

**Group 3E RECOGNITION DOCUMENT**

A) Vehicle seen from 3/4 front



B) Vehicle seen from 3/4 rear



**1. GENERAL**

101. Manufacturer

**FUJI HEAVY INDUSTRIES PTY LTD**

102. Commercial name(s) - Model and type

**TOYOTA 86**

103. Engine capacity

**1998** cm<sup>3</sup>

Corrected engine capacity

**86 x 86 = 1998** cm<sup>3</sup>

104. Type of car construction

a) Type

separate chassis

monocoque

b) Material of chassis / bodyshell

**STEEL**

106. Number of seats

**4**

**2. DIMENSIONS, WEIGHT**

Minimum Racing Weight

**1214** kg

202. Overall length

**4240** mm ± 1 %

203. Maximum overall width

**1775** mm ± 1 %

Where measured At Front Axle or Mirror Tip To Mirror Tip

**1980**

204. Width of bodywork

a) At front axle

**1775** mm ± 1 %

b) At rear axle

**1755** mm ± 1 %

206. Wheelbase **2,570** mm ± 1 %

207. Maximum track

a) Front **1520** mm

b) Rear **1540** mm

Make **Toyota**

Model **86**

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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 NORTH SOUTH**

302. Number of mounts **2**

Engine in its compartment



304. Supercharging

<input type="checkbox"/> yes	<input checked="" type="checkbox"/> no
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Maximum manifold pressure

**N/A**

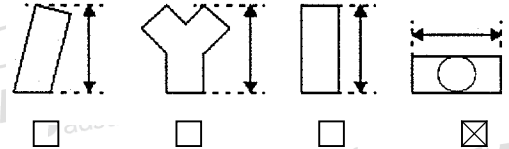
Type and number of compressors

**N/A**

305. Number and layout of cylinders **4 HORIZONTAL**

312. Cylinder block material **Aluminium Alloy**

310. Maximum compression ratio **12.5 : 1**



313. Sleeves

a) <input checked="" type="checkbox"/> yes	<input type="checkbox"/> no
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b) Material **CAST IRON**

c) <input type="checkbox"/> wet	<input checked="" type="checkbox"/> dry
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314. Bore **86** +/- 0.1 mm

316. Stroke **86** +/- 0.1 mm

321. Cylinderhead

a) Number **2**

b) Material

**ALLOY**

324. Fuel feed by injection : a) Make **TOYOTA**

b) Model **86 GTS**

f) Position of Injectors:

f1) <input checked="" type="checkbox"/> Manifold	<input checked="" type="checkbox"/> Cylinderhead
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325. Camshaft

a) Number

**4**

b) Location

**CYLINDER HEAD**

c) Drive system

**CHAIN**

f) Type of valve operation

**DOHC**

327. Intake

a) Material of manifold

**PLASTIC**

b) Number of manifold elements

**ONE**

c) Number of valves per cylinder **2**

328. Exhaust



**Make** Toyota

**Model** 86

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

**330. Ignition system**

- a) Type **ELECTRONIC**
- b) Number of plugs per cylinder **1**
- c) Number of distributors **N/A – ECU CONTROLLED**
- d) Number of coils **FOUR**

**331 Cooling system**

Capacity **7.2 L**

**332. Cooling fan**

- a) Number **TWO**
- b) Diameter of the fan \_\_\_\_\_ mm
- c) Material of the fan \_\_\_\_\_
- d) Number of blades \_\_\_\_\_
- e) Type of drive **ELECTRIC MOTOR**
- f) Automatic cut in 

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

- a) Type **TROCHOID ROTOR PUMP**
- b) Number of oil pumps **ONE**
- c) Total capacity **5.4LT WITH FILTER L**
- e) Location of the cooler(s) **N/A**
- f) Type of the cooler(s) **NA**

**4. FUEL CIRCUIT**

**401. Fuel tank**

- b) Location **MID**
- d) Total capacity **50 L**

**402. Fuel pump(s)**

- a) 

<input checked="" type="checkbox"/> Eleectrical	<input checked="" type="checkbox"/> Mechanical
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- b) Number **TWO**

- d) Location **ELECTRICAL – TOP OF TANK PASSENGER SIDE.  
MECHANICAL – PASSENGER SIDE CYLINDER HEAD**

Fuel Pressure **ELECTRICAL – 350 TO 500KPA. MECHANICAL FOR D4S – 4 TO 20 MPA**

**5. ELECTRICAL EQUIPMENT**

**502. Alternator**

- a) Number **1**
- b) Type \_\_\_\_\_
- c) Drive system **BELT**
- d) Nominal power **130** 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 type="checkbox"/> yes	<input checked="" 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 **DRY SINGLE PLATE DIAGPHRAGM**
- b) Control system **HYDRAULIC**



