



Four Stroke Karting Association of NSW

SUBARU KX21DU
Engine Technical Specifications

Version 1.0 – April 2019

Overview

These specifications have been prepared by the Four Stroke Karting Association of NSW.

Engines will be supplied by the Association or its appointed agents in a sealed ready to race configuration.

All components must remain as supplied by the manufacturer (OEM).

Should any maintenance or repairs be necessary, engines must be presented to the Association, or its appointed agents, for re-sealing to establish such engines eligibility for Competition.

Specifications

Description	Measurement
Cylinder volume	211cm ³
Original Bore	67.020 mm
Maximum Stroke	67.mm
Volume of combustion chamber	21.6 cm ³
Compression ratio	10:1
Minimum flywheel weight	2400g
Pistons	Aluminium Number of rings – 3
Minimum weight of complete piston including pin, clips & rings	190g
Crankshaft – (steel material)	Minimum weight 1918g
Cylinder head – (aluminium)	Minimum height 64.5mm
Timing chain length	281.7 / 284.9mm
Valve Springs	21.5mm x 27.4mm Number of spring coils Diameter of wire 2.3mm
Valve spring washer thickness (maximum of two allowed)	1mm
Inlet valve (steel)	Length 67.8mm Diameter of valve stem 5.45mm Valve head diameter 28.5mm
Exhaust valve (steel)	Length 67.6mm Diameter of valve stem 5.4mm Valve head diameter 26.5mm
Carburettor	Mikuni side draft fixed butterfly venturi. Max diameter of flange hole at carburettor exit point = 22mm Max diameter of venturi at narrowest point = 17mm Main Jet 83.8 Pilot Jet 41.3

Key part numbers

Clutch (No restriction on front sprocket size)	Max-torque SS 219 Noram GE20-219
Exhaust (AussieSpeed)	Coupler to Header AS0434-6 Muffler SUB-K-003
Ignition Module	BM3803
Carburettor	278-62351-00
Engine Seals	Approved seals registered with 4SKANSW Inc.