

5TH CATEGORY - HISTORIC RACING

GROUP Nc

APPROVED VEHICLE SPECIFICATION

This form details specifications of models in the 5th car group. To be issued with an Historic Log Book, cars need to comply with these specifications, the physical appearance shown in the illustrations and the general historic rules as detailed in the current CAMS Manual of Motor Sport.

the approved individual vehicle Category Historic

Make of Car: Mazda **Model:** RX2

Period of Original Manufacture: 10/70 to 4/76

CAMS Historic Group: Nc

Date of Issue of this Document: 8th April 2004



SECTION 1 - CHASSIS

1.1 CHASSIS FRAME

Description: Unitary Construction **Period of Manufacture:**
10/70 to 4/76
Manufacturer: Toyo Kogyo
Chassis no. from: S122A >>
Chassis no. location:
Material: Steel
Comments:

1.2 FRONT SUSPENSION

Description: Independent -McPherson Strut
Spring medium: Coil
Damper Type: Telescopic **Adjustable:** No
Anti-sway bar: Fitted **Adjustable:** Optional
Suspension adjustable: No **Method:** N/A
Comments: Spring rate and ride height free. Refer Group Nc regulations for permitted modifications.

1.3 REAR SUSPENSION

Description: 4 Links & Lateral Locating Rod
Spring medium: Coil
Damper type: Hydraulic Telescopic **Adjustable:** No
Anti-sway bar: Not Fitted **Adjustable:** N/A
Suspension adjustable: No **Method:**
Comments: Spring rate and ride height free. Refer Group Nc regulations for permitted modifications.

1.4 STEERING

Type: Ball & Nut **Make:** Mazda
Comments:

1.5 BRAKES

	Front Disc	Rear Drum
Type:		
Dimensions:	230 x 12mm	200 x 32 mm
Material of drum/disc	Cast Iron	Cast Iron
No. cylinders/pots per wheel:	2	2
Actuation:	Hydraulic	Hydraulic
Caliper: Make, Material, Type:	Cast Iron	N/A
Master cylinder make:	Mazda	Type Tandem
Adjustable bias: No		
Servo Fitted: Yes		

Comments: Components may be replaced with those from another make/model of Production Touring Car produced before 31/12/1972, No increase in swept area or diameter of rotor/drum is permitted, save for an overall variation in diameter of not more than 3mm. Dual Master Cylinders permitted. Servo may be rendered inoperative. Refer Group Nc regulations for permitted modifications.

SECTION 2 - ENGINE

2.1 ENGINE

Make: Toyo Kogyo - Mazda
Model: 12A
No. cylinders: 2 Rotor – 6 Chamber **Configuration:** Rotary
Cylinder Block-material: Alloy **Four Stroke**
Bore - Original: N/A **Max. allowed:**
Stroke - original: N/A **Max. allowed:**
Capacity - original: Chamber Capacity 573 cc **Max. allowed:** 2063 cc
Cooling method: Capacity equiv (x1.8) 2063 cc
Identifying marks: 12A (Twin Distributor)**

Comments: Mild/Extend porting is permitted. Engine must be sealed by a CAMS accredited officer. ** Single Distributor 12A is approved alternative. See illustrations attached. Refer Group Nc regulations for permitted modifications.

2.2 CYLINDER HEAD N/A

Make:
No. of valves/cylinder- **Inlet:** **Exhaust:**
No. of ports total: **Inlet:** **Exhaust:**
No. of camshafts: **Location:** **Drive:**
Valve actuation:
Spark plugs/cylinder:
Identifying marks:
Comments:

2.3 LUBRICATION

Method: Direct Injection **Oil tank location:** N/A
Dry sump pump type: N/A **Location:** N/A
Oil cooler standard: Yes **Location:** N/A
Comments: Refer Group Nc regulations for permitted modifications

2.4 IGNITION SYSTEM

Type: Coil & Distributor (Twin Distributor 12A engine)**
Make:
Comments: ** Single Distributor engine approved. Refer 2.1 above. Refer Group Nc regulations for permitted modifications.

2.5 FUEL SYSTEM

Carburettor : Make: Nikki Downdraft **Model:** 210284 - 831
Fuel Injection: Make: N/A **Type:** N/A
Supercharged : N/A
Comments: Carburettor may be replaced by carburettor/s of a make/type available in the period. Multiple carburettors may be fitted in the ratio of not more than one choke per rotor.

