

Group 3E Recognition Document

A) Vehicle seen from 3/4 front



B) Vehicle seen from 3/4 rear



1. GENERAL

101. Manufacturer

BAYERISCHE MOTOREN WERKE AG (BMW)

102. Commercial name(s) - Model and type

3 SERIES E90 M3 SEDAN DSG

103. Engine capacity

3999 cm³ Corrected engine capacity **3999** cm³

104. Type of car construction

a) Type

separate chassis

X monocoque

b) Material of chassis / bodyshell

STEEL

106. Number of seats

4

2. DIMENSIONS, WEIGHT

Tare Weight

1565 kg

RVD CPA Number. 33767-774831

Minimum Racing Weight

1524

202. Overall length

4615 mm ± 1 %

203. Maximum overall width

1804 mm ± 1 %

Where measured **AT FRONT DOOR**

204. Width of bodywork

a) At front axle 1800mm ± 1 %

b) At rear axle 1810mm ± 1 %

206. Wheelbase **2761** mm ± 1 %

207. Maximum track

a) Front **1538** mm

b) Rear **1539** mm

Make BMW

Model E90 M3

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



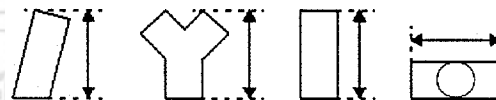
304. Supercharging

yes	<input checked="" type="checkbox"/>	X	no
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Maximum manifold pressure (additional) **NA**

Type and number of compressors **NA**

305. Number and layout of cylinders **8**



312. Cylinder block material **ALUMINIUM ALLOY**

310. Compression ratio **12:1**

313. Sleeves a)

yes	<input type="checkbox"/>	no
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 b) Material steel c)

<input checked="" type="checkbox"/>	wet	dry
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314. Bore **92**+0/- 0.1 mm

316. Stroke **75.2**+0/- 0.1 mm

321. Cylinderhead a) Number **2** b) Material **ALUMINIUM ALLOY**

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

f) Position of injectors

f1)

<input type="checkbox"/>	Manifold	<input checked="" type="checkbox"/>	Cylinderhead
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325. Camshaft a) Number **4** b) Location **DOHC**
c) Drive system **GEAR AND CHAIN** f) Type of valve operation **ROCKER ARM**

327. Intake a) Material of manifold **PLASTIC**
b) Number of manifold elements **2** c) Number of valves per cylinder **4**

Make **BMW**Model **E90 M3**

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328. Exhaust

- a) Material of manifold **STAINLEES STEEL**
 b) Number of manifold elements **2**
 d) Number of valves per cylinder **4**
 p) External Diameter of exhaust pipe between manifold and first silencer **60** mm ± 5%

330. Ignition system

- a) Type **ELECTRONIC**
 b) Number of plugs per cylinder **1**
 c) Number of distributors **XXX**
 d) Number of coils **8**

331. Cooling systemCapacity **10.7** l**332. Cooling fan**

- a) Number **1**
 b) Diameter of the fan **500** mm
 c) Material of the fan **PLASTIC**
 d) Number of blades **9**
 e) Type of drive **ELECTRIC MOTOR**
 f) Automatic cut in

<input checked="" type="checkbox"/>	yes	<input type="checkbox"/>	no
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333. Lubrication system

- a) Type **WET SUMP**
 c) Total capacity **8.8** litre
 e) Location of the cooler(s) **FRONT**
 f) Type of the cooler(s) **AIR**

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

- b) Location **UNDERNEATH REAR FLOOR**
 d) Total capacity **63** L

402. Fuel pump(s)

- a)

<input checked="" type="checkbox"/>	Electrical	<input checked="" type="checkbox"/>	Mechanical
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 b) Number **2**
 d) Location **IN TANK/ENGINE**

5. ELECTRICAL EQUIPMENT**502. Alternator**

- a) Number **1**
 b) Type **ALTERNATOR**
 c) Drive system **BELT**
 d) Nominal Power _____ Amp

503. Retractable headlights

- a)

<input type="checkbox"/>	yes	<input checked="" type="checkbox"/>	no
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 b) Control system **N/A**

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 **DCT DUAL MASS**
 b) Control system **HYDRAULIC**

