

4.9.13 REAR AXLE

Attention should be given to the potential handling problems created by a broken axle shaft when a locked differential or spool is used. Proprietary aftermarket axles produced for Drag Racing should be used in conjunction with these units. All cars in competition other than genuine street cars with original engines must be equipped with a satisfactory means of rear axle retention. A minimum of 0.090 inch (2.3 mm) Steel bearing retainer is required. Full floating hubs are required in all power added cars 7.499 seconds (1/4 mile) / 4.776 seconds (1/8 mile), or quicker, except for vehicles weighing 2500 lbs, or less, that alternatively are permitted to use aftermarket 40-spline two-piece axles. Refer to Class Regulations.

Periodic Magnaflux check of axles recommended on any car with a terminal speed over 200 mph (321 km/h).

In Top Fuel and Top Alcohol, aftermarket full floating or live axle assembly mandatory.

4.9.14 BRAKES

Brakes must be in good working order. Two wheel hydraulic brakes (rear wheels only) are the minimum requirement. Four wheel hydraulic brakes are required on some vehicles as noted in Class Regulations. All Group 2 Sedans are required to have four wheel brakes as a minimum. Any car exceeding 170 mph (273 km/h) must be equipped with 280 mm (11 inch) rear wheel discs as a minimum.

Minimum diameter 280 mm (11 inch) Carbon Fibre brake rotors (rear wheels minimum) required for all vehicles that weigh more than 2100 lbs (952.5 kg) and exceed 225 mph (362 km/h), and all vehicles that exceed 240 mph (386 km/h) irrespective of weight. Carbon Fibre brake rotors must be used in conjunction with Carbon Fibre specific brake pads. Competitors unfamiliar with proper driving procedures when using carbon brake rotors should consult the manufacturer or experienced racers for instruction.

Where a Flywheel Shield is not fitted, brake lines must not be routed on the inside surface of the frame rail (adjacent to or facing the flywheel) unless the brake line is enclosed in a 16 inch (406 mm) length of 3.0 mm (1/8 inch) minimum wall thickness Steel tubing / Steel plate, securely mounted where line/s pass the Flywheel / Bellhousing area. Brake lines enclosed within / routed inside Chromoly frame rails with a wall thickness of 0.058" (1.47mm) or greater are acceptable. Street registered vehicles with an unmodified floor pan are exempt from this, where the OEM mounting points and OEM brake line routing are maintained.

All fixed brake lines must be Steel.

Any braking effect that is not directly generated by the driver / rider is prohibited. If a hand lever is used the handle must be inside the driver's compartment.

Motorcycles may use OEM brakes on the front and rear wheels as a minimum, refer to Class Regulations.

4.9.15 STEERING

Each car's steering system may be inspected to determine its condition and must be considered suitable / serviceable by the Scrutineer / Auditor. Steering wheel play must be at a minimum. Drag link and tie-rods must be secured and keyed. All altered or modified steering systems may be closely checked for insecure welds and faulty parts. All rod ends must be a minimum of 10 mm (3/8 inch) shank diameter, except in Junior Dragster where a minimum of 8 mm (5/16 inch) will be permitted. The use of rod ends using grease nipples, or not suitable for racing applications for any other reason will not be permitted. The use of female rod ends is not permitted except in the installation of rack and pinion steering where a rod end is used to replace the original ball joint and no welding is involved. Rod ends must be installed with flat washers to prevent bearing pullout. All steering boxes, sectors and shafts must be mounted to the frame or suitable crossmember and cannot be mounted in any case to the Bellhousing or shield. Any vehicle with a beam axle and rack and pinion steering must have the rack mounted on the axle with a universal joint steering shaft. The length of shaft forward of the joint must be equal to, and travel through the same arc as the radius rods locating the axle.