

# 2014 WCF RULEBOOK HOT ROD

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**Class Designation:** The class designation is: X/H

**General Safety:** All vehicles must conform with general IHRA safety rules.

**Body:** Must have an import body or a domestic sport compact body. Any year vehicle is allowed. Lightweight components are limited to hood, front fenders, decklid, hatches, sunroofs, wings, ground effects, and bumpers only. Roof, and quarter panels must remain steel. One-piece front ends are permitted. No body parts may be removed during competition.

**Chassis:** Back-halved chassis from the firewall back are permitted (must retain stock firewall and front strut towers). Aftermarket "K" members are permitted on all cars. Mini tubs are allowed on all cars. Front core support may be modified or removed on all cars.

**Suspension:** All cars must utilize stock mounting points for front suspension in the stock location. Any type rear suspension is permitted. Aftermarket front and rear control arms, struts, and shocks are permitted. Bolt-on or welded sub-frame connectors and rear sway bars are permitted on all cars. Wheelie bars are permitted on 2-rotor and 4-cylinder cars only.

**Brakes:** All vehicles must utilize four wheel braking, secondary staging brakes, and split systems permitted. Electric vacuum pumps are only permitted for brake assist and must be solely connected to the brake booster alone.

**Lights:** Not required.

**Windows:** OEM glass or lexan windows are permitted.

**Interior:** Not required.

**Exhaust:** Muffler(s) are required unless vehicle is turbocharged.

**Electronics:** Two-steps, data loggers, aftermarket ECU's, and engine management systems are allowed.

**Driveline:** Aftermarket axles, ring and pinions, final drive, spools, and differentials are permitted.

**Transmission:** Any type transmission is permitted. Trans-brakes are permitted. Aftermarket bell housings are permitted.

**Clutch:** Any style clutch is permitted.

**Shifter:** Any style shifter is permitted. Strain gauges are permitted. Air shifters are prohibited.

**Fuel:** Gasoline, ethanol, or methanol is permitted.

**Fuel System:** Electric or mechanical fuel pumps are permitted. Aftermarket fuel cells are permitted and may be mounted anywhere in vehicle.

**Oiling System:** Dry sump oil system is permitted.

**Engine Containment Device:** Engine diaper or catch pan device to capture oil and/or debris in the event of engine and/or transmission failure mandatory. Where exhaust header passes directly under oil pan, a two piece diaper may be utilized. If a catch pan device is used, catch pan must employ minimum 2 inch high lips on all sides. Notching of the pan is prohibited, as it must be 2" high on all sides. All lips must have a continuous weld or a bend in the metal along seams and corners so fluids cannot escape (you cannot bolt or pop rivet lips on pans for oil to escape). Lips must be covered or curved inward, so as to contain oil in pan. Catch pan must cover entire area below the engine/transmission. Catch pan must extend from radiator support to firewall and from frame rail to frame rail. In all cases, lips must be adequate enough to contain oil in the catch pan. Should a competitor spill excessive oil from the catch pan and debris onto the track, he or she may be disqualified from further competition at the sole and absolute discretion of the event director until the catch pan is upgraded, regardless of the height of pan lips or pan design.

**Engine:** Engine must be of import origin or domestic sport compact origin. Any internal engine modifications are permitted. Motor swaps of same manufacturer or different manufacturers are allowed as long as they meet weight requirements. Aftermarket blocks are permitted.

**Turbochargers:** Turbochargers are measured at the inducer wheel where the leading edge of the inducer wheel meets the housing.

**Nitrous Oxide:** Any style nitrous oxide system is permitted.

**Intercooling:** Liquid intercoolers and air intercoolers are permitted. Water injection is permitted. Methanol injection is permitted, but must be injected into the charge pipes before the throttle body.

**Induction:** EFI or carburetors are permitted. Any style intake is permitted.

**Tires:** All tires are checked by sidewall designation. See slick and DOT bias ply tire size restrictions below. Any size DOT radial tire is permitted, except 315/60/15, 325/50/15, 295/55/15, or 295/60/15.

FWD: Maximum size slick or DOT bias ply tire is 28.0" x 10.5W"

AWD: Maximum size slick or DOT bias ply tire is 28.0" x 10.5W"

RWD: Maximum size slick or DOT bias ply tire is 28.0" x 10.5W"

Engine	Driveline	Transmission	Maximum Turbocharger	Nitrous Oxide	Car & Driver Minimum Weight
2-rotor	RWD	Manual or Auto	94.9 mm single	Nitrous Prohibited	2100 lbs.

\* Cars equipped with 26" tall rear tires: Deduct 100 lbs.

Engine	Driveline	Transmission	Maximum Turbocharger	Nitrous Oxide	Car & Driver Minimum Weight
3-rotor	RWD	Manual or Auto	94.9 mm single	Nitrous Prohibited	2400 lbs.
3-rotor	RWD	Manual or Auto	No Restrictions	Nitrous Prohibited	2500 lbs.

Engine	Driveline	Transmission	Maximum Turbocharger	Nitrous Oxide	Car & Driver Minimum Weight
4-cylinder	FWD	Manual or Auto	94.9 mm single	Nitrous ok	1900 lbs.
4-cylinder	AWD	Manual or Auto	94.9 mm single	Nitrous ok	2200 lbs.
4-cylinder	RWD	Manual or Auto	94.9 mm single	Nitrous ok	2200 lbs.

Engine	Driveline	Transmission	Maximum Turbocharger	Nitrous Oxide	Car & Driver Minimum Weight
6-cylinder	FWD	Manual or Auto	94.9 mm single	Nitrous ok	1900 lbs.
6-cylinder	AWD	Manual or Auto	94.9 mm single	Nitrous ok	2400 lbs.
6-cylinder	AWD	Manual or Auto	67.9 mm twins	Nitrous ok	2400 lbs.
6-cylinder	RWD	Manual or Auto	88.9 mm single	Nitrous ok	2800 lbs.
6-cylinder	RWD	Manual or Auto	94.9 mm single	Nitrous ok	2900 lbs.
6-cylinder	RWD	Manual or Auto	98.9 mm single	Nitrous Prohibited	2900 lbs.
6-cylinder	RWD	Manual or Auto	67.9 mm twins	Nitrous ok	2900 lbs.

\* Cars with aluminum block: Deduct 100 lbs.

\* IRS to straight axle conversions: Add 100 lbs.