Make **Toyota**

Model **86**

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603. Gearbox

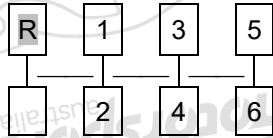
a) Location **FR – BEHIND ENGINE** b) Make **TL701VD90A**

c) Type and location of control **FLOOR MOUNTED SHIFTER**

e) Ratios

	Number of teeth	Ratio	Constant Mesh	Synchro
1	—	<b>3.626</b>	—	—
2	—	<b>2.188</b>	—	—
3	—	<b>1.541</b>	—	—
4	—	<b>1.213</b>	—	—
5	—	<b>1</b>	—	—
6	—	<b>0.767</b>	—	—
R	—	<b>3.437</b>	—	—
Constant	—	—	—	—

f) Gear change gate



604. Transfer box / Centre differential

a) Ratios

**N/A**

c) Control system of transfer box

**N/A**

d) Type of central differential

**N/A**

605. Final drive

a) Type of final drive

**N/A**

b) Ratio

**N/A**

f) Oil Cooler

yes

no

yes

no

g) Cooler Type

**N/A**

	Front	Rear
a) Type of final drive	<b>N/A</b>	<b>TORSEN LSD</b>
b) Ratio	<b>N/A</b>	<b>4.100</b>
f) Oil Cooler	<input type="checkbox"/> yes <input type="checkbox"/> no	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no
g) Cooler Type	—	<b>N/A</b>

606. Shafts

a) Type of longitudinal shafts

**3 JOINT (CUP TYPE)**

b) Material of longitudinal shafts

**STEEL**

c) Type of transversal half-shafts

**N/A**

d) Material of transversal half-shafts

**N/A**

7. SUSPENSION



**Make** Toyota

**Model** 86

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**701. General**

	Front	Rear
a) Type of suspension	<b>MACPHERSON STRUT</b>	<b>DOUBLE WISHBONE</b>
<b>702. Helical springs</b>	<input checked="" type="checkbox"/> yes	<input checked="" type="checkbox"/> yes
a) Material	<b>HIGH TENSILE STEEL</b>	<b>HIGH TENSILE STEEL</b>
<b>703. Leaf springs</b>	<input type="checkbox"/> yes	<input type="checkbox"/> yes
a) Material	_____	_____
<b>704. Torsion bars</b>	<input type="checkbox"/> yes	<input type="checkbox"/> yes
a) Material	_____	_____

**705. Other type of suspension**

See description on additional form

**706. Stabiliser**

	Front	Rear
b) Effective diameter	<b>18 mm</b>	<b>14 mm</b>
c) Material	<b>STEEL</b>	<b>STEEL</b>

**707. Suspension Dampers**

	Front	Rear
a) Number per wheel	<b>1</b>	<b>1</b>
b) Type	<b>GAS/OIL</b>	<b>GAS/OIL</b>
c) Principle of operation	_____	_____

**8. WHEELS**

**801. Wheels**

	Front	Rear
a) Diameter	<b>17"</b>	<b>17"</b>
b) Width	<b>7.0"</b>	<b>7.0"</b>
c) Offset	<b>+48 mm</b>	<b>+48 mm</b>

**803. Brakes**

a) Braking system  
**Floating 1cylinder**

**FRONT = VENTILATED DISC FLOATING 2CYLINDER / REAR = Ventilated Disc**

b) Number of master cylinders

**1**

c) Servo-brakes

yes  no

c1) Make and type **SINGLE 10.5 INCH HITACHI**

e) Number of cylinders per wheel

	Front	Rear
	<b>TWO</b>	<b>ONE</b>



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**f) Drum brakes**

f1) Internal diameter

NA

NA

f2) Number of linings per wheel

NA

NA

**g) Disc brakes**

g1) Number of pads per wheel

TWO

TWO

g2) Number of calipers per wheel

ONE

ONE

g3) Caliper material

ALUMINIUM

ALUMINIUM

g4) Thickness of new disc

24 ± 1 mm

18 ± 1 mm

g5) External diameter of the disc

294 ± 1.5 mm

290 ± 1.5 mm

g9) Ventilated discs

yes

no

yes

no

h) Parking brake: h1) Control system **DUO SERVO DRUM IN REAR DISC**

h2) Location of lever **HAND OPERATED - LEVER TYPE**

<input checked="" type="checkbox"/> Front	<input type="checkbox"/> Rear
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**804. Steering**

a) Type

RACK AND PINNION

N/A

b) Servo-assistance

yes

no

yes

no

Type of Assistance

ELECTRIC

N/A

**9. BODYWORK**

**901. Interior**

a) Ventilation

yes

no

b) Heating

yes

no

c) Air Conditioning

yes

no

f) Optional sun roof

yes

no

f1) Type

N/A

f2)

