

**Group 3E RECOGNITION DOCUMENT**

A) Vehicle seen from 3/4 front



B) Vehicle seen from 3/4 rear



**1. GENERAL**

101. Manufacturer

**MERCEDES BENZ**

102. Commercial name(s) - Model and type

**A45 AMG**

103. Engine capacity

**1991** cm<sup>3</sup> Corrected engine capacity **1991 x 1.7 = 3.3847** cm<sup>3</sup>

104. Type of car construction

a) Type

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

106. Number of seats

**5**

**2. DIMENSIONS, WEIGHT**

Minimum Racing Weight

**1480** kg

202. Overall length

**4359** mm ± 1 %

203. Maximum overall width

**2040** mm ± 1 % Where measured **MIRROR TO MIRROR**

204. Width of bodywork

a) At front axle **1790** mm ± 1 %

b) At rear axle **1770** mm ± 1 %

206. Wheelbase **2683** mm ± 1%

207. Maximum track

a) Front **1554** mm

b) Rear **1555** mm

**3. ENGINE**

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



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**Make** Mercedes

**Model** A45 AMG

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

**302. Number of mounts** 2

Engine in its compartment



**304. Supercharging**  yes  no

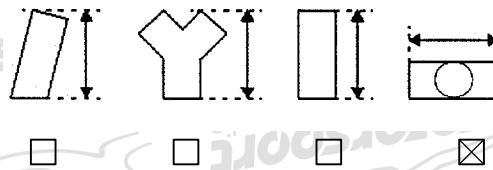
Maximum manifold pressure 1.8 BAR

Type and number of compressors 1 MERCEDES AMG

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

**312. Cylinder block material** ALUMINIUM

**310. Maximum compression ratio** 8.6 : 1



**313. Sleeves** a)  yes  no b) Material STEEL

c)  wet  dry

**314. Bore** 83 +/- 0.1 mm

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

**321. Cylinderhead** a) Number 1 b) Material ALLOY

**324. Fuel feed by injection :** a) Make MERCEDES b) Model DIRECT INJECTION

f) Position of Injectors:

f1)  Manifold  Cylinderhead

**325. Camshaft** a) Number 2 b) Location OVERHEAD  
c) Drive system CHAIN f) Type of valve operation OVERHEAD CAM

**327. Intake**

a) Material of manifold ALLOY c) Number of valves per cylinder 4  
b) Number of manifold elements 1

**328. Exhaust**



**Make** Mercedes**Model** A45 AMG

- a) Material of manifold **CAST IRON**
- b) Number of manifold elements **1**
- d) Number of valves per cylinder **2**
- p) External Diameter of exhaust pipe between manifold and first silencer **76.2** mm ± 5%

**330. Ignition system**

- a) Type **ELECTRONIC**
- b) Number of plugs per cylinder **1**
- c) Number of distributors **N/A**
- d) Number of coils **4**

**331. Cooling system**Capacity **7.8** L

- 332. Cooling fan**
- a) Number **1**
- b) Diameter of the fan **530** mm
- c) Material of the fan **PLASTIC**
- d) Number of blades **9**
- e) Type of drive **ELECTRIC MOTOR**
- f) Automatic cut in  yes  no

**333. Lubrication system**

- a) Type **WET**
- b) Number of oil pumps **1**
- c) Total capacity **5.5** L
- e) Location of the cooler(s) **IN LINE ENGINE BAY**
- f) Type of the cooler(s) **OIL TO WATER**

**4. FUEL CIRCUIT****401. Fuel tank**

- b) Location **UNDER CHASSIS FORWARD OF REAR WHEELS**
- d) Total capacity **56** L

**402. Fuel pump(s)**

- a)  Elelectrical  Mechanical
- b) Number **3**

- d) Location **INSIDE FUEL TANK**
- Fuel Pressure **9 BAR**

**5. ELECTRICAL EQUIPMENT****502. Alternator**

- a) Number **1**
- b) Type **INTERNALLY REGULATED**
- c) Drive system **BELT**
- d) Nominal power **175** Amp

**503. Retractable headlights**

- a)  yes  no
- b) Control system **N/A**

**6. POWER TRAIN****601. Driven wheels**

- front  yes  no
- rear  yes  no

**602. Clutch**

- a) Type **0**
- b) Control system **N/A**



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**Make** Mercedes

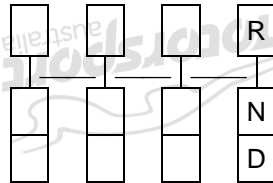
**Model** A45 AMG

**603. Gearbox**

- a) Location **FRONT BESIDE ENGINE**      b) Make **AMG**  
 c) Type and location of control **PADDLESHIFT**  
 e) Ratios

