

## Group 3E RECOGNITION DOCUMENT

A) Vehicle seen from 3/4 front



B) Vehicle seen from 3/4 rear



### 1. GENERAL

101. Manufacturer

**FIAT GROUP AUTOMOBILES S.P.A.**

102. Commercial name(s) - Model and type

**ALFA 147 1.9 JTD 16V**

103. Engine capacity

**1910** cm<sup>3</sup> Corrected engine capacity **1910 x 1.5 = 2865** cm<sup>3</sup>

104. Type of car construction

a) Type



separate chassis



monocoque

b) Material of chassis / bodyshell **STEEL**

106. Number of seats

**5**

### 2. DIMENSIONS, WEIGHT

Minimum Racing Weight

**1345** kg

202. Overall length

**4223** mm ± 1 %

203. Maximum overall width

**1729** mm ± 1 % Where measured **AT THE DOORS**

204. Width of bodywork

a) At front axle

**1750** mm ± 1 %

b) At rear axle

**1725** mm ± 1 %

206. Wheelbase **2546** mm ± 1 %

207. Maximum track

a) Front **1512** mm

b) Rear **1509** mm

Make **Alfa Romeo**

Model **147 1.9 JTD 16V**

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 + TOP REACTION ROD**

Engine in its compartment



304. Supercharging

☒ yes

☐ no

Maximum manifold pressure

Type and number of compressors

**SINGLE TURBOCHARGER**

305. Number and layout of cylinders

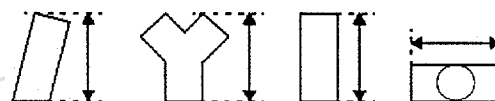
**4 IN LINE**

312. Cylinder block material

**CAST IRON**

310. Maximum compression ratio

**18 : 1**



☒

☐

☐

☐

313. Sleeves

a)

☐

yes

☒

no

b) Material

**N/A**

c)

☐

wet

☐

dry

314. Bore

**82** +0/- 0.1 mm

316. Stroke

**90.4** +0/- 0.1 mm

321. Cylinderhead

a) Number

**1**

b) Material

**ALUMINIUM ALLOY**

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

b) Model **EDC**

f) Position of Injectors:

f1)

☐

Manifold

☒

Cylinderhead

325. Camshaft a) Number

**2**

b) Location

**CYLINDER HEAD**

c) Drive system

**TOOTHED BELT**

f) Type of valve operation

**DIRECT**

327. Intake

a) Material of manifold

**PLASTIC**

b) Number of manifold elements

**1**

c) Number of valves per cylinder

**2**

328. Exhaust

**Make** Alfa Romeo

**Model** 147 1.9 JTD 16V

- 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 **55** mm ± 5%

**330. Ignition system**

- a) Type **COMPRESSION**
- b) Number of plugs per cylinder **1 - GLOW**
- c) Number of distributors **N/A**
- d) Number of coils **N/A**

**331. Cooling system** Capacity **7.2** L

**332. Cooling fan** a) Number **1** b) Diameter of the fan **385** mm

c) Material of the fan **PLASTIC** d) Number of blades **8**

e) Type of drive **ELECTRICAL** f) Automatic cut in 

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

**333. Lubrication system**

a) Type **WET SUMP** b) Number of oil pumps **1**

c) Total capacity **4.4** L

e) Location of the cooler(s) **RADIATOR SUPPORT PANEL** f) Type of the cooler(s) **AIR COOL**

**4. FUEL CIRCUIT**

**401. Fuel tank**

- b) Location **UNDER THE FLOOR, UNDER THE REAR SEAT**
- d) Total capacity **60 + 7 RESERVE** L

**402. Fuel pump(s)**

a) 

<input checked="" type="checkbox"/> Eleectrical	<input checked="" type="checkbox"/> Mechanical
---	--

 b) Number **2**

d) Location **IN THE TANK & ON ENGINE** Fuel Pressure **3.5** bar

**5. ELECTRICAL EQUIPMENT**

**502. Alternator**

- a) Number **1** b) Type **ROTOR & STATOR**
- c) Drive system **POLY VEE BELT** d) Nominal power **105** Amp

