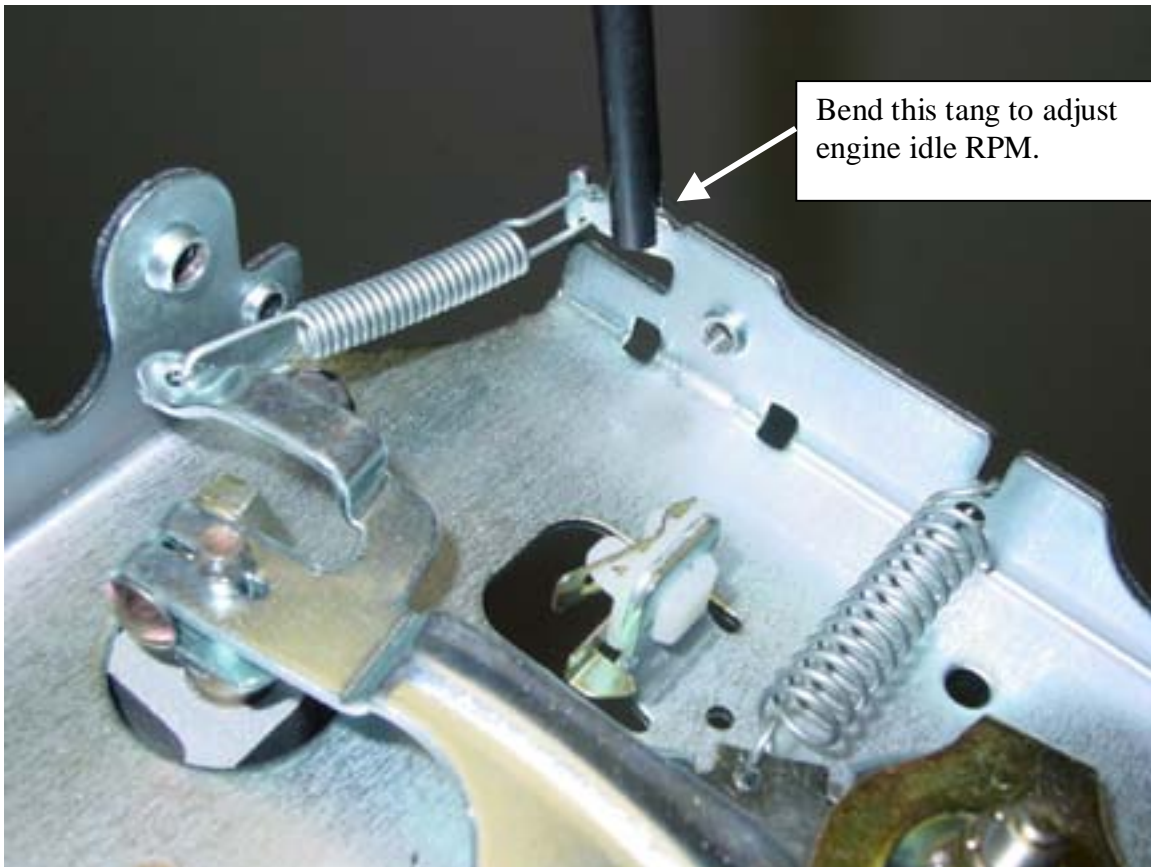
Fuel tank is removed to show the governor components below.



1. Governor spring P/N 694867 must be in location number 6 on the governor lever.
2. Governed Idle Spring P/N 695307 must be in place.
3. Throttle Return Spring P/N 261194 must be in place.

Setting Engine RPM.