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Make BMW

Model E90 M3

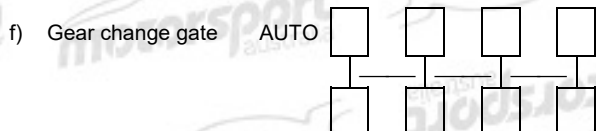
603. Gearbox

a) Location **BEHIND ENGINE** b) Make **DKG 436 SERIES**

c) Type and location of control **DCT AUTOMATIC, TRANSMISSION TUNNEL AND STEERING WHEEL PADDLES**

e) Ratios

	Number of teeth	Ratio	Constant Mesh	Synchro
1	_____	4.78 (15.08)	_____	_____
2	_____	2.933 (9.25)	_____	_____
3	_____	2.153 (6.79)	_____	_____
4	_____	1.678 (5.29)	_____	_____
5	_____	1.39 (4.38)	_____	_____
6	_____	1.203 (3.79)	_____	_____
7	_____	1 (3.15)	_____	_____
R	_____	4.454	_____	_____



g) Type of lubrication **Splash**

604. Transfer box / Centre differential

a) Ratios **XXX**

c) Control system of transfer box **XXX**

d) Type of central differential **XXX**

605. Final drive

a) Type of final drive

b) Ratio

f) Oil cooler

g) Cooler Type

Front		Rear	
<u>XXX</u>		<u>HYPOID</u>	
<u>XXX</u>		3.154 DSG Only	
<input type="checkbox"/> yes	<input checked="" type="checkbox"/> no	<input type="checkbox"/> yes	<input checked="" type="checkbox"/> no
<u>N/A</u>		<u>N/A</u>	

606. Shafts

a) Type of longitudinal shafts

PROPELLER WITH UNIVERSAL JOINTS AND RUBBER COUPLING

b)

Material of longitudinal shafts

STEEL



Make BMW

Model E90 M3

c) Type of transversal half-shafts

SHAFT WITH CV JOINTS

d) Material of transversal half-shafts

STEEL

7. SUSPENSION

701. General

	Front	Rear
a) Type of suspension	<u>MACPHERSON STRUT</u>	<u>INDEPENDENT</u>
702. Helical springs	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no
a) Material	<u>STEEL</u>	<u>STEEL</u>
703. Leaf springs	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no
a) Material	<u>N/A</u>	<u>N/A</u>
704. Torsion bars	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no
a) Material	<u>N/A</u>	<u>N/A</u>

705. Other type of suspension

See description on additional form

706. Stabiliser

	Front	Rear
b) Effective diameter	<u>27MM</u> ±0.2 mm	23mm ±0.2mm
c) Material	<u>STEEL</u>	<u>STEEL</u>

707. Suspension Dampers

	Front	Rear
a) Number per wheel	<u>1</u>	<u>1</u>
b) Type	<u>TELESCOPIC</u>	<u>TELESCOPIC</u>
c) Principle of operation	<u>HYDRAULIC</u>	<u>HYDRAULIC</u>

8. WHEELS

801. Wheels

	Front	Rear
a) Diameter	<u>18"</u>	<u>18"</u>
b) Width	<u>8.5"</u>	<u>9.5"</u>
c) Offset	29 mm	23 mm

Make BMW

Model E90 M3

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803. Brakes

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

DUAL CIRCUIT HYDRAULIC TANDEM

yes no

c1) Make and type _____

	Front	Rear
e) Number of cylinders per wheel	_____	_____
f) Drum brakes		
f1) Internal diameter	<u>XXX</u> ± 1.5 mm	<u>XXX</u> ± 1.5 mm
f2) Number of linings per wheel	<u>XXX</u>	<u>XXX</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	STEEL	STEEL
g4) Thickness of new disc	<u>30</u> ± 1 mm	<u>24</u> ± 1 mm
g5) External diameter of the disc	<u>360</u> ± 1.5 mm	<u>350</u> ± 1.5 mm
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

h2) Location of lever

CENTRAL TUNNEL

h3) On which wheels

Front Rear

804. Steering

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

	Front	Rear
	<u>RACK AND PINNION</u>	<u>XXXX</u>
	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no
	<u>ELECTRIC / HYDRAULIC</u>	<u>XXXX</u>

