Vehicle general information

Vehicle bodywork specifications

Lifting

Impact

Paintwork

Bodywork equipment and tooling
MEGANE II - Section 0

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Vehicle: Specifications

Dimensions in metres:

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>3.36</td>
</tr>
<tr>
<td>B</td>
<td>8.53</td>
</tr>
<tr>
<td>C</td>
<td>2.42</td>
</tr>
<tr>
<td>D</td>
<td>13.07</td>
</tr>
<tr>
<td>E</td>
<td>5.96</td>
</tr>
<tr>
<td>F (unladen)</td>
<td>4.90</td>
</tr>
<tr>
<td>G</td>
<td>5.96</td>
</tr>
<tr>
<td>H</td>
<td>5.67</td>
</tr>
<tr>
<td>Vehicle Type</td>
<td>Engine</td>
</tr>
<tr>
<td>--------------</td>
<td>--------</td>
</tr>
<tr>
<td>XM0F</td>
<td>K9K</td>
</tr>
<tr>
<td>XM0B</td>
<td>K4J</td>
</tr>
<tr>
<td>XM0H</td>
<td>K4J</td>
</tr>
<tr>
<td>XM0J</td>
<td>K4J</td>
</tr>
<tr>
<td>XM0C</td>
<td>K4M</td>
</tr>
<tr>
<td>XM0G</td>
<td>F9Q</td>
</tr>
<tr>
<td>XM0U</td>
<td>F4R</td>
</tr>
</tbody>
</table>
Vehicle Identification

1. Location of vehicle identification plate
2. Vehicle type and type number; this information also appears on marking (B)
3. MPAW (Vehicle's Maximum Permissible All-up Weight)
4. GTW (Gross train weight, vehicle under load with trailer)
5. Maximum permissible front axle load
6. Maximum permissible rear axle load
7. Vehicle technical specifications
8. Paintwork reference number
9. Equipment level
10. Vehicle type
11. Upholstery code
12. Additional equipment details
13. Fabrication number
14. Interior trim code

Diagram:

- 1: Location of vehicle identification plate
- 2: Vehicle type and type number
- 3: MPAW
- 4: GTW
- 5: Maximum permissible front axle load
- 6: Maximum permissible rear axle load
- 7: Vehicle technical specifications
- 8: Paintwork reference number
- 9: Equipment level
- 10: Vehicle type
- 11: Upholstery code
- 12: Additional equipment details
- 13: Fabrication number
- 14: Interior trim code
II - COLD-MARKING OF THE BODY

The marking is applied to the front section of the engine mounting; it is visible after the engine cover is removed (1).

Note: If replacing the complete body, marking must be applied in compliance with current regulations.
VEHICLE BODYWORK SPECIFICATIONS
Vehicle clearances: Adjustment values

The clearance values are given for information purposes. When adjusting, certain rules have to be followed:
- maintain symmetry with respect to the opposite side,
- ensure flush fitting is correct,
- check correct operation of the opening, and water/air-tightness.

All values are given in millimetres.
Vehicle clearances: Adjustment values

Section 10

\[ X_{10} = 4.2 \text{ mm} \pm 1.2 \]

Section 11

\[ X_{11} = 22.7 \text{ mm} \pm 1.6 \]
Vehicle clearances: Adjustment values

Section 12
\[(X_{12}) = 4 \text{ mm} \pm 1.2\]

Section 13
\[(X_{13}) = 22.7 \text{ mm} \pm 1.6\]

Section 14
\[(X_{14}) = 5.1 \text{ mm} \pm 0.9\]
\[(X_{14}) = 3 \text{ mm} \pm 1.8\]
VEHICLE BODYWORK SPECIFICATIONS

Vehicle clearances: Adjustment values

Section 15
\[(X_{15}) = 4.5 \, \text{mm} \pm 1.9\]

Section 16
\[(X_{16}) = 2.5 \, \text{mm} \pm 0.9\]

Section 17
\[(X_{17}) = 4.5 \, \text{mm} \pm 1.9\]

Section 18
\[(X_{18}) = 4.5 \, \text{mm} \pm 1.7\]
VEHICLE BODYWORK SPECIFICATIONS

Vehicle clearances: Adjustment values

<table>
<thead>
<tr>
<th>Section</th>
<th>Adjustment Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>19</td>
<td>X19 = 4.5 mm ± 2.1 mm</td>
</tr>
<tr>
<td>20</td>
<td>X20 = 5 mm ± 1.9 mm</td>
</tr>
<tr>
<td>21</td>
<td>X21 = 1.5 mm ± 1.4 mm</td>
</tr>
</tbody>
</table>
I - TOWING

1 - Position of front attachment point
2 - Position of rear attachment point

II - LIFTING BY TROLLEY JACK

Equipment required:
- diagnostic tool
- safety belt

WARNING
- Observe the laws relating to towing for the country you are in.
- Never use the driveshafts as an attachment point.
- The towing points may only be used for towing the vehicle on roads.
- Never use the towing points to pull the vehicle from a ditch or to lift the vehicle, either directly or indirectly.
- Screw in or lock the towing ring before towing.

