

Group 3E RECOGNITION DOCUMENT

A) Vehicle seen from 3/4 front



B) Vehicle seen from 3/4 rear



1. GENERAL

101. Manufacturer

BMW AG

102. Commercial name(s) - Model and type

MINI (R56) JOHN COOPER WORKS

103. Engine capacity

1598.2 cm³ Corrected engine capacity 1598.2 x 1.7 = 2716.9 cm³

104. Type of car construction

a) Type

<input type="checkbox"/> separate chassis	<input checked="" type="checkbox"/> monocoque
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b) Material of chassis / bodyshell

STEEL

106. Number of seats

4

2. DIMENSIONS, WEIGHT

Minimum Racing Weight

1163 kg

202. Overall length

3714 mm ± 1 %

203. Maximum overall width

1683 mm ± 1 % Where measured **AT FRONT WHEELS**

204. Width of bodywork

a) At front axle

1683 mm ± 1 %

b) At rear axle

1683 mm ± 1 %

206. Wheelbase

2467 mm ± 1 %

207. Maximum track

a) Front

1540 mm

b)

Rear

1490 mm

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

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

302. Number of mounts **3**

Engine in its compartment



304. Supercharging yes no

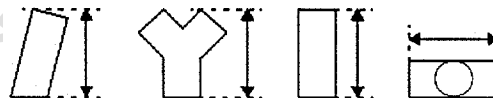
Maximum manifold pressure **1.5**

Type and number of compressors **TWINSROLL TURBOCHARGER / 1**

305. Number and layout of cylinders **4 IN LINE**

312. Cylinder block material **ALLOY**

310. Maximum compression ratio **10.5** : 1



313. Sleeves a) yes no

b) Material **GRAY CAST IRON** wet dry

314. Bore **77** +/- 0.1 mm

316. Stroke **85.8** +/- 0.1 mm

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

324. Fuel feed by injection : a) Make **BOSCH** b) Model **MED17**

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 **ROLLER ROCKER ARM**

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 STEEL
- b) Number of manifold elements 1
- d) Number of valves per cylinder 2
- p) External Diameter of exhaust pipe between manifold and first silencer _____ mm ± 5%

330. Ignition system

- a) Type ELECTRONIC
- b) Number of plugs per cylinder 1
- c) Number of distributors N/A
- d) Number of coils 4

331. Cooling system

Capacity 5.5 L

- 332. **Cooling fan**
- a) Number 1
- b) Diameter of the fan 350 mm
- c) Material of the fan PLASTIC
- d) Number of blades 7
- e) Type of drive ELECTRIC
- f) Automatic cut in yes no

333. Lubrication system

- a) Type WET SUMP
- b) Number of oil pumps 1
- c) Total capacity 4.2 L
- e) Location of the cooler(s) _____
- f) Type of the cooler(s) _____

4. FUEL CIRCUIT

401. Fuel tank

- b) Location UNDER THE CAR
- d) Total capacity 55 L

402. Fuel pump(s)

- a) Electrical Mechanical
- b) Number 1
- d) Location IN TANK

Fuel Pressure _____

5. ELECTRICAL EQUIPMENT

502. Alternator

- a) Number 1
- b) Type _____
- c) Drive system BELT
- d) Nominal power _____ 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 DRY SINGLE PLATE
- b) Control system HYDRAULIC



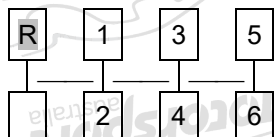
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603. Gearbox

- a) Location **ENGINE COMPARTMENT** b) Make **GETRAG**
 c) Type and location of control **TUNNEL**
 e) Ratios

	Number of teeth	Ratio	Constant Mesh	Synchro
1	_____	_____	_____	_____
2	_____	_____	_____	_____
3	_____	_____	_____	_____
4	_____	_____	_____	_____
5	_____	_____	_____	_____
6	_____	_____	_____	_____
R	_____	_____	_____	_____
Constant	_____	_____	_____	_____

f) Gear change gate



604. Transfer box / Centre differential

- a) Ratios **N/A**
 c) Control system of transfer box **N/A** d) Type of central differential **N/A**