9. BODYWORK

901. Interior

- a) Ventilation
- c) Air Conditioning

yes no
 yes no

b) Heating

yes no

f) Optional sun roof

yes no

f1) Type **NA**

f2) Control system **NA**

g) Opening system for side windows

	Front		Rear
	<u>ELECTRICAL</u>		<u>XXXX</u>



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Make BMW

Model E90 M3

X) Dashboard



Y) Sunroof



902. Exterior

a) Number of doors **4**

b) Tailgate yes no

Front	Rear
Steel	XXXX

c) Door material

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**

k) Side window material

Front	Rear
<u>GLASS</u>	<u>GLASS</u>
<u>POLYPROPYLENE</u>	<u>POLYPROPYLENE</u>

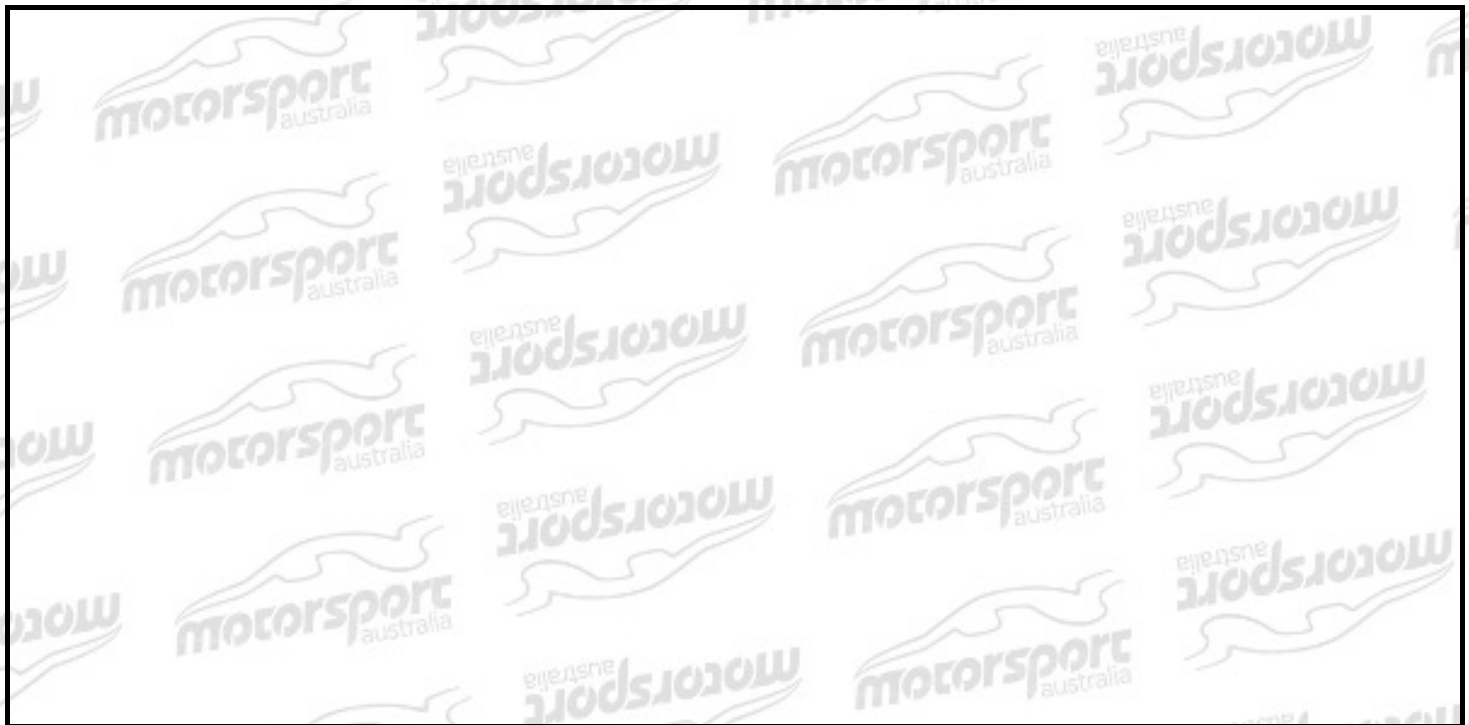
l) Material of bumper

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
1	FRONT BUMPER	Plastic
2	HEAD LAMP	Plastic
3	SIDE SILL	Plastic
4	REAR BUMPER	Plastic
5	REAR LAMPS	Plastic



Make BMW

Model E90 M3

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COMPLEMENTARY INFORMATION

Optional Manual Gearbox

602. Clutch a) Type **DUAL MASS**

b) Control system **HYDRAULIC**

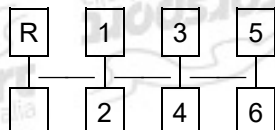
603. Gearbox a) Location **BEHIND ENGINE** b) Make **GERTRAG GS6-53BZ**

c) Type and location of control **MANUAL, TRANSMISSION TUNNEL**

e) Ratios

	Number of teeth	Ratio	Constant Mesh	Synchro
1	_____	4.055	_____	_____
2	_____	2.369	_____	_____
3	_____	1.582	_____	_____
4	_____	1.192	_____	_____
5	_____	1.0	_____	_____
6	_____	0.872	_____	_____
R	_____	3.678	_____	_____

f) Gear change gate



g) Type of lubrication **Splash**

605. Final drive

a) Type of final drive

b) Ratio

f) Oil cooler

g) Cooler Type

	Front	Rear
a) Type of final drive	<u>XXX</u>	<u>HYPOID</u>
b) Ratio	<u>XXX</u>	3.846 Manual Only
f) Oil cooler	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no
g) Cooler Type	<u>N/A</u>	<u>N/A</u>

