Retrofit alarm system
MINI ONE (R 50)
MINI COOPER (R 50)
MINI COOPER S (R 53)

These installation instructions apply to cars built after 09/03 only.

Retrofit kit No. 65 75 0 397 059 Alarm system retrofit kit

Installation time
The installation time is 3.5 hours, but this may vary depending on the equipment in the car.

Important information
These installation instructions are primarily designed for use within the MINI dealership organisation and by authorised BMW service companies.

In any event the target group for these installation instructions is specialist personnel trained on MINI cars with the appropriate specialist knowledge.

All work must be completed using the latest MINI repair manuals, circuit diagrams, servicing manuals and work instructions in a rational order using the prescribed tools (special tools) and observing current health and safety regulations.

To avoid unnecessary extra work and/or costs, if any installation or function problems occur, after a brief troubleshooting session (approx. 0.5 hours), contact the following:
1. Either your national subsidiary or your regional office
2. Support via the Aftersales Assistance Portal (ASAP) using the optional “Technical Parts Support” application.

Specify the chassis number and the part number of the installed retrofit kit and give a precise description of the problem.

Pictograms:

- Denotes instructions that draw your attention to special features.

- Denotes the end of the instruction or caution text.

See ASAP for details of the pictograms.

Do not archive the hard copy of these installation instructions since daily updates are made by Aftersales Portal.

Subject to technical modifications.
Installation information
Ensure that the cables/lines are not kinked or damaged as you install them in the car. The costs incurred as a result of this will not be reimbursed by BMW AG.

Additional cables/lines that you install must be secured with cable ties.

If the specified PIN chambers are already used, bridges, double crimps or twin-lead terminals must be used.

All the figures show LHD cars, proceed in exactly the same way on RHD cars.

Some of the installation of the aerial is shown only on the left-hand side of the car, proceed in the same way on the right-hand side of the car.

After the installation work the retrofit kit must be programmed / coded using DISPlus or GT-1 via the Retrofit path.

Ordering instructions
The cover for the ultrasonic module F is not included in the retrofit kit and must be ordered separately (see EPC for part number and documentation).

The switch for the wipers B for cars built before 01/05 is not included in the retrofit kit and must be ordered separately (see EPC for part number and details).

The indicator switch Q for cars built after 01/05 is not included in the retrofit kit and must be ordered separately (see EPC for part number and details).

Special tools required
None
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<th>Page</th>
</tr>
</thead>
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</table>
1. Parts list

Legend

A  Connection cable
B  Switch for wipers (for cars built before 01/05 only, not supplied in the retrofit kit)
C  Emergency-current siren
D  Emergency-current siren holder
E  Ultrasonic module
F  Trim for ultrasonic module (not included in the retrofit kit)
G  Holder for ultrasonic module, bottom
H  Holder for ultrasonic module, top
I  Hexagonal screw with washer M6 x 12 mm
J  Cable tie (20x)
K  Socket casing
L  Hexagonal nut with washer M6 (2x)
M  5 A fuse
N  Template
O  Repair cable (10x)
P  Shrink hose (6x)
Q  Base module
## 2. Preparations

<table>
<thead>
<tr>
<th>TIS No.</th>
<th>Action Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>---</td>
<td>Conduct a brief test</td>
</tr>
<tr>
<td>12 00 ...</td>
<td>Disconnect the negative pole of the battery</td>
</tr>
</tbody>
</table>

