

Group 3E Recognition Document
UPDATE Issued 28/03/2022

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

M4 F82/F32 COUPE

103. Engine capacity

2979 cm³ Corrected engine capacity **2979 x 1.7 = 5063** cm³

104. Type of car construction

a) Type

separate chassis

monocoque

b) Material of chassis / bodyshell

STEEL/CARBON FIBRE REINFORCED PLASTIC/ALUMINUM

106. Number of seats

4

2. DIMENSIONS, WEIGHT

Minimum Racing Weight

1494 kg

202. Overall length

4671 mm ± 1 %

203. Maximum overall width

1870 mm ± 1 % Where measured **SIDE GAURDS**

204. Width of bodywork

a) At front axle

1870 mm ± 1 %

b) At rear axle

1870 mm ± 1 %

206. Wheelbase **2812** mm ± 1%

207. Maximum track

a) Front **1545** mm

b) Rear **1594** mm

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Make BMW

Model M4 Coupe

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 yes no

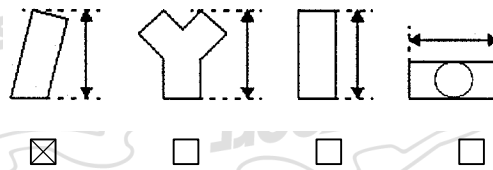
Maximum manifold pressure **1.79 BAR**

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

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

312. Cylinder block material **ALUMINIUM**

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



313. Sleeves a) yes no

b) Material **IRON**

c) wet dry

314. Bore **84** +0/- 0.1 mm

316. Stroke **89.6** +0/- 0.1 mm

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

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

f) Position of Injectors:

f1) Manifold Cylinderhead

325. Camshaft a) Number **2** b) Location **CYLINDER HEAD**
c) Drive system **CHAIN** f) Type of valve operation **DOHC, VVTI**

327. Intake

a) Material of manifold **PLASTIC**

b) Number of manifold elements **1**

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



Make **BMW**Model **M4 Coupe****328. Exhaust**

- a) Material of manifold **CAST IRON**
- b) Number of manifold elements **3**
- d) Number of valves per cylinder **3**
- p) External Diameter of exhaust pipe between manifold and first silencer **70** mm ± 5%

330. Ignition system

- a) Type **ELECTRONIC**
- b) Number of plugs per cylinder **1**
- c) Number of distributors **0**
- d) Number of coils **6**

331. Cooling systemCapacity **13.9** L**332. Cooling fan**

- a) Number **1**
- b) Diameter of the fan **440** mm
- c) Material of the fan **PLASTIC**
- d) Number of blades **9**
- e) Type of drive **ELECTRONIC**
- f) Automatic cut in yes no

333. Lubrication system

- a) Type **WET SUMP**
- b) Number of oil pumps **2**
- c) Total capacity **6.5** L
- e) Location of the cooler(s) **FRONT**
- f) Type of the cooler(s) **AIR TO AIR**

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

- b) Location **UNDER VEHICLE**
- d) Total capacity **60** L

402. Fuel pump(s)

- a) Electrical Mechanical
- b) Number **3**
- d) Location **FUEL TANK / ENGINE**
- Fuel Pressure **5 BAR / 500 BAR**

5. ELECTRICAL EQUIPMENT**502. Alternator**

- a) Number **1**
- b) Type **BOSCH**
- c) Drive system **BELT**
- d) Nominal power **210** Amp

503. Retractable headlights

- a) yes no
- b) Control system

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

- front yes no
- rear yes no

602. Clutch

- a) Type **DUAL CLUTCH WET**
- b) Control system **ELECTRONIC**

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Make BMW

Model M4 Coupe

603. Gearbox

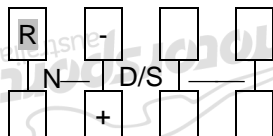
a) Location **LOGITUDINAL BEHIND ENGINE** b) Make **GETRAG**

c) Type and location of control **AUTOMATIC FLOOR AND PADDLE**

e) Ratios

	Number of teeth	Ratio	Constant Mesh	Synchro
1	_____	<u>4.806:1</u>	_____	_____
2	_____	<u>2.593:1</u>	_____	_____
3	_____	<u>1.701:1</u>	_____	_____
4	_____	<u>1.277:1</u>	_____	_____
5	_____	<u>1.000:1</u>	_____	_____
6	_____	<u>0.844:1</u>	_____	_____
7	_____	<u>0.671:1</u>	_____	_____
R Constant mesh	_____		_____	_____

f) Gear change gate



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>HYPOID LSD</u>
b) Ratio	<u>N/A</u>	<u>3.462:1</u>
f) Oil Cooler	<input type="checkbox"/> yes	<input type="checkbox"/> no
g) Cooler Type	<u>N/A</u>	<u>PLATE / FIN</u>