605. Final drive

a) Type of final drive

b) Ratio

f) Oil Cooler

g) Cooler Type

	Front	Rear
a) Type of final drive	<u>SPUR GEAR</u>	<u>N/A</u>
b) Ratio	<u>3.647</u>	<u>N/A</u>
f) Oil Cooler	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	<input type="checkbox"/> yes <input type="checkbox"/> no
g) Cooler Type	<u>N/A</u>	_____

606. Shafts

- a) Type of longitudinal shafts **N/A**
 b) Material of longitudinal shafts **N/A**
 c) Type of transversal half-shafts **ASYM. CONTANT VELOCITY JOINTS**
 d) Material of transversal half-shafts **STEEL**



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7. SUSPENSION

701. General

	Front		Rear	
a) Type of suspension	<u>MCPHERSON STRUT</u>		<u>MULTILINK</u>	
702. Helical springs	<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no	<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no
a) Material	_____		_____	
703. Leaf springs	<input type="checkbox"/> yes	<input checked="" type="checkbox"/> no	<input type="checkbox"/> yes	<input checked="" type="checkbox"/> no
a) Material	_____		_____	
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>22.83</u> mm	<u>17.67</u> mm
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>TELESCPOIC</u>	<u>TELESCOPIC</u>
c) Principle of operation	<u>HYDRAULIC</u>	<u>HYDRAULIC</u>

8. WHEELS

801. Wheels

	Front	Rear
a) Diameter	<u>17"</u>	<u>17"</u>
b) Width	<u>7"</u>	<u>7"</u>
c) Offset	_____ mm	_____ mm



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803. Brakes

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

HYDRAULIC - ABS

1

yes no

c1) Make and type **TRW**

	Front	Rear
e) Number of cylinders per wheel	4	1
f) Drum brakes	N/A	N/A
f1) Internal diameter	N/A	N/A
f2) Number of linings per wheel	N/A	N/A
g) Disc brakes		
g1) Number of pads per wheel	2	2
g2) Number of calipers per wheel	1	1
g3) Caliper material	GRAY CAST IRON	GRAY CAST IRON
g4) Thickness of new disc	26 ± 1 mm	10 ± 1 mm
g5) External diameter of the disc	330 ± 1.5 mm	280 ± 1.5 mm
g9) Ventilated discs	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no

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

h2) Location of lever **BETWEEN FRONT SEATS**

Front Rear

804. Steering

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

Front	Rear
RACK & PINION	N/A
<input checked="" type="checkbox"/> yes <input type="checkbox"/> no	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no
JTEK/ELECTRIC	N/A

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

SLIDE & RISE

f2)

Control system

SELECTRIC

g) Opening system for side windows

Front	Rear
ELECTRIC	N/A



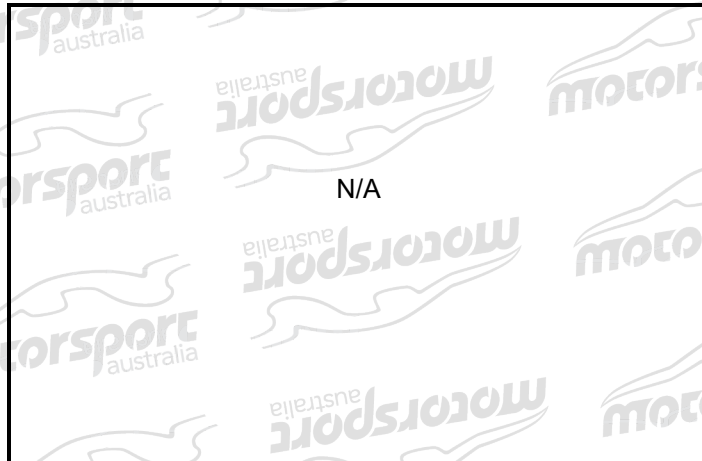
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X) Dashboard



