



# PRO STOCK CAR

## CLASS REGULATIONS

Effective October 2024

Pro Stock is the highest development of naturally aspirated, street appearing, four seater sedans or coupes. Cars must use naturally aspirated V8 engines fitted with carburettors only

Engine sealing mandatory before competition

Pro Tree - Heads Up

The Sanctioning body reserves the right to administer weight break adjustments no later than 28 days prior to the next event.

11090	Class Reg	Pro Stock	Body	Body	Australian bodies modified in height and width to fit within limits set by IHRA	Allowed
11100	Class Reg	Pro Stock	Body	Body	OEM 4-seat coupe or sedan.	Mandatory
11110	Class Reg	Pro Stock	Body	Body	Body 1986 or later.	Mandatory
11120	Class Reg	Pro Stock	Body	Body	Distance from nose to B-post is in the range (OEM distance - 1 inch) to (OEM +6 inches).	Mandatory
11130	Class Reg	Pro Stock	Body	Body	Body must comply with NHRA Pro Stock 'spec'.	Allowed
11135	Class Reg	Pro Stock	Engine	Component Sealing	All engines must have IHRA varification and sealing before competition.	Mandatory
11140	Class Reg	Pro Stock	Body	Aerodynamic devices	OEM for the body and OEM location.	Allowed
11150	Class Reg	Pro Stock	Body	Airfoils	Airfoils	Forbidden
11160	Class Reg	Pro Stock	Body	Bonnet scoops - height	Bonnet scoop heights no more than 250 mm (10 inches).	Mandatory
11170	Class Reg	Pro Stock	Body	Bumpers - front and rear	Front and Rear bumpers OEM with over-riders or fibreglass replicas with correct bracing.	Mandatory
11180	Class Reg	Pro Stock	Body	Doors	Doors allow exit and entry from both sides of vehicle.	Mandatory
11190	Class Reg	Pro Stock	Body	Doors	Minimum of two functioning doors required.	Mandatory
11210	Class Reg	Pro Stock	Body	Firewall	Firewall can be moved rearward, to install engine.	Allowed
11220	Class Reg	Pro Stock	Body	Firewall	Firewall replacement thickness at least 0.6 mm (0.024 inch) steel or 0.8 mm (0.032 inch) aluminium.	Mandatory
11230	Class Reg	Pro Stock	Body	Floors - location	Floors must be in stock location.	Mandatory
11240	Class Reg	Pro Stock	Body	Floor	Floor must be mounted above the driveline, chassis and frame.	Mandatory
11250	Class Reg	Pro Stock	Body	Floor - driveline tunnel	Rear section of driveline tunnel raised, in order to achieve correct suspension clearance.	Allowed
11260	Class Reg	Pro Stock	Body	Floor	Floor material is steel or aluminium at least 1.00 mm (0.040 inch) thick.	Allowed
11270	Class Reg	Pro Stock	Body	Body - front end	Cowl area lengthened to permit accepted modifications to wheelbase or body relocation.	Allowed
11280	Class Reg	Pro Stock	Body	Body - front overhang	45 inches (1145 mm) or if 2001 or earlier, then up to the greater of OEM or 45 inches (1145 mm).	Allowed

