

**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 **G87 M2**
- 103. Engine capacity **3000** cm<sup>3</sup> Corrected engine capacity **2993 x 1.7 = 5088** cm<sup>3</sup>
- 104. Type of car construction
  - a) Type  separate chassis  **monocoque**
  - b) Material of chassis / bodyshell **STEEL**
- 106. Number of seats **FOUR**

**2. DIMENSIONS, WEIGHT**

- Tare Weight **1668** kg RVD CPA Number. **VTA-060120 20230213**
- Minimum Racing Weight **1602** kg
- 202. Overall length **4850** mm ± 1 %
- 203. Maximum overall width **1887** mm ± 1 % Where measured **AT REAR AXLE**
- 204. Width of bodywork
  - a) At front axle **1885** mm ± 1 %
  - b) At rear axle **1887** mm ± 1 %
- 206. Wheelbase **2747** mm ± 1 %
- 207. Maximum track
  - a) Front **1617** mm
  - b) Rear **1605** mm

Make

Model

**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 **TWO**

Engine in its compartment



304. Supercharging

yes

no

Maximum manifold pressure

**N/A**

Type and number of compressors

**TURBOCHARGER/2**

305. Number and layout of cylinders

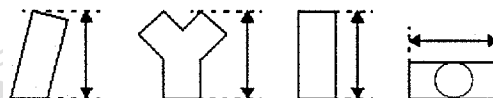
**6 SLANT IN LINE**

312. Cylinder block material

**ALUMINIUM**

310. Maximum compression ratio

**9.3 : 1**



313. Sleeves

a)

yes

no

b) Material **ALLOY**

c)

wet

dry

314. Bore

**84** +0/- 0.1 mm

316. Stroke

**90** +0/- 0.1 mm

321. Cylinderhead

a) Number **ONE**

b) Material **ALUMINIUM**

**Make** \_\_\_\_\_ **Model** \_\_\_\_\_

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

f) Position of Injectors:

f1)  **Manifold**  **Cylinderhead**

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

327. Intake

a) Material of manifold **PLASTIC**  
b) Number of manifold elements **ONE** c) Number of valves per cylinder **TWO**

328. Exhaust

a) Material of manifold **STEEL**  
b) Number of manifold elements **TWO** d) Number of valves per cylinder **TWO**

p) External Diameter of exhaust pipe between manifold and first silencer **70** mm ± 5%

330. Ignition system

a) Type **COIL ON PLUG ELECTRONIC** b) Number of plugs per cylinder **ONE**  
c) Number of distributors **ZERO** d) Number of coils **SIX**

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 **NINE**

e) Type of drive **ELECTRIC** f) Automatic cut in  yes  no

333. Lubrication system a) Type **WET SUMP** b) Number of oil pumps **TWO**

c) Total capacity **7.0** L

e) Location of the cooler(s) **FRONT** f) Type of the cooler(s) **AIR TO OIL**

#### 4. FUEL CIRCUIT

401. Fuel tank  
b) Location **UNDER VEHICLE (APRON REAR SEAT AREA)**

d) Total capacity **52** L

402. Fuel pump(s) a)  Electrical  Mechanical b) Number **THREE**

d) Location **ELECTRICAL IN TANK, 2 X MECHANICAL ON ENGINE**

Fuel Pressure **5 BAR/200**

**3-24-005A**

Make \_\_\_\_\_ Model \_\_\_\_\_

**5. ELECTRICAL EQUIPMENT**

502. Alternator a) Number **ONE** b) Type **BOSCH**  
 c) Drive system **BELT** d) Nominal power **210** Amp

503. Retractable headlights a)  yes  no b) Control system \_\_\_\_\_

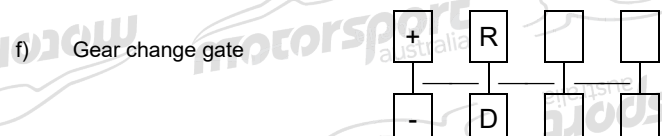
**6. POWER TRAIN**

601. Driven wheels front  yes  no rear  yes  no

602. Clutch a) Type **TORQUE CONVERTER / AUTOMATIC**  
 b) Control system **ELECTRONIC**

603. Gearbox a) Location **LONGITUDINAL BEHIND ENGINE** b) Make **ZF**  
 c) Type and location of control **AUTOMATIC & STEERING WHEEL PADDLE**  
 e) Ratios

	Number of teeth	Ratio	Constant Mesh	Synchro
1	_____	<b>5.00</b>	_____	_____
2	_____	<b>3.20</b>	_____	_____
3	_____	<b>2.143</b>	_____	_____
4	_____	<b>1.720</b>	_____	_____
5	_____	<b>1.313</b>	_____	_____
6	_____	<b>1.00</b>	_____	_____
7	_____	<b>0.823</b>	_____	_____
8	_____	<b>0.640</b>	_____	_____
R	_____	<b>3.478</b>	_____	_____
Constant	_____	_____	_____	_____



604. Transfer box / Centre differential a) Ratios **N/A**  
 c) Control system of transfer box **N/A** d) Type of central differential **N/A**



**3-24-005A**

**Make**

**Model**

**605. Final drive**

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

Front		Rear	
<b><u>N/A</u></b>		<b><u>ELECTRONIC CONTROL HYPOID LSD</u></b>	
_____		<b><u>3.154 (AUTOMATIC ONLY)</u></b>	
<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> yes	<input checked="" type="checkbox"/> no
_____		_____	

