



# TOP FUEL MOTORCYCLE

## CLASS REGULATIONS

Effective April 2023

Top Bikes are the ultimate racing motorcycle. This bracket accommodates purpose built drag racing motorcycles with fully fabricated frames and highly modified engines. Superchargers - Turbo Charging and Nitrous Oxide and nitro - methane fuels allowed

Pro Tree - Heads Up

12530	Class Reg	Top Bike	Body	Body - dimensions	Entirety of vehicle must be contained within a space that is less than 610 mm (24 inches), measured from the vertical plane of the front spindle.	Mandatory
12540	Class Reg	Top Bike	Body	Frame - streamlining	If the covering over the front wheel is higher than 6 inches, measured from ground level.	Allowed
12550	Class Reg	Top Bike	Chassis / Frame	Chassis	If a non-unit motor is in use, motorcycle must have engine plates or a frame that is a complete cradle.	Mandatory
12560	Class Reg	Top Bike	Chassis / Frame	Chassis - joints	Chassis joints must be TIG welded.	Mandatory
12570	Class Reg	Top Bike	Chassis / Frame	Chassis - material	Chassis - Made from CM4130 steel tube or equivalent strength.	Mandatory
12580	Class Reg	Top Bike	Chassis / Frame	Chassis - reinforcing tubes	Chassis reinforcing tubes - Diameter at least 19 mm (3/4 inch).	Mandatory
12590	Class Reg	Top Bike	Chassis / Frame	Chassis - reinforcing tubes	Chassis reinforcing tubes - Wall thickness at least 0.049 inch.	Mandatory
12600	Class Reg	Top Bike	Chassis / Frame	Chassis - tubes	If there is only one top tube in the chassis frame, its diameter must be at least 50 mm (2 inches) and have a wall thickness of at least 0.058 inch.	Mandatory
12610	Class Reg	Top Bike	Chassis / Frame	Chassis - tubes and rails	Cross tubes and main frame rails diameter:- at least 25 mm (1 inch).	Mandatory
12620	Class Reg	Top Bike	Chassis / Frame	Chassis - tubes and rails	Cross tubes and main frame rails minimum wall thickness:- at least 1.5 mm (.058 inch).	Mandatory
12630	Class Reg	Top Bike	Chassis / Frame	Brakes - callipers	Calliper - pistons acting on both sides of disc.	Mandatory
12640	Class Reg	Top Bike	Chassis / Frame	Brakes - callipers	Brake callipers 4 or 6 piston.	Allowed
12650	Class Reg	Top Bike	Chassis / Frame	Brakes - front	Two hydraulic disc brakes, minimum 250 mm (10 inch) diameter and 4 mm (0.156 inch) thick.	Mandatory
12660	Class Reg	Top Bike	Chassis / Frame	Brakes - rear	One hydraulic disc brake, minimum 250 mm (10 inch) diameter and 4.75 mm (0.187 inch) thick.	Mandatory
12670	Class Reg	Top Bike	Chassis / Frame	Brakes	Two, hydraulic disc brakes, with a thickness of at least 4 mm (0.156 inch) and disc diameter of at least 250 mm (10 inches), fitted to front wheel.	Mandatory
12680	Class Reg	Top Bike	Chassis / Frame	Brakes	One, hydraulic disc brake with a thickness of at least 4.75 mm (0.187 inch) and disc diameter of at least 250 mm (10 inches), fitted to rear wheel.	Mandatory
12690	Class Reg	Top Bike	Chassis / Frame	Brakes	Brake pistons must operate on opposing sides on the disc for any calliper.	Mandatory
12700	Class Reg	Top Bike	Chassis / Frame	Brakes	Brake - 2, 4 or 6 piston.	Allowed
12710	Class Reg	Top Bike	Chassis / Frame	Footrests	Footrests - Completely in front of the extreme rear of the frame.	Mandatory