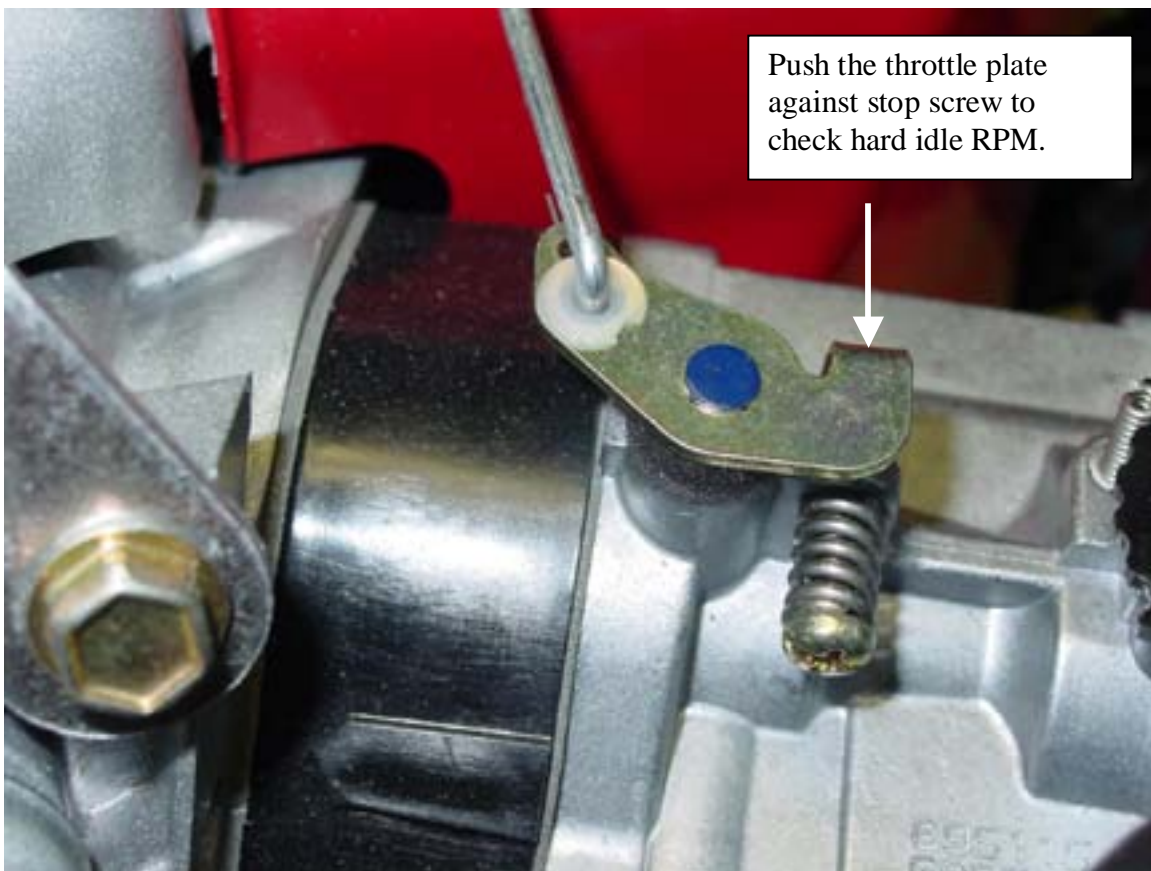
1. Make sure engine is securely mounted in chassis
2. Fill engine with oil.
3. Make sure no keys or anything is on crankshaft; protect this area to keep hands or clothing away from rotating shaft.
4. Make sure stop switches are working.
5. Turn on fuel supply, start engine and allow engine to warm up to normal operating temperature.
6. Set engine Idle RPM first! We recommend ~1750 RPM.
7. Set idle speed by adjusting the tang holding the governed idle spring.