**606. Shafts**

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

**TWO PRICE**

**STEEL**

**CONSTANT VELOCITY**

**STEEL**

**7. SUSPENSION**

**701. General**

- a) Type of suspension

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

**705. Other type of suspension**

See description on additional form

**706. Stabiliser**

- b) Effective diameter
- c) Material

Front	Rear
<b><u>24</u></b> mm	<b><u>22</u></b> mm
<b><u>STEEL</u></b>	<b><u>STEEL</u></b>

**707. Suspension Dampers**

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

Front	Rear
<b><u>ONE</u></b>	<b><u>ONE</u></b>
<b><u>OIL FILLED</u></b>	<b><u>OIL FILLED</u></b>
<b><u>HYDRAULIC</u></b>	<b><u>HYDRAULIC</u></b>



**3-24-005A**

**Make**

**Model**

**8. WHEELS**

**801. Wheels**

a) Diameter

Front	Rear
<u>19"</u>	<u>20"</u>

b) Width

<u>9.5"</u>	<u>10.5"</u>
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c) Offset

<u>+20</u> mm	<u>+20</u> mm
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**803. Brakes**

a) Braking system

**POWER ASSISTED 4 WHEEL DISC**

b) Number of master cylinders

1

c) Servo-brakes

<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no
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c1) Make and type

**CONTINENTAL, ELECTIC ASSIST**

e) Number of cylinders per wheel

**SIX**

**FOUR**

f) Drum brakes

f1) Internal diameter

\_\_\_\_\_

\_\_\_\_\_

f2) Number of linings per wheel

g) Disc brakes

**TWO**  
**ONE**

**TWO**  
**ONE**

g1) Number of pads per wheel

g2) Number of calipers per wheel

g3) Caliper material

**ALUMINIUM**

**STEEL**

g4) Thickness of new disc

**36 ± 1 mm**

**24 ± 1 mm**

g5) External diameter of the disc

**380 ± 1.5 mm**

**370 ± 1.5 mm**

g9) Ventilated discs

yes

no

yes

no

h) Parking brake: h1) Control system

**ELECTRIC**

h2) Location of lever

**CENTRE CONSOLE**

which wheels

Effet sur roues

h3) On

Front

Rear

**804. Steering**

a) Type

Front		Rear	
<b><u>RACK &amp; PINION</u></b>		<b><u>N/A</u></b>	
<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> yes	<input type="checkbox"/> no
<b><u>ELECTRIC</u></b>			

b) Servo-assistance

Type of Assistance



**Make**

**Model**

**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
<b><u>ELECTRIC</u></b>	<b><u>N/A</u></b>

X) Dashboard



Y) Sunroof



**902. Exterior**

a) Number of doors **TWO**

b) Tailgate  yes  no

c) Door material

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

d) Front bonnet material **ALUMINIUM**

e) Rear bootlid / tailgate material **STEEL**

f) Bodywork material **STEEL**

h) Rear window material **GLASS**

i) Rear quarter window material **GLASS**

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

k) Side window material

l) Material of bumper

n) Exterior Rear wiper

yes  no

MakeModel

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**XIII) NON METALLIC PARTS OF THE BODY**

Number	Part	Material
	Front Bumper	Plastic
	Rear Bumper	Plastic
	Roof Skin	Carbon Fibre
	Front Splitter	Carbon Fibre
	Boot Spoiler	Carbon Fibre
	Side Splitters	Carbon Fibre



**3-24-005A**

**Make**

**Model**

**COMPLEMENTARY INFORMATION**

**Optional Manual Gearbox**

**602. Clutch**

a) Type **DOUBLE PLATE CLUTCH**

b) Control system **MANUAL WITH ELECTRONIC SPEED ADAPTION AND LAUNCH**

**CONTROL**

**603. Gearbox**

a) Location **LONGITUDINAL BEHIND ENGINE**

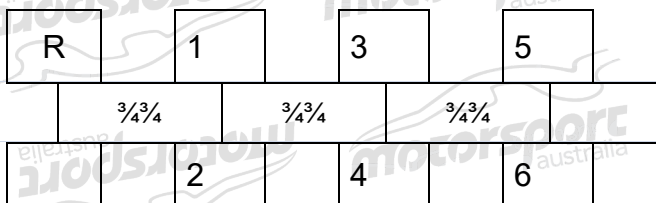
b) Make **ZF**

c) Type and location of control **AUTOMATIC & STEERING WHEEL PADDLE**

e) Ratios

	Number of teeth	Ratio	Constant Mesh	Synchro
1		<b><u>4.11</u></b>		
2		<b><u>2.315</u></b>		
3		<b><u>1.542</u></b>		
4		<b><u>1.179</u></b>		
5		<b><u>1.000</u></b>		
6		<b><u>0.846</u></b>		
R		<b><u>3.727</u></b>		
<b>Constant</b>				

f) Gear change gate



**605. Final drive**

a) Type of final drive

**N/A**

**ELECTRONIC CONTROL  
HYPOID LSD**

b) Ratio

**3.462 (MANUAL ONLY)**

f) Oil Cooler

yes

no

yes

no

g) Cooler Type



Make

Model



Rear Wing BMW Part 51-62-5-A63-C65



Rear Spoiler BMW Part 51-19-5-A51-348



Front Air Inlet Carbon Fibre Left and Right BMW Parts 51-11-5-A44-F42, -F43



Front Splitter 3 pieces BMW 51-11-5-A5F-445, -481, -482