12720	Class Reg	Top Bike	Chassis / Frame	Steering	Steering - Angle limit is 12 degrees, as measured either side of straight ahead.	Mandatory
12730	Class Reg	Top Bike	Chassis / Frame	Steering	Steering - Angle of maximum 12 degrees each side of straight ahead and limited by stops.	Mandatory
12740	Class Reg	Top Bike	Chassis / Frame	Steering	Steering dampers.	Mandatory
12750	Class Reg	Top Bike	Chassis / Frame	Steering	Steering - Dampers act as stops.	Forbidden
12760	Class Reg	Top Bike	Chassis / Frame	Suspension - Forks	A method of absorbing rebound and dampening shock.	Mandatory
12770	Class Reg	Top Bike	Chassis / Frame	Suspension - Forks	Diameter of the any type of fork tube must be at least 34 mm (1.338 inch).	Mandatory
12780	Class Reg	Top Bike	Chassis / Frame	Suspension - Forks	If telescopic forks are fitted there must be a brace between the two fork sliders, which brace must be at least 4.74 mm (0.187 inch) thick, if made of steel or 7.87 mm (0.312 inch) thick, if made of aluminium.	Mandatory
12790	Class Reg	Top Bike	Chassis / Frame	Suspension	Shock dampening and rebound absorption for forks.	Mandatory
12800	Class Reg	Top Bike	Chassis / Frame	Suspension	Minimum telescopic fork tube diameter 34 mm.	Mandatory
12810	Class Reg	Top Bike	Chassis / Frame	Suspension	Bracing between telescopic fork sliders a minimum of 7.87 mm (0.312 inch) aluminium or 4.74 mm (0.187 inch) steel.	Mandatory
12820	Class Reg	Top Bike	Chassis / Frame	Suspension	Rear suspension.	Allowed
12830	Class Reg	Top Bike	Chassis / Frame	Wheel and tyre - rear	At least 6 bead fixing screws per side or dual bead locks on rear tyre.	Mandatory
12840	Class Reg	Top Bike	Chassis / Frame	Tyre - rear	Manufactured specifically for drag racing.	Mandatory
12850	Class Reg	Top Bike	Chassis / Frame	Wheels - tyres	Tyres - Tubed or tubeless.	Allowed
12860	Class Reg	Top Bike	Chassis / Frame	Tyres	Tyres - Tube or tubeless.	Allowed
12870	Class Reg	Top Bike	Chassis / Frame	Wheel - front	Diameter 406 mm to 457 mm.	Mandatory
12880	Class Reg	Top Bike	Chassis / Frame	Wheel - front	Diameter from 6 mm (16 inches) to 457 mm (18 inches).	Mandatory
12890	Class Reg	Top Bike	Chassis / Frame	Wheel - front	Nominal section width at least 75 mm (3 inches).	Mandatory
12900	Class Reg	Top Bike	Chassis / Frame	Wheel - front	Width 75 mm minimum.	Mandatory
12910	Class Reg	Top Bike	Chassis / Frame	Wheel - rear	Manufactured for drag racing.	Mandatory
12920	Class Reg	Top Bike	Chassis / Frame	Wheel - rear	Dual bead locks or 6 fixing screws side .	Mandatory
12930	Class Reg	Top Bike	Chassis / Frame	Wheelie bars	Wheelie bars - Must be fitted and be able to support the weight of the motorcycle with the rider.	Mandatory
12940	Class Reg	Top Bike	Driver / Rider	Helmet	Helmet - Environmental air breathing systems.	Allowed
12950	Class Reg	Top Bike	Drivetrain	Chain guard	Chain guard - At least 25 mm (1 inch) wide by 3 mm (1/8 inch) thick.	Mandatory
12960	Class Reg	Top Bike	Drivetrain	Chain guard	Chain guard - Made of steel or alloy.	Mandatory
12970	Class Reg	Top Bike	Drivetrain	Chain guard	Where the chain is exposed , top run is covered the full distance between the sprocket centre lines.	Mandatory
12980	Class Reg	Top Bike	Drivetrain	Chain guard	Chain guard cover attached to main frame.	Mandatory
12990	Class Reg	Top Bike	Drivetrain	Clutch and flywheel	The rider must not make contact with the clutch. Hence, if the flywheel or clutch is exposed, then protective material must be installed, must not contact the clutch and must be made of alloy, which is at least 5 mm (3/16 inch) thick.	Mandatory
13000	Class Reg	Top Bike	Engine	Engine	OEM or aftermarket engine made only for motorcycle use.	Allowed

