

# WESTERN AUSTRALIA SPEEDWAY COUNCIL INC.

## HORNET CLASS SPECIFICATIONS (VER. 1.0)



### CONTENTS

1. GENERAL
2. ELIGIBLE MODELS
3. INTERIOR
4. ENGINE COMPARTMENT
5. BODY
6. SUSPENSION
7. COOLING SYSTEM
8. FUEL CELL
9. TYRES
10. SAFETY
11. ROLLCAGES
12. KILL SWITCH
13. SCATTERSHIELD
14. MIRRORS AND RADIO
15. STEERING WHEELS
16. BRAKES
17. NUMBERS

## **1. GENERAL**

THE SOLE INTENT OF THIS CLASS IS TO PROVIDE A LOW COST ENTRY LEVEL CLASS. THESE CARS ARE TO BE STRICTLY STOCK AND INTENDED TO STAY THAT WAY. ANY CHANGES AND THE CAR AND DRIVER WILL BE DISQUALIFIED FROM THE CLASS. OFFICIALS DECISIONS WILL BE FINAL. OFFICIALS WILL DEAL WITH DRIVERS ONLY. DRIVERS ARE RESPONSIBLE FOR THE CONDUCT OF HIS PIT CREW AND WILL BE PENALIZED FOR THEIR INAPPROPRIATE BEHAVIOR.

1. THE MINIMUM AGE OF THE DRIVER IS 16 YEARS OF AGE. ANY DRIVER UNDER THE AGE OF 18 MUST HAVE A RELEASE FORM SIGNED BY A PARENT/LEGAL GUARDIAN
- 2 .ALL CARS MUST BE SAFETY INSPECTED PRIOR TO BEING ALLOWED TO RACE. IF ANY CAR IS FOUND TO BE UNSAFE BY RACE OFFICIALS THAT CAR WILL NOT BE ALLOWED TO RACE UNTILL THE INFRACTION IS CORRECTED.
3. RANDOM CHECKS WILL BE DONE ON ANY NUMBER OF CARS. MOTOR TEARDOWNS MAY BE PERFORMED BY TRACK ON ANY CAR.
4. FULL RACEGEAR ,WINDOW NET, AND SEAT BELTS ARE MANDATORY AT ALL TIME ON THE TRACK.
5. NO ALCOHOLIC BEVERAGES MAY BE CONSUMED UNTILL ALL CLASSES OF CARS HAVE COMPLETED RACING. VIOLATION OF THIS RULE WILL RESULT IN DISQUALIFICATION AND/OR SUSPENSION.
6. NO UNSPORTSMAN LIKE DISPLAY OF TEMPER ON THE TRACK, INFIELD OR IN THE PITS AT ANYTIME.
7. PENALTIES: IF FOUND ILLEGAL, DRIVER WILL BE SUSPENDED FOR 12 MONTHS (AT TRACK'S DISCRETION).
8. RACECIEVERS ARE MANDATORY.
9. ANYTHING NOT COVERED IN THESE RULES OR THE GENERAL TRACK RULES WILL BE DECIDED BY TRACK OFFICIALS. OFFICIALS DECISIONS ARE FINAL.
10. RACING WILL BE IN BOTH DIRECTIONS.
11. RACING WILL BE RUN TO THE AASA & WESTERN AUSTRALIA SPEEDWAY COUNCIL RULEBOOK.

## **2. ELIGIBLE MODELS**

1. ANY 3 OR 4 CYLINDER UP TO 2.0 LITRES SOLD TO AUSTRALIAN DOMESTIC MARKET (ADM). LIST OF ELIGIBLE MODELS IS ATTACHED; IF NOT ON LIST PLEASE GET APPROVAL FROM TRACK.
2. FRONT WHEEL DRIVE ONLY.
3. WELDED DIFFS ALLOWED.
4. MUST BE NA ONLY, NO TURBOS OR SUPERHARGERS PERMITTED.
5. BODY SHAPES PERMITTED – SEDANS, COUPES, HATCHBACKS, WAGONS ARE PERMITTED. NO CONVERTABLES, VANS OR T TOPS.
6. BASE MODEL ONLY – NO SPORTS MODELS PERMITTED, NO ROTARYS PERMITTED.

## **3. INTERIOR**

1. STEERING AND PEDALS MUST REMAIN STOCK. DASH CAN BE REMOVED AND REPLACED WITH TUBING WELDED TO THE ROLL CAGE TO SUPPORT DASH AREA TO ACCOMMODATE GAUGES.
2. ALL AIR BAGS MUST BE REMOVED.
3. INTERIOR FLOOR PAN MUST BE COMPLETE. ONE 30MM DRAINAGE HOLE IN PAN ALLOWED.
4. ALLOY/ STEEL RACING SEATS ARE MANDATORY AND MUST BE FASTENED TO ROLL CAGE.
5. ALL INTERIORS MUST BE STRIPED OF ANY FLAMMABLE MATERIAL, ALL GLASS REMOVED, ALL HEADLIGHTS AND TAILLIGHTS REMOVED.