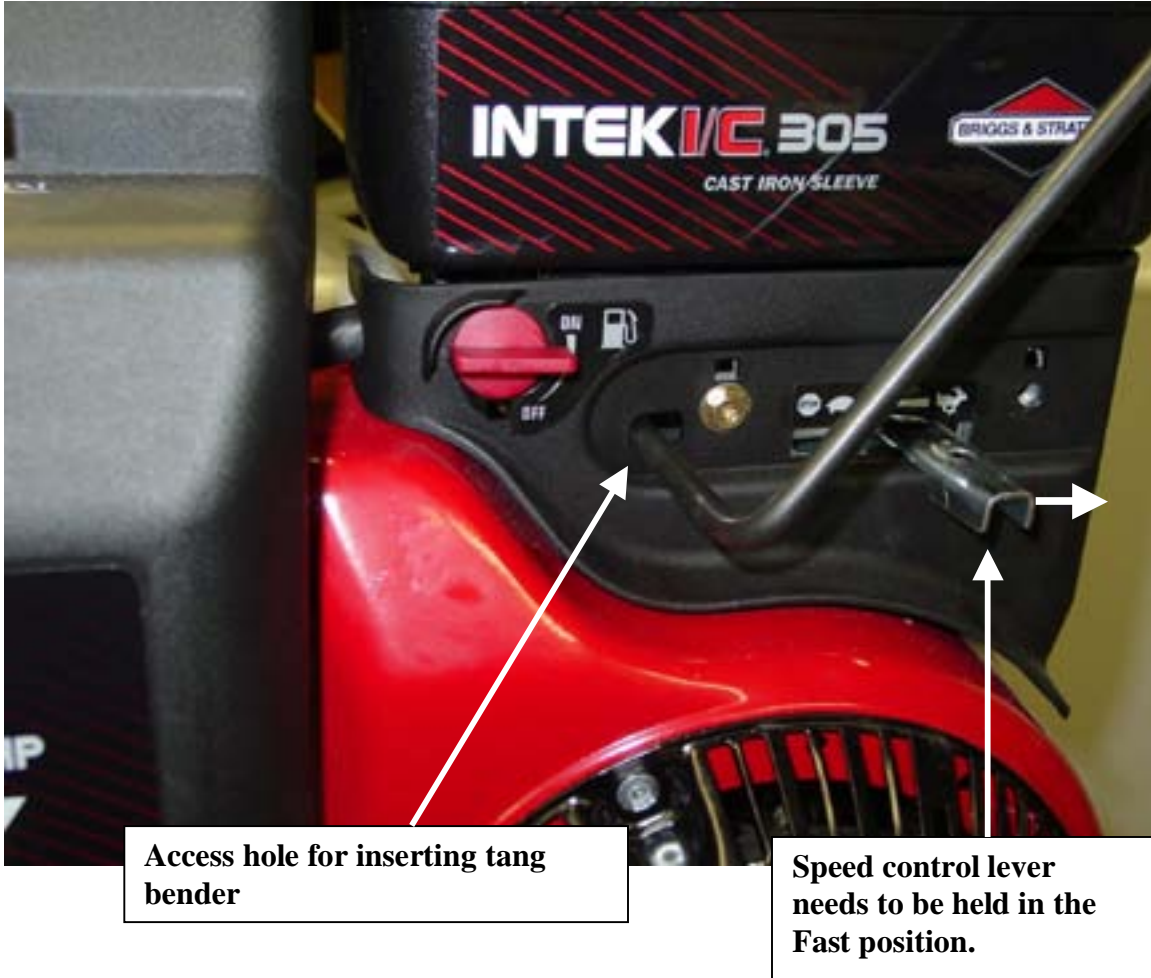
Fuel Tank removed for clarity, tang can be adjusted with fuel tank in its normal position.

After the governed idle is set, the hard idle on the carburetor can be checked. To check the hard idle, push the throttle plate against the stop screw on the carburetor. The idle speed should be ~200 RPM lower than the governed idle setting, adjust the screw to reset hard idle if necessary.

