

**Group 3E RECOGNITION DOCUMENT**

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

**135i COUPE**

103. Engine capacity

**2979 cm<sup>3</sup> Corrected engine capacity 2979 x 1.7 = 5064 cm<sup>3</sup>**

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 **1451** kg

202. Overall length **4360** mm ± 1 %

203. Maximum overall width **1748** mm ± 1 % Where measured \_\_\_\_\_

204. Width of bodywork

a) At front axle **1760** mm ± 1 %

b) At rear axle **1760** mm ± 1 %

206. Wheelbase **2660** mm ± 1 %

207. Maximum track

a) Front **1470** mm

b) Rear **1497** mm

Make **BMW**

Model **135i Coupe**

SPC Recognition Document

**3-09-042**

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

301. Location and position of the engine **FRONT - LONGITUDINAL**

302. Number of mounts **2**

Engine in its compartment



304. Supercharging  yes  no

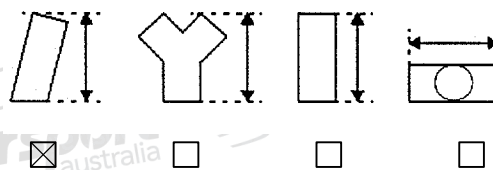
Maximum manifold pressure **0.8 BAR**

Type and number of compressors **TURBOCHARGER X 2**

305. Number and layout of cylinders **6 - INLINE**

312. Cylinder block material **ALUMINIUM ALLOY**

310. Maximum compression ratio **10.2 : 1**



313. Sleeves a)  yes  no

b) Material **CAST IRON**

c)  wet  dry

314. Bore **84.0** +0/- 0.1 mm

316. Stroke **89.6** +0/- 0.1 mm

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

324. Fuel feed by injection : a) Make **BMW** b) Model **DIRECT INJECTION (HPI)**

f) Position of Injectors:

f1)  Manifold  Cylinderhead

325. Camshaft a) Number **2** b) Location **DOHC**  
c) Drive system **CHAIN** f) Type of valve operation **ROCKER ARM - VARIABLE (DOUBLE VANOS)**

327. Intake

a) Material of manifold **PLASTIC**  
b) Number of manifold elements **1** c) Number of valves per cylinder **2**

328. Exhaust



Make **BMW** Model **135i Coupe**

SPC Recognition Document

**3-09-042**

- a) Material of manifold **STEEL**
- b) Number of manifold elements **3**
- d) Number of valves per cylinder **2**
- 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 **N/A**
- d) Number of coils **6**

**331. Cooling system**

Capacity \_\_\_\_\_ L

- 332. Cooling fan**
- a) Number **1**
- b) Diameter of the fan **500** 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 **WET SUMP**
- b) Number of oil pumps **1**
- c) Total capacity **5.7 L + OIL COOLER**

- e) Location of the cooler(s) **RHF**
- f) Type of the cooler(s) **OIL/AIR**

**4. FUEL CIRCUIT**

**401. Fuel tank**

- b) Location **UNDER FLOOR**
- d) Total capacity **53** L

**402. Fuel pump(s)**

- a) 

<input checked="" type="checkbox"/> Elelectrical	<input checked="" type="checkbox"/> Mechanical
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- b) Number **2**

- d) Location **IN TANK /ENGINE BAY**
- Fuel Pressure \_\_\_\_\_

**5. ELECTRICAL EQUIPMENT**

**502. Alternator**

- a) Number **1**
- b) Type **DC REGULATED**
- c) Drive system **BELT**
- d) Nominal power **80** 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 **DRY – SINGLE PLATE**
- b) Control system **HYDRAULIC**