13005	Class Reg	Top Bike	Engine	Engine	Engine capacities for Motorcycles are as following , Engines with one form of Supercharging are allowed a maximum of (200 ci) or 3277cc, Engines with more than one form of Supercharging but no more than two are limited to (160ci) or 2621cc, all engines must adopt one form of mechanical or chemical supercharging.	Mandatory
13010	Class Reg	Top Bike	Engine	Engine -modifications	Any engine modifications	Allowed
13020	Class Reg	Top Bike	Engine	Cylinder head <b>restraints</b> - containment cover	If the engine is nitro fuelled and each cylinder has a separate cylinder head, a metal or ballistic-quality fabric containment cover, must be fitted, such that each cylinder head is surrounded and the cover is restrained by straps which are attached to the crankcase. Or, a device meeting SFI 46.1 must be used. Refer <a href="https://www.sfifoundation.com/wp-content/pdfs/specs/Spec_46.1_021398.pdf">https://www.sfifoundation.com/wp-content/pdfs/specs/Spec_46.1_021398.pdf</a> .	Mandatory
13040	Class Reg	Top Bike	Engine	Exhaust	Any exhaust system.	Allowed
13050	Class Reg	Top Bike	Engine	Fuel shut off	Fuel shut off must be attached to handlebar.	Mandatory
13060	Class Reg	Top Bike	Engine	Fuel lines	If there is mechanical fuel injection, then a fuel shutoff must be attached to the handlebar, or fuel lines must be fitted with taps.	Mandatory
13070	Class Reg	Top Bike	Engine	Controls - fuel shutoff	Fuel Shut off - Handlebar mounted.	Mandatory
13080	Class Reg	Top Bike	Engine	Fuel Grade	Fuel - Methanol, Ethanol, Petrol or Nitromethane	Mandatory
13100	Class Reg	Top Bike	Engine	Kill switch - type	The ignition kill switch or fuel shut off must be attached to the rider by a lanyard-type device.	Mandatory
13110	Class Reg	Top Bike	Engine	Supercharger - protection	If a supercharger is used, an approved ballistic blanket, or a cover which is either alloy 4.8 mm (3/16 inch) thick or steel 3 mm (1/8 inch) thick.	Mandatory
13120	Class Reg	Top Bike	Engine	Throttle - controls - handlebars	Dual throttle cables, installed such that a cable positively closes the throttle/s.	Mandatory
13130	Class Reg	Top Bike	Engine	Controls - throttle	Dual cables arranged so one cable positively closes all throttles.	Mandatory
13140	Class Reg	Top Bike	Support Group	Electronic management	Data logging	Allowed
13150	Class Reg	Top Bike	Support Group	Electronic management	Fuel and /or clutch controlled by pneumatic or electric timers, either of which have been pre-set.	Allowed
13160	Class Reg	Top Bike	Support Group	Electronic management	Telemetry	Allowed
13170	Class Reg	Top Bike	Support Group	Electronic management	Reactive, or closed loop controls, unless they are safety shutdowns which do not increase performance.	Forbidden
13180	Class Reg	Top Bike	Vehicle	Controls - handlebars	Handlebars - At least 22 mm (7/8 inch) diameter.	Mandatory
13190	Class Reg	Top Bike	Vehicle	Controls - handlebars	Handlebars - Ball-ended clutch and brake levers.	Mandatory
13200	Class Reg	Top Bike	Vehicle	Controls - handlebars	Handlebars - Grips made of rubber or knurled alloy.	Allowed
13210	Class Reg	Top Bike	Vehicle	Controls - handlebars	Handlebars - If 4130 steel, wall thickness at least:- 0.058 inch.	Mandatory
13220	Class Reg	Top Bike	Vehicle	Controls - handlebars	Handlebars - If 7075 T6 aluminium, wall thickness at least:- 0.089 inch.	Mandatory
13230	Class Reg	Top Bike	Vehicle	Controls - handlebars	Handlebars - If telescopic forks are fitted, the distance from the centre of the headstock to the fork must not be more than 150 mm (6 inches).	Mandatory
13240	Class Reg	Top Bike	Vehicle	Controls - handlebars	Handlebars - If tubular, must have end plugs.	Mandatory

13250	Class Reg	Top Bike	Vehicle	Controls - handlebars	Handlebars - Width not less than 609 mm (24inch) and not more that 838 mm (33 inch).	Mandatory
13260	Class Reg	Top Bike	Vehicle	Controls - lanyard	Lanyard device, attached to rider, activating fuel shutoff or ignition kill switch.	Mandatory
13270	Class Reg	Top Bike	Vehicle	Parachute	Parachute - Motorcycle-specific design.	Mandatory
13280	Class Reg	Top Bike	Vehicle	Parachute	Parachute - In use and specifically manufactured for motorcycle use in drag racing.	Allowed
13290	Class Reg	Top Bike	Vehicle	Chassis - wheel base	Wheelbase - At least 2032 mm (80 inches).	Mandatory