## **4. ENGINE COMPARTMENT**

1. THE ENGINE MUST REMAIN COMPLETELY STOCK FOR MAKE/MODEL/YEAR. ADM ONLY
2. STOCK TRANSMISSION.
3. STOCK HEADERS ONLY. EXHAUST PIPE MUST BE LEAK FREE AND RUN FROM ENGINE TO AN AREA BEHIND THE DRIVER, CATALYTIC CONVERTER CAN BE REMOVED, MAXIMUM 2 1/2" ID PIPING. ALL PIPES MUST BE SECURED THROUGH THE ENTIRE SYSTEM. NO PART OF THE EXHAUST SHALL BE IN THE DRIVERS COMPARTMENT, EXHAUST MUST EXIT OUT THE BACK OF CAR OR THE DRIVERS SIDE. MUFFLERS ARE MANDATORY.
4. BATTERY MUST BE IN STOCK LOCATION AND MUST BE SECURED IN A BATTERY BOX (STOCK OR AFTERMARKET) ALL TERMINALS MUST BE COVERED.
5. ALL INSULATION UNDER THE BONNET MUST BE REMOVED.
6. STOCK AIR INTAKE SYSTEM ONLY

## **5. BODY**

1. SUNROOF OPENINGS MUST BE CLOSED. MATERIAL MUST BE SAME THICKNESS AS REST OF ROOF AREA.
2. REMOVE ALL GLASS. BROKEN GLASS MUST BE REMOVED FROM INSIDE THE CAR BEFORE ARRIVING AT THE SPEEDWAY.
3. A 50MM X 50MM X 3MM MESH SCREEN MUST BE INSTALLED, TO REPLACE WINDSHIELD COVERING WHOLE FRONT AREA.
4. ALL DOORS MUST BE CHAINED TO FRAME OR WELDED SHUT.
5. BUMPERS MUST BE CHAINED TO FRAME. BUMPERS ARE TO BE STOCK OR SIMILAR APPEARANCE STOCK BUMPER.
6. BONNET AND BOOT MUST BE SECURED WITH HOOD PINS ONLY. ALL FACTORY BONNET AND BOOT LATCHES MUST BE REMOVED.
7. GUTTING OF DOOR PANELS TO ALLOW INSTALLATION OF ROLL CAGE IS ALLOWED. DOORS MUST MAINTAIN STOCK APPEARING CONFIGURATION.
8. ALL BODY PANELS MUST REMAIN STOCK
9. FLOOR BOARDS, FRONT AND REAR FIREWALLS MUST BE COMPLETE AND INTACT - NO HOLES ALLOWED
10. DECKING IS NOT ALLOWED.

## **6. SUSPENSION**

1. STEERING AND SUSPENSION MUST REMAIN STOCK. RIDE ATTITUDE MUST BE MAINTAINED.
2. 13MM CAMBER ALLOWED MEASURED WITH CARPENTER SQUARE.
3. NO SPRING RUBBERS, SPACERS, OR EXPANDERS ALLOWED.

## **7. COOLING SYSTEM**

- 1.--ANY RADIATOR ALLOWED WHICH WILL FIT IN THE STOCK MOUNTS.
2. RADIATOR MUST REMAIN IN STOCK POSITION AND BE FITTED WITH A PRESSURE RELEASE CAP.

## **8. FUEL CELLS**

1. IF GAS TANK IS AHEAD OF THE REAR AXLE, IT MAY REMAIN IN PLACE. TANK MUST BE COVERED WITH A 3MM SKID PLATE INSTALLED TO PROTECT TANK FROM BOTTOM.

2. IF THE GAS TANK IS BEHIND AXLE IT MUST BE REPLACED WITH A FUEL CELL (MAX. 20L.).

A) FUEL CELL MUST BE PROFESSIONAL METAL CONSTRUCTED. AN OUTBOARD BOAT TANK OR JERRY CAN ARE PERMITTED. MUST BE STRAPPED TO THE CAR AS SECURE AS POSSIBLE. NO PLASTIC TANKS.

A) MUST BE COVERED IN A HATCHBACK IN A METAL CASE.

B) FUEL CELLS ARE TO BE MOUNTED IN THE BOOT AREA AS CLOSE TO THE REAR SEAT AS POSSIBLE IN THE MIDDLE

C) ALL LINES RUNNING THROUGH THE CAR MUST USE CORRECT RATED MATERIAL AND ALSO GROMMETED IF PASSING THROUGH A FIRE WALL.

3. STANDARD ULP FUEL ONLY. NO ADDITIVES.

## **9. TYRES**

1. STANDARD ROAD TYRES WITH A MAXIMUM ASPECT RATIO OF 50,55,60,65,70, OR 75 ONLY. No SEMI COMP/ COMPETITION TYRES.

2. MAXIMUM RIM DIAMETER 15" AND SAME SIZE RIMS ON ALL 4 CORNERS. RIM WIDTH AS PER STOCK SIZING.

3. NO GROOVING, SIPING OR ANY CHEMICAL ALTERATION TO THE TYRES.

## **10. SAFETY**

1. HELEMTS ARE REQUIRED AND MUST BE A MINIMUM OF SNELL 2005 SA RATED. HELEMT MUST BE WORN AT ALL TIMES WHEN THE CAR IS ON THE TRACK, AND MUST ACCOMPANY THE VEHICLE AT TIME OF INSPECTION. THE HELEMT MUST HAVE A FACE SHIELD, WHICH MUST BE IN PLACE WHEN ON THE TRACK.

