

**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

**1M**

103. Engine capacity

**2979** cm<sup>3</sup>

Corrected engine capacity

**2979 x 1.7 = 5064** 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

**4**

**2. DIMENSIONS, WEIGHT**

Minimum Racing Weight

**1462** kg

202. Overall length

**4380** mm ± 1 %

203. Maximum overall width

**1803** mm ± 1 % Where measured **REAR WHEEL ARCH**

204. Width of bodywork

a) At front axle

**1772** mm ± 1 %

b) At rear axle

**1803** mm ± 1 %

206. Wheelbase **2660** mm ± 1 %

207. Maximum track

a) Front **1541** mm

b) Rear **1541** mm

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Make **BMW** Model **M Coupe (1 Series)**

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

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

302. Number of mounts **2**

Engine in its compartment



304. Supercharging

<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no
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Maximum manifold pressure **0.95BAR**

Type and number of compressors **2 X TURBOCHARGERS**

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

312. Cylinder block material **ALUMINIUM ALLOY**

310. Maximum compression ratio **10.2 : 1**



X    X

313. Sleeves

a) <input checked="" type="checkbox"/> yes	<input type="checkbox"/> no
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b) Material **CAST IRON**

c) <input type="checkbox"/> wet	<input checked="" type="checkbox"/> dry
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314. Bore **84.00** +/- 0.1 mm

316. Stroke **89.60** +/- 0.1 mm

321. Cylinderhead a) Number **1**

b) Material **ALUMINIUM ALLOY**

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

b) Model **DIRECT INJECTION (HPI)**

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 **CYLINDERHEAD**

c) Drive system **CHAIN**

f) Type of valve operation **ROCKER ARM- VARIABLE DOUBLE VANOS**

327. Intake

a) Material of manifold **THERMOPLASTIC**

b) Number of manifold elements **1**

c) Number of valves per cylinder **2**

328. Exhaust



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- a) Material of manifold **STAINLESS STEEL**
- b) Number of manifold elements **2**
- d) Number of valves per cylinder **2**
- p) External Diameter of exhaust pipe between manifold and first silencer **62.5 X 2** mm ± 5%

**330. Ignition system**

- a) Type **b)ELECTRONIC**
- Number of plugs per cylinder **1**
- c) Number of distributors **N/A**
- d) Number of coils **6**

**331 Cooling system**

Capacity **10.4** L

**332. Cooling fan**

- a) Number **1**
- b) Diameter of the fan **450** mm
- c) Material of the fan **PLASTIC**
- d) Number of blades **10**
- 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**
- b) Number of oil pumps **1**
- c) Total capacity **6.5** L
- e) Location of the cooler(s) **RHF** **1**
- f) Type of the cooler(s) **OIL AIR**

**4. FUEL CIRCUIT**

**401. Fuel tank**

- b) Location **IN FRONT OF REAR AXLE UNDER FLOOR**
- d) Total capacity **53** L

**402. Fuel pump(s)**

- a) 

<input checked="" type="checkbox"/> Eleectrical	<input checked="" type="checkbox"/> Mechanical
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- b) Number **2**
- d) Location **FUEL TANK X 1 ENGINE X1**
- Fuel pressure **200bar**

**5. ELECTRICAL EQUIPMENT**

**502. Alternator**

- a) Number **1**
- b) Type **DC REGULATED**
- c) Drive system **BELT**
- d) Nominal power **180** Amp

**503. Retractable headlights**

- a) 

<input type="checkbox"/> yes	<input checked="" type="checkbox"/> no
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- b) Control system \_\_\_\_\_

**6. POWER TRAIN**

**601. Driven wheels**

- front 

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

<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no
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**602. Clutch**

- a) Type **DRY SINGLE PLATE**
- b) Control system **HYDRAULIC**

**603. Gearbox**

- a) Location **INLINE**
- b) Make **GETRAG**
- c) Type and location of control **MANUAL**



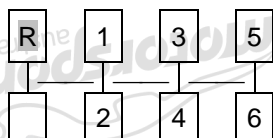
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e) Ratios

	Number of teeth	Ratio	Constant Mesh	Synchro
1	_____	<b>4.110</b>	<b>N</b>	<b>Y</b>
2	_____	<b>2.315</b>	<b>N</b>	<b>Y</b>
3	_____	<b>1.542</b>	<b>N</b>	<b>Y</b>
4	_____	<b>1.179</b>	<b>N</b>	<b>Y</b>
5	_____	<b>1.000</b>	<b>N</b>	<b>Y</b>
6	_____	<b>0.846</b>	<b>N</b>	<b>Y</b>
R	_____	<b>3.727</b>	<b>N</b>	<b>Y</b>
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**

