



GROUP 3E

Series Production Cars
Recognition Document

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

I30N

103. Engine capacity

1998 CC cm³Corrected engine capacity **1998x 1.7 = 3397** cm³

104. Type of car construction

a) Type

separate chassis	monocoque
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b) Material of chassis / bodyshell **STEEL**

106. Number of seats

5

2. DIMENSIONS, WEIGHT

Minimum Racing Weight

1408 kg

202. Overall length

4335 mm ± 1 %

203. Maximum overall width

1795 mm ± 1 % Where measured **FRONT & REAR WHEEL ARCHES**

204. Width of bodywork

a) At front axle **1795** mm ± 1 %

b) At rear axle **1795** mm ± 1 %

206. Wheelbase **2650** mm ± 1 %

207. Maximum track

a) Front **1556** mm

b) Rear **1564** 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 , TRANSVERSE, / EAST WEST**

302. Number of mounts **3**

Engine in its compartment



304. Supercharging / Turbo

yes	no
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Maximum manifold pressure

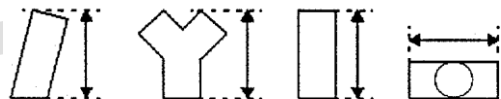
2.205 BAR ABSOLUTE

Type and number of compressors

1 TWIN SCROLL TURBO

305. Number and layout of cylinders

4 IN LINE



312. Cylinder block material

CAST ALLOY

310. Maximum compression ratio

9.5 : 1

313. Sleeves

a)	yes	no
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b) Material **STEEL**

c)	wet	dry
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314. Bore

86MM +/- 0.1 mm

316. Stroke

86MM +/- 0.1 mm

321. Cylinderhead

a) Number **1**

b) Material

CAST ALLOY

324. Fuel feed by injection : a) Make

HYUNDAI KEFICO

b) Model **PA66 023**

f) Position of Injectors:

f1)

Manifold	Cylinderhead
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325. Camshaft

a) Number

2

b) Location

OVER HEAD

c) Drive system

CHAIN

f) Type of valve operation

HYDRAULIC LIFTER

327. Intake

a) Material of manifold

PLASTIC

b) Number of manifold elements

4

c) Number of valves per cylinder

2



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328. Exhaust

- a) Material of manifold STEEL
- b) Number of manifold elements 4
- d) Number of valves per cylinder 2
- p) External Diameter of exhaust pipe between manifold and first silencer 65MM mm ± 5%

330. Ignition system

- a) Type ELECTRONIC
- b) Number of plugs per cylinder 4
- c) Number of distributors N/A
- d) Number of coils 4 COILS ON PLUGS

331. Cooling system

Capacity 7 L

332. Cooling fan

- a) Number 1
- b) Diameter of the fan 470MM mm
- c) Material of the fan PLASTIC
- d) Number of blades 7
- e) Type of drive AUTOMATIC
- f) Automatic cut in

yes	no
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333. Lubrication system

- a) Type MECHANICAL
- b) Number of oil pumps 1
- c) Total capacity 4.8 L
- e) Location of the cooler(s) N/A
- f) Type of the cooler(s) N/A

4. FUEL CIRCUIT

401. Fuel tank

- b) Location UNDER FLOOR OF REAR SEATS
- d) Total capacity 50 L

402. Fuel pump(s)

- a)

Eleectrical	Mechanical
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- b) Number 2
- d) Location 1 IN TANK, 1 ON TOP OF THE ENGINE
- Fuel Pressure 250BAR

5. ELECTRICAL EQUIPMENT

502. Alternator

- a) Number 1
- b) Type DENSO REGULAR
- c) Drive system BELT
- d) Nominal power 150 Amp 13.5 VOLTS

503. Retractable headlights

- a)

yes	no
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- b) Control system N/A

6. POWER TRAIN

601. Driven wheels

- front

yes	no
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- rear

yes	no
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602. Clutch

- a) Type SINGLE PLATE, DUAL MASS FLYWHEEL
- b) Control system HYDRAULIC



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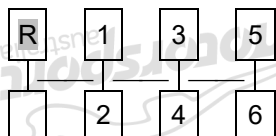
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603. Gearbox

- a) Location **L/H SIDE ENGINE BAY** b) Make **HKMC**
 c) Type and location of control **H PATTERN IN CENTER CONSOLE**
 e) Ratios

	Number of teeth	Ratio	Constant Mesh	Synchro
1	<u>IN 12 OUT 37</u>	<u>3.083</u>		<u>YES</u>
2	<u>IN 29 OUT 56</u>	<u>1.931</u>		<u>YES</u>
3	<u>IN 23 OUT 39</u>	<u>1.696</u>		<u>YES</u>
4	<u>IN 29 OUT 37</u>	<u>1.276</u>		<u>YES</u>
5	<u>IN 37 OUT 38</u>	<u>1.027</u>		<u>YES</u>
6	<u>IN 41 OUT 35</u>	<u>0.854</u>		<u>YES</u>
R	<u>IN 20 OUT 59</u>	<u>3.588</u>		<u>YES</u>
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