606. Shafts

a) Type of longitudinal shafts **1 PIECE WITH CV**

b) Material of longitudinal shafts **CARBON COMPOSITE**

c) Type of transversal half-shafts **CV**

d) Material of transversal half-shafts **STEEL**



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Model M4 Coupe

7. SUSPENSION

701. General

	Front	Rear
a) Type of suspension	MCPHERSON	MULTI-LINK
<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no	<input checked="" type="checkbox"/> yes
<input type="checkbox"/> no	<input type="checkbox"/> no	<input type="checkbox"/> no
a) Material	STEEL	STEEL
703. Leaf springs	<input type="checkbox"/> yes	<input checked="" type="checkbox"/> no
<input type="checkbox"/> yes	<input checked="" type="checkbox"/> no	<input type="checkbox"/> yes
<input type="checkbox"/> no	<input type="checkbox"/> no	<input checked="" type="checkbox"/> no
a) Material	N/A	N/A
704. Torsion bars	<input type="checkbox"/> yes	<input checked="" type="checkbox"/> no
<input type="checkbox"/> yes	<input checked="" type="checkbox"/> no	<input type="checkbox"/> yes
<input type="checkbox"/> no	<input type="checkbox"/> no	<input checked="" type="checkbox"/> no
a) Material	N/A	N/A

705. Other type of suspension

See description on additional form

706. Stabiliser

	Front	Rear
b) Effective diameter	24 mm	23 mm
c) Material	STEEL	STEEL

707. Suspension Dampers

	Front	Rear
a) Number per wheel	1	1
b) Type	COIL OVER	TWIN TUBE
c) Principle of operation	HYDRAULIC	HYDRAULIC

8. WHEELS

801. Wheels

	Front	Rear
a) Diameter	20"	20"
b) Width	9"	10"
c) Offset	+29 mm	+40 mm

803. Brakes

a) Braking system

HYDRAULIC

b) Number of master cylinders

1

c) Servo-brakes

yes no

c1) Make and type

BOSCH



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Model M4 Coupe

	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>38 ± 1 mm</u>	<u>28 ± 1 mm</u>
g5) External diameter of the disc	<u>400 ± 1.5 mm</u>	<u>380 ± 1.5 mm</u>
g9) Ventilated discs	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no

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

h2) Location of lever **CENTRE FLOOR**

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

a) Type

Front		Rear	
<u>RACK PINION</u>		<u>N/A</u>	
<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> yes	<input type="checkbox"/> no
<u>ELECTRONIC</u>		<u>N/A</u>	

b) Servo-assistance

Type of Assistance

9. BODYWORK

901. Interior

a) Ventilation

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

c) Air Conditioning

b) Heating

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

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

f2) Control system N/A

g) Opening system for side windows

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

X) Dashboard

Y) Sunroof



902. Exterior

a) Number of doors 2

b) Tailgate

<input type="checkbox"/> yes	<input checked="" type="checkbox"/> no
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Make **BMW**Model **M4 Coupe**

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

c) Door material

d) Front bonnet material **ALUMINIUM** e) Rear bootlid / tailgate material **PLASTIC/ALUMINIUM**f) Bodywork material **STEEL/ALUMINIUM/CARBON COMPOSITE** g) Rear window material **GLASS**i) Rear quarter window material **GLASS**

