



# JUNIOR DRAGSTER

## CLASS REGULATIONS

Revised September 2024

Is for children between the ages of eight and eighteen years inclusive, racing half scale dragster, replicas of the sport's fastest cars. The "Dial Your Own" handicap system is used. Junior Dragster are limited to a minimum 1/8 mile ET.

**AA/JD** 15 to 18 years limited to no quicker than 7.60 and Top Speed no faster than 89.99mph (144kph)

**A/JD** 13 to 18 years limited to ET no quicker than 7.90 and Top Speed no faster than 89.99mph (144kph)

**B/JD** 11 to 18 years limited to ET no quicker than 8.50 and Top Speed no faster than 80mph (128kph)

**C/JD** 8 to 10 years limited to ET no quicker than 11.90 and Top Speed no faster than 60mph (96kph)

Anyone wishing to build/import a new vehicle must contact IHRA Technical before placing an order

All competitors must comply to all Safety and General Regulations

Junior Dragster Licence Required - Medical Required

Membership required for Parent / Legal Guardian if not current IHRA licence holder

IHRA Technical Inspection Required (includes logbook) one logbook per vehicle.

28200	Class Reg	Junior Dragster	Body	Body - style	Dragster	Mandatory
28210	Class Reg	Junior Dragster	Body	Body and cowl	Aluminium or fibreglass, Carbon Fibre	Allowed
28220	Class Reg	Junior Dragster	Body	Body and cowl	Design so that no part of the driver contacts the track surface or any moving part of the car.	Mandatory
28230	Class Reg	Junior Dragster	Body	Airfoils/wings	Wings	Allowed
28240	Class Reg	Junior Dragster	Body	Floor	Exists from six inches forward of pedals, to the driver's seat.	Mandatory
28250	Class Reg	Junior Dragster	Body	Floor	Mounted atop the rail cross braces of the lower frame.	Mandatory
28270	Class Reg	Junior Dragster	Chassis / Frame	Chassis Roll Cage Material	If Junior Dragster, then uses materials specified in General Regulations	Mandatory
28280	Class Reg	Junior Dragster	Chassis / Frame	Chassis	If Junior Dragster, then chassis complies to the diagram shown in General Regulations or relevant SFI specification.	Mandatory
28290	Class Reg	Junior Dragster	Chassis / Frame	Ballast - weight	If removable, then not more than 25 lbs (11.3 kg).	Mandatory
28300	Class Reg	Junior Dragster	Chassis / Frame	Ballast - location	Any location that is lower than the top of the rear tyres.	Allowed
28310	Class Reg	Junior Dragster	Chassis / Frame	Brakes	Single or twin disc acting on both rear wheels.	Mandatory
28320	Class Reg	Junior Dragster	Chassis / Frame	Brakes	If single disc, then diameter of at least 7 inches (178 mm).	Mandatory

