

Group 3E Recognition FORM

A) Vehicle seen from 3/4 front



B) Vehicle seen from 3/4 rear



1. GENERAL

101. Manufacturer

TOYOTA

102. Commercial name(s) - Model and type

YARIS GR RALLYE

103. Engine capacity **1618** cm³

Corrected engine capacity **1618 x 1.7 = 2750cc**

104. Type of car construction

a) Type

<input type="checkbox"/> separate chassis	<input checked="" type="checkbox"/> monocoque
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b) Material of chassis / bodyshell

ALUMINIUM

106. Number of seats

4

2. DIMENSIONS, WEIGHT

Minimum Racing Weight

1290 kg

TARE Weight

1290 kg

202. Overall length

3995 mm ± 1 %

203. Maximum overall width

1805 mm ± 1 % Where measured

204. Width of bodywork

a) At front axle

1778 mm ± 1 %

b) At rear axle

1820 mm ± 1 %

206. Wheelbase **2560** mm ± 1%

207. Maximum track

a) Front **1535** mm

b) Rear **1565** mm

Make: **TOYOTA**

Model: **YARIS GR RALLYE**

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3. ENGINE (In case of rotary engine, see Art. 335 on additional form)

301. Location and position of the engine **FRONT / TRANSVERSE**

302. Number of mounts **3**

Engine in its compartment

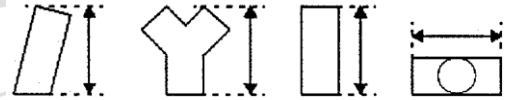


304. Supercharging yes no

Maximum manifold pressure **NOT AVAILABLE**

Type and number of compressors **1 TURBO**

305. Number and layout of cylinders **4 IN-LINE**



312. Cylinder block material **ALUMINIUM**

310. Maximum compression ratio **10.5 : 1**

313. Sleeves a) yes no b) Material _____ c) wet dry

314. Bore **87.5** +/- 0.1 mm

316. Stroke **89.7** +/- 0.1 mm

321. Cylinder head a) Number **1** b) Material **ALUMINIUM**

324. Fuel feed by injection : a) Make **TOYOTA** b) Model (D) 23209-18010-07 & (P) 23209-19035

f) Position of Injectors: **3 Port injectors and 3 Direct injectors**

f1) Manifold Cylinderhead

325. Camshaft a) Number **2** b) Location **CYLINDER HEAD**
c) Drive system **CHAIN** f) Type of valve operation **HYDRAULIC ROLLER FINGER CAM FOLLOWERS**

327. Intake

a) Material of manifold **PLASTIC**
b) Number of manifold elements **1** c) Number of valves per cylinder **2**

328. Exhaust



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- a) Material of manifold **STEEL**
b) Number of manifold elements **1**
d) Number of valves per cylinder **2**
p) External Diameter of exhaust pipe between manifold and first silencer **72** mm ± 5%

330. Ignition system

- a) Type **MAPPED DIRECT ELECTRONIC**
b) Number of plugs per cylinder **1**
c) Number of distributors **NIL**
d) Number of coils **3**

331. Cooling system

Capacity **5.2** L

332. Cooling fan

- a) Number **1**
b) Diameter of the fan **350** mm
c) Material of the fan **PLASTIC**
d) Number of blades **7**
e) Type of drive **ELECTRIC**
f) Automatic cut in

<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no
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333. Lubrication system

- a) Type **MECHANICAL (WET SUMP)**
b) Number of oil pumps **1**
c) Total capacity **4.3** L
e) Location of the cooler(s) **FRONT OF ENGINE**
f) Type of the cooler(s) **WATER COOLED**

4. FUEL CIRCUIT

401. Fuel tank

- b) Location **UNDER REAR SEAT**
d) Total capacity **50** L

402. Fuel pump(s)

- a)

<input checked="" type="checkbox"/> Electrical	<input type="checkbox"/> Mechanical
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b) Number **1**
d) Location **IN TANK (LOW PRESSURE) / CAMSHAFT (HIGH PRESSURE)** Fuel Pressure **200 BAR**

5. ELECTRICAL EQUIPMENT

502. Alternator

- a) Number **1**
b) Type **TOYOTA**
c) Drive system **BELT**
d) Nominal power **150** Amp

503. Retractable headlights

- a)

<input type="checkbox"/> yes	<input checked="" type="checkbox"/> no
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b) Control system

6. POWER TRAIN

601. Driven wheels

- front

<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no
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rear

<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no
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602. Clutch

- a) Type **SINGLE PLATE CLUTCH**
b) Control system **MANUAL HYDRAULIC**

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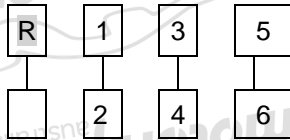
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603. Gearbox

- a) Location **EAST WEST INLINE**
- b) Make **TOYOTA (AISIN EA67)**
- c) Type and location of control **H-PATTERN ON THE FLOOR**
- e) Ratios

	Number of teeth	Ratio	Constant Mesh	Synchro
1		<u>3.538</u>		
2		<u>2.238</u>		
3		<u>1.535</u>		
4		<u>1.162</u>		
5		<u>1.081</u>		
6		<u>0.902</u>		
R		<u>3.831</u>		
Constant				

f) Gear change gate



604. Transfer box / Centre differential

- a) Ratios **VARIABLE**
- c) Control system of transfer box **ELECTRONIC**
- d) Type of central differential **MULTI-PLATE TYPE**