	Number of teeth	Ratio	Constant Mesh	Synchro
1	_____	<b>3.86</b>	_____	_____
2	_____	<b>2.43</b>	_____	_____
3	_____	<b>2.90</b>	_____	_____
4	_____	<b>1.19</b>	_____	_____
5	_____	<b>0.87</b>	_____	_____
6	_____	<b>1.16</b>	_____	_____
7	_____	<b>0.94</b>	_____	_____
R	_____	<b>3.10</b>	_____	_____
Constant	_____	_____	_____	_____

f) Gear change gate



**604. Transfer box / Centre differential**

- a) Ratios \_\_\_\_\_  
 c) Control system of transfer box **ELECTRONIC**      d) Type of central differential \_\_\_\_\_

**605. Final drive**

a) Type of final drive

	Front	Rear
a) Type of final drive	<b>4MATIC</b>	<b>4MATIC</b>
b) Ratio	<b>4.13</b>	<b>4.13</b>
f) Oil Cooler	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no
g) Cooler Type	<b>N/A</b>	<b>N/A</b>

**606. Shafts**

- a) Type of longitudinal shafts **2**  
 b) Material of longitudinal shafts **STEEL**  
 c) Type of transversal half-shafts **CV**  
 d) Material of transversal half-shafts **STEEL**



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**7. SUSPENSION**

**701. General**

	Front	Rear
a) Type of suspension	<b><u>MCPHERSON</u></b>	<b><u>MULTILINK</u></b>
702. Helical springs	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no
a) Material	<b><u>STEEL</u></b>	<b><u>STEEL</u></b>

**705. Other type of suspension**

See description on additional form

**706. Stabiliser**

	Front	Rear
b) Effective diameter	<b><u>25</u></b> mm	<b><u>22</u></b> mm
c) Material	<b><u>STEEL</u></b>	<b><u>STEEL</u></b>

**707. Suspension Dampers**

	Front	Rear
a) Number per wheel	<b><u>1</u></b>	<b><u>1</u></b>
b) Type	<b><u>STRUT</u></b>	<b><u>STRUT</u></b>
c) Principle of operation	<b><u>HYDRAULIC</u></b>	<b><u>HYDRAULIC</u></b>

**8. WHEELS**

**801. Wheels**

	Front	Rear
a) Diameter	<b><u>19"</u></b>	<b><u>19"</u></b>
b) Width	<b><u>8"</u></b>	<b><u>8"</u></b>
c) Offset	<b><u>+45</u></b> mm	<b><u>+45</u></b> mm

**803. Brakes**

a) Braking system

**HYDRAULIC**

b) Number of master cylinders

**1**

c) Servo-brakes

yes  no

c1) Make and type

**TRW VACUUM ASSIST**

	Front	Rear
e) Number of cylinders per wheel	<b><u>4</u></b>	<b><u>2</u></b>
f) <b>Disc brakes</b>		
f1) Number of pads per wheel	<b><u>2</u></b>	<b><u>2</u></b>
f2) Number of calipers per wheel	<b><u>1</u></b>	<b><u>1</u></b>
f3) Caliper material	<b><u>STEEL/ALLOY</u></b>	<b><u>STEEL/ALLOY</u></b>



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f4) Thickness of new disc	<b>32 ± 1 mm</b>	<b>22 ± 1 mm</b>
f5) External diameter of the disc	<b>350 ± 1.5 mm</b>	<b>330 ± 1.5 mm</b>
f9) Ventilated discs	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no

g) Parking brake: g1) Control system **ELECTRIC**  
 g2) Location of lever **BUTTON ADJ GEAR LEVER**

g3) On which wheels  Front  Rear

**804. Steering**

a) Type  
 b) Servo-assistance  
 Type of Assistance

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

**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
<b>ELECTRIC</b>	<b>ELECTRIC</b>

X) Dashboard



**902. Exterior** a) Number of doors **5**

b) Tailgate  yes  no

Front	Rear
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**Make** Mercedes**Model** A45 AMG

c) Door material

**STEEL****STEEL**

d) Front bonnet material

**ALLOY**

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

**GLASS****GLASS**

l) Material of bumper

**PLASTIC****PLASTIC**

n) Exterior Rear wiper

 yes no**XIII) NON METALLIC PARTS OF THE BODY**

Number	Part	Material
1	Rear Wing	Plastic
2	Front Canards	Plastic
3	Front Splitter	Plastic
4	Side skirt	Plastic
5	Front bumper	Plastic
6	Rear bumper	Plastic



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**Make** Mercedes

**Model** A45 AMG



Rear Wing



Front Splitter



Canards



Side Skirt



**Make** Mercedes

**Model** A45 AMG

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**COMPLEMENTARY INFORMATION**