28330	Class Reg	Junior Dragster	Chassis / Frame	Brakes	If twin discs, then diameter of at least 5 inches (127 mm).	Mandatory
28340	Class Reg	Junior Dragster	Chassis / Frame	Deflector plate - width	Equal to that of the chassis rails from the bottom rail to the shoulder hoop then tapering to the first bend in the roll cage where it is at least 6 inches (150 mm) wide.	Mandatory
28350	Class Reg	Junior Dragster	Chassis / Frame	Deflector plate	Manufactured from metal at least 1/16 inch (1.6 mm) thick and installed between the driver and the engine.	Mandatory
28360	Class Reg	Junior Dragster	Chassis / Frame	Deflector plate - height	Runs from lower frame rail to at least as high as the shoulder hoop and continues to the first bend in the roll cage.	Mandatory
28370	Class Reg	Junior Dragster	Chassis / Frame	Frame - diagonals	At least 3/4 inch (19 mm) round steel tubing.	Mandatory
28380	Class Reg	Junior Dragster	Chassis / Frame	Frame - upper and lower frame rails	At least 1 1/8 inch (28 mm) round steel tubing.	Mandatory
28390	Class Reg	Junior Dragster	Chassis / Frame	Frame - roll cage	Five point conforming to standard dragster configuration as per diagram shown in General Regulations	Mandatory
28400	Class Reg	Junior Dragster	Chassis / Frame	Steering - Rod Ends	Shank diameter at least 8 mm (5/16 inch). The use of rod ends using grease nipples, are not suitable for racing applications.	Mandatory
28410	Class Reg	Junior Dragster	Chassis / Frame	Steering - Shaft	Pin or collar to prevent injury from frontal impact.	Mandatory
28420	Class Reg	Junior Dragster	Chassis / Frame	Tyres - rear - diameter	Rear Diameter at least 18 inches (458 mm)	Mandatory
28430	Class Reg	Junior Dragster	Chassis / Frame	Tyres - rear - diameter	Rear Diameter no more than 21 inches (533 mm)	Mandatory
28440	Class Reg	Junior Dragster	Chassis / Frame	Tyres - rear - width	Rear tyre width at least 8 inches (203 mm) at the widest point.	Mandatory
28450	Class Reg	Junior Dragster	Chassis / Frame	Frame - uprights	At least 7/8 inch (22 mm) round steel tubing.	Mandatory
28460	Class Reg	Junior Dragster	Chassis / Frame	Frame - uprights	In the driver's compartment area, are maximum of 20 inches (500 mm) apart.	Mandatory
28470	Class Reg	Junior Dragster	Chassis / Frame	Wheels - front	Front wheel diameter at least 5 inches (127 mm).	Mandatory
28480	Class Reg	Junior Dragster	Chassis / Frame	Wheels - rear	Diameter at least 8 inches (203 mm).	Mandatory
28490	Class Reg	Junior Dragster	Driver / Rider	Arm Restraints	Arm restraints	Mandatory
28500	Class Reg	Junior Dragster	Driver / Rider		Aged between 8 and 18 years and correct JD Class Licence held has parent/legal guardian consent.	Mandatory
28510	Class Reg	Junior Dragster	Driver / Rider		At time of Licence application, must have Medical Examination.	Mandatory
28520	Class Reg	Junior Dragster	Driver / Rider		Upon Driver turning 18 years of age any further competition is forbidden.	Mandatory
28525	Class Reg	Junior Dragster	Driver / Rider	AA/JD	If AA/JD, then for drivers between the ages of 15 and 18 years, limited to ET no quicker than 7.60 seconds and Top Speed no faster than 89.99 mph (144kph).	Mandatory
28530	Class Reg	Junior Dragster	Driver / Rider	A/JD	If A/JD, then for drivers between the ages of 13 and 18 years, limited to ET no quicker than 7.90 seconds and Top Speed no faster than 89.99 mph (144kph).	Mandatory
28540	Class Reg	Junior Dragster	Driver / Rider	B/JD	If B/JD, then for drivers between the ages of 11 and 18 years, limited to ET no quicker than 8.50 seconds and Top Speed no faster than 80 mph (128 kph)	Mandatory