**503. Retractable headlights**

a) 

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

 b) Control system **N/A**

**6. POWER TRAIN**

**601. Driven wheels**

front 

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

 rear 

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

**602. Clutch**

- a) Type **DRY SINGLE FRICTION PLATE**
- b) Control system **HYDRAULIC**

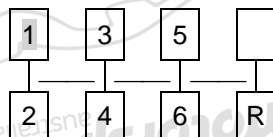


Make **Alfa Romeo**Model **147 1.9 JTD 16V****603. Gearbox**

- a) Location **ENGINE BAY** b) Make **ALFA ROMEO**
- c) Type and location of control **LEVER ON TUNNEL**
- e) Ratios

	Number of teeth	Ratio	Constant Mesh	Synchro
1	_____	<b><u>3.800:1</u></b>	_____	_____
2	_____	<b><u>2.235:1</u></b>	_____	_____
3	_____	<b><u>1.360:1</u></b>	_____	_____
4	_____	<b><u>0.971:1</u></b>	_____	_____
5	_____	<b><u>0.763:1</u></b>	_____	_____
6	_____	<b><u>0.614:1</u></b>	_____	_____
R	_____	<b><u>3.545:1</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 **N/A**

**605. Final drive**

- a) Type of final drive
- b) Ratio

Front		Rear	
<b><u>CROWN WHEEL &amp; PINION</u></b>		<b><u>N/A</u></b>	
<b><u>3.866:1</u></b>		<b><u>N/A</u></b>	
<input type="checkbox"/> yes	<input checked="" type="checkbox"/> no	<input type="checkbox"/> yes	<input checked="" type="checkbox"/> no
<b><u>N/A</u></b>		<b><u>N/A</u></b>	

## f) Oil Cooler

## g) Cooler Type

**606. Shafts**

- a) Type of longitudinal shafts **N/A**
- b) Material of longitudinal shafts **N/A**
- c) Type of transversal half-shafts **HALF SHAFT WITH CV JOINT**
- d) Material of transversal half-shafts **STEEL**

Make **Alfa Romeo**Model **147 1.9 JTD 16V****7. SUSPENSION****701. General**

a) Type of suspension

Front		Rear	
<b><u>DUAL OSCILLATING ARMS</u></b>		<b><u>MCPHERSON 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
<b><u>N/A</u></b>		<b><u>N/A</u></b>	
<input type="checkbox"/> yes	<input checked="" type="checkbox"/> no	<input type="checkbox"/> yes	<input checked="" type="checkbox"/> no
<b><u>N/A</u></b>		<b><u>N/A</u></b>	

**702. Helical springs**

a) Material

**703. Leaf springs**

a) Material

**704. Torsion bars**

a) Material

**705. Other type of suspension**

See description on additional form

**706. Stabiliser**

b) Effective diameter

c) Material

Front	Rear
<b><u>23.6</u> mm</b>	<b><u>14</u> mm</b>
<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>1</u></b>	<b><u>1</u></b>
<b><u>TELESCOPIC</u></b>	<b><u>TELESCOPIC</u></b>
<b><u>GAS/HYDRAULIC</u></b>	<b><u>GAS/HYDRAULIC</u></b>

**8. WHEELS****801. Wheels**

a) Diameter

b) Width

c) Offset

Front	Rear
<b><u>17"</u></b>	<b><u>17"</u></b>
<b><u>7"</u></b>	<b><u>7"</u></b>
<b><u>+40</u> mm</b>	<b><u>+40</u> mm</b>

Make **Alfa Romeo**Model **147 1.9 JTD 16V****803. Brakes**

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

**HYDRAULIC****1 TANDEM**
☒ yes ☐ no

c1) Make and type

**BOSCH ISOVAC**

	Front	Rear
e) Number of cylinders per wheel	<u>1</u>	<u>1</u>
f) <b>Drum brakes</b>		
f1) Internal diameter	<u>N/A</u>	<u>N/A</u>
f2) Number of linings per wheel	<u>N/A</u>	<u>N/A</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		
g4) Thickness of new disc	<u>22.2 ± 1 mm</u>	<u>10.2 ± 1 mm</u>
g5) External diameter of the disc	<u>284 ± 1.5 mm</u>	<u>251 ± 1.5 mm</u>
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