### The following components must be removed first of all

<table>
<thead>
<tr>
<th>TIS No.</th>
<th>Action Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>52 20 010</td>
<td>Remove the rear seat</td>
</tr>
<tr>
<td>52 20 070</td>
<td>Remove the backrest for the rear seat</td>
</tr>
<tr>
<td>51 43 002</td>
<td>Remove the side trim at the rear left</td>
</tr>
<tr>
<td>51 47 000</td>
<td>Remove the door sill strips on both sides</td>
</tr>
<tr>
<td>51 43 251</td>
<td>Remove the C pillar covers on both sides</td>
</tr>
<tr>
<td>51 43 148</td>
<td>Remove the door pillar trims on both sides</td>
</tr>
<tr>
<td>51 44 011</td>
<td>Remove the SHD frame at the front and rear</td>
</tr>
<tr>
<td>51 16 450</td>
<td>Remove the rear grab handles on both sides</td>
</tr>
<tr>
<td>63 31 000</td>
<td>Remove the ceiling light</td>
</tr>
<tr>
<td>51 44 001</td>
<td>Release the headlining at the rear</td>
</tr>
<tr>
<td>---</td>
<td>Remove oddments box on the driver’s side</td>
</tr>
<tr>
<td>62 11 400</td>
<td>Remove the instrument on the steering column</td>
</tr>
<tr>
<td>32 31 004</td>
<td>Remove the top part of the steering column trim</td>
</tr>
<tr>
<td>32 31 020</td>
<td>Remove the bottom part of the steering column trim</td>
</tr>
<tr>
<td>61 31 040</td>
<td>Remove the switch for wipers (cars built before 01/05 only)</td>
</tr>
<tr>
<td>61 31 016</td>
<td>Indicator switch (cars built after 01/05 only)</td>
</tr>
<tr>
<td>61 13 ...</td>
<td>Release the fuse holder</td>
</tr>
<tr>
<td>---</td>
<td>Base module</td>
</tr>
</tbody>
</table>
## Connection diagram

<table>
<thead>
<tr>
<th>Branch</th>
<th>Description</th>
<th>Signal</th>
<th>Cable colour / Cross-section</th>
<th>Connection location in the car</th>
<th>Abbreviation / Slot</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Connection cable</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A1</td>
<td>Blade terminal contact</td>
<td>NG</td>
<td>SW/BL 0.35 mm²</td>
<td>To emergency-current siren C</td>
<td>X19562 PIN 2</td>
</tr>
<tr>
<td>A2</td>
<td>Blade terminal contact</td>
<td>STDWA</td>
<td>SW/RT 0.50 mm²</td>
<td>To emergency-current siren C</td>
<td>X19562 PIN 3</td>
</tr>
<tr>
<td>A3</td>
<td>Blade terminal contact</td>
<td>Terminal 31</td>
<td>BR 0.50 mm²</td>
<td>To emergency-current siren C</td>
<td>X19562 PIN 4</td>
</tr>
<tr>
<td>A4</td>
<td>Blade terminal contact</td>
<td>Siren</td>
<td>SW/BL 0.50 mm²</td>
<td>To emergency-current siren C</td>
<td>X19562 PIN 5</td>
</tr>
<tr>
<td>A5</td>
<td>Blade terminal contact</td>
<td>Terminal 30</td>
<td>RT/SW 0.50 mm²</td>
<td>To emergency-current siren C</td>
<td>X19562 PIN 6</td>
</tr>
<tr>
<td>A6</td>
<td>Blade terminal contact</td>
<td>DWALED</td>
<td>GR/SW/GE 0.35 mm²</td>
<td>Cars built before 01/05 only: To switch for wipers B Cars built after 01/05 only: To indicator switch Q</td>
<td>X10692 PIN 9 X32 PIN 5</td>
</tr>
<tr>
<td>A7</td>
<td>Blade terminal contact</td>
<td>Terminal 30</td>
<td>RT/SW 0.50 mm²</td>
<td>Cars built before 09/05 only: To fuse holder A47 Cars built after 09/05 only: To fuse holder A47</td>
<td>X10207 PIN 11</td>
</tr>
<tr>
<td>A8</td>
<td>Cable eyelet</td>
<td>Terminal 31 L</td>
<td>BR 0.50 mm²</td>
<td>To earth post</td>
<td>X1108</td>
</tr>
<tr>
<td>A9</td>
<td>Cable eyelet</td>
<td>Terminal 31 E</td>
<td>BR/SW 0.35 mm²</td>
<td>To earth post</td>
<td>X13230</td>
</tr>
<tr>
<td>A10</td>
<td>SW 4-pin socket casing</td>
<td></td>
<td></td>
<td>To ultrasonic module E</td>
<td>X1582</td>
</tr>
<tr>
<td>A11</td>
<td>Blade terminal contact</td>
<td>DWALED</td>
<td>GR/SW/GE 0.35 mm²</td>
<td>To base module</td>
<td>X255 PIN 14</td>
</tr>
<tr>
<td>A12</td>
<td>Blade terminal contact</td>
<td>Siren</td>
<td>SW/BL 0.50 mm²</td>
<td>To base module</td>
<td>X253 PIN 11</td>
</tr>
<tr>
<td>A13</td>
<td>Blade terminal contact</td>
<td>SW/GE</td>
<td>0.35 mm²</td>
<td>To base module</td>
<td>X253 PIN 15</td>
</tr>
<tr>
<td>A14</td>
<td>Blade terminal contact</td>
<td>INRS</td>
<td>RT/SW 0.50 mm²</td>
<td>To base module</td>
<td>X253 PIN 16</td>
</tr>
<tr>
<td>A15</td>
<td>Blade terminal contact</td>
<td>STDWA</td>
<td>SW/RT 0.50 mm²</td>
<td>To base module</td>
<td>X253 PIN 27</td>
</tr>
<tr>
<td>A16</td>
<td>Blade terminal contact</td>
<td>NG</td>
<td>SW/BL 0.35 mm²</td>
<td>To base module</td>
<td>X253 PIN 30</td>
</tr>
</tbody>
</table>

