

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

M3 F80 SEDAN COMPETITION PACK

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

5

2. DIMENSIONS, WEIGHT

Minimum Racing Weight

1478 kg

202. Overall length

4671 mm ± 1 %

203. Maximum overall width

2037 mm ± 1 % Where measured **MIRRORS**

204. Width of bodywork

a) At front axle

1877 mm ± 1 %

b) At rear axle

1877 mm ± 1 %

206. Wheelbase **2812** mm ± 1%

207. Maximum track

a) Front **1579** mm

b) Rear **1603** mm

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Model M3 (F80)

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

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

302. Number of mounts **2**

Engine in its compartment



304. Supercharging **yes** **no**

Maximum manifold pressure **1.79**

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

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



312. Cylinder block material **ALUMINUM**

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

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

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 **ALUMINUM**

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 **CHAINED** f) Type of valve operation **DOHV, VVTI**

327. Intake

a) Material of manifold **PLASTIC**

b) Number of manifold elements **1**

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



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328. Exhaust

- a) Material of manifold **CAST IRON**
- b) Number of manifold elements **2**
- d) Number of valves per cylinder **2**
- 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 system Capacity **13.9** L

- 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

<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 **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)

<input checked="" type="checkbox"/>	Electrical	<input type="checkbox"/>	Mechanical
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- b) Number **4**
- 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)

<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 **DUAL CLUTCH WET**
- b) Control system **ELECTRONIC**

- 603. Gearbox **GETRAG**
- a) Location **LONGITUDINAL BEHIND ENGINE**
- b) Make _____



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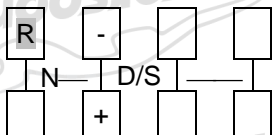
c) Type and location of control

AUTOMATIC 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>	_____	_____
R	_____	<u>0.671:1</u>	_____	_____
Constant	_____	_____	_____	_____

f) Gear change gate



604. Transfer box / Centre differential

a) Ratios

N/A

c) Control system of transfer box

d) Type of central differential

605. Final drive

a) Type of final drive

N/A

HYPOID LSD

b) Ratio

3.462:1

f) Oil Cooler

yes

no

yes

no

g) Cooler Type

FINS

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

7. SUSPENSION



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701. General

Front		Rear	
<u>MCPHERSON</u>		<u>MULTI-LINK</u>	
<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no	<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no
<u>STEEL</u>		<u>STEEL</u>	

a) Type of suspension

702. Helical springs

a) Material

705. Other type of suspension

See description on additional form

706. Stabiliser

Front	Rear
<u>24</u> mm	<u>23</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>COIL OVER</u>	<u>TWIN TUBE</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>10"</u>
<u>29</u> mm	<u>40</u> mm

a) Diameter

b) Width

c) Offset

803. Brakes

a) Braking system

b) Number of master cylinders

c) Servo-brakes

HYDRAULIC

1

yes no

c1) Make and type

BOSCH

Front	Rear
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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>ALUMINUM</u>	<u>ALUMINUM</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 CONSOLE

<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

b) Heating

<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no
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c) Air Conditioning

f) Optional sun roof

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

f2) Control system

g) Opening system for side windows

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

X) Dashboard

Y) Sunroof



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902. Exterior

a) Number of doors **4**

b) Tailgate yes no

Front	Rear
<u>STEEL</u>	<u>STEEL</u>

c) Door material

d) Front bonnet material **ALUMINUM**

e) Rear bootlid / tailgate material **ALUMINUM/PLASTIC**

f) Bodywork material **STEEL/ALUMINUM/CARBON COMPOSITE**

h) 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
	ROOF PANEL	CARBON FIBRE REINFORCED PLASTIC
	REAR BOOT LID	PLASTIC AND ALUMINUM
	REAR BUMPER	PLASTIC
	FRONT BUMPER	PLASTIC
	KIDNEY GRILLS	PLASTIC
	MIRRORS	PLASTIC
	DOOR HANDLES	PLASTIC



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Drawing / photo required



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COMPLEMENTARY INFORMATION

