

Group 3E Recognition FORM

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

M2 F87 COMPETITION

103. Engine capacity

2979 cm³

Corrected engine capacity

2979 x 1.7 = 5064 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

Tare Weight

1518 kg

Minimum Racing Weight

1496 kg

202. Overall length

4661 mm ± 1 %

203. Maximum overall width

1854 mm ± 1 % Where measured **RVD**

204. Width of bodywork

a) At front axle

1854 mm ± 1 %

b) At rear axle

1854 mm ± 1 %

206. Wheelbase **2693** mm ± 1%

207. Maximum track

a) Front **1579** mm

b) Rear **1601** mm

Make **BMW**

Model **M2 (F87 Competition)**

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 **N/A**

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** +/- 0.1 mm

316. Stroke **89.6** +/- 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**

328. Exhaust

a) Material of manifold **CAST IRON**
b) Number of manifold elements **2** d) Number of valves per cylinder **2**

3-21-013

Make BMW

Model M2 (F87 Competition)

p) External Diameter of exhaust pipe between manifold and first silencer 65 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 10 L

332. Cooling fan a) Number 1 b) Diameter of the fan 495 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 52 L

402. Fuel pump(s) a) Elelectrical Mechanical b) Number 3

d) Location FUEL TANK / ENGINE Fuel Pressure 5 BAR/ 200 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

603. Gearbox a) Location LONGITUDINAL BEHIND ENGINE b) Make GETRAG
 c) Type and location of control AUTOMATIC AND PADDLE
 e) Ratios

Number of teeth	Ratio	Constant Mesh	Synchro
-----------------	-------	---------------	---------



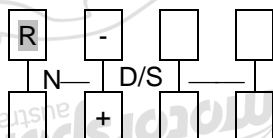
3-21-013

Make BMW

Model M2 (F87 Competition)

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	_____	<u>4.172</u>	_____	_____

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

2 PIECE

b) Material of longitudinal shafts

STEEL

c) Type of transversal half-shafts

CV

d) Material of transversal half-shafts

STEEL

7. SUSPENSION

701. General

a) Type of suspension

MCPHERSON

MULTI-LINK

702. Helical springs

yes

no

yes

no

3-21-013

Make BMW

Model M2 (F87 Competition)

a) Material

<u>STEEL</u>	<u>STEEL</u>
---------------------	---------------------

705. Other type of suspension

See description on additional form

706. Stabiliser

b) Effective diameter

Front	Rear
<u>24.6</u> mm	<u>22</u> mm
<u>STEEL</u>	<u>STEEL</u>

c) Material

707. Suspension Dampers

a) Number per wheel

Front	Rear
<u>1</u>	<u>1</u>
<u>COIL OVER</u>	<u>TWIN TUBE</u>
<u>HYDRAULIC</u>	<u>HYDRAULIC</u>

b) Type

c) Principle of operation

8. WHEELS

801. Wheels

a) Diameter

Front	Rear
<u>19</u> "	<u>19</u> "

b) Width

<u>9</u> "	<u>10</u> "
-------------------	--------------------

c) Offset

<u>29</u> mm	<u>40</u> mm
---------------------	---------------------



3-21-013

Make BMW

Model M2 (F87 Competition)

803. Brakes

a) Braking system

HYDRAULIC

b) Number of master cylinders

1

c) Servo-brakes

yes no

c1) Make and type

BOSCH

	Front	Rear
e) Number of pistons 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>36 ± 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

Front Rear

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

yes no

c) Air Conditioning

yes no

b) Heating

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>ELECTRIC</u>

X) Dashboard

Y) Sunroof

3-21-013

Make BMW

Model M2 (F87 Competition)



N/A

902. Exterior

a) Number of doors 2

b) Tailgate

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

c) Door material

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

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
<u>GLASS</u>	<u>GLASS</u>
<u>PLASTIC</u>	<u>PLASTIC</u>

l) Material of bumper

PLASTIC

PLASTIC

n) Exterior Rear wiper

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

XIII) NON METALLIC PARTS OF THE BODY

Number	Part	Material
	REAR BUMPER	PLASTIC
	FRONT BUMPER	PLASTIC
	KIDNEY GRILLS	PLASTIC

Make BMW

Model M2 (F87 Competition)

3-21-013

	MIRRORS	PLASTIC
	DOOR HANDLES	PLASTIC
	BOOT LID	CARBON (OPTIONAL)
	BONNET	CARBON (OPTIONAL)
	ROOF	CARBON (OPTIONAL)
	FRONT SPLITTER	CARBON (OPTIONAL)
	REAR WING	CARBON (OPTIONAL)
	REAR DIFFUSER	CARBON (OPTIONAL)
	FRONT GUARDS	CARBON (OPTIONAL)
	REAR SIDE WINGLETS	CARBON (OPTIONAL)
	REAR SPOILER	CARBON (OPTIONAL)

3-21-013

Make BMW

Model M2 (F87 Competition)

COMPLEMENTARY INFORMATION

Optional BMW Motorsport Competition Carbon Parts



51192449476 Carbon Front Splitter



51192409319 Carbon Rear Wing



41622460278 Carbon Boot

3-21-013

Make BMW

Model M2 (F87 Competition)

COMPLEMENTARY INFORMATION



51192361666 Carbon Rear Diffuser



41312460277 Carbon Roof



41612449807 Carbon Bonnet

3-21-013

Make BMW

Model M2 (F87 Competition)

COMPLEMENTARY INFORMATION



51192365985 and 51192365984 Carbon Fibre Rear Winglets



41352449803 & 43152449804 Carbon side Panels



51622334541 Carbon Rear Spoiler