

TECHNICAL BULLETIN

SWIFT SUPPLEMENTAL RULES - PG. 1

The intent of the class is to run the engine as produced. The specifications are available to determine any modifications, not to allow blueprinting. No deviation from the "as produced" USA engine is allowed. All components must remain OEM.

Bearings, seals, O-rings, and gaskets: may be replaced with equivalent from aftermarket suppliers. No ceramic or exotic material bearing allowed.

- Changing cylinder base gasket thickness to adjust port duration is allowed.
- Changing head shim to adjust squish is allowed.

Ports: must remain as manufactured condition. No grinding or polishing of any kind. Alternate port timing dimensions using LAD tool:

- Exhaust 1.230"
- Exhaust light break: 1.095"
- Intake: .585"

External modifications: of any type including air scoops or heat retention additions, are not allowed.

Fuel System: No additional components are permitted. Any fuel filter, if utilized, must be placed between the fuel tank and carburetor.

CC Volume: No longer applicable.

Squish minimum: .025" min. with .0625" (1/16") 1.6mm solder.

Spark plug specifications: Only the following plugs are allowed, heat range is not specified:

- Autolite AR50, AR51, AR52 and AR53
- NGK BR_EG or B_EG
- DENSO W_ESZU

Must be stock and unmodified. May be compared to a known stock plug to determine any modification. Spark plug washer, indexing washer or head temperature gauge sender must be in place.

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SWIFT SUPPLEMENTAL RULES - PG. 2

Clutch: Only clutch drum Part Number A61550US (without holes) is allowed
Clutch component MUST not contain significant amounts of any kind of oil or grease
Recommended test procedure:

- Place kart on stand in a safe location with axle free to turn with no obstructions
- Start engine.
- Apply throttle a few times to ensure throttle response.
- Holding throttle and brake on at same time, apply full throttle against full braking without tire rotation.
- It may require a few attempts to get a clean pull.
- Read either competitor's gauge or have a clip-on tachometer to read RPM at highest reading.
- RPM's exceeding 5000 are non-compliant.

If you are not familiar with this procedure it might take a few attempts, but you will find it simple and effective requiring a minimum of time and space.

Ignition timing: Not controlled.

Air filter: SKUSA or IAME (PN 10751-A) filter must be used with no modification.

Carburetor: Must remain as supplied with conformity to pdf specifications. Buttonhead screw in throttle plate not allowed. Auxiliary return spring required.

Intake tract gaskets: Minimum thickness of any gasket: .010" (.25mm). Gear: 10 or 11t original IAME clutch gear.

Exhaust: As per Homologation File. Excess leaking at manifold or joint is grounds for disqualification. High temp silicone seal is recommended to minimize leaking. Gasket thickness 1.3mm minimum.

- Micro Swift uses 16mm exhaust header Part Number: A85365