Vehicles fitted with automatic transmission
The vehicle should preferably be towed on a platform or by raising the front wheels. If this is not possible, in exceptional circumstances, the vehicle may be towed at a speed below 12 mph (20 km/h) over a maximum distance of 18 miles (30 km).

Vehicles fitted with a RENAULT card
If the vehicle battery is flat, the steering column remains locked. In this situation, use a battery or an electrical source to lock the airbag computer, using the diagnostic tool (see MR 364 Electrical equipment, 88C, Airbag and pretensioners, Precautions for repair), which will unlock the steering column.
- If it is not possible to lock the airbag computer, the front of the vehicle must be lifted.

IMPORTANT
If a trolley jack is used, appropriate axle stands must always be used.
LIFTING Vehicle: Towing and lifting

B84 or C84

To raise a front or rear wheel, place the jack at (1) or (2).

To mount the vehicle on axle stands, the entire vehicle must be lifted on one side and axle stands must be placed under the body reinforcements which are used as jacking points at (3) or (4).

III - LIFTING ON A LIFT

1 - Safety advice reminder

If it is necessary to remove heavy components from the vehicle, it is preferable to use a four post lift. There is a danger that the vehicle will tilt on a two-post lift after certain components have been removed (e.g. engine and transmission assembly, rear axle, gear-box). Fit the (safety belt) available from the Parts Department.

WARNING - The sub-frame of this vehicle is protected by products providing a 12-year anti-perforation warranty.

- To avoid the direct metal to metal contact which could damage the protection originally applied, never use equipment which is not fitted with rubber pads.

- The vehicle must not be lifted by placing the jack beneath the front suspension arm or under the rear axle.

101535

101536
Fitting the straps

For safety reasons, these straps must always be in perfect condition. Replace them as soon as they show signs of wear.

When fitting the straps, check that the seats and fragile parts of the vehicle are correctly protected.

a - Tilting towards the front
- Place the strap under the rear right-hand arm of the lift.
- Pass the strap through the inside of the vehicle.
- Pass the strap under the rear left-hand arm of the lift.
- Pass the strap through the inside of the vehicle again.
- Tighten the strap.

b - Tilting towards the rear
- Place the strap under the front right-hand arm of the lift.
- Pass the strap through the inside of the vehicle.
- Pass the strap under the front left-hand arm of the lift.
- Pass the strap through the inside of the vehicle again.
- Tighten the strap.

3 - Permitted lifting points

To raise the vehicle, position the pads of the lift arms as indicated below taking care not to damage the end of the front wing or the underside of the sill panel.

**Front lifting points**

**Rear lifting points**

**IMPORTANT**

Only the lifting points described in this section allow the vehicle to be raised in complete safety. Do not raise the vehicle using points other than those described in this section.
LIFTING
Vehicle: Towing and Lifting
Impact

Damaged vehicle: Collision fault finding

Checking the subframe

Chronological order of checks:

FRONTAL impact

-1 : (B) - (G1) = (B1) - (G)

-2 : (G1) - (C) = (G) - (C1)

-3 : (G1) - (H) = 1391 mm

-4 : (G) - (H1) = 968 mm

REAR impact

-1 : (G) - (B1) = (G1) - (B)

-2 : (G) - (D1) = (G1) - (D)

-3 : (H) - (H1) = 968 mm

-4 : (J) - (J1) = 1102 mm

Note:
The front and rear end points are not symmetrical; to check them, measure the centre-to-centre distance of these points.
03B

Impact

Damaged vehicle: Collision fault finding

B84 or C84

Detailed view of inspection points

Points H, H1 Front side member front leader pin.

Points J, J1.
**Vehicle damaged at front: Description**

1. **1st degree**
   - (1) Front end side cross member
   - (2) Radiator cross member mounting
   - (3) Front side member closure panel
   - (4) Front half unit

2. **2nd degree**
   - (5) Scuttle side panel upper reinforcement
   - (6) Scuttle side panel
   - (7) Front sub-frame assembly mounting unit
   - (8) Front section of front side member
   - (9) Battery tray mounting
   - (10) Engine mounting

3. **3rd degree**
   - (11) Centre floor
   - (12) Bulkhead lower cross member
IMPACT
Vehicle damaged at front: Description

- (13) Wheel arch
- (14) Front sub-frame rear mounting unit.
- (15) Centre floor front side cross member
IMPACT
Vehicle damaged at side: Description