11285	Class Reg	Pro Stock	Body	Splitter	Splitter must attach to the lower front fascia. Splitter must be constructed of aluminium, steel, stainless steel or carbon fibre with a minimum thickness of .050 inch (1.27mm) and a maximum thickness of .060 inch (1.5mm). Any additional lips or flanges prohibited. Splitter must be flat and parallel to the front lip. The 3/8 inch (10mm) lip in the front will not be included in the front overhang measurement.	Mandatory
11290	Class Reg	Pro Stock	Body	Grille	Grill - Airflow through is prevented using a cover at the back.	Allowed
11300	Class Reg	Pro Stock	Body	Grille	Grill can be seen from front of vehicle.	Mandatory
11310	Class Reg	Pro Stock	Body	Grille	Grill visually equivalent to the OEM production type for the body in use.	Mandatory
11320	Class Reg	Pro Stock	Body	Grille	Gill painted or replica to match the OEM.	Allowed
11330	Class Reg	Pro Stock	Body	Lights - headlights	Headlights painted on or adhesive (simulated)	Allowed
11340	Class Reg	Pro Stock	Body	Lights - front	Front light facsimile, if no more than half of the face of the head lamp is visible from in front of the vehicle.	Allowed
11350	Class Reg	Pro Stock	Body	Fender splash pans (inner front guards)	Fender splash pans (inner front guards) may be removed.	Allowed
11360	Class Reg	Pro Stock	Body	Body - mounts	Body mounts not adjustable	Mandatory
11370	Class Reg	Pro Stock	Body	Body - Panels	Fiberglass, composite or other lightweight replicating OEM body panel.	Allowed
11380	Class Reg	Pro Stock	Body	Body - shell	Composite or fibreglass body replacement, or OEM composite or steel, in correct dimensions.	Mandatory
11390	Class Reg	Pro Stock	Body	Spoilers - rear - fabricated	Rear Spoiler length from body line to spoiler transition point to tip is up to 355 mm (14 inches).	Allowed
11395	Class Reg	Pro Stock	Body	Spoilers-rear-wicker bill	A 90- Degree Wicker Bill is mandatory across the full width of the spoiler. Minimum Wicker Bill height is a 1/2 inch (12.7) mm. This measurement will be taken on the inside of the wicker bill. Wicker Bill must be constructed of carbon fibre, aluminium, steel or stainless steel with a minimum thickness of .050 inch. Wicker Bill must be non adjustable and permanently attached to the rear of the spoiler, so it remains 90 degrees to the spoiler at all times during the run. Height of the Wicker Bill is not included in the total length of the spoiler measurement.	Mandatory
11400	Class Reg	Pro Stock	Body	Spoilers - rear - fabricated	Rear Spoiler moulded into rear deck.	Forbidden
11410	Class Reg	Pro Stock	Body	Spoilers	Rear spoiler not moved or adjusted during run.	Mandatory
11420	Class Reg	Pro Stock	Body	Spoilers	Rear spoiler mounted on roof.	Forbidden
11430	Class Reg	Pro Stock	Body	Spoilers	Rear spoiler must be no lower than horizontal	Mandatory
11440	Class Reg	Pro Stock	Body	Spoilers	Rear spoiler painted such that they match the paint scheme.	Mandatory
11450	Class Reg	Pro Stock	Body	Spill plates	Spill plates overall height less than 150 mm (6 inches).	Mandatory
11460	Class Reg	Pro Stock	Body	Spill plates	Spill plates no more than 25 mm (1 inch) extends above top of spoiler.	Mandatory
11470	Class Reg	Pro Stock	Body	Windows	Windows replaced with clear, colourless, fixed polycarbonate, at least 3 mm (1/8 inch) thickness.	Allowed
11500	Class Reg	Pro Stock	Body	Windshield	OEM windshield or exact replica and installed with factory-type moulding.	Mandatory
11510	Class Reg	Pro Stock	Body	Windshield	Windshield colourless, clear polycarbonate, at least 3 mm (1/8 inch) thickness.	Mandatory

