



▶ Governor Synchronizing Procedure

For all Honda and Yamakoyo engines

A simple, yet **Most Vital** procedure commonly overlooked and misunderstood. Synchronizing the governor is the 1st step in making RPM & Carburetor adjustments. It sets the correct baseline or foundation for all other adjustments.

Symptoms of an out of sync governor are:

- Karts that top out plenty fast on the straights but loose too much speed in the turns and take off slower from a stop.
- Engines that surge up & down in RPM even with a known good carburetor
- Engines that run "wild"
- Engines that will not rev up unless you physically move the governor linkage by hand

The benefits of a properly synchronized governor are karts that will ALL run equally through-out the entire course, providing your patrons with the most enjoyable experience and at the same time reducing wear on engines resulting in longer engine life.

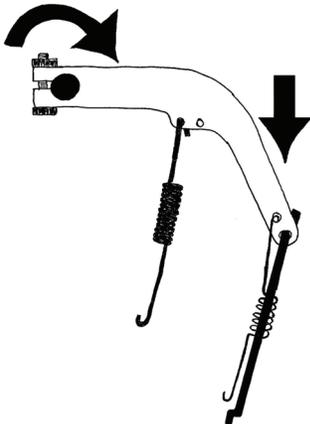
The main culprits that cause a governor to become out of sync are:

1. The small alignment and dimension changes that happen when normal repairs are done to the engine, due to variances, (wobble room) around bolt holes. Especially with removal and reinstallation of throttle control assembly and governor rod, carburetor, governor arm, governor gear, governor lever and cylinder head.
2. Normal wear and tear.
3. Break in wear on new engines or new parts assemblies.
4. Governor arm clamp slipping due to loose or damaged clamp bolt.
5. Bent or modified linkages

PREPERATIONS: 1) Turn engine OFF!! 2) Visually inspect that all springs, linkages and parts are free of damage and correctly installed to all components. Inspect that carburetor and throttle control plate mounting hardware are tightly fastened to engine. 3) With fingers, move linkage the full travel from wide open throttle position to slowest idle position, back & forth, making sure there is no binding, catching or rubbing. Straighten up any linkage parts that are binding.

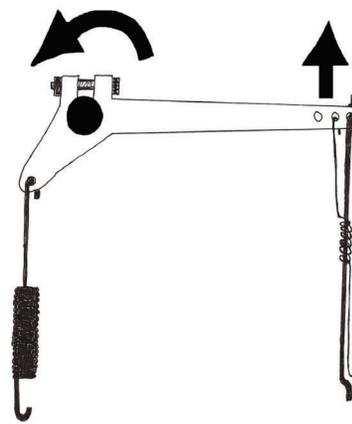
5.5 HP & 6.5 HP Instructions

1. Loosen clamp bolt
2. Rotate shaft fully clockwise and hold.
3. Move governor arm fully clockwise. (Holding throttle wide open will accomplish this)
4. Tighten clamp bolt securely



8.0 HP & 9.0 HP Instructions

1. Loosen clamp bolt
2. Rotate shaft fully counter-clockwise and hold.
3. Move governor arm fully counter-clockwise. (Holding throttle wide open will accomplish this)
4. Tighten clamp bolt securely



After you have completed your governor synchronization, set top kart speed (with wheels safely off the ground) by turning RPM limiter screw on throttle control plate while holding a wheel tachometer against a correctly inflated drive tire. If you do not have a wheel tachometer you can set all engines to the same RPM with an engine tachometer. Then set your gas pedal limiter bolt to prevent "heavy feet" from over-riding the adjustment.