

Group 3E Recognition Document

A) Vehicle seen from 3/4 front

B) Vehicle seen from 3/4 rear



1. GENERAL

101. Manufacturer

CORSA SPECIALISED VEHICLES

102. Commercial name(s) - Model and type

VOLANTI

103. Engine capacity

5667 cm³ Corrected engine capacity **5667 x 1 = 5667 cm³**

104. Type of car construction

a) Type

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

STEEL

106. Number of seats

4

2. DIMENSIONS, WEIGHT

Minimum Racing Weight

1521 kg

202. Overall length

4884 mm ± 1 %

203. Maximum overall width

1842 mm ± 1 % Where measured **REAR QUARTER PANELS**

204. Width of bodywork

a) At front axle **1820 mm ± 1 %**

b) At rear axle **1824 mm ± 1 %**

206. Wheelbase **2788 mm ± 1 %**

207. Maximum track

a) Front **1569 mm**

b) Rear **1587 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/CENTRAL**

302. Number of mounts **2**

Engine in its compartment



304. Supercharging yes no

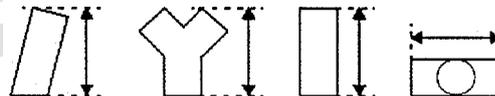
Maximum manifold pressure **0**

Type and number of compressors **N/A**

305. Number and layout of cylinders **8/90 DEG V**

312. Cylinder block material **ALUMINIUM ALLOY**

310. Maximum compression ratio **10.1 – 10.9 : 1**



313. Sleeves a) yes no

b) Material **STEEL**

c) wet dry

314. Bore **99** +/- 0.1 mm

316. Stroke **92** +/- 0.1 mm

321. Cylinderhead a) Number **2** b) Material **ALUMINIUM ALLOY**

324. Fuel feed by injection : a) Make **GM** b) Model **24508208**

f) Position of Injectors:

f1) Manifold Cylinderhead

325. Camshaft a) Number **1** b) Location **CYLINDER ASSEMBLY**
 c) Drive system **CHAIN** f) Type of valve operation **PUSH ROD AND ROCKERS**

327. Intake

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



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328. Exhaust

- a) Material of manifold **STAINLESS STEEL**
- b) Number of manifold elements **2**
- d) Number of valves per cylinder **1**
- p) External Diameter of exhaust pipe between manifold and first silencer **76** mm ± 5%

330. Ignition system

- a) Type **COIL ON PLUG**
- b) Number of plugs per cylinder **1**
- c) Number of distributors **1**
- d) Number of coils **8**

331. Cooling system Capacity **14.3** L

- a) Number **2**
- b) Diameter of the fan **335 & 292** mm
- c) Material of the fan **PLASTIC**
- d) Number of blades **5 & 5**
- e) Type of drive **ELECTRIC MOTOR**
- f) Automatic cut in

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

- a) Type **WET SUMP**
- b) Number of oil pumps **1**
- c) Total capacity **6.2** 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 **REAR UNDER BOOT FLOOR**
- d) Total capacity **75** L

- 402. Fuel pump(s)**
- a)

<input checked="" type="checkbox"/> X	Electrical	<input type="checkbox"/>	Mechanical
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- b) Number **1**

- d) Location **FUEL TANK**
- Fuel Pressure **4 BAR (58 PSI)**

5. ELECTRICAL EQUIPMENT

- 502. Alternator**
- a) Number **1**
- b) Type **ALTERNATOR**
- c) Drive system **BELT**
- d) Nominal power **140** Amp

- 503. Retractable headlights**
- a)

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

6. POWER TRAIN

- 601. Driven wheels**
- front

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

<input checked="" type="checkbox"/> X	yes	<input type="checkbox"/>	no
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- 602. Clutch**
- a) Type **TWIN PLATE DIAPHRAM**
- b) Control system **HYDRAULIC**