11520	Class Reg	Pro Stock	Chassis / Frame	Chassis	Pro Stock chassis, then recommended to comply with SFI 25.1D or later version. New chassis builds recommended to comply to SFI 25.1H	Information
11530	Class Reg	Pro Stock	Chassis / Frame	Ballast	Ballast if removable, then not more than 90.7 kg (200 lbs).	Mandatory
11540	Class Reg	Pro Stock	Chassis / Frame	Brakes - Lines	Brake lines in the flywheel and driveline area, protection is installed.	Mandatory
11550	Class Reg	Pro Stock	Chassis / Frame	Brakes	Hydraulics brakes on all four wheels.	Mandatory
11560	Class Reg	Pro Stock	Chassis / Frame	Frame	To install roll cage, or increase strength, members are added.	Allowed
11580	Class Reg	Pro Stock	Chassis / Frame	Frame	Any correctly reinforced frame can be replaced from radiator to rear of vehicle.	Allowed
11600	Class Reg	Pro Stock	Chassis / Frame	Steering - Position	Steering OEM position required.	Mandatory
11610	Class Reg	Pro Stock	Chassis / Frame	Steering - Type	Automotive steering type.	Mandatory
11620	Class Reg	Pro Stock	Chassis / Frame	Steering	Steering - Rack and pinion.	Allowed
11640	Class Reg	Pro Stock	Chassis / Frame	Suspension - Shock/strut	Shock struts - Changes to settings including adaptive or closed loop control during the run.	Forbidden
11650	Class Reg	Pro Stock	Chassis / Frame	Suspension - Shock/strut	Shock struts - All adjustment settings pre-set prior to run and hydraulic, pneumatic or electrically controlled.	Allowed
11660	Class Reg	Pro Stock	Chassis / Frame	Suspension - Shock/strut	No more than one connection from shock or strut controller to top of shock or strut and cable is shielded, three-wire.	Mandatory
11670	Class Reg	Pro Stock	Chassis / Frame	Suspension - Shock/strut	No more than 3 air lines connected to an air bottle, at bottom of strut/shock.	Allowed
11680	Class Reg	Pro Stock	Chassis / Frame	Suspension - Shock/strut - control box	Control box - If fitted and has connection for travel sensors, then pin/s removed from connector to prevent data Communications.	Mandatory
11690	Class Reg	Pro Stock	Chassis / Frame	Suspension - Shock/strut - control box	Control box - When the vehicle is in the hands of the Starter, it is not connected to the serial port.	Mandatory
11700	Class Reg	Pro Stock	Chassis / Frame	Suspension - Shock/strut - control box	Control box - Wiring is visible and easily traceable.	Mandatory
11710	Class Reg	Pro Stock	Chassis / Frame	Suspension - Shock/strut - control box	IHRA approved and include 'old' Koni, 'Koni/MSD', 'Koni/Ness' and 'Koni/JBRC	Mandatory
11720	Class Reg	Pro Stock	Chassis / Frame	Suspension - Travel Sensor	Suspension travel sensors - If fitted, then connected only to data logger.	Mandatory
11730	Class Reg	Pro Stock	Chassis / Frame	Suspension	Suspension - Complete, automotive, production type.	Mandatory
11740	Class Reg	Pro Stock	Chassis / Frame	Suspension	A minimum of one, operable, hydraulic shock absorber per wheel.	Mandatory
11745	Class Reg	Pro Stock	Chassis / Frame	Suspension	The use of Inertia shock absorbers, not permitted.	Mandatory
11746	Class Reg	Pro Stock	Chassis / Frame	Suspension	The use of Air bag dumps.	Forbidden
11750	Class Reg	Pro Stock	Chassis / Frame	Suspension	Suspension may be fabricated.	Allowed
11760	Class Reg	Pro Stock	Chassis / Frame	Suspension	Over-lightening of stock components.	Forbidden
11770	Class Reg	Pro Stock	Chassis / Frame	Suspension	Any kind of active suspension prohibited	Mandatory
11780	Class Reg	Pro Stock	Driver / Rider	Arm restraints	In use.	Mandatory
11790	Class Reg	Pro Stock	Drivetrain	Driveline	Driveline may be narrowed.	Allowed
11800	Class Reg	Pro Stock	Drivetrain	Axle - rear	The use of any rear axle.	Allowed

