

**Group 3E Recognition FORM**

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) COOPER S**

103. Engine capacity **1598.2** cm<sup>3</sup>

Corrected engine capacity **1598.2 x 1.7 = 2716.9**cm<sup>3</sup>

104. Type of car construction

a) Type

separate chassis

monocoque

b) Material of chassis / bodyshell

**STEEL**

106. Number of seats

**4**

**2. DIMENSIONS, WEIGHT**

Minimum Racing Weight

**1120** kg

202. Overall length

**3729** 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

Make **BMW AG**

Model Mini Cooper S(R56)

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

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

302. Number of mounts **3**

Engine in its compartment



304. Supercharging

yes  no

Maximum manifold pressure

**N/A**

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**



x

313. Sleeves

a)  yes  no

b) Material **GRAY CAST IRON**

wet  dry

314. Bore

**77** +0/- 0.1 mm

316. Stroke

**85.8** +0/- 0.1 mm

321. Cylinderhead

a) Number **1**

b) Material **ALUMINIUM**

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

b) Model **MOTRONIC MED 9.1**

f) Position of Injectors:

f1)  Manifold  Cylinderhead

**Make** **BMW AG**

**Model** Mini Cooper S(R56)

**325. Camshaft** a) Number **2** b) Location **CYLINDER HEAD**  
 c) Drive system **CHAIN** f) Type of valve operation **ROLLER**

**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 **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 **MAPPED DIRECT ELECTRONIC** b) Number of plugs per cylinder **1**  
 c) Number of distributors **NIL** d) Number of coils **4**

**331. Cooling system** Capacity **5 L**

**332. Cooling fan** a) Number **2** b) Diameter of the fan **360 mm**  
 c) Material of the fan **PLASTIC** d) Number of blades **7**  
 e) Type of drive **ELECTRIC** f) Automatic cut in 

<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no
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**333. Lubrication system** a) Type **MECHANICAL (WET SUMP)** b) Number of oil pumps **1**  
 c) Total capacity **5 L**  
 e) Location of the cooler(s) **FRONT OF ENGINE** f) Type of the cooler(s) **WATER COOLED**

**4. FUEL CIRCUIT**

**401. Fuel tank**  
 b) Location **UNDER REAR SEAT**  
 d) Total capacity **55 L**

**402. Fuel pump(s)** a) 

<input checked="" type="checkbox"/> Elelectrical	<input type="checkbox"/> Mechanical
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 b) Number **1**  
 d) Location **IN TANK (LOW PRESSURE) / CAMSHAFT (HIGH PRESSURE)** Fuel Pressure **125 BAR**

**5. ELECTRICAL EQUIPMENT**

**502. Alternator** a) Number **1** b) Type **VW AG**  
 c) Drive system **BELT** d) Nominal power **140 Amp**

**503. Retractable headlights** a) 

<input type="checkbox"/> yes	<input checked="" type="checkbox"/> no
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 b) Control system \_\_\_\_\_





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**6. POWER TRAIN**

601. Driven wheels

front  yes  no

rear  yes  no

602. Clutch

a) Type **SINGLE PLATE DRY CLUTCH**

b) Control system **MANUAL**

603. Gearbox

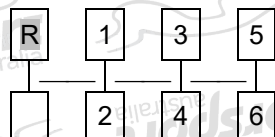
a) Location **EAST WEST INLINE** b) Make **VW**

c) Type and location of control **CABLE – FLOOR SHIFT**

e) Ratios

	Number of teeth	Ratio	Constant Mesh	Synchro
1	_____	<b><u>3.31</u></b>	_____	_____
2	_____	<b><u>2.13</u></b>	_____	_____
3	_____	<b><u>1.48</u></b>	_____	_____
4	_____	<b><u>1.14</u></b>	_____	_____
5	_____	<b><u>0.95</u></b>	_____	_____
6	_____	<b><u>0.81</u></b>	_____	_____
R	_____	<b><u>3.23</u></b>	_____	_____
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