	Front	Rear
a) Type of final drive	<u>E DIFF LSD</u>	<u>N/A</u>
b) Ratio	<u>4.333 1ST / 2ND / REVERSE 3.250</u> <u>3RD / 4TH / 5TH / 6TH</u>	<u>N/A</u>
f) Oil Cooler	yes no	yes no
g) Cooler Type	<u>N/A</u>	<u>N/A</u>

606. Shafts

- a) Type of longitudinal shafts **N/A**
 b) Material of longitudinal shafts **N/A**
 c) Type of transversal half-shafts **2 X DRIVE SHAFTS WITH CV JOINTS**
 d) Material of transversal half-shafts **STEEL**



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7. SUSPENSION

701. General

	Front		Rear	
a) Type of suspension	<u>MACPHERSON STRUT</u>		<u>MULTI-LINK</u>	
702. Helical springs	yes	no	yes	no
a) Material	<u>STEEL</u>		<u>STEEL</u>	
703. Leaf springs	yes	no	yes	no
a) Material	<u>N/A</u>		<u>N/A</u>	
704. Torsion bars	yes	no	yes	no
a) Material	<u>N/A</u>		<u>N/A</u>	

705. Other type of suspension

See description on additional form

706. Stabiliser

	Front	Rear
b) Effective diameter	<u>24</u> mm	<u>19</u> mm
c) Material	<u>STEEL</u>	<u>STEEL</u>

707. Suspension Dampers

	Front	Rear
a) Number per wheel	<u>ONE</u>	<u>ONE</u>
b) Type	<u>GAS</u>	<u>GAS</u>
c) Principle of operation	<u>ELECTRIC</u>	<u>ELECTRIC</u>

8. WHEELS

801. Wheels

	Front	Rear
a) Diameter	<u>19"</u>	<u>19"</u>
b) Width	<u>8"</u>	<u>8"</u>
c) Offset	<u>+55</u> mm	<u>+55</u> mm

803. Brakes

a) Braking system

HYDRAULIC

b) Number of master cylinders

1

c) Servo-brakes

yes	no
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c1) Make and type

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	Front	Rear
e) Number of cylinders per wheel	<u>1</u>	<u>1</u>
f) Drum brakes	<u>N/A</u>	<u>N/A</u>
f1) Internal diameter	<u>N/A</u>	<u>N/A</u>
f2) Number of linings per wheel	<u>N/A</u>	<u>N/A</u>
g) Disc brakes	<u>2</u>	<u>2</u>
g1) Number of pads per wheel	<u>1</u>	<u>1</u>
g2) Number of calipers per wheel	<u>1</u>	<u>1</u>
g3) Caliper material	<u>ALLOY</u>	<u>ALLOY</u>
g4) Thickness of new disc	<u>30 ± 1 mm</u>	<u>20 ± 1 mm</u>
g5) External diameter of the disc	<u>345 ± 1.5 mm</u>	<u>314 ± 1.5 mm</u>
g9) Ventilated discs	yes no	yes no

h) Parking brake: h1) Control system **MECHANICAL**

h2) Location of lever **CENTER CONSOLE**
 which wheels Effet sur roues

h3) On	Front	Rear
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804. Steering

a) Type

Front		Rear	
<u>RACK & PINION</u>		<u>N/A</u>	
yes	no	yes	no
<u>ELECTRIC</u>		<u>N/A</u>	

b) Servo-assistance

Type of Assistance

9. BODYWORK

901. Interior

a) Ventilation

yes	no
yes	no

b) Heating

yes	no
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c) Air Conditioning

f) Optional sun roof

yes	no
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f1) Type N/A

f2) Control system N/A

g) Opening system for side windows

Front	Rear
<u>ELECTRIC POWER WINDOWS</u>	<u>ELECTRIC POWER WINDOWS</u>



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X) Dashboard



Y) Sunroof



902. Exterior

a) Number of doors **4 +TAILGATE**

b) Tailgate

yes	no
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c) Door material

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

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

k) Side window material

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

l) Material of bumper

n) Exterior Rear wiper

yes	no
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XIII) NON METALLIC PARTS OF THE BODY

Number	Part	Material
1	FRONT BUMPER BAR COVER	PLASTIC
1	FRONT SPOILER	PLASTIC
1	FRONT GRILLE ASSEMBLY	PLASTIC
2	SIDE SILL PANEL SKIRTS	PLASTIC
2	HEADLIGHTS	PLASTIC
2	TAILLIGHTS	PLASTIC
1	REAR BUMPER BAR COVER	PLASTIC
1	REAR SPOILER	PLASTIC
5	DOOR & TAILGATE HANDLES	PLASTIC
2	SIDE MIRRORS	PLASTIC
1	ANTENNA	PLASTIC
1	FUEL OUTER FLAP	PLASTIC



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COMPLEMENTARY INFORMATION