

**Group 3E RECOGNITION DOCUMENT**

A) Vehicle seen from 3/4 front



B) Vehicle seen from 3/4 rear



**1. GENERAL**

101. Manufacturer **BMW**
102. Commercial name(s) - Model and type **M 240 I COUPE**
103. Engine capacity **2998** cm<sup>3</sup> Corrected engine capacity **2998 x 1.7 = 5096** 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 **1438** kg
202. Overall length **4454** mm ± 1 %
203. Maximum overall width **1774** mm ± 1 % Where measured **BODY**
204. Width of bodywork
- a) At front axle **1769** mm ± 1 %
- b) At rear axle **1774** mm ± 1 %
206. Wheelbase **2690** mm ± 1 %
207. Maximum track
- a) Front **1516** mm
- b) Rear **1534** mm

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

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

**Make** BMW

**Model** BMW M240i Coupe

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**302. Number of mounts** 4

Engine in its compartment



**304. Supercharging**

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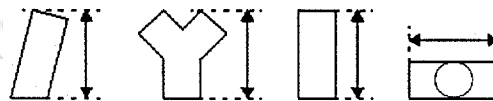
Maximum manifold pressure N/A

Type and number of compressors 1

**305. Number and layout of cylinders** 6 INLINE

**312. Cylinder block material** ALLOY

**310. Maximum compression ratio** 11.0 : 1



<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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**313. Sleeves**

a) <input type="checkbox"/> yes	<input checked="" type="checkbox"/> no
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b) Material STEEL

c) <input type="checkbox"/> wet	<input type="checkbox"/> dry
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**314. Bore** 82 +/- 0.1 mm

**316. Stroke** 94.6 +/- 0.1 mm

**321. Cylinderhead**

a) Number 1

b) Material ALLOY

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

b) Model HIGH PRESSURE

f) Position of Injectors:

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

a) Number 2

b) Location

DOHC

c) Drive system

CHAIN

f) Type of valve operation

HYDRAULIC

**327. Intake**

a) Material of manifold

PLASTIC

b) Number of manifold elements 1

c) Number of valves per cylinder 2

**328. Exhaust**

a) Material of manifold

STEEL

b) Number of manifold elements 2

d) Number of valves per cylinder 2

b) External Diameter of exhaust pipe between manifold and first silencer 75 mm ± 5%

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**330. Ignition system**

- a) Type COMPUTER
- b) Number of plugs per cylinder 1
- c) Number of distributors \_\_\_\_\_
- d) Number of coils 6

**331. Cooling system**

Capacity 7 L

**332. Cooling fan**

- a) Number 1
- b) Diameter of the fan 490 mm
- c) Material of the fan PLASTIC
- d) Number of blades 9
- e) Type of drive ELECTRIC
- f) Automatic cut in  yes  no

**333. Lubrication system**

- a) Type BMW
- b) Number of oil pumps 1
- c) Total capacity 6.5 L
- e) Location of the cooler(s) FRONT
- f) Type of the cooler(s) AIR

**4. FUEL CIRCUIT**

**401. Fuel tank**

- b) Location CENTRE
- d) Total capacity 52 L

**402. Fuel pump(s)**

- a)  Electrical  Mechanical
- b) Number 1
- d) Location TANK
- Fuel Pressure 100 BAR

**5. ELECTRICAL EQUIPMENT**

**502. Alternator**

- a) Number 1
- b) Type DENSO
- c) Drive system BELT
- d) Nominal power 180 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 NA
- b) Control system NA



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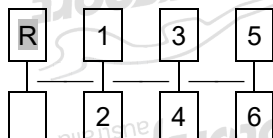
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**603. Gearbox**

- a) Location CENTRE
- b) Make BMW
- c) Type and location of control ZF AUTOMATIC
- e) Ratio

	Number of teeth	Ratio	Constant Mesh	Synchro
1	_____	<u>5.0</u>	_____	
2	_____	<u>3.2</u>	_____	
3	_____	<u>2.143</u>	_____	
4	_____	<u>1.720</u>	_____	
5	_____	<u>1.314</u>	_____	
6	_____	<u>1</u>	_____	
7	_____	<u>.822</u>	_____	
8	_____	<u>.640</u>	_____	
R	_____	<u>3.456</u>	_____	

f) Gear change gate



**604. Transfer box / Centre differential**

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

**605. Final drive**

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

	Front	Rear
a) Type of final drive	<u>N/A</u>	<u>LSD</u>
b) Ratio	<u>N/A</u>	<u>2.81</u>
f) Oil Cooler	<input type="checkbox"/> yes <input type="checkbox"/> no	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no
g) Cooler Type	<u>N/A</u>	<u>N/A</u>