605. Final drive

a) Type of final drive

	Front	Rear
a) Type of final drive	<b><u>LSD</u></b>	<b><u>OPEN</u></b>
b) Ratio	3.7	
f) Oil Cooler	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no
g) Cooler Type		_____



**Make** BMW AG

**Model** Mini Cooper S(R56)

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

N/A

N/A

ASYM CV

STEEL

**Make** BMW AG

**Model** Mini Cooper S(R56)

**7. SUSPENSION**

**701. General**

	Front		Rear	
a) Type of suspension	<b><u>MCPHERSON STRUT</u></b>		<b><u>MULTI LINK</u></b>	
702. Helical springs	<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no	<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no
a) Material	<b><u>STEEL</u></b>		<b><u>STEEL</u></b>	
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	_____		_____	

**705. Other type of suspension**

See description on additional form

**706. Stabiliser**

	Front	Rear
b) Effective diameter	22.83 mm	17.67 mm
c) Material	<b><u>STEEL</u></b>	<b><u>STEEL</u></b>

**707. Suspension Dampers**

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

Make **BMW AG**

Model Mini Cooper S(R56)

**8. WHEELS**

**801. Wheels**

a) Diameter

Front	Rear
<u>18"</u>	<u>18"</u>

b) Width

<u>7"</u>	<u>7"</u>
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c) Offset

<u>+52</u> mm	<u>+52</u> mm
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**803. Brakes**

a) Braking system

**4 WHEEL DISC (MECHANICAL HYDRAULIC ABS)**

b) Number of master cylinders

1

c) Servo-brakes

yes  no

c1) Make and type

**BMW AG**

e) Number of cylinders per wheel

f) **Drum brakes**

f1) Internal diameter

f2) Number of linings per wheel

g) **Disc brakes**

g1) Number of pads per wheel

g2) Number of calipers per wheel

g3) Caliper material

g4) Thickness of new disc

g5) External diameter of the disc

g9) Ventilated discs

Front	Rear
<u>1</u>	<u>1</u>
_____	_____
<u>2</u>	<u>2</u>
<u>1</u>	<u>1</u>
<b><u>STEEL</u></b>	<b><u>STEEL</u></b>
<u>22 ± 1 mm</u>	<u>10 ± 1 mm</u>
<u>294 ± 1.5 mm</u>	<u>259 ± 1.5 mm</u>
<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no
<input type="checkbox"/> yes	<input checked="" type="checkbox"/> no

h) Parking brake: h1) Control system

**MECHANICAL**

h2) Location of lever

**TRANSMISSION TUNNEL**

Front  Rear



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**804. Steering**

- a) Type
- b) Servo-assistance

Type of Assistance

Front		Rear	
<b>ELECTRIC RACK PINNION</b>			
<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> yes	<input type="checkbox"/> no
<b>ELECTRIC</b>			

**9. BODYWORK**

**901. Interior**

- a) Ventilation
- c) Air Conditioning

<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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- f) Optional sun roof

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

f2) Control system

Front	Rear
<b>ELECTRIC</b>	<b>FIXED</b>

- g) Opening system for side windows

X) Dashboard



Y) Sunroof





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Recognition N°

**3-21-009**

902. Exterior

a) Number of doors **2**

b) Tailgate  yes  no

c) Door material

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

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

l) Material of bumper

**PLASTIC**

**PLASTIC**

n) Exterior Rear wiper

yes

no

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

Number	Part	Material
	Front Bumper	Plastic
	Rear Bumper	Plastic
	Side Skirts	Plastic
	Rear Spoiler	Plastic
	Radiator Support Panel	Plastic
	Grill	Plastic
	Head Lights	Plastic
	Tail Lights	Plastic
	External Rear Vision Mirrors	Plastic



Make **BMW AG**

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Drawing / photo required

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**COMPLEMENTARY INFORMATION**

RVCS Document  
Car.Info Website Information  
RVD Document