2. SHOULDER HARNESS, BELTS, RESTRAINTS, AND NETS. A 5 POINT COMPETION HARNESS AT LEAST 3" WIDE. BELTS MUST BE NO MORE THAN 5 YEARS OLD. WINDOW NETS WITH A QUICK RELEASE TYPE LATCH AT THE TOP IS MANDATORY.

3. ROLL BAR PADDING IS STONGLY RECOMMENDED.

4. A SINGLE LAYER RACE SUIT IS MANDATORY MEETING SFI 3.2A/1.

4. FIRE RETARDANT GLOVES, SHOES, BALACLAVA, NECK DONUT/ RESTRAINT, TOP AND BOTTOM UNDERWEAR, SOCKS. ALL RACEWEAR MUST HAVE SFI LABELLING MEETING SFI 3.3.

5. FIRE EXTINGUISHER REQUIRED. 2KG DRY POWDER EXTINGUISHER MOUNTED IN QUICK RELEASE BRACKET WITHIN REACH OF DRIVER. METAL BRACKETS ONLY, NO PLASTIC BRACKETS ALLOWED.

## 11. ROLL CAGES

1. MAIN CAGE MUST BE A MINIMUM OF mild steel, AS1450, minimum Gr300. MINIMUM 38mm O.D. x 3.0mm w.t. CHS. (Sonic test at not less than 2.70mm ABSOLUTE). " TUBING or NB32 MED 42mm O.D. x 3.0mm w.t. black pipe tubing.

3 DRIVER DOOR BARS ARE MANDATORY.(VENT BARS ARE ALSO MANDATORY) MUST CONSIST OF CONTINUOUS HOOPS SAME SPEC AS MAIN CAGE.

2. MUST BE FRAME-MOUNTED IN AT LEAST 6 PLACES.

3. MUST CONSIST OF A CONFIGURATION FRONT AND REAR HOOPS CONNECTED TUBING ON THE SIDES OR SIDE HOOPS IN A MANNER DEEMED ACCEPTABLE BY THE TECH INSPECTOR. DRIVERS HEAD MUST NOT PROTRUDE ABOVE THE CAGE WITH A HELEMT ON AND STRAPPED IN THE DRIVERS SEAT. ROLL CAGE MUST BE SECURELY SUPPORTED AND BRACED.

4. LOW-CARBON, MILD STEEL TUBING IS MANDATORY. NO IRON PIPE , GALVANISED OR SQUARE TUBING ALLOWED. NO BRAZING OR SOLDERING ALLOWED.

5. ROLL CAGE MUST HAVE A 5MM" INSPECTION HOLE IN A NON-CRITICAL AREA.

6. NASCAR SIDE DOOR BARS MUST BE AS PARALLEL WITH THE GROUND AS POSSIBLE AND LOCATED PERPENDICULAR TO THE DRIVER, SO AS TO PROVIDE MAXIMUM PROTECTION FOR THE DRIVER, BUT WITH OUT CAUSING UNDUE DIFFICULTY IN GETTING INTO OR OUT OF THE VEHICLE. THE SIDE BAR MUST BE WELDED TO THE FRONT AND REAR OF THE ROLL CAGE MEMBERS. NO BRAZING OR SOLDERING ALLOWED, AND MUST BE ATTACHED TO THE FRAME IN AT LEAST 4 PLACES.

ROLLCAGE PICTURE



## **12. KILL SWITCH**

1. A KILL SWITCH IS REQUIRED AND MUST BE WITHIN EASY REACH OF THE DRIVER WITH THE SHOULDER HARNESS AND LAP BELT FULLY CINCHED. THE SWITCH MUST BE CLEARLY MARKED "ON" AND "OFF"

## **13. SCATTER SHIELD**

1 . A METAL SHIELD IS HIGHLY RECCOMENDED IN THE PROTECTION OF CLUTCH EXPLOSION.

## **14. MIRRORS AND RADIOS**

1. NO MIRRORS OR TWO-WAY RADIOS OF ANY KIND ALLOWED AT ANY TIME.

## **15. STEERING WHEEL**

1. QUICK DISCONNECT STEERING WHEEL IS ALLOWED, AS LONG AS THE STEERING WHEEL STAYS LOCATED IN THE STOCK POSITION.

## **16. BRAKES**

1. ALL CARS MUST HAVE BRAKES ON ALL 4 WHEELS AND MUST BE IN WORKING ORDER

## **17. NUMBERS**

1. MINIMUM 600MM HIGH NUMBERS ON BOTH DOORS AND ROOF. MUST BE CONTRASTING IN COLOUR TO BODY COLOUR (I.E BLUE CAR WITH YELLOW NUMBERS)