



Engine and components must have original specifications and appearance. When updated components or sub-assembly are available from the factory, those parts are allowed.

The following exceptions and clarifications are applicable:

Bearings, seals, O-rings, and gaskets: May be replaced with equivalent from aftermarket Suppliers. No ceramic or exotic material bearing allowed. Components that measure within tolerance but show evidence of modification from factory-delivered condition are subject to disqualification.

Carburetor: Tillotson HW 27A. Venturi diameter is Max 27mm (1.063"). Must be run in position shown on pdf. Auxiliary return spring required.

Exhaust timing: Maximum 177.5 degrees with manual or electronic degree wheel. Alternate measurement using LAD tool: 1.340" (visible light: 1.215").

- Changing cylinder base gasket thickness to adjust port opening duration is allowed.

Reeds: IAME stock. Minimum thickness: .011"

Ports: must remain as manufactured condition. No grinding or polishing of any kind.

Minimum Squish: .035", with .060" solder.

Cylinder Head Gasket: Head gasket is NOT required but maybe used to meet the minimum squish requirement.

CC Volume: No longer applicable.

Air Box: Only the 2021 Airbox (X30125740) will be legal for use at all SKUSA events. No modifications allowed.

Air filter: IAME Part number 10751-A required.

Ignition control box: "C" unit, subject to additional tech.

Ignition flywheel and key dimensions:

- Flywheel key: 0.096" No-Go
- Flywheel key slot in the rotor: 0.103" No-Go



TECHNICAL BULLETIN

X30 SUPPLEMENTAL RULES - PG. 2

X30 Ignition Timing Clarification: There has been a lot of discussion throughout the industry about the ignition timing on the X30 engine. Based on some of the discussions and questions that have come to light, we felt it necessary to clarify and define the long existing rules.

1. Key thickness is 0.096" Minimum No-Go
2. Keyway slot width in the flywheel and the crankshaft is 0.103" No-Go Maximum
3. Four holes in the stator are 5.6mm No-Go maximum diameter
4. Four stator holding screws are 0.187" No-Go minimum diameter
5. Procedure for inspection using the top drawing on the factory fiche on page 7 is as follows:
 - a. Install a dial indicator into the spark plug hole and zero at top dead center. Rotate the engine at least one turn of the indicator before TDC. Rotate the engine until the needle just arrives at TDC. The thin line on the flywheel must strike somewhere within the wider molded center line on the stator, or to the right side of this line

Spark plug specifications:

- Only the following plugs are allowed: NGK R6252K-105 and NGK R6254-105. In the event of a declared Rain Race, NGK BR10EG may be used.
- 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. Maximum length 18.5 mm (including washer or temp lead.) May be verified with a Rocket Racing Products spark plug gauge – with plug tightened to no more than 180 in/lb.

Radiator: One (1) aftermarket radiator allowed to replace the IAME radiator, subject to the following:

- No auxiliary fans.
- No additional scoops, air dams or other aerodynamic additions.
- Water pump is non-tech but must be powered from axle. Electric pumps not allowed.
- Thermostat optional.
- Mounting height 50cm maximum from ground (excluding filler cap).
- Maximum radiator dimensions: Height: 19.5" Width: 12" Depth: 3.250" (496mm x 305mm x 83mm).
- Shield on rear allowed to prevent damage from track debris.

Clutch: Only clutch drum X30125550A (without holes) may be used.

- The older friction hub #X30125840 may no longer be used

Exhaust System: Effective May 20, 2021, the new one-piece exhaust system shall be mandatory

- Silencer – IAME Part# X30125715
- Senior Header – IAME Part# X30125370
- Junior Header – IAME Part# X30125370J (22.7mm)
- No Spacers allowed between the cylinder and the header - single factory OEM gasket only - min. thickness 1.3mm
- Excessive leakage at the manifold joint or joints is grounds for disqualification.

10/13/2021

For any questions or concerns regarding this bulletin, please contact:

IAME USA East - Eric Jones - sales@iameusaeast.com or (844)442-6387