**603. Gearbox**

- a) Location **LONGITUDINAL – BEHIND ENGINE**
- b) Make **BMW**

**BMW**



Make **BMW**

Model **135i Coupe**

SPC Recognition Document

**3-09-042**

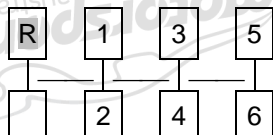
c) Type and location of control

**MANUAL - FLOOR**

e) Ratios

	Number of teeth	Ratio	Constant Mesh	Synchro
1	_____	<b>4.055:1</b>	_____	_____
2	_____	<b>2.396:1</b>	_____	_____
3	_____	<b>1.582:1</b>	_____	_____
4	_____	<b>1.192:1</b>	_____	_____
5	_____	<b>1.000:1</b>	_____	_____
6	_____	<b>0.872:1</b>	_____	_____
R	_____	<b>3.68</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

**N/A**

605. Final drive

a) Type of final drive

**N/A**

b) Ratio

**N/A**

f) Oil Cooler

yes

no

yes

no

g) Cooler Type

**N/A**

**N/A**

606. Shafts

a) Type of longitudinal shafts

**PROPELLER WITH UNIVERSAL JOINTS**

b) Material of longitudinal shafts

**STEEL**

c) Type of transversal half-shafts

**SHAFT WITH CV JOINTS**

d) Material of transversal half-shafts

**STEEL**

**7. SUSPENSION**



Make **BMW**

Model **135i Coupe**

SPC Recognition Document

**3-09-042**

**701. General**

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

**705. Other type of suspension**

See description on additional form

**706. Stabiliser**

	Front	Rear
b) Effective diameter	<b><u>27</u></b> mm	<b><u>12</u></b> 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>TELESCOPIC</u></b>	<b><u>TELESCOPIC</u></b>
c) Principle of operation	<b><u>HYDRAULIC</u></b>	<b><u>HUYDRAULIC</u></b>

**8. WHEELS**

**801. Wheels**

	Front	Rear
a) Diameter	<b><u>18"</u></b>	<b><u>18"</u></b>
b) Width	<b><u>7.5"</u></b>	<b><u>8.5"</u></b>
c) Offset	<b><u>+49</u></b> mm	<b><u>+52</u></b> mm

**803. Brakes**

a) Braking system

**HYDRAULIC**

b) Number of master cylinders

**1**



Make **BMW**

Model **135i Coupe**

SPC Recognition Document

**3-09-042**

c) Servo-brakes  yes  no

c1) Make and type **BMW VACCUUM**

	Front	Rear
e) Number of cylinders per wheel	<u>6</u>	<u>2</u>
f) <b>Drum brakes</b>		
f1) Internal diameter	<u>XXXX</u>	<u>XXXX</u>
f2) Number of linings per wheel	<u>XXXX</u>	<u>XXXX</u>
g) <b>Disc brakes</b>		
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>ALUMINIUM</u>	<u>ALUMINIUM</u>
g4) Thickness of new disc	<u>26 ± 1 mm</u>	<u>22 ± 1 mm</u>
g5) External diameter of the disc	<u>338 ± 1.5 mm</u>	<u>324 ± 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**

h2) Location of lever **CABIN/FLOOR**

Front  Rear

**804. Steering**

a) Type

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

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

**SLIDING**

f2)

Control system

**ELECTRIC**

g) Opening system for side windows

Front	Rear
<b>ELECTRIC</b>	<b>N/A</b>

X) Dashboard

Y) Sunroof



Make **BMW**

Model **135i Coupe**

SPC Recognition Document

3-09-042



902. Exterior

a) Number of doors **2**

b) Tailgate

<input type="checkbox"/> yes	<input checked="" type="checkbox"/> no
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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 COMPOSITE</u></b>	<b><u>PLASTIC COMPOSITE</u></b>