11810	Class Reg	Pro Stock	Drivetrain	Driveline	Distance from edge of rear guards to the outer edge of rear tyres is up to 150 mm (6 inches).	Allowed
11820	Class Reg	Pro Stock	Drivetrain	Driveline	Spools.	Allowed
11830	Class Reg	Pro Stock	Drivetrain	Clutch- throw-out bearing	Releases all levers, fingers or stages at the same time.	Mandatory
11840	Class Reg	Pro Stock	Drivetrain	Clutch	Clutch - Manual operation, as a function of the driver's foot.	Mandatory
11850	Class Reg	Pro Stock	Drivetrain	Clutch	Clutch - Not affected by any device, including pneumatics, hydraulics or electronics.	Mandatory
11860	Class Reg	Pro Stock	Drivetrain	Clutch	Clutch - Lock up or multistage.	Forbidden
11870	Class Reg	Pro Stock	Drivetrain	Clutch	Clutch - Variable release or staged.	Forbidden
11880	Class Reg	Pro Stock	Drivetrain		4 Wheel Drive	Forbidden
11890	Class Reg	Pro Stock	Drivetrain	Driveline	Driveline - Fabricated or modified.	Allowed
11900	Class Reg	Pro Stock	Drivetrain	Driveline	If driveline passes the driver's body, it must be enclosed in material at least as strong as CM4130 which is 1.27 mm (0.050 inch) thick, or steel plate which is 3 mm (1/8 inch) thick and be mounted securely to frame structure or frame.	Mandatory
11910	Class Reg	Pro Stock	Drivetrain	Driveline	Driveline protection - Length of at least 305 mm (12 inches) and covering front universal joint.	Mandatory
11920	Class Reg	Pro Stock	Drivetrain	Transmission	4WD.	Forbidden
11930	Class Reg	Pro Stock	Drivetrain	Transmission	Transmission - Up to five forward speeds.	Allowed
11940	Class Reg	Pro Stock	Drivetrain	Transmission - gears	Transmission - Reverse gear, operable.	Mandatory
11950	Class Reg	Pro Stock	Drivetrain	Transmission - gears	Pneumatic, automated timer type, hydraulic shifting, electric or electronic.	Forbidden
11960	Class Reg	Pro Stock	Drivetrain	Transmission	Driver manually activates each shift.	Mandatory
11970	Class Reg	Pro Stock	Drivetrain	Transmission	Data logging of input shaft and wiring via bellhousing.	Allowed
11980	Class Reg	Pro Stock	Electrical	Charging system	Alternator / Charging system installed.	Allowed
11990	Class Reg	Pro Stock	Electrical	Delay device	Any type of delay device prohibited.	Mandatory
12000	Class Reg	Pro Stock	Engine	Engine	Engine - Up to 401.00 cubic inches, using OEM bore spacing.	Mandatory
12005	Class Reg	Pro Stock	Vehicle	Vehicle Weight	Minimum weight, race ready including driver 2250 lbs (1020.58 kg). Minimum rear weight 1060 lbs (480.80kg).	Mandatory
12006	Class Reg	Pro Stock	Engine	Configuration	Supercharged, Turbocharged, Nitrous Oxide Injection	Forbidden
12010	Class Reg	Pro Stock	Engine	Radiator	Any radiator may be used.	Mandatory
12020	Class Reg	Pro Stock	Engine	Radiator	Radiator to be mounted behind grille and in front of the engine.	Mandatory
12030	Class Reg	Pro Stock	Engine	Water pump	Operable water pump - Electrically-driven stock pump.	Mandatory
12050	Class Reg	Pro Stock	Engine	Engine - block	Engine block cast iron only.	Mandatory
12060	Class Reg	Pro Stock	Engine	Engine - block	Engine block - Make is decided according to the layout of cylinder head bolt and the cylinder spacing (for example, Chevrolet 4.400", Ford 4.380" and Chrysler 4.460"). Head stud sizes may be changed. Head studs may be moved to no more than a maximum of .040" from OEM specifications.	Mandatory
12065	Class Reg	Pro Stock	Engine	Engine - block	IHRA Australia will be providing a Template / Gasket to enforce the .040" limit rule	Mandatory
12070	Class Reg	Pro Stock	Engine	Engine - block	Machining of the block, in order to achieve further setback	Forbidden

