Original MINI Accessories.

(from MotoringFile.com)



Park Distance Control (PDC) Rear Retrofit MINI ONE and COOPER (R 50) MINI COOPER S (R 53)

Installation instructions only valid for U.S. cars.

Retrofit kit No. 66 21 0 397 618 Park Distance Control (PDC) Rear Retrofit

Installation time

The installation time is 2.0 hours, but this may vary depending on the condition of the car and the equipment in it.

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 sales company or your regional office or
- 2. The Support team 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.

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

See ASAP for details of the pictograms.

Pictograms

Denotes instructions that draw your attention to special features.

◆ Denotes the end of the instruction or other text.

Subject to technical modifications.

Print out section 10 of these installation instructions and give it to the customer.

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.

Special tools required

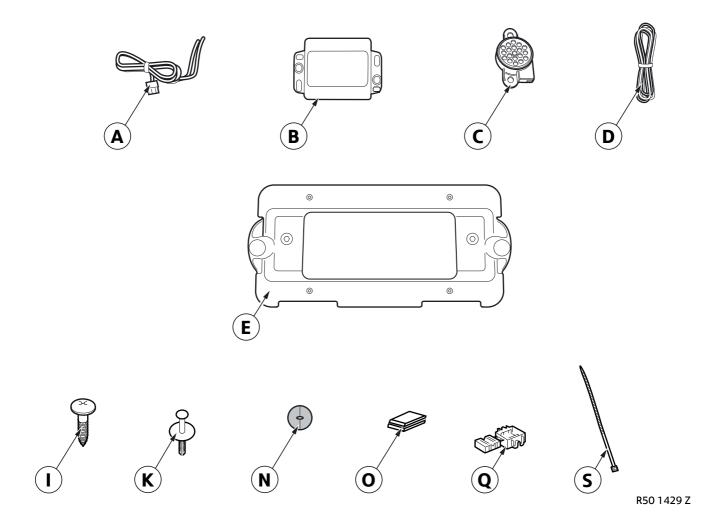
None

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1. Parts list



Legend

- A Wiring harness
- B Control unit
- C Signal generator
- D Signal generator cable
- E License plate holder
- I Philips screw 4.8 x 15 mm (4x)

- K Expanding rivet 6 mm (4x)
- N 2-piece rubber grommet
- O Velcro strip (2x)
- Q Miniature connector (4x)
- S Cable tie 200 x 3.6 mm (20x)

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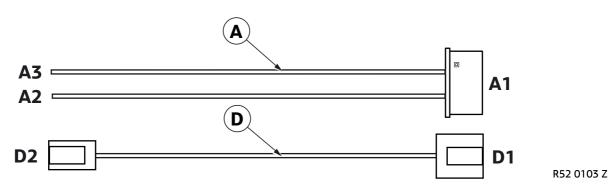
The other parts in the universal retrofit kit are not required. \P

2. Preparations

	TIS No.
Conduct a brief test	
Disconnect negative pole of battery	12 00
The following components must be removed first of all	
Trunk floor trim	51 47 101
Right trunk wheel arch trim	51 47 161
Trim for the tailgate	51 49 000

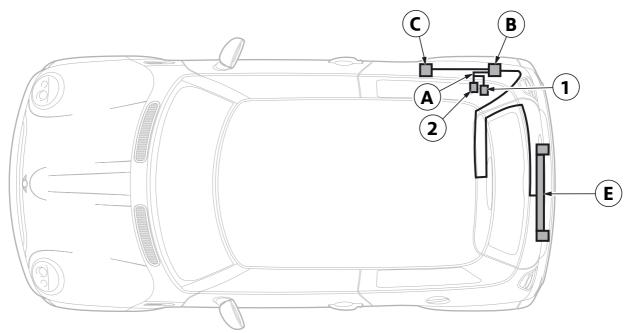
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3. Connection diagram



Branch/ Item	Designation	Signal	Cable color / Cross-section	Connection location in the car	Abbreviation / Slot
Α	Wiring harness				
A1	SW 4-pin socket casing			On control unit B	
A2	Cable open	Terminal 31	SW 0.35 mm ²	Using miniature connector Q on BR cable from joint connector terminal 31 on the right-hand side of the trunk	X494
A3	Cable open	RFS terminal	RT 0.35 mm ²	Using miniature connector Q to BL/GE cable on the standard wiring harness on the righthand side of the trunk	X318
D	Signal generator cable				
D1	SW 4-pin socket casing			On control unit B	
D2	SW 2-pin socket casing			On signal generator C	