CLUTCH

605. Final drive

- a) Type of final drive
- b) Ratio Overall (physical)
- f) Oil Cooler
- g) Cooler Type

	Front	Rear
a) Type of final drive	<u>TORSEN LSD</u>	<u>TORSEN LSD</u>
b) Ratio Overall (physical)	(1-4) 3.941 / (5-6) 3.350 (physical:2.277)	(1-4) 3.941 / (5-6) 3.350 (physical:2.277)
f) Oil Cooler	<input type="checkbox"/> yes	<input checked="" type="checkbox"/> no
g) Cooler Type		

606. Shafts

- a) Type of longitudinal shafts **CV**
- b) Material of longitudinal shafts **STEEL**
- c) Type of transversal half-shafts **CVA**
- d) Material of transversal half-shafts **STEEL**



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7. SUSPENSION

701. General

a) Type of suspension

Front		Rear	
MACPHERSON STRUT		MULTI LINK	
<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no	<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no
STEEL		STEEL	
<input type="checkbox"/> yes	<input checked="" type="checkbox"/> no	<input type="checkbox"/> yes	<input checked="" type="checkbox"/> no
<input type="checkbox"/> yes	<input checked="" type="checkbox"/> no	<input type="checkbox"/> yes	<input checked="" type="checkbox"/> no

702. Helical springs

a) Material

703. Leaf springs

a) Material

704. Torsion bars

a) Material

705. Other type of suspension

See description on additional form

706. Stabiliser

b) Effective diameter

c) Material

Front	Rear
24.2 mm	21 mm
STEEL	STEEL

707. Suspension Dampers

a) Number per wheel

b) Type

c) Principle of operation

Front	Rear
1	1
MACPHERSON STRUT	SHOCK
HYDRAULIC	HYDRAULIC



8. WHEELS

801. Wheels

a) Diameter

Front	Rear
18	18

b) Width

8"	8"
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c) Offset

+45 mm	+45 mm
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803. Brakes

a) Braking system

4 WHEEL DISC (MECHANICAL HYDRAULIC ABS)

b) Number of master cylinders

1

c) Servo-brakes

yes no

c1) Make and type

TOYOTA GR

	Front	Rear
e) Number of cylinders per wheel	4	2
f) Drum brakes		
f1) Internal diameter		
f2) Number of linings per wheel		
g) Disc brakes		
g1) Number of pads per wheel	2	2
g2) Number of calipers per wheel	1	1
g3) Caliper material	ALUMINIUM	ALUMINIUM
g4) Thickness of new disc	28 ± 1 mm	18 ± 1 mm
g5) External diameter of the disc	356 ± 1.5 mm	297 ± 1.5 mm
g9) Ventilated discs	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no

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804. Steering

- a) Type
- b) Servo-assistance
Type of Assistance

Front		Rear	
<u>RACK AND PINION</u>			
<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> yes	<input type="checkbox"/> no
<u>ELECTRIC</u>			

9. BODYWORK

901. Interior

- a) Ventilation

<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no
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- b) Heating

<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no
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- c) Air Conditioning

<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no
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- f) Optional sun roof

<input type="checkbox"/> yes	<input checked="" type="checkbox"/> no
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f1) Type _____

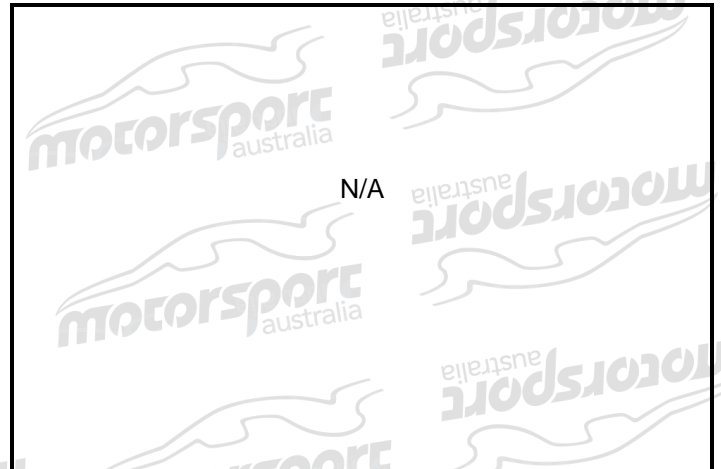
f2) Control system

- g) Opening system for side windows

Front	Rear
<u>ELECTRIC</u>	<u>N/A</u>

X) Dashboard

Y) Sunroof



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902. Exterior

a) Number of doors **2**

b) Tailgate

yes

no

c) Door material

Front	Rear
<u>ALUMINIUM</u>	<u>N/A</u>

d) Front bonnet material

ALUMINIUM

e) Rear bootlid / tailgate material

ALUMINIUM

f) Bodywork material

ALUMINIUM

h) Rear window material

GLASS

i) Rear quarter window material

GLASS

k) Side window material

Front	Rear
<u>GLASS</u>	<u>GLASS</u>
<u>PLASTIC</u>	<u>PLASTIC</u>

l) Material of bumper

<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no
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n) Exterior Rear wiper

XIII) NON METALLIC PARTS OF THE BODY

Number	Part	Material
	Front Bumper	Plastic
	Rear Bumper	Plastic
	Side Skirts	Plastic
	Rear Spoiler	Plastic
	Grill	Plastic
	Head Lights	Plastic
	Tail Lights	Plastic
	External Rear Vision Mirrors	Plastic
	Roof	Carbon Fibre

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