**606. Shafts**

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



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**7. SUSPENSION**

**701. General**

	Front		Rear	
a) Type of suspension	<b><u>INDEPENDANT</u></b>		<b><u>NDEPENDANT</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>	
703. Leaf springs	<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> yes	<input type="checkbox"/> no
a) Material	_____		_____	
704. Torsion bars	<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> yes	<input type="checkbox"/> no
a) Material	_____		_____	

**705. Other type of suspension**

See description on additional form

**706. Stabiliser**

	Front	Rear
b) Effective diameter	<b><u>25</u> mm</b>	<b><u>15</u> mm</b>
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>COIL OVER</u></b>	<b><u>GAS DAMPER</u></b>
c) Principle of operation	<b><u>FLUID</u></b>	<b><u>FLUID</u></b>

**8. WHEELS**

**801. Wheels**

	Front	Rear
a) Diameter	<b><u>19"</u></b>	<b><u>19"</u></b>
b) Width	<b><u>7.5"</u></b>	<b><u>8"</u></b>
c) Offset	<b><u>45</u> mm</b>	<b><u>52</u> mm</b>



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**803. Brakes**

- a) Braking system
- b) Number of master cylinders
- c) Servo-brakes

**HYDRAULIC**

1

yes  no

c1) Make and type **BMW**

**g) Disc brakes**

- g) Number of pistons per caliper
- 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
<u>4</u>	<u>2</u>
<u>2</u>	<u>2</u>
<u>1</u>	<u>1</u>
<b>ALLOY</b>	<b>ALLOY</b>
<u>30</u> ± 1 mm	<u>24</u> ± 1 mm
<u>370</u> ± 1.5 mm	<u>345</u> ± 1.5 mm
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

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

h2) Location of lever **CENTRE**

h3) On which wheels  Front  Rear

**804. Steering**

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

Front		Rear	
<b>BMW</b>		<b>N/A</b>	
<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> yes	<input type="checkbox"/> no
<b>HYDRO ELECTRIC</b>		<b>N/A</b>	

**9. BODYWORK**

**901. Interior**

- a) Ventilation
- c) Air Conditioning

yes  no  
 yes  no

b) Heating  yes  no

f) Optional sun roof

yes  no

f1) Type **N/A**

f2) Control system **N/A**

Front	Rear
<b>ELECTRIC</b>	<b>FIXED</b>

g) Opening system for side windows

X) Dashboard

Y) Sunroof



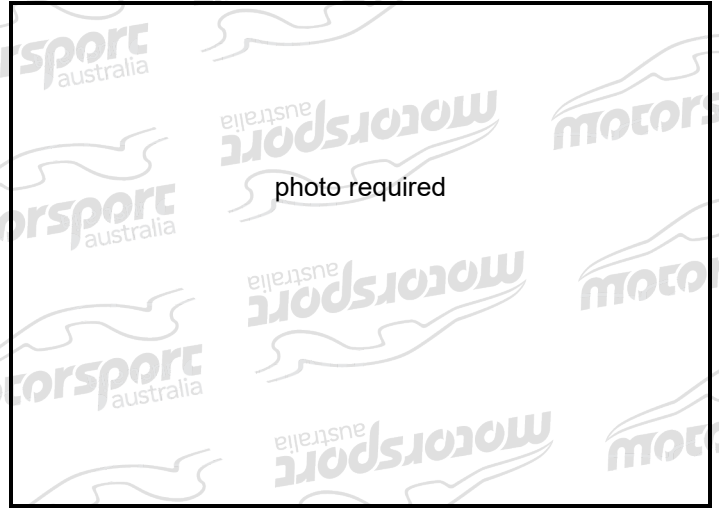
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902. Exterior

a) Number of doors **2**

b) Tailgate

<input type="checkbox"/> yes	<input checked="" type="checkbox"/> no
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Front	Rear
<b><u>STEEL</u></b>	<b><u>N/A</u></b>

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**

k) Side window material

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

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
1	FRONT BUMPER	PLASTIC
1	REAR BUMPER	PLASTIC

Drawing / photo required



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**COMPLEMENTARY INFORMATION**