Y) Sunroof



902. Exterior

a) Number of doors **2**

b) Tailgate

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

c) Door material

d) Front bonnet material

STEEL

e) Rear bootlid / tailgate material

STEEL

f) Bodywork material

STEEL

h) Rear window material

SAFETY GLASS

i) Rear quarter window material

SAFETY GLASS

k) Side window material

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

l) Material of bumper

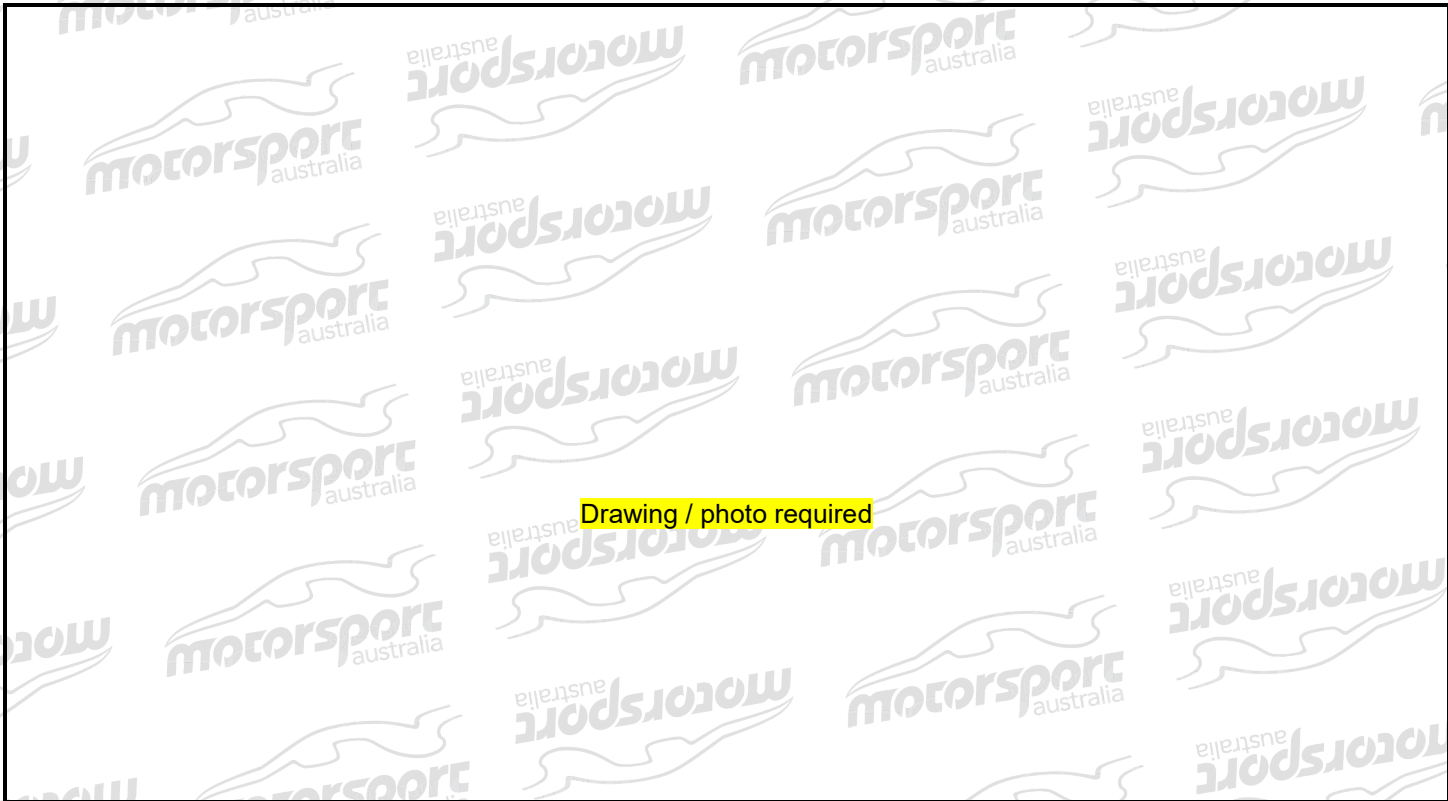
n) Exterior Rear wiper

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

Number	Part	Material



COMPLEMENTARY INFORMATION