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

k) Side window material

l) Material of bumper

n) Exterior Rear wiper

<input type="checkbox"/> yes	<input checked="" type="checkbox"/> no
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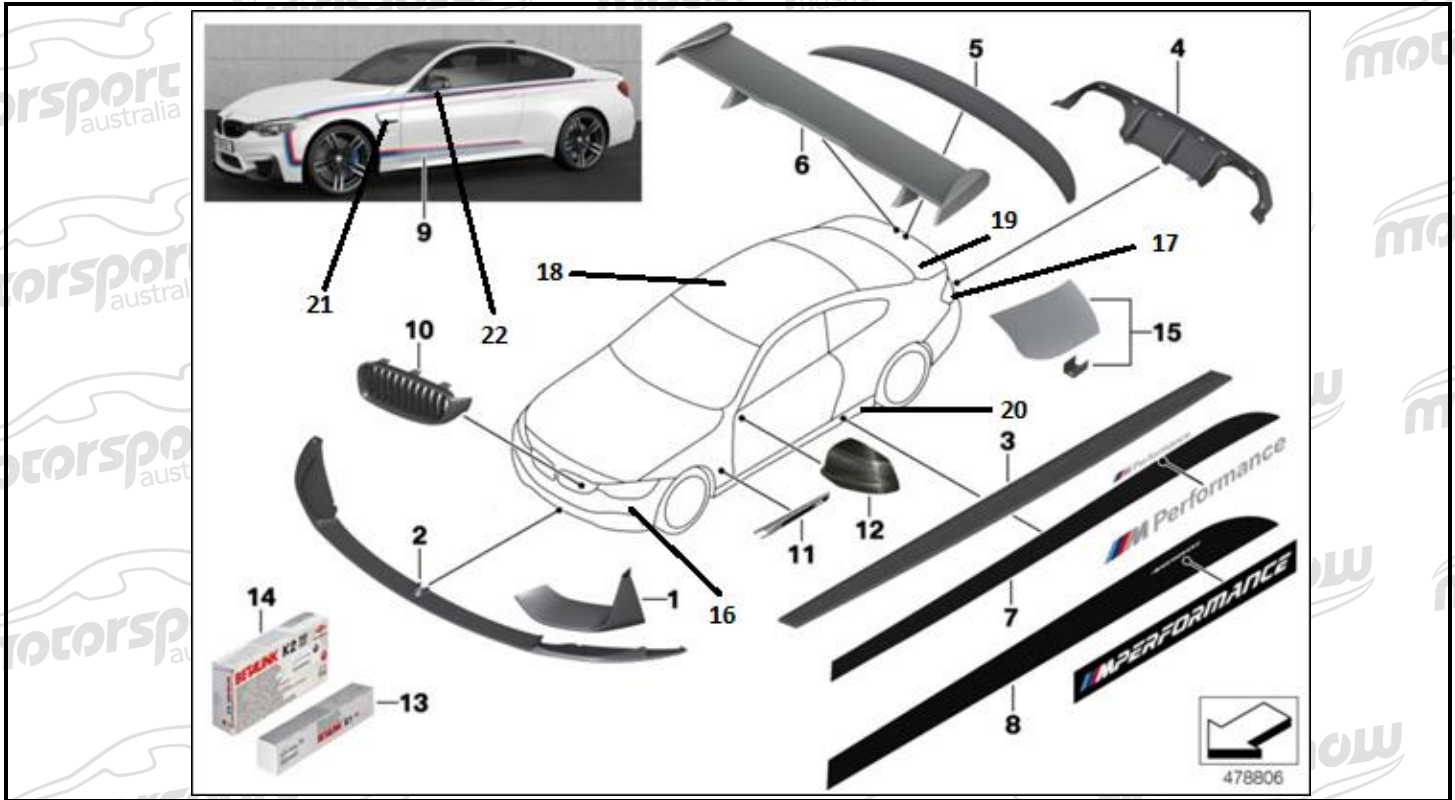
XIII) NON METALLIC PARTS OF THE BODY

Number	Part	Material
18	Roof panel	CFRP (Carbon Fibre Reinforced Plastic)
19	Rear trunk lid	Plastic(outer shell), Aluminium(inner structure)
17	Rear bumper	Plastic
16	Fron bumper	Plastic
20	Side Skirts	Plastic
21	Front Fender Kidney Grill/Vent	Plastic
22	Mirrors	Plastic
Additional page	Refer to information on carbon body parts	CFRP

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Model M4 Coupe



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COMPLEMENTARY INFORMATION

1. Carbon Ceramic Brake Kit**Genuine BMW Australian part number is: BM-34112358378****2. M Performance Accessories****List of genuine parts available from Australian BMW.**

Option Permitted:

6. POWER TRAIN**606. Shafts**

b) Material of longitudinal shafts

STEEL