4. Installation and cabling diagram



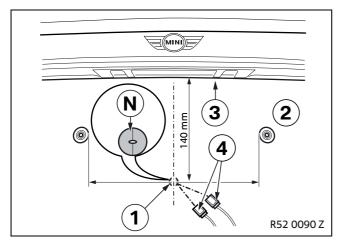
R50 1430 Z

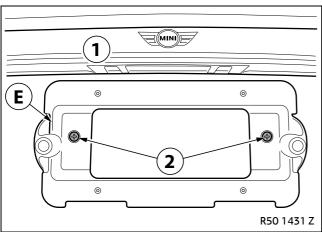
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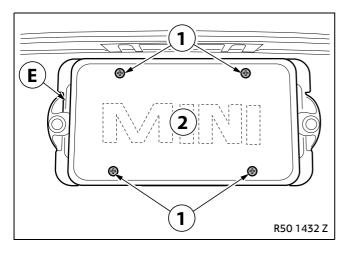
Legend

- A Wiring harness
- B Control unit
- C Signal generator
- E License plate holder
- 1 RFS terminal pick-up on the standard wiring harness
- 2 Terminal 31 tap on joint connector **X494**

5. To install the license plate holder







Mark the hole (1) on the trunk lid (2) as follows:

- In the middle
- Approx. 140 mm from the edge (3)

Drill through the trunk lid (2) at the marked position (1) using a 12 mm step drill bit.

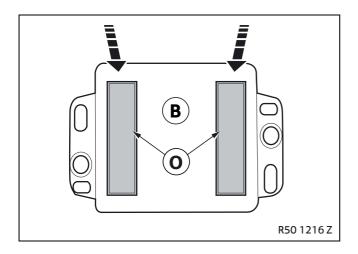
Complete the anti-corrosion treatment process.

Route the sensor cable (4) through 2-piece rubber grommet **N** and insert 2-piece rubber grommet **N** into the trunk lid (2).

Secure license plate holder **E** to the trunk lid (1) using the license plate screws (2).

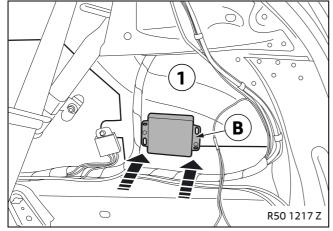
Secure the license plate (2) to license plate holder **E** using the license plate screws (1).

6. To install the control unit and signal generator



Clean and degrease the gluing surfaces.

Affix Velcro strips **O** to control unit **B**.

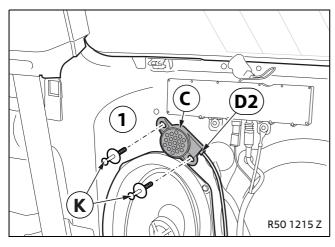


Cars with harman/kardon hi-fi loudspeaker system (SA 674) only

Remove the amplifier with holder.

All cars

Glue control unit **B** onto the right-hand body side part (1).



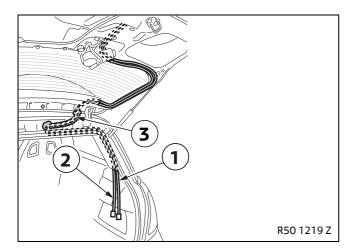
Place signal generator **C** on the right body side section (1) and mark the positions for the holes.

Drill the hole with a 6.0 mm twist drill bit and treat the area with anti-corrosive coating.

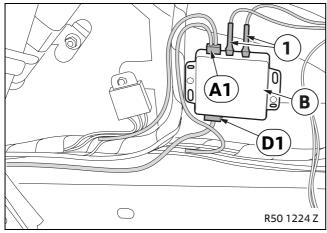
Use expanding rivets **K** to secure signal generator **C** to the right body side section (1).

Connect branch **D2** (SW 2-pin) to signal generator **C**.

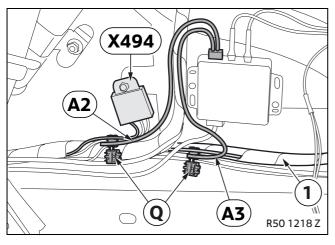
7. To install and connect the wiring harness



Route sensor cables (1) and (2) along the standard wiring harness through the grommet (3) and into the right-hand side of the trunk.



Connect the sensor cable (1), branch **A1** (SW 4-pin) and branch **D1** (SW 4-pin) to control unit **B**.



Route branch **A2**, SW cable, to joint connector **X494**, BR cable, and connect it with miniature connector **Q**.