28550	Class Reg	Junior Dragster	Driver / Rider	C/JD	If C/JD, then for drivers between the ages of 8 and 10 years inclusive, limited to ET no quicker than 11.90 seconds and Top Speed no faster than 60mph (96kph)	Mandatory
28560	Class Reg	Junior Dragster	Driver / Rider	Safety Belt/Harness	Minimum 2 inch wide 5 point harness meeting SFI 16.1 or 16.2 or FIA equivalent minimum. No older than 10 years from date of manufacture or 5 years from expiry date.	Mandatory
28570	Class Reg	Junior Dragster	Driver / Rider	Helmet	Open faced with shield or goggles.	Allowed
28580	Class Reg	Junior Dragster	Driver / Rider	Helmet	AS/NZS 1698:2006 or AS/NZS 1698.	Forbidden
28590	Class Reg	Junior Dragster	Driver / Rider	Helmet	Junior competition and SFI 24.1.	Allowed
28600	Class Reg	Junior Dragster	Driver / Rider	Helmet	<a href="https://ihra.com.au/helmets.html">https://ihra.com.au/helmets.html</a>	Mandatory
28605	Class Reg	Junior Dragster	Driver / Rider	Frontal Head restraint	All Junior Dragster categories AA/JD, A/JD, B/JD and C/D competitors will be required to wear a head and neck restraint/system meeting SFI 38.1. The device/system must be commercially produced by a manufacturer in the SFI 38.1 head and neck restraint program. The head and neck restraint device/system, when connected, must conform to the manufacturer's mounting instructions, and it must be configured, maintained, and used in accordance with the manufacturer's instructions.	Mandatory
28610	Class Reg	Junior Dragster	Driver / Rider	Neck collar	A head and neck restraint device/system may be used with or without a neck collar. If the device/system is used without a neck collar, a head sock/balaclava or skirted helmet.	Mandatory
28620	Class Reg	Junior Dragster	Driver / Rider	Protective clothing	Fire resistant clothing and footwear.	Mandatory
28630	Class Reg	Junior Dragster	Driver / Rider	Protective clothing - driving suit	Driving suit at least SFI 3.2A/1 or FIA 8856.	Mandatory
28640	Class Reg	Junior Dragster	Driver / Rider	Protective clothing	Fire resistant shoes, socks and gloves	Mandatory
28650	Class Reg	Junior Dragster	Drivetrain	Driveline	Belt drive or chain.	Mandatory
28660	Class Reg	Junior Dragster	Drivetrain	Driveline	Torque converter belt assembly.	Allowed
28670	Class Reg	Junior Dragster	Drivetrain	Chain/belt guard	At least as wide as the chain or belt and covers the top of the chain or belt.	Mandatory
28680	Class Reg	Junior Dragster	Drivetrain	Chain/belt guard	Covers top of chain and belt runs.	Mandatory
28690	Class Reg	Junior Dragster	Drivetrain	Chain/belt guard	Metal and at least 1/8 inch (3.0 mm) thick.	Mandatory
28700	Class Reg	Junior Dragster	Drivetrain	Driveline - clutch	Dry, centrifugal type.	Mandatory
28710	Class Reg	Junior Dragster	Drivetrain	Transmission	Gear type transmission.	Forbidden
28720	Class Reg	Junior Dragster	Electrical	Delay device	Any	Forbidden
28730	Class Reg	Junior Dragster	Engine	Engine	Accepted by IHRA or NHRA and 4-stroke, single cylinder, side valve. All requests for the use of a different engine configuration must be approved by IHRA Australia.	Mandatory
28735	Class Reg	Junior Dragster	Engine	Engine	OHC style engine acceptable for use in C/JD only	Allowed
28740	Class Reg	Junior Dragster	Engine	Engine - Location	Crankshaft centreline maximum 21 inches (533.4 mm) above ground, measured when tyres are inflated normally.	Mandatory
28750	Class Reg	Junior Dragster	Engine	Engine - location	Forward of centreline for rear axle.	Mandatory