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603. Gearbox

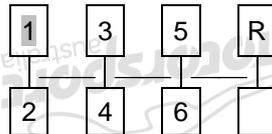
a) Location **MID / CENTRAL** b) Make **TREMEC**

c) Type and location of control **H-PATTERN FLOOR SHIFT**

e) Ratios

	Number of teeth	Ratio	Constant Mesh	Synchro
1	<u>39</u>	<u>2.66:1</u>	—	<u>Y</u>
2	<u>43</u>	<u>1.78:1</u>	—	<u>Y</u>
3	<u>37</u>	<u>1.30:1</u>	—	<u>Y</u>
4	—	<u>1.00:1</u>	—	<u>Y</u>
5	<u>37</u>	<u>0.74:1</u>	—	<u>Y</u>
6	<u>29</u>	<u>0.50:1</u>	—	<u>Y</u>
R	<u>35</u>	<u>2.90:1</u>	—	<u>Y</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

CROWN & PINION

b) Ratio

3.91:1

f) Oil Cooler

yes

no

g) Cooler Type

N/A

606. Shafts

a) Type of longitudinal shafts

HOLLOW 2 PIECE DRIVE SHAFTS

b) Material of longitudinal shafts

STEEL

c) Type of transversal half-shafts

SOLID

d) Material of transversal half-shafts

STEEL

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7. SUSPENSION

701. General

Front		Rear	
INDEPENDENT MCPHERSON STRUT		INDEPENDENT MCPHERSON STRUT	
<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no	<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no
<u>STEEL</u>		<u>STEEL</u>	

702. Helical springs

a) Material

706. Stabiliser

Front	Rear
<u>28.5</u> mm	<u>15.5</u> mm
<u>STEEL</u>	<u>STEEL</u>

b) Effective diameter

c) Material

707. Suspension Dampers

Front	Rear
<u>1</u>	<u>1</u>
<u>TELESCOPIC</u>	<u>TELESCOPIC</u>
<u>HYDRAULIC</u>	<u>HYDRAULIC</u>

a) Number per wheel

b) Type

c) Principle of operation

8. WHEELS

801. Wheels

Front	Rear
<u>19"</u>	<u>19"</u>
<u>9"</u>	<u>9"</u>
<u>+45</u> mm	<u>+45</u> mm

a) Diameter

b) Width

c) Offset

803. Brakes

HYDRAULIC

a) Braking system

b) Number of master cylinders

1

c) Servo-brakes

yes no

c1) Make and type

PBR VACUUM



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	Front	Rear
e) Number of cylinders per wheel	<u>6</u>	<u>4</u>
g) Disc brakes		
g1) Number of pads per wheel	<u>2</u>	<u>2</u>
g2) Number of calipers per wheel	<u>1</u>	<u>1</u>
g3) Caliper material	<u>ALUMINIUM</u>	<u>ALUMINIUM</u>
g4) Thickness of new disc	<u>32 ± 1 mm</u>	<u>25 ± 1 mm</u>
g5) External diameter of the disc	<u>356 ± 1.5 mm</u>	<u>343 ± 1.5 mm</u>
g9) Ventilated discs	X yes <input type="checkbox"/> no	X yes <input type="checkbox"/> no

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

h2) Location of lever **CENTRE CONSOLE**

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

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

Front		Rear	
<u>RACK & PINION</u>		<u>N/A</u>	
X yes	<input type="checkbox"/> no	<input type="checkbox"/> yes	<input type="checkbox"/> no
<u>HYDRAULIC</u>			

9. BODYWORK

901. Interior

- a) Ventilation
- c) Air Conditioning

X yes	<input type="checkbox"/> no
X yes	<input type="checkbox"/> no

b) Heating

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

<input type="checkbox"/> yes	X no
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f1) Type **N/A**

f2) Control system **N/A**

g) Opening system for side windows

Front	Rear
<u>ELECTRIC</u>	<u>ELECTRIC</u>

X) Dashboard



Y) Sunroof



902. Exterior

a) Number of doors 4

b) Tailgate

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

N/A

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

<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
	SIDE SKIRTS	POLYCARBONATE
	REAR WING	POLYCARBONATE



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COMPLEMENTARY INFORMATION

