



Group 3E RECOGNITION DOCUMENT

A) Vehicle seen from 3/4 front

B) Vehicle seen from 3/4 rear



1. GENERAL

101. Manufacturer

HYUNDAI

102. Commercial name(s) - Model and type

SONATA GL

103. Engine capacity

2359 cm³ Corrected engine capacity **N/A** cm³

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

STEEL

106. Number of seats

5

2. DIMENSIONS, WEIGHT

Minimum Racing Weight

1473 kg

202. Overall length

4800 mm ± 1 %

203. Maximum overall width

1832 mm ± 1 % Where measured **ABOVE F & R AXLE**

204. Width of bodywork

a) At front axle **1832** mm ± 1 %

b) At rear axle **1832** mm ± 1 %

206. Wheelbase **2730** mm ± 1 %

207. Maximum track

a) Front **1565** mm

b) Rear **1550** mm



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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- EAST WEST**

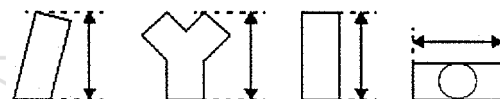
302. Number of mounts **4**

Engine in its compartment



304. Supercharging

<input type="checkbox"/> yes	<input checked="" type="checkbox"/> no
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Type and number of compressors

0

305. Number and layout of cylinders

4

312. Cylinder block material

ALUMINIUM

310. Compression ratio

10.5: 1

313. Sleeves

a) <input checked="" type="checkbox"/> yes	<input type="checkbox"/> no	b) Material
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c) <input type="checkbox"/> wet	<input checked="" type="checkbox"/> dry
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314. Bore **88.0**+0/- 0.1 mm

316. Stroke **97.0**+0/- 0.1 mm

321. Cylinderhead

a) Number **ONE** b) Material **ALUMINIUM**

324. Fuel feed by injection :

a) Make **SEIMENS** b) Model

f) Position of injectors

f1) Manifold Cylinderhead

325. Camshaft

a) Number **2** b) Location **CYLINDER HEAD**

c) Drive system

CHAIN

f)

Type of valve operation

OHC

327. Intake

a) Material of manifold

ALUMINIUM/PLASTIC

b) Number of manifold elements

2

c) Number of valves per cylinder

2

328. Exhaust

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 **54** mm ± 5%



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330. Ignition system

- a) Type **COIL OVER PLUG**
- b) Number of plugs per cylinder **ONE**
- c) Number of distributors **0**
- d) Number of coils **FOUR**

331. Cooling system Capacity **7.8 L**

332. Cooling fan a) Number **ONE** b) Diameter of the fan **46 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 **WET SUMP**

- c) Total capacity **4.0 L**
- e) Location of the cooler(s) **0**
- f) Type of the cooler(s) **0**

4. FUEL CIRCUIT

401. Fuel tank

- a) Number **ONE**
- b) Location **UNDER REAR FLOOR**
- d) Rated capacity **70 L**
- e) Filler hole locations **LH REAR ¼ PANEL**

402. Fuel pump(s) a)

<input checked="" type="checkbox"/> Elelectrical	<input type="checkbox"/> Mechanical
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 b) Number **1**

- d) Location **FUEL TANK**

5. ELECTRICAL EQUIPMENT

502. Alternator a) Number **ONE** b) Type **DENSO**

- c) Drive system **BELT**
- d) Nominal max current **110 Amp**

503. Retractable headlights a)

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

6. POWER TRAIN

601. Driven wheels front

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

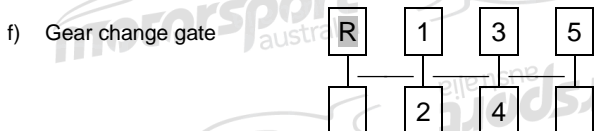
<input type="checkbox"/> yes	<input checked="" type="checkbox"/> no
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602. Clutch a) Type **SINGLE DRY DIAPHRAM**

- b) Control system **HYDRAULIC**

603. Gearbox a) Location **FRONT** b) Make **HYUNDAI**

- c) Type and location of control **CABLE, COCKPIT CENTRE CONSOLE**



- g) Type of lubrication splash

604. Transfer box / Centre differential

- a) Ratios **N/A**
- c) Control system of transfer box **N/A**
- d) Type of central differential **N/A**