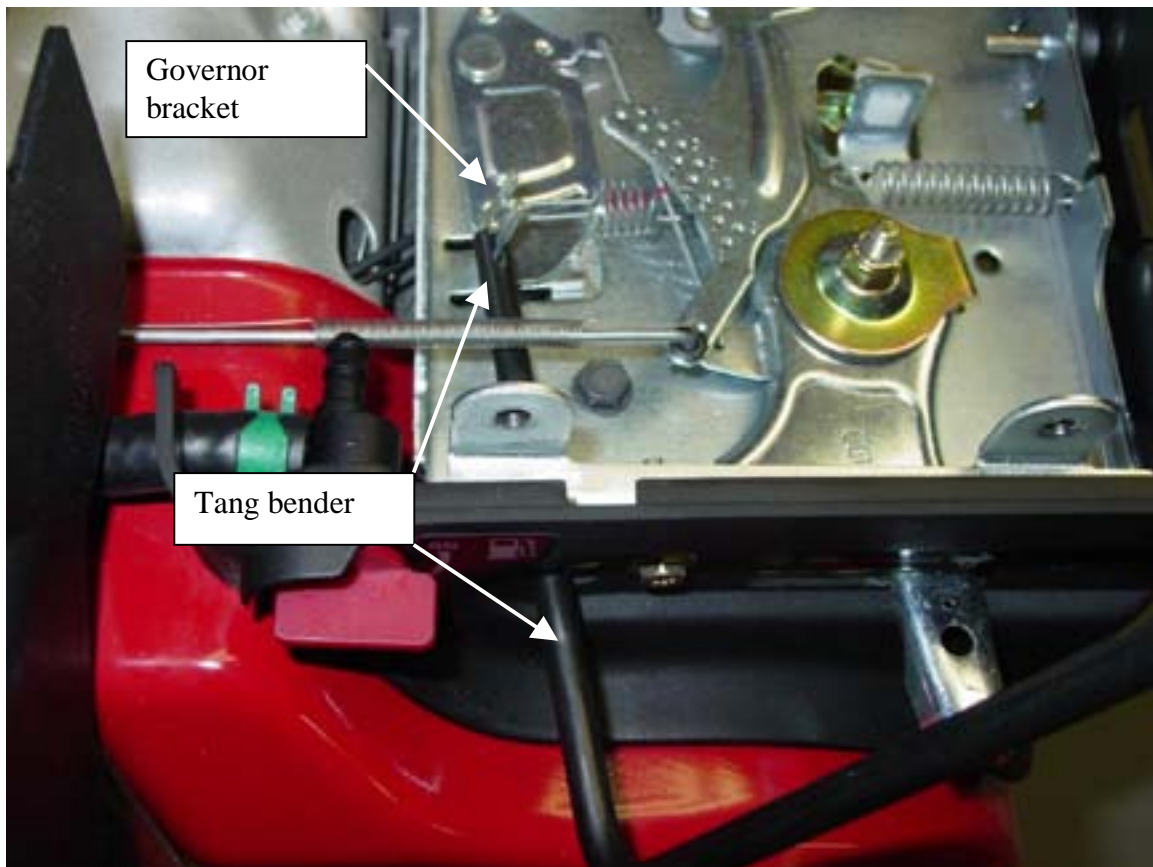
Idle speed should never be set solely by the carburetor screw; the idle speed is always to be set at the governed idle spring.