Connect branch **A3**, RT cable, to the standard wiring harness (1) leading to the right tail light as follows:

- Select the BL/GE cable
- Check that the terminal RFS reversing signal is active

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Connect branch A3 using miniature connector Q

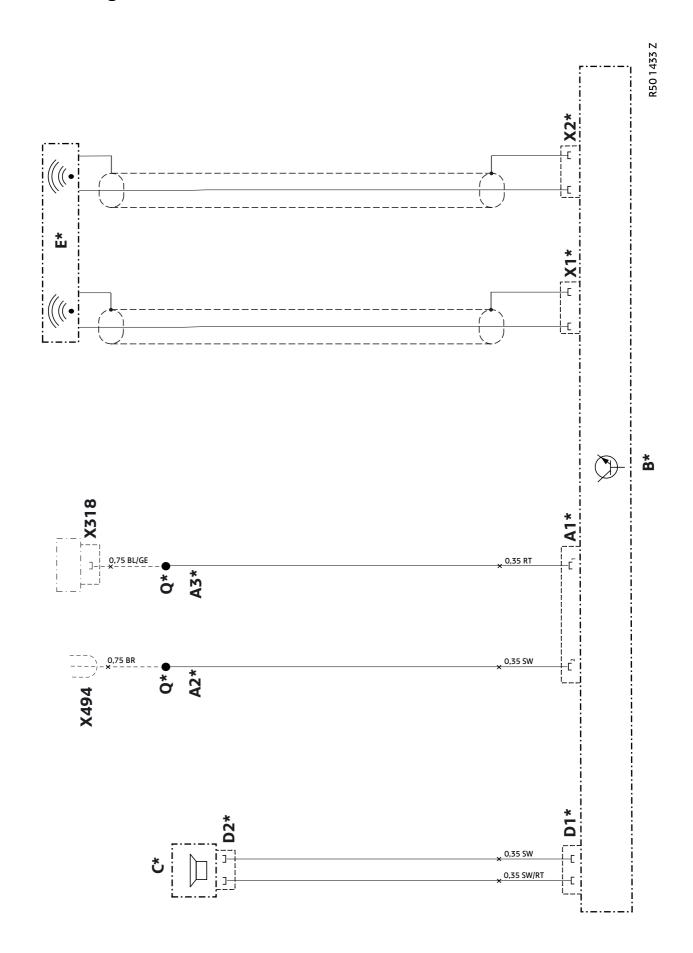
8. Concluding work and coding

This retrofit system does not require coding.

- Connect the battery
- Conduct a brief test
- Perform a function test of the PDC
- Re-assemble the car

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9. Circuit diagram



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9. Circuit diagram

Legend

A1* SW 4-pin plug

A2* Terminal 31 pick-up

A3* Terminal RFS pick-up

B* Control unit

C* Signal generator

D1* SW 4-pin plug

D2* SW 2-pin plug

E* License plate holder

Q* Miniature connector

X1* SW 2-pin plug

X2* SW 2-pin plug

X318 SW 6-pin plug

X494 Terminal 31 joint connector

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

Cable colors

BL Blue

BR Brown

GE Yellow

RT Red

SW Black

10. Customer Information for Operating the Rear Park Distance Control (PDC)

Print out this customer information and give it to the customer.





Denotes instructions that draw your attention to dangers.

Denotes instructions that draw your attention to special features.

◆ Denotes the end of the instruction or other text.

Function

The PDC is a system which assists you when parking and maneuvering.

Ultrasonic sensors record the position of obstacles behind the car and inform the driver by means of acoustic signals.

Acoustic signals start when an obstacle is detected by the PDC.

The closer the car approaches the obstacle, the more rapid the acoustic signals. A permanent signal sounds when the distance to the obstacle reaches 30 cm/1 ft.

Operation

The PDC is switched on automatically as soon as reverse gear is engaged when the ignition is turned on.

The PDC is switched off automatically as soon as the ignition is turned off or reverse gear is disengaged.



Judging obstacles is exclusively the responsibility of the driver, who must drive attentively and carefully in order to avoid damaging property and injuring people. ◀



As with all ultrasonic distance measuring systems, signals may be triggered incorrectly or individual objects may not be registered sufficiently.

Due to the car, blind spots may occur in front of the bumper and at its lateral ends. Obstacles in these blind spots may not be registered sufficiently, or not at all.

The limits of what can be physically measured may be reached when encountering very low obstacles (lower than 10 cm/0,33 ft), thin obstacles (thinner than 6 cm/0,2 ft) or pointed obstacles. Such obstacles might not be registered sufficiently under certain circumstances.

To guarantee that the PDC operates properly, you should drive slowly when parking and maneuvering and also keep the ultrasonic sensors free from snow, ice or dirt.

Strong wind, falling snow or rain can trigger incorrect signals. ◀