12080	Class Reg	Pro Stock	Engine	Cylinder heads	Aftermarket cylinder heads.	Allowed
12090	Class Reg	Pro Stock	Engine	Cylinder heads	Cylinder heads up to 2 valves per cylinder.	Allowed
12100	Class Reg	Pro Stock	Engine	Exhaust	Any exhaust system.	Allowed
12110	Class Reg	Pro Stock	Engine	Exhaust	All exhaust gases must be directed down and outwards and terminate below the sill panel level.	Mandatory
12120	Class Reg	Pro Stock	Engine	Exhaust	Open exhaust with extractors or headers.	Allowed
12130	Class Reg	Pro Stock	Engine	Exhaust	Open outlets limited to 4 inches (100 mm).	Mandatory
12140	Class Reg	Pro Stock	Engine	Exhaust	External exhaust which detracts from stock appearance.	Forbidden
12150	Class Reg	Pro Stock	Engine	Exhaust	Exhaust gases are directed outwards and down and stop beneath the level of the sill panel.	Mandatory
12160	Class Reg	Pro Stock	Engine	Exhaust	Exhaust if external and detract from OEM appearance of vehicle.	Forbidden
12170	Class Reg	Pro Stock	Engine	Exhaust	Exhaust collector open outlets and diameter maximum 100 mm (4 inches).	Mandatory
12180	Class Reg	Pro Stock	Engine	Exhaust - system	Extractors or open exhaust with headers.	Allowed
12190	Class Reg	Pro Stock	Engine	Carburettor	Carburettor - Up to 8 venturis.	Allowed
12200	Class Reg	Pro Stock	Engine	Carburettor	Carburettor - Any combination.	Allowed
12210	Class Reg	Pro Stock	Engine	Fuel system - fuel tank	Fabricated fuel tank or correctly installed fuel cell to replace the OEM tank, fitted in the front or rear of the vehicle.	Allowed
12220	Class Reg	Pro Stock	Engine	Fuel system - filler neck	Filler neck ventilation to vehicle exterior if filler neck is moved to the boot.	Mandatory
12230	Class Reg	Pro Stock	Engine	Fuel system - filler neck	Pressure cap installed on tank if filler neck is moved to the boot.	Mandatory
12240	Class Reg	Pro Stock	Engine	Fuel system - filler neck	Installation of a firewall to isolate the boot from the driver's compartment, when the filler neck is moved to the boot.	Mandatory
12250	Class Reg	Pro Stock	Engine	Fuel system - tanks	Secondary fuel tanks.	Forbidden
12260	Class Reg	Pro Stock	Engine	Fuel Grade	Petrol, ethanol or methanol.	Mandatory
12265	Class Reg	Pro Stock	Engine	Fuel system	Cooling-can permitted, cooling medium to be water, ice, dry ice only. All cooling-cans must have a vent to atmosphere, pressurisation not permitted. The use of liquid nitrogen or refrigerating gas is prohibited.	Mandatory
12270	Class Reg	Pro Stock	Engine	Fuel system	Fuel system - Artificial heating	Forbidden
12290	Class Reg	Pro Stock	Engine	Fuel system	Circulating fuel systems which are not part of the main fuel pump system.	Forbidden
12300	Class Reg	Pro Stock	Engine	Engine - setback	Engine setback - At least 81.5 inches (2160 mm) between engine block rear face and rear axle centreline.	Mandatory
12310	Class Reg	Pro Stock	Engine	Body / engine	Relationship between engine and body manufacturer is recognisable.	Mandatory
12320	Class Reg	Pro Stock	Engine	Engine	Automotive, internal combustion and reciprocating.	Mandatory
12330	Class Reg	Pro Stock	Engine	Engine	Naturally aspirated, single camshaft, pushrod and 90-degree V8.	Mandatory
12340	Class Reg	Pro Stock	Interior	Dashboard	Dashboard - Original appearance.	Mandatory
12350	Class Reg	Pro Stock	Interior	Dashboard	Dashboard - Replica of fibreglass or composite.	Allowed