If branches A11–A17 do not fit into plugs X253 and X255, use the butt-joint connector and shrink hose Q to install the supplied repair cable O.
4. Installation and cabling diagram, LHD car

Legend

A  Connection cable
B  Switch for wipers (for cars built before 01/05 only)
C  Emergency-current siren
E  Ultrasonic module
Q  Indicator switch (for cars built after 01/05 only)

1  Fuse holder
   Plug X10207 (cars built before 09/05 only) / X10200 (cars built after 09/05 only)
2  Earth post X1108
3  Earth post X13230
4  Base module X253
5  Base module X255
6  Cable passage rubber grommet
5. Installation and cabling diagram, RHD car

Legend

A  Connection cable
B  Switch for wipers (for cars built before 01/05 only)
C  Emergency-current siren
E  Ultrasonic module
Q  Indicator switch (for cars built after 01/05 only)

1  Fuse holder
   Plug X10207 (cars built before 09/05 only) / X10200 (cars built after 09/05 only)
2  Earth post X1108
3  Earth post X13230
4  Base module X253
5  Base module X255
6  Cable passage rubber grommet
6. To install the ultrasonic module in the interior roof trim with a sunroof

Position the template N on the raised area in the centre of the installed headlining (1).
Affix template N and cut out the headlining using a carpet knife.

Note the installation direction, the arrow on ultrasonic module holder H must point towards the front of the car.
Insert the ultrasonic module holder H into the cut-out in the headlining from above.

Note the installation direction, the arrow on ultrasonic module holder G must point towards the front of the car.
Clip the ultrasonic module holder G inserted from below to the ultrasonic module holder H.

The installation arrows on ultrasonic module E and ultrasonic module trim F must point towards the front of the car.
Clip the ultrasonic module E into ultrasonic module trim F.
7. To install the ultrasonic module in the interior roof trim without a sunroof

Position the template N in the centre.
Affix the template and cut out the headlining with a carpet knife.

Note the installation direction, the arrow on ultrasonic module holder H must point towards the front of the car.

Insert the ultrasonic module holder H into the cut-out in the headlining from above.

Note the installation direction, the arrow on ultrasonic module holder G must point towards the front of the car.

Clip the ultrasonic module holder G inserted from below into the ultrasonic module holder H.
7. To install the ultrasonic module in the interior roof trim without a sunroof

The installation arrows on ultrasonic module E and ultrasonic module trim F must point towards the front of the car.

Clip the ultrasonic module E into ultrasonic module trim F.
8. To install the alarm system connection cable

Connect branch A10 to the ultrasonic module holder E.

Screw the cable eyelet A8 to the earth bolt X1108.

Screw the cable eyelet A9 to earth bolt X13230.

Cars built before 09/05 only

Connect branch A7, RT/SW cable, to PIN 11 in socket casing X10207.

Check that there is a fuse in fuse slot F24.
Insert fuse M if there is not.
8. To install the alarm system connection cable

**Cars built after 09/05 only**

Connect branch A7, RT/SW cable, to PIN 6 in socket casing X10200.

- Check that there is a fuse in fuse slot F24. If not, insert fuse M.