Control system

g) Opening system for side windows

Front

Rear

ELECTRIC

FIXED

X) Dashboard

Y) Sunroof





Not applicable

902. Exterior

a) Number of doors **2**

b) Tailgate

<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no
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c) Door material

Front	Rear
<b><u>ANTI CORROSION SHEET STEEL</u></b>	<b><u>ANTI CORROSION SHEET STEEL</u></b>

d) Front bonnet material

**STEEL**

**ALUMINIUM**

e) Rear bootlid / tailgate material

**ANTI CORROSION SHEET**

f) Bodywork material

**ANTI CORROSION SHEET STEEL**

h) Rear window material

i) Rear quarter window material

k) Side window material

l) Material of bumper

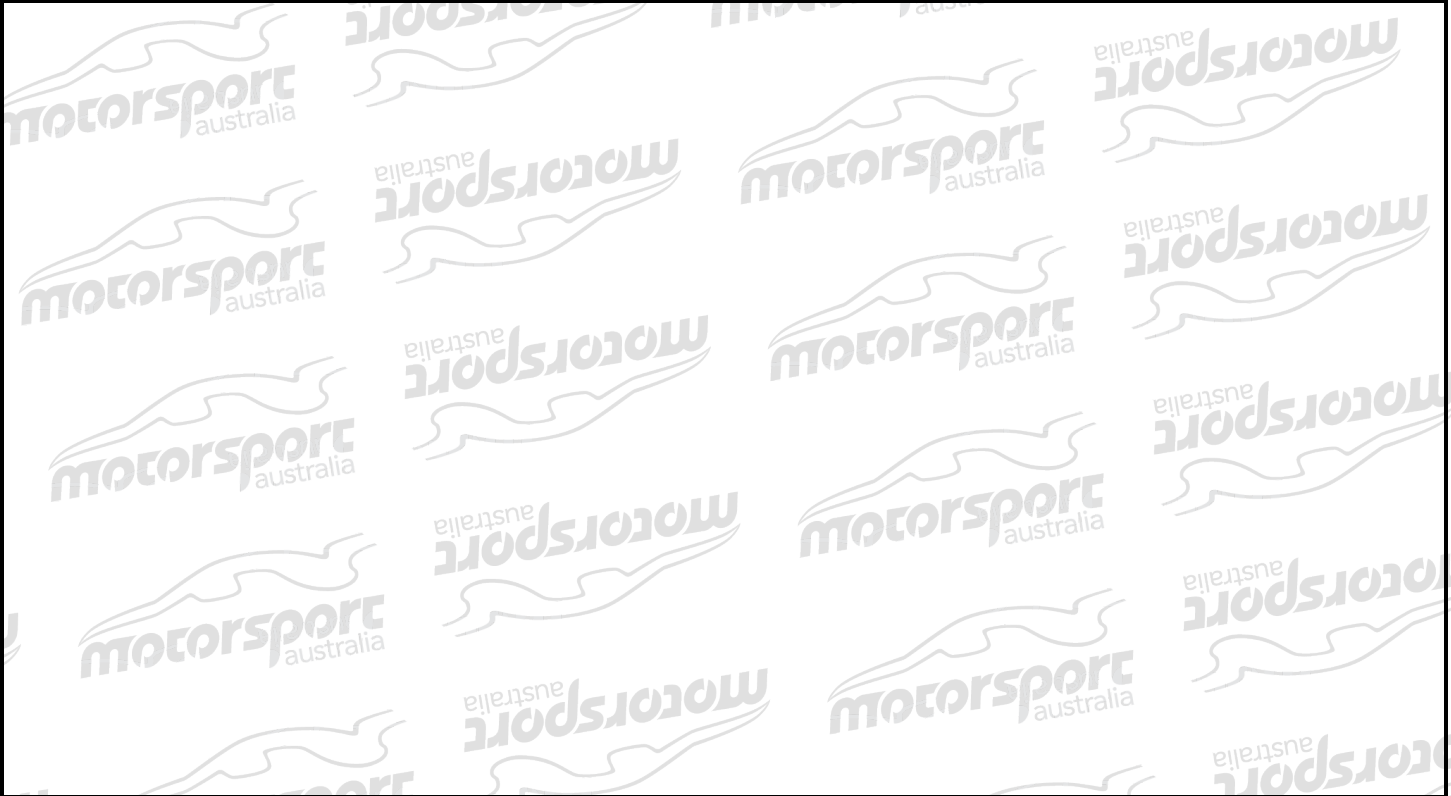
Front	Rear
<b><u>PLASTIC</u></b>	<b><u>PLASTIC</u></b>

n) Exterior Rear wiper

<input type="checkbox"/> yes	<input checked="" type="checkbox"/> no
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**XIII) NON METALLIC PARTS OF THE BODY**

Number	Part	Material





COMPLEMENTARY INFORMATION