**M VARIABLE LOCK**

b) Ratio

**3.15**

f) Oil Cooler

yes

no

yes

X no

g) Cooler Type

606. Shafts

a) Type of longitudinal shafts

**PROPELLER SHAFT WITH UNIVERSAL JOINTS**

b) Material of longitudinal shafts

**STEEL**

c) Type of transversal half-shafts

**SHAFT WITH CV JOINTS**

d) Material of transversal half-shafts

**STEEL**

7. SUSPENSION

701. General

a) Type of suspension

**Front**

**Rear**

**TWIN ARM MCPHERSON STRUT**

**INDEPENDANT 5 LINK**

702. Helical springs

X yes

no

X yes

no



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a) Material  
**703. Leaf springs**

<u>STEEL</u>		<u>STEEL</u>	
<input type="checkbox"/> yes	X no	<input type="checkbox"/> yes	X no
<u>N/A</u>		<u>N/A</u>	
<input type="checkbox"/> yes	X no	<input type="checkbox"/> yes	X no
<u>N/A</u>		<u>N/A</u>	

a) Material  
**704. Torsion bars**

**705. Other type of suspension** See description on additional form

**706. Stabiliser**  
 b) Effective diameter

Front	Rear
<u>26.5</u> mm	<u>22.5</u> mm
<u>STEEL</u>	<u>STEEL</u>

c) Material  
**707. Suspension Dampers**

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

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

**8. WHEELS**

**801. Wheels**

a) Diameter  
 b) Width  
 c) Offset

Front	Rear
<u>19"</u>	<u>19"</u>
<u>9"</u>	<u>10"</u>
<u>31</u> mm	<u>25</u> mm

**803. Brakes**

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

HYDRAULIC

1

yes  no

c1) Make and type **BMW VACUUM**

e) Number of cylinders per wheel  
 f) **Drum brakes**  
 f1) Internal diameter  
 f2) Number of linings per wheel  
 g) **Disc brakes**

Front	Rear
<u>2</u>	<u>2</u>
<u>N/A</u>	<u>N/A</u>
<u>N/A</u>	<u>N/A</u>



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- 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

2  
1  
ALUMINIUM  
30 ± 1 mm  
360 ± 1.5 mm

2  
1  
ALUMINIUM  
24 ± 1 mm  
350 ± 1.5 mm

X yes  no

X yes  no

h) Parking brake: h1) Control system CABLE

h2) Location of lever CENTRE CABIN FLOOR

Front  Rear

**804. Steering**

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

Front		Rear	
<u>RACK AND PINION</u>		<u>N/A</u>	
Y 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  no  
X yes  no

b) Heating

X yes  no

f) Optional sun roof

yes  no

f1) Type

f2) Control system

g) Opening system for side windows

Front	Rear
<u>ELECTRIC</u>	<u>N/A</u>

X) Dashboard

Y) Sunroof **no option for 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 COMPOSITE</u></b>	<b><u>PLASTIC COMPOSITE</u></b>

l) Material of bumper

**PLASTIC COMPOSITE**

**PLASTIC COMPOSITE**

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
51118052493	FRONT BUMPER	PLASTIC COMPOSITE
51128053878	REAR BUMPER	PLASTIC COMPOSITE



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**COMPLEMENTARY INFORMATION**

**Rear Spoiler - Carbon**

BMW Part No. 51710432165

No.	Description	Supp.	Qty	From	Up To	Part Number	Price	Notes
<p><i>i</i> Important notice: The installation instructions are not included in the retrofit kit. Print out the latest update of the instructions from the Aftersales Assistance Portal (ASAP) and hand them over to the customer. Important: The Performance Cold Air Package, Kit No. 51 74 0 442 875, must also be installed on 135i vehicles, as the engine can overheat without it.</p>								
07	Outside mirror shroud, Carbon, left	M PERFORMANCE	1			<a href="#">51162157813</a>		EBA 2163495
07	Outside mirror shroud, Carbon, right	M PERFORMANCE	1			<a href="#">51162157880</a>		EBA 2163495
For vehicles with National version China and M Driver's Package		L8AAA=No S7MEA=No						
09	Rear spoiler	CARBON	1			<a href="#">51710432165</a>	\$532.00	+core, EBA 0430370
only in conjunction with								
--	Adhesive 1K		1			<a href="#">82699408866</a>	\$14.79	