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605. Final drive

- a) Type of final drive
- b) Ratio
- f) Oil cooler
- g) Cooler Type

Front		Rear	
<u>HYPOID</u>		<u>N/A</u>	
<u>3.250/4.333 (see Complementary Information)</u>		<u>N/A</u>	
<input type="checkbox"/> yes	<input checked="" type="checkbox"/> no	<input type="checkbox"/> yes	<input checked="" type="checkbox"/> no
<u>N/A</u>		<u>N/A</u>	

606. Shafts

- a) Type of longitudinal shafts
- b) Material of longitudinal shafts
- c) Type of transversal half-shafts
- d) Material of transversal half-shafts

N/A

Driveshaft with Birfield joint(inner) and Tripod joint outer

STEEL

7. SUSPENSION

701. General

- a) Type of suspension

Front		Rear	
<u>WISHBONE</u>		<u>MULTILINK</u>	
<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no	<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no
ferrous		ferrous	
<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
<u>N/A</u>		<u>N/A</u>	

702. Helical springs

- a) Material

703. Leaf springs

704. Torsion bars

- a) Material

705. Other type of suspension

See description on additional form

706. Stabiliser

- b) Effective diameter
- c) Material

Front	Rear
<u>27 ±0.2 mm</u>	<u>17 ±0.2mm</u>
<u>STEEL</u>	<u>STEEL</u>

707. Suspension Dampers

- a) Number per wheel
- b) Type
- c) Principle of operation

Front	Rear
<u>ONE</u>	<u>ONE</u>
<u>HYDRAULIC</u>	<u>HYDRAULIC</u>
<u>TELESCOPIC</u>	<u>TELESCOPIC</u>



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8. WHEELS

801. Wheels

a) Diameter

Front	Rear
16"	16"

b) Width

6.5"	6.5"
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803. Brakes

a) Braking system

HYDRAULIC
ONE

b) Number of master cylinders

c) Servo-brakes

yes no

c1) Make and type **HYUNDAI**

e) Number of cylinders per wheel

f) **Drum brakes**

f1) Internal diameter

f2) Number of linings per wheel

g) **Disc brakes**

g1) Number of pads per wheel

g2) Number of calipers per wheel

g3) Caliper material

g4) Thickness of new disc

g5) External diameter of the disc

g9) Ventilated discs

Front	Rear
1	1
N/A ± 1.5 mm	N/A ± 1.5 mm
N/A	N/A
TWO	TWO
ONE	ONE
steel	steel
26 ± 1 mm	10 ± 1 mm
280 ± 1.5 mm	262 ± 1.5 mm
<input checked="" type="checkbox"/> yes <input type="checkbox"/> no	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no

h) Parking brake

h1) Control system

MECHANICAL

h2) Location of lever

CENTRE CONSOLE

h3) On which wheels

Front Rear

804. Steering

a) Type

Front	Rear
RACK AND PINION	N/A

b) Servo-assistance

<input checked="" type="checkbox"/> yes <input type="checkbox"/> no	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no
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Type of Assistance

HYDRAULIC	N/A
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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

N/A

g) Opening system for side windows

Front	Rear
ELECTRIC	ELECTRIC



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X) Dashboard



Y) Sunroof



902. Exterior

a) Number of doors **FOUR**

b) Tailgate yes no

Front	Rear
<u>STEEL</u>	<u>STEEL</u>

c) Door material

d) Front bonnet material **STEEL**

e) Rear bootlid / tailgate material **STEEL**

f) Bodywork material **STEEL**

h) Rear window material **GLASS**

i) Rear quarter window material **GLASS**

Front	Rear
<u>GLASS</u>	<u>GLASS</u>
<u>PP+EPDM</u>	<u>PP+EPDM</u>

k) Side window material

l) Material of bumper

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
	Front Bumper	Plastic
	Rear bumper	Plastic
	Door mirror	Plastic
	Head lights	Plastic
	Waist moulds	Rubber



COMPLEMENTARY INFORMATION

M5/6GF2 Transaxle