28760	Class Reg	Junior Dragster	Engine	Engine - modifications	Modifications any.	Allowed
28770	Class Reg	Junior Dragster	Engine	Induction	All EFI fuel lines (including gauge and/or data recorder lines) must be metallic, steel-braided, or IHRA-accepted woven or woven-pushlock.	Mandatory
28780	Class Reg	Junior Dragster	Engine	Silencers/mufflers	Silencer or Muffler optional	Allowed
28790	Class Reg	Junior Dragster	Engine	Silencers/mufflers	Muffler optional	Allowed
28810	Class Reg	Junior Dragster	Engine	Fuel Grade	Petrol, ethanol or methanol	Mandatory
28820	Class Reg	Junior Dragster	Engine	Induction	Fuel injection permitted. Electronic fuel injection must be a "closed" system (ie, monitors only engine functions and does not monitor vehicle speed, wheel speed). Pressurized fuel system permitted. Maximum capacity of fuel tank or cell, 3 gallons. Fuel tank / cell must be equipped with a screw-on or positive locking cap. All vents must be routed downwards and away from driver. Open holes in fuel tank/cell prohibited.	Allowed
28830	Class Reg	Junior Dragster	Engine	Induction	Supercharging.	Forbidden
28840	Class Reg	Junior Dragster	Engine	Throttle	Electronics, pneumatics, hydraulics or any other device activates or affects throttle operation.	Forbidden
28850	Class Reg	Junior Dragster	Interior	Seat	Seat is correctly supported and braced.	Mandatory
28860	Class Reg	Junior Dragster	Interior	Seat	Seat is aluminium or fibreglass.	Mandatory
28870	Class Reg	Junior Dragster	Interior	Upholstery	Loose objects between the driver and the race seat are forbidden. Note - Objects such as pillows, loose foam etc. may not be used to raise the driver for better vision out of the cockpit.	Mandatory
28880	Class Reg	Junior Dragster	Support Group	Crew Member	If Junior Dragster and aged between 8 and 16 years, then supervised by an adult crew member	Mandatory
28890	Class Reg	Junior Dragster	Support Group	Crew Member	If parent/legal guardian, then IHRA (Aust) Member or Associate Member.	Mandatory
28900	Class Reg	Junior Dragster	Vehicle	Controls - earthing device	Driver able to operate.	Mandatory
28910	Class Reg	Junior Dragster	Vehicle	Controls - earthing device	Via mechanical, high-tension earthing device.	Mandatory
28920	Class Reg	Junior Dragster	Vehicle	Controls - ignition kill switch	At the top of the deflector plate, between the driver and the engine, there is a second switch to switch off ignition.	Mandatory
28930	Class Reg	Junior Dragster	Vehicle	Controls - ignition shut off	Positive and able to be reached by driver.	Mandatory
28940	Class Reg	Junior Dragster	Vehicle	Controls	Throttle and brake, operated by foot. Positive throttle return spring in use.	Mandatory
28950	Class Reg	Junior Dragster	Vehicle	Minimum weight	225 lbs (102 kg) not including driver and apparel	Mandatory
28960	Class Reg	Junior Dragster	Vehicle	Wheelbase	At least 90 inches (2286 mm).	Mandatory
28970	Class Reg	Junior Dragster	Vehicle	Wheelbase	No more than 150 inches (3810 mm).	Mandatory
28980	Class Reg	Junior Dragster		Racing Procedure	Competitors between the ages of 8 and 18 inclusive, racing half scale dragsters.	Mandatory
28990	Class Reg	Junior Dragster		Racing Procedure - Start	Full tree - dial your own index	Mandatory
28995	Class Reg	Junior Dragster	Vehicle	Racing Procedure - Pushback	Once the competitor has completely gone through / past the water box, the crew may only push the vehicle back once before moving forward to go into stage. If this rule is breached in qualifying your run will not count, if racing then disqualification. <b>Example: Burnout/dryhop then 1 pushback, then dry hop then move forward into stage.</b>	Mandatory