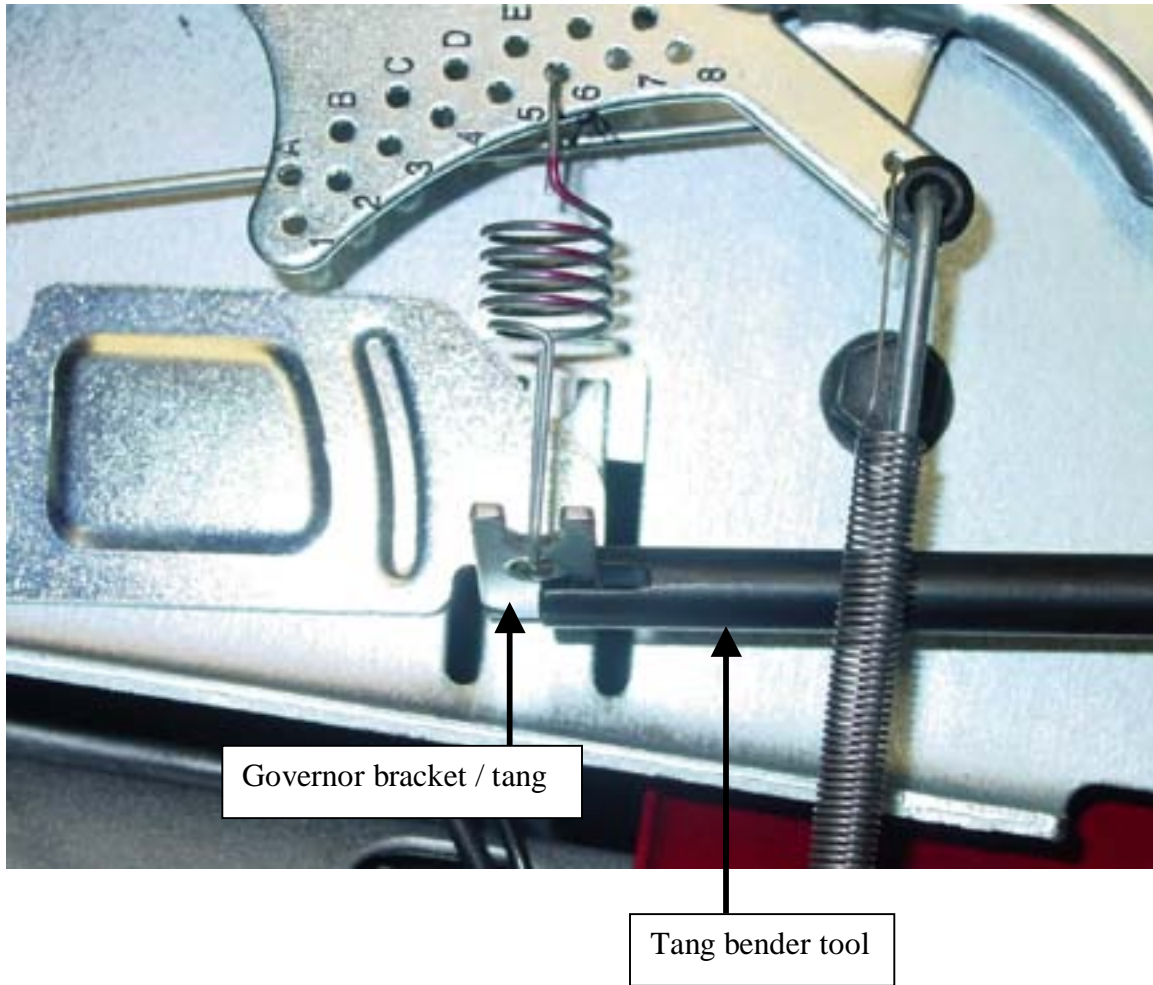
After idle speed setting is complete, check the engine top no load RPM. The maximum the engine RPM can be set to is 3800 RPM. To set engine top RPM, hold the speed control lever in the full wide open position, read the RPM on the tachometer and use the tang bender tool P/N 19480 to bend/ adjust the tang that supports the governor spring. The tang bender can be inserted in the access hole under the fuel tank.



The fuel tank was removed in the below photo to show the tang bender tool connecting to the governor bracket, bending the governor tang adjusts the engine RPM.



Close up of the tang bender on the governor bracket. By bending the tang forward or backward changes the spring tension and in turns changes the engine governed top no load speed. It does not require much of a bend to change the RPM!



After engine RPM adjustment is made, return engine to idle, return engine to full throttle and recheck the tachometer to verify your RPM setting.