l) Material of bumper

**PLASTIC COMPOSITE**

**PLASTIC COMPOSITE**

n) Exterior Rear wiper

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

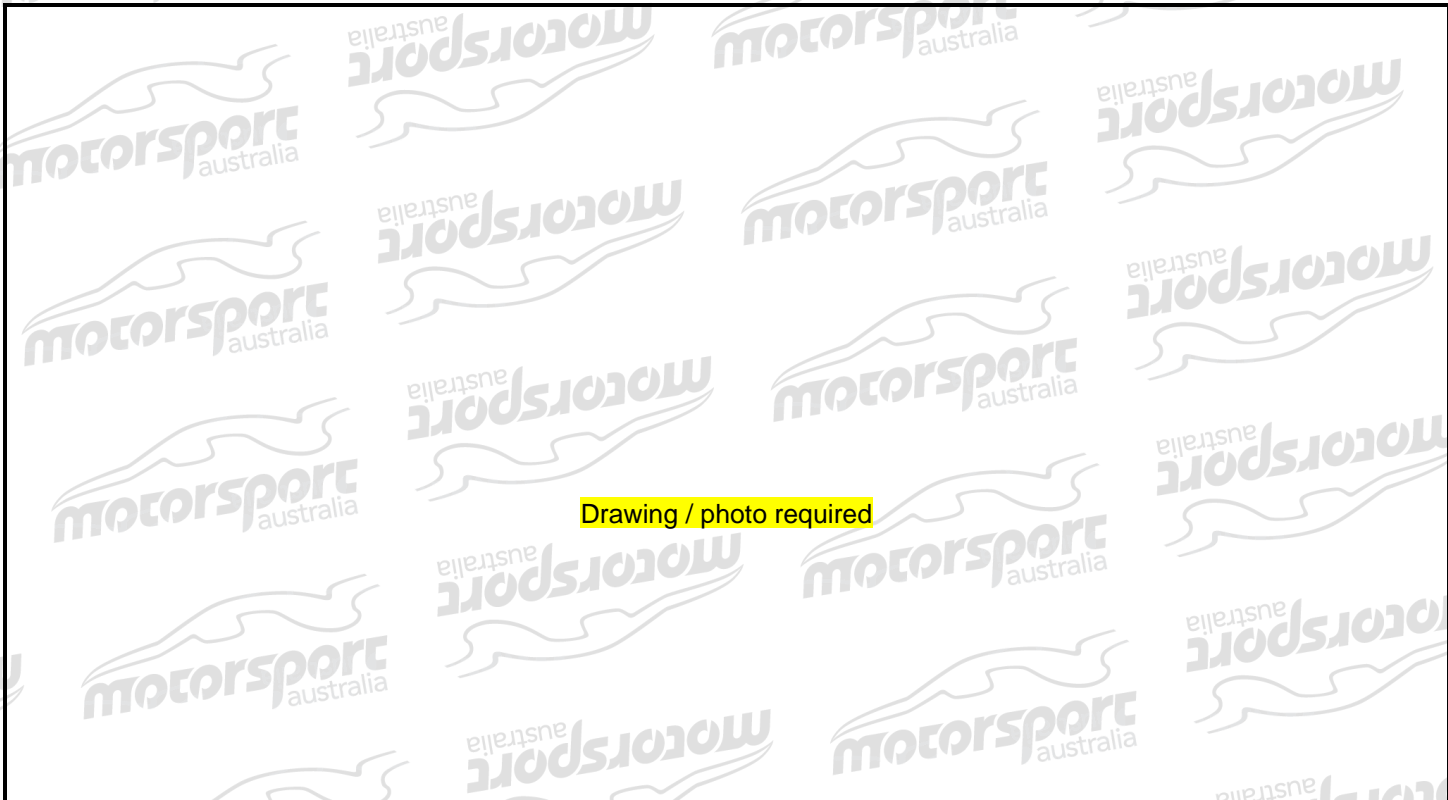
Make **BMW**

Model **135i Coupe**

SPC Recognition Document

**3-09-042**

Number	Part	Material





Make **BMW**

Model **135i Coupe**

SPC Recognition Document

**3-09-042**

**COMPLEMENTARY INFORMATION**