28997	Class Reg	Junior Dragster			If AA/JD, and during qualifying, then ET quicker than 7.60 seconds but no quicker than 7.50 seconds permitted, and then only once per event	Mandatory
					If AA/JD, and during racing, then ET quicker than 7.60 seconds will be disqualified.	
29000	Class Reg	Junior Dragster			If A/JD, and during qualifying, then ET quicker than 7.90 seconds but no quicker than 7.80 seconds permitted, and then only once per event.	Mandatory
29001	Class Reg	Junior Dragster		Racing Procedure	If A/JD, and during racing, then ET quicker than 7.90 seconds will be disqualified.	Mandatory
29005	Class Reg	Junior Dragster		Racing Procedure	All junior competition to be completed by 10.00pm	Mandatory
29010	Class Reg	Junior Dragster		Racing Procedure	Race distance 1/8 Mile.	Mandatory
29020	Class Reg	Junior Dragster			If B/JD, and during qualifying, then ET quicker than 8.50 seconds but no quicker than 8.40 seconds permitted, and then only once per event.	Mandatory
29021	Class Reg	Junior Dragster		Racing Procedure	If B/JD, and during racing, then ET quicker than 8.50 seconds will be disqualified.	Mandatory
29030	Class Reg	Junior Dragster			If C/JD, and during qualifying, then ET quicker than 11.90 seconds but no quicker than 11.80 seconds permitted, and then only once per event.	Mandatory
29031	Class Reg	Junior Dragster		Racing Procedure	If C/JD, and during racing, then ET quicker than 11.90 seconds will be disqualified.	Mandatory
29040	Class Reg	Junior Dragster			Only qualifying times not quicker than 8.00 seconds for A/JD, 8.60 for B/JD, and 12.00 for C/JD, are valid for the purpose of seeding.	Mandatory
29041	Class Reg	Junior Dragster			For Championship Events, top qualifier will be the competitor that achieves a time closest to their qualifying class limit (without breaking out) this qualifying method will continue throughout the field. E.g. C/JD running a 12.01 second pass will qualify above an A/JD running 8.02 pass.	Mandatory
29046	Class Reg	Junior Dragster			If AA/JD then qualifying class limits is 7.70 seconds ET.	Mandatory
29042	Class Reg	Junior Dragster			If A/JD then qualifying class limits is 8.00 seconds ET.	Mandatory
29043	Class Reg	Junior Dragster			If B/JD then qualifying class limits is 8.60 seconds ET.	Mandatory
29044	Class Reg	Junior Dragster			If C/JD then qualifying class limits is 12.00 seconds ET.	Mandatory
29045	Class Reg	Junior Dragster			Lane choice will now be determined by qualifying position in the 1st round, then in rounds after that by the competitor who ran closest to their dial-in during the previous round of racing, without breaking out. In the case where both competitors have broken out, lane choice will be awarded to the competitor who broke out by the smallest margin.	Mandatory
29050	Class Reg	Junior Dragster			If parent/legal guardian fails to withdraw their racer from event due to exceeding ET cut-off limits, then racer is suspended for 2 meetings and parent/guardian fined \$1,000. After the event is completed, all run sheets will be checked and any team found to have breached this rule will be notified, and the racer will be removed from the racing results with a fine implemented.	Mandatory
29060	Class Reg	Junior Dragster			If cut-off limits exceeded, then racing points are forfeited.	Mandatory

29065	Class Reg	Junior Dragster		Racing Procedure	All C/JD drivers stepping up to B/JD, must complete 2 x 330ft runs to the satisfaction of an IHRA Steward and recorded on the Junior Dragster evaluation form. Must complete 4 x 660ft (Full passes) between 8.50 and 11.90 to the satisfaction of the IHRA Steward and recorded on the Junior Dragster evaluation form. All runs must be solo.	Mandatory
29070	Class Reg	Junior Dragster			All B/JD Drivers stepping up to A/JD, must complete 6 runs between 7.90 and 8.50 to the satisfaction of an IHRA Steward and recorded on Licence. Runs may be completed at separate events. All runs must be solo passes.	Mandatory
29071	Class Reg	Junior Dragster			If new driver licencing for A/JD Driver must be between 13 and 18 years of age and must complete 6 runs between 8.50 and 8.90 to the satisfaction of an IHRA Steward, to be recorded on race licence, may be conducted over series of events. After Initial sign off competitor must complete 6 runs between 7.90 and 8.50 to the satisfaction of an IHRA Steward before competing in competition. All runs to be solo passes.	Mandatory
29075	Class Reg	Junior Dragster		Racing Procedure	All New Drivers AA/JD-A/JD-B/JD - C/JD once completed JDDP ( Junior Dragster Driving Program) will undertake the following: 1. Track Orientation / Track Walk / Tow along Pass 2. Blindfold Test / Brake and shutdown procedure 3. 1x 60ft (stop) 4. 1 x 330ft (stop) 5. 4 x 660ft passes ET to be set by IHRA Steward and IHRA Rules 6. Each pass will require driver to come to a complete stop before exiting the racing surface. All passes must meet the satisfaction of an IHRA Steward and be recorded.	Mandatory
29080	Class Reg	Junior Dragster			Event run sheets checked after meeting to ensure compliance with ET cut-off limits.	Mandatory
29090	Class Reg	Junior Dragster			Paired runs with vehicles from any other racing bracket.	Forbidden
29100	Class Reg	Junior Dragster			Junior Dragster is for drivers between the ages of 8 and 18 inclusive. They race half scale dragsters under a dial your own handicap system running over 1/8 mile.	Information
29110	Class Reg	Junior Dragster			Bracket Designation /JD	Mandatory