**LEVER & CABLE**

- h2) Location of lever

**CENTRE TUNNEL**

- h3) On which wheels Effet

☐ Front ☒ Rear

sur roues

**804. Steering**

- a) Type
- b) Servo-assistance

Type of Assistance

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>

**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

**SLIDING GLASS PANEL**

- f2)

Control system

**ELECTRIC**

- g) Opening system for side windows

Front	Rear
<b>ELECTRIC</b>	<b>MANUAL</b>

X) Dashboard

Y) Sunroof

Make **Alfa Romeo**

Model **147 1.9 JTD 16V**



photo required

902. Exterior

a) Number of doors **4**

b) Tailgate



yes



no

c) Door material

Front

**STEEL**

Rear

**STEEL**

d) Front bonnet material

**STEEL**

e) Rear bootlid / tailgate material

**STEEL**

f) Bodywork material

**STEEL & PLASTIC POLYPROPYLENE**

h) Rear window material

**GLASS**

i) Rear quarter window material **N/A**

Front

**GLASS**

**PLASTIC**

Rear

**GLASS**

**PLASTIC**

k) Side window material

l) Material of bumper

n) Exterior Rear wiper



yes

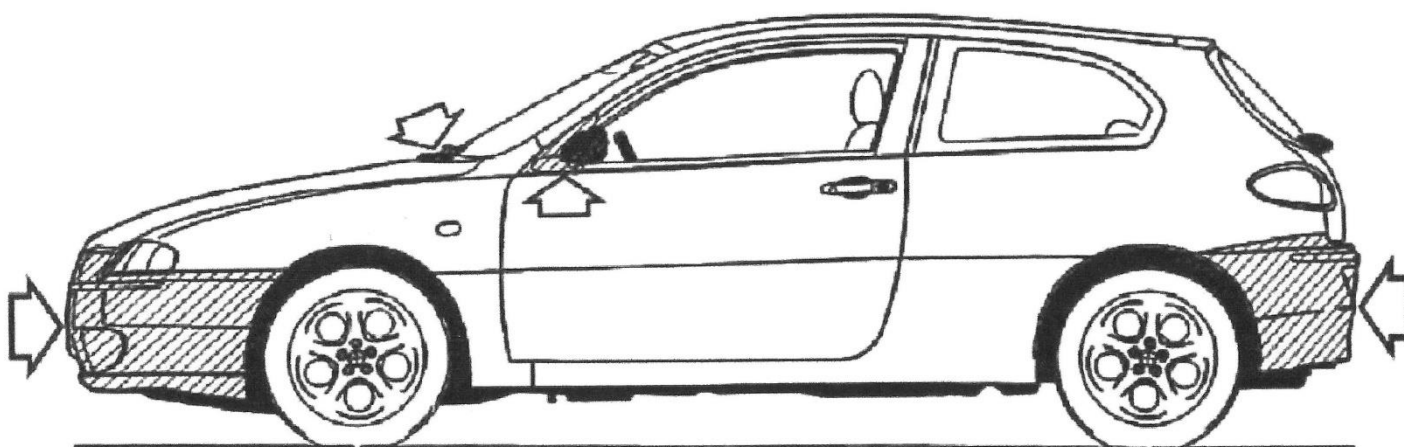


no



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

Number	Part	Material
1	Front Bumper	Plastic
1	Rear Bumper	Plastic
1	Plenum Chamber cover	Plastic
2	Side Mirrors	Plastic & Glass
1	Fuel Filler Door	Plastic
1	Sunroof	Glass





**COMPLEMENTARY INFORMATION****Optional Wheels & Tyres:**

Wheel 6½J x 16" – Offset +41mm – Tyre 205/55 R16

Wheel 7J x 18" – Offset +40mm – Tyre 215/40 ZR18