**Cars built before 01/05 only**

Route branch A6 to plug X10692 on the wiper switch B and connect it to PIN 9.

- Insert the switch for the wipers B and secure it with a Philips screw (1).
- Connect plug X10692 to the switch for the wipers B.

**Cars built after 01/05 only**

Route branch A6 to plug X32 on the indicator switch Q and connect it to PIN 5.

- Insert the indicator switch Q and secure it with a Philips screw (1).
- Connect plug X32 to the indicator switch Q.

**All cars**

Route branches A1-A5 and A11-A16 along the standard wiring harness above the dashboard.
8. To install the alarm system connection cable

If branches A11-A16 do not fit into plug X253 or X255, use the butt-joint connector and shrink hose P to install the supplied repair cable O.

Connect branches A12-A14 to plug X253 as follows:
- Branch A12, SW/BL cable, to PIN 11
- Branch A13, SW/GE cable, to PIN 15
- Branch A14, RT/SW cable, to PIN 16

Connect branches A14 and A15 to plug X253 as follows:
- Branch A15, SW/RT cable, to PIN 27
- Branch A16, SW/BL cable, to PIN 30

Connect branch A11, GR/SW/GE cable, to PIN 14 in plug X255.
8. To install the alarm system connection cable

Thread branches A1-A5 through the cable grommet on the driver's side.

- Seal the rubber grommet with sealing compound.

- Make sure that connection cable A does not come into contact with the wiper linkage. Use a cable tie J to secure the connection cable A.

Route branches A1-A5 behind the bulkhead to the installation site of the emergency-current siren (in the engine compartment on the right).

Connect branches A1-A5 to socket casing K as follows:
- Branch A1, SW/BL cable, to PIN 2
- Branch A2, SW/RT cable, to PIN 3
- Branch A3, BR cable, to PIN 4
- Branch A4, SW/BL cable, to PIN 5
- Branch A5, RT/SW cable, to PIN 6

Use a hexagonal nut L to secure the emergency-current siren C to the holder D.

Connect socket casing K to the emergency-current siren C.
8. To install the alarm system connection cable

Use a hexagonal screw I and hexagonal nut L to secure the emergency-current siren holder D.
9. Concluding work and coding

This retrofit system requires coding.

- Connect the battery
- The retrofit must be programmed / coded using SSS (software service station) via the Retrofit path
- Conduct a brief test
- Conduct a function test
- Re-assemble the car

The operating instructions for the alarm system is described in the owner’s manual to which you should refer.
10. Circuit diagram

Cars built before 09/05 only
10. Circuit diagram

Cars built after 09/05 only

Legend

A1 Base module
A47 Fuse holder
A121 Ultrasonic module E*
A14147 Emergency-current siren C*

S5 Switch for wipers B* (cars built before 01/05 only)
S7 Indicator switch Q* (for cars built after 01/05 only)

X32 12-pin socket casing, SW, on indicator switch Q*; A6* (cars built after 01/05 only)
X253 54-pin socket casing, SW, to base module A1; A12*-A16*
X255 54-pin socket casing, BL, to base module A1; A11*
X1108 Earth post (I) HF, A8*
X1582 4-pin socket casing, SW, to ultrasonic module E*; A10*
X10207 12-pin socket casing, VI, to fuse holder A47; A7*
X10692 10-pin socket casing, VS, to switch for wipers B*; A6* (cars built before 01/05 only)
X13230 Earth post E, A9*
X13460 Ultrasonic sensor connector
X19562 6-pin socket casing, SW, to emergency-current siren C*; A1*-A5*

All the designations marked with an asterisk (*) apply only to these installation instructions or this circuit diagram.
10. Circuit diagram

**Cable colours**

<table>
<thead>
<tr>
<th>Code</th>
<th>Colour</th>
</tr>
</thead>
<tbody>
<tr>
<td>BL</td>
<td>Blue</td>
</tr>
<tr>
<td>BR</td>
<td>Brown</td>
</tr>
<tr>
<td>GE</td>
<td>Yellow</td>
</tr>
<tr>
<td>GR</td>
<td>Grey</td>
</tr>
<tr>
<td>RT</td>
<td>Red</td>
</tr>
<tr>
<td>SW</td>
<td>Black</td>
</tr>
</tbody>
</table>