12360	Class Reg	Pro Stock	Interior	Dashboard	Dashboard - Simulated or painted in gauges.	Allowed
12370	Class Reg	Pro Stock	Interior	Upholstery - headliner	Headliner - Painted finish minimum.	Mandatory
12390	Class Reg	Pro Stock	Interior	Upholstery	Upholstery	Allowed
12400	Class Reg	Pro Stock	Vehicle	Driver Position	Driver position - Right or left hand drive	Allowed
12410	Class Reg	Pro Stock	Vehicle	Driver - position	Distance from where the shoulder harness passes through the backrest to the rear axle centreline, is more than 559 mm (22 inches).	Mandatory
12420	Class Reg	Pro Stock	Vehicle	FWD	If originally FWD, then, to be able to install the engine, the front wheels are moved forward, up to 125 mm (5 inches).	Allowed
12430	Class Reg	Pro Stock	Vehicle	Lights - rear	Tail lights operable	Mandatory
12440	Class Reg	Pro Stock	Vehicle	Parachute	Dual Parachute shroud attachment points utilising one times 1/2Inch bolt minimum and a one times 1" Bush per shroud line attachment.	Mandatory
12450	Class Reg	Pro Stock	Vehicle	Street equipment	Removed and vehicle external appearance not affected.	Allowed
12460	Class Reg	Pro Stock	Vehicle	Street equipment	Tail and head lights remain.	Mandatory
12470	Class Reg	Pro Stock	Vehicle	Wheelbase	If greater than 2667 mm (105 inches) and RWD, then OEM wheelbase +/- 25 mm (1 inch).	Mandatory
12480	Class Reg	Pro Stock	Vehicle	Wheelbase	If less than 2667 mm (105 inches) and RWD and in order to install the engine, front wheels are moved up to 2 percent of OEM	Allowed
12490	Class Reg	Pro Stock	Vehicle	Wheelbase	Wheelbase - At least 2540 mm (100 inches).	Mandatory
12500	Class Reg	Pro Stock	Vehicle	Wheelbase	If FWD, OEM plus or minus 50 mm (2 inches) and rear axle moved forward no more than 100 mm (4inches).	Allowed
12510	Class Reg	Pro Stock	Vehicle	Wheelbase - variation	The wheelbase variation from left to right is no more than 25 mm (1 inches).	Mandatory
12520	Class Reg	Pro Stock	Vehicle	Ignition	All vehicles must use a MSD Power Grid. IHRA Technical have testing equipment to verify your ignition.	Mandatory
12530	Class Reg	Pro Stock	Vehicle	Policy / Penalty	Any competitor in breach of using Traction Control Instant disqualification from the event and all points accumulated at the time of the breach will be forfeited. A \$15000.00 monetary penalty and a 2 year suspension will apply.	Mandatory
12540	Class Reg	Pro Stock	Engine	Policy / Penalty	Any competitor caught exceeding the .040" rule limit (Class Reg 12060) utilising the gasket / template as supplied by the IHRA Australia Technical department, carries the following penalty. Instant disqualification from the event and all points accumulated at the time of the breach will be forfeited. A \$15000.00 monetary penalty and a 2 year suspension will apply.	Mandatory
12550		Pro Stock	Protest	Policy / Penalty	Protest information available at <a href="https://www.ihra.com.au">https://www.ihra.com.au</a> (Competitor Information)	information
12560		Pro Stock		Policy	All competitors must complete and submit the Compliance Policy Declaration Document no later than 14 days before competition.	Mandatory