1st degree
- (1) Front door panel
- (2) Sill panel
- (3) Upper body panel
- (4) Body side front section
- (5) Body side front section reinforcement
- (6) B-pillar

2nd degree
- (7) Rear inner sill panel

Note: The parts marked with an asterisk are different on 3-door versions but do not change the part combinations for impacts.
Vehicle damaged at side: Description

- (8) Centre floor side section
- (9) Front cross member under front seat
- (10) Front seat rear mounting unit
- (11) Tunnel
- (12) Bulkhead lower cross member
- (13) Bulkhead
- (14) Bulkhead reinforcement
- (15) Bulkhead upper cross member
- (16) Plenum chamber
- (17) Dashboard cross member
- (18) Windscreen aperture lower cross member
- (19) Windscreen aperture lower cross member closure panel
- (20) Windscreen wiper mounting
- (21) Roof cross members
**Vehicle damaged at rear: Description**

1. **1st degree**
   - (1) Rear wing panel*
   - (2) Rear wheel arch extension*
   - (3) Rear end panel assembly
   - (4) Rear end panel

2. **2nd degree**
   - (5) Exhaust mounting bracket
   - (6) Tank mounting bracket
   - (7) Rear floor front section
   - (8) Fuel sender closure panel
   - (9) Rear side member closure panel
   - (10) Sill panel reinforcement stiffener
   - (11) Sill panel rear reinforcement
   - (12) Impact cross member mounting reinforcement
   - (13) Rear wing panel rain channel
   - (14) Rear light mounting
   - (15) Light mounting lining
   - (16) Rear end panel side lining
   - (17) Part no longer sold either separately or as part of an assembly
   - (18) End rear lower cross member side section
   - (19) Rear floor front cross member centre section
   - (20) Quarter panel lining

*Note: The parts marked with an asterisk are different on 3-door versions but do not change the part combinations for impacts.*
03B-8

Impact
Vehicle damaged at rear: Description

- (21) Quarter panel lining
- (22) Rear floor centre cross member
- (23) Rear side member
- (24) Rear side member closure panel
- (25) Inner rear wheel arch
- (26) Rear wheel arch closure panel
- (27) Quarter panel reinforcement

Note
The parts marked with an asterisk are different on 3-door versions but do not change the part combinations for impacts.
Anti-corrosion protection product Description

REMINDER:
The hollow body parts of the structure of the vehicle are protected in the factory by injecting hot wax. To guarantee equivalent protection after repair, inject one after the other the two complementary products which make up a « PAC1, PAC2 » kit.

After injection, all the orifices must be covered using blanking covers moulded to fit each one. The products and equipment required for carrying out this work are available from the Parts Department:

Injector assembly

The necessary information concerning blanking covers can be found in the Parts Catalogue for the vehicle.

The subframe under the floor is protected with a special wax:
BODYWORK EQUIPMENT AND TOOLING

Body jig bench: Description

B84 or C84

CELETTE
Special heads for the MZ System
Order from: CELETTE S.A B.A.9 38026 VIENNA

Complete assembly for the MEGANE: 896.300

BLACKHAWK
Special heads for the MS System
Order from: BLACKHAWK centre Eurofret Rue de Rheinfeid 67100 STRASBOURG.

Complete assembly for the MEGANE: REN-88 835

CELETTE BODY JIG BENCH ANCHORING KIT
Supplier's part number: AN.36

102454

Note:
This equipment is only available to order.

102455
Body jig bench: Description

BLACKHAWK BODY JIG BENCH ANCHOR KIT

Supplier's part number: AEK-186.4

[Diagram of the body jig bench anchor kit]
Body jig bench: Description

B84 or C84
## Special Tooling: Description

<table>
<thead>
<tr>
<th>Car.</th>
<th>Tool Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1673</td>
<td>Tool for removing the dashboard cross member</td>
</tr>
<tr>
<td>1670</td>
<td>Dashboard protector</td>
</tr>
<tr>
<td>1679</td>
<td>Pliers for rebuilding the seat frame</td>
</tr>
<tr>
<td>1504</td>
<td>Captive nut tool</td>
</tr>
</tbody>
</table>

### Car. 1673
- Dashboard beam play compensation pin
- Repositioning bolts

### Car. 1670
- Dashboard protector
- Pliers for front seat height adjuster springs

### Car. 1679
- Pliers for front seat height adjuster springs
- Tool for fitting crease type nuts into body panels.
BODYWORK EQUIPMENT AND TOOLING

Bodywork equipment: Description

I - THREAD REPAIR KIT
Part number: HC TYPE 41 86 000 000
Specific to RENAULT
Supplier: BOLLHOFF - OTALU-SA
Certification no.: 1000900

II - SUCTION PAD FOR FITTING SUNROOF
Part number: PARV 202
Windscreen support
Part number: APARV 200 ESP
Sets of supports

102330
101299