SECTION 3 - TRANSMISSION

3.1 CLUTCH

Make: Mazda **Type:** Diaphragm **Diameter:** 215mm
No. of Plates: 1
Actuation: Hydraulic
Comments: Clutch and method of actuation are free

3.2 TRANSMISSION

Type: Four Speed synchromesh
Make: Mazda

No. forward speeds: 4 **Gearbox location:** Behind Engine
Gearchange type and location: Floor - Remote
Case material: Alumimium **Identifying marks:**
Comments: Ratios Free. Refer Group Nc regulations for permitted modifications.

3.3 FINAL DRIVE

Make: Mazda **Model:** RX2
Wheel drive method:
Ratios: Various
Differential: Free **Type:**
Comments: Limited slip differential permitted. Refer Group Nc regulations for permitted modifications.

3.4 TRANSMISSION SHAFTS (EXPOSED)

Number: 1 **Location:** Gearbox to Final Drive

Description: Tubular Tailshaft to Final Drive
Comments:

3.5 WHEELS & TYRES

Wheel type: Original:	Pressed Steel	Material: Steel
		Original:
Allowed:	Steel or Period Alloy	Allowed: Steel or Alloy
Fixture method:	Bolt On	No. studs: 4
	FRONT	REAR

Wheel dia. & rim width		
Original:	4 x 13	4 x 13
Allowed	7 x 13	7 x 13
Tyre Section:		
Original:	155 x 13	155 x 13
Allowed		

Aspect ratio - minimum: 60%
Comments: Wheels and tyres are confined to dimensions which fit within the wheel arches.

SECTION 4 - GENERAL

4.1 FUEL SYSTEM

Tank Location: Rear **Capacity:** 65 Litres
Fuel pump, type and location: Electric **Make:**
Comments: Fuel pump/s free. Refer Group Nc regulations for permitted modifications.

4.2 ELECTRICAL SYSTEM

Voltage: 12 Volt **Alternator/Dynamo fitted:**
Battery Location: Engine Bay **Alternator**
Comments: Refer Group Nc regulations for permitted modifications.

4.3 BODYWORK

Type: 4 Door Sedan **Material:** Steel
No. of seats: 5 **No. doors:** 4
Comments:

4.4 DIMENSIONS

Track - Front: 1285 mm **Rear:** 1280 mm
Wheelbase: 2470 mm **Overall length:** 4150 mm
Dry weight: 900 Kg
Comments:

4.5 SAFETY EQUIPMENT

Fire extinguisher:	Required	Refer Schedule H
Seat belt:	Required	Refer Schedule I
Rollbar:	Required	Refer Schedule J and Art. 3 General Regulations
Electrical cut off switch:	Required	
Safety fuel tank :	Optional	

LOCATION OF CHASSIS NUMBER

On firewall under bonnet

LOCATION OF ENGINE NUMBER

Stamped on front or centre plates



ENGINE

Type Rotary RX2-AP. Two rotors
 Capacity 1146 cc
 Power Units 22.9
 Power 71 kW @ 6000 rpm
 Torque 138 Nm @ 4000 rpm

CARBURETTOR AND FUEL SYSTEM

Carburettor Downdraught with 4 barrels
 Fuel Pump Electric
 Fuel Tank Capacity 65 litres

TRANSMISSION

Gear Change Floor
 Gear Box 4 speed manual

SUSPENSION

Front Struts with coil springs
 Rear 4-link with coil springs. Lateral rod

STEERING

Type Variable ball
 Turning Circle 9.4 metres

WHEELS AND TYRES

Wheel Size 4.5" x 13"
 Tyre Size 155 SR

BRAKES

Front Power disc
 Rear Power drum
 Handbrake Central pull-up lever

DIMENSIONS

Length 4150 mm
 Width 1580 mm
 Height 1435 mm
 Wheelbase 2470 mm
 Track — Front 1295 mm
 — Rear 1290 mm
 Kerb Mass 1020 kg

BODY

- 4 door Sedan

IDENTIFICATION

- Black horizontal grille bars with vertical badge
- Dual circular headlights
- Rotary engine badge on grille
- Chrome front/rear bumpers
- Front parklights/indicators above bumper
- Side indicators on front/rear guards

STANDARD EQUIPMENT

- Fully reclining front bucket seats
- Centre console
- Day/night interior mirror
- Full interior carpeting
- Flow-through ventilation
- Steering wheel lock
- Electric clock
- Tachometer

OPTIONAL EQUIPMENT

- T-bar automatic transmission
- Adjustable headrests
- Radio
- Stereo cassette
- Heated rear window
- Fan boosted heater

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