050 0224 B

Installation Kit Headlight Cleaning System
Mini (R50/R53) LHD and RHD

Installation time approx. 1.5 -2 hours, which can vary according to the condition of the car and the equipment in it.

Retrofit kit No.   61 61 0 029 748

Contents

1. Important information

Only for use in the dealer organisation.

The headlight cleaning system wiring harness may only be installed by a specialist workshop that has the required special tools and manuals (servicing, repair, diagnostics, etc.).

Ensure that the cables/lines are not kinked or damaged as you install them in the car.Additional cables/lines that you install must be secured with cable ties/textile adhesive tape.

Item names refer only to the overview drawings and to the texts next to the appropriate figure.
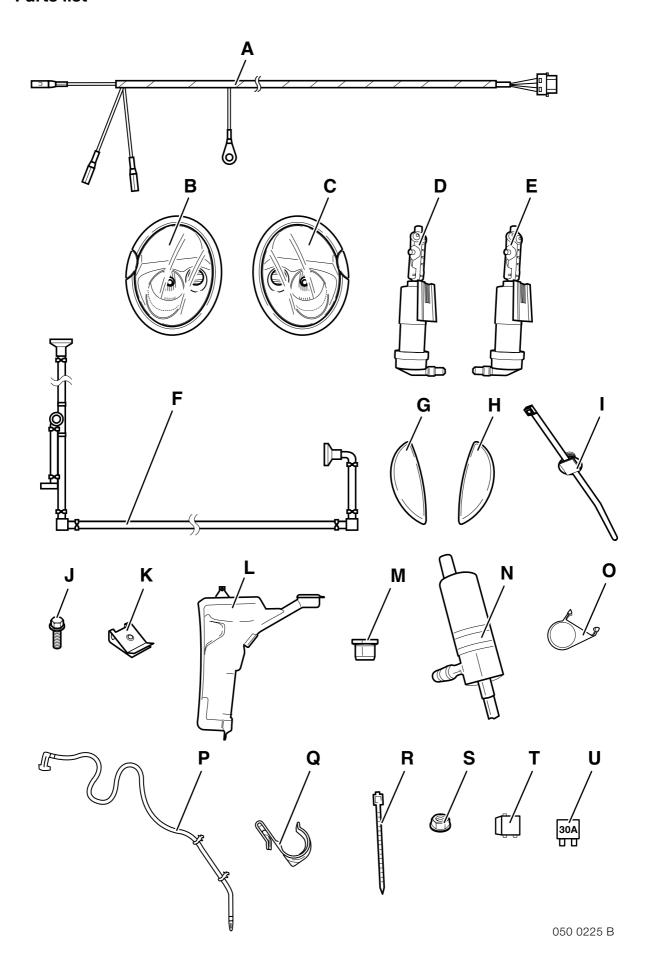
Subject to technical modifications

Special tool

MoDiC

2. Preparations

	TIS instruction No.
Disconnect the battery	12 00...
Remove the left oddments box	51 16 392
Remove the door sill strips left and right	51 47 000
Remove the wheel arch trim left	---
Remove the headlights on both sides	63 12 008
Remove the bonnet trim	---
Remove the left indicator light	63 13 200
Remove the bonnet guide rail on the left side panel	---
Unfasten the fuse box	---
Unfasten base module C	---
Remove the top instrument panel trim	51 45 051
RHD cars only	
Remove the cover behind the hydraulic unit	---

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3. Parts list

A

B **C** **D** **E**

F **G** **H** **I**

J **K** **L** **M** **N** **O**

P **Q** **R** **S** **T** **U**

30A

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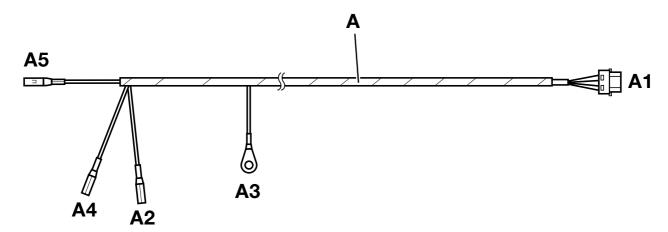Installation Instructions No. 01 31 0 142 303 Issue date: 11.2001

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3. Parts list

Legend

A Headlight cleaning system wiring harness
B Right headlight
C Left headlight
D High-pressure jet left
E High-pressure jet right
F Hose line
G Cover left
H Cover right
I Cable tie with clip (3x)
J Hexagonal screw M6x16 (2x)
K Speed nut
L Headlight cleaning system reservoir (SRA)
M Seal
N High-pressure pump
O Attachment bracket
P Water hose
Q Hose holder
R Cable tie (10x)
S Nut
T Relay
U 30 A fuse

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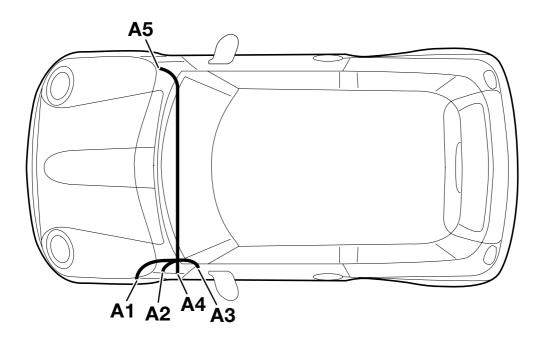Installation Instructions No. 01 31 0 142 303 Issue date: 11.2001

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4. Connection overview

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Item	Description	Signal	Cable colour / Cross-section	Connection location in the car	Abbreviation / Slot
A	Headlight cleaning system wiring harness	---	---	---	---
A1	SW 2-pin socket casing	---	---	To high-pressure pump of headlight cleaning system	X1011
A2	Blade terminal contact	TI. MPW	GN/RT	To fuse holder of WS 6-pin socket casing	X10202, PIN1
A3	Cable eyelet, 6 mm in diameter	Terminal 31	BR	To earth post left	X1108
A4	Blade terminal contact	Terminal 30	BR/OR	To fuse holder of BL 12-pin socket casing	X10205, PIN1
A5	Blade terminal contact	TI. SRA	BR/OR	To base module C	X254, PIN4

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5. Installation and cabling diagram

A5

A1 A2 A4 A3

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All the wiring harnesses are to be laid along the main wiring harness as shown in the figure and secured with cable ties.

Headlight cleaning system wiring harness

A1 to high-pressure pump of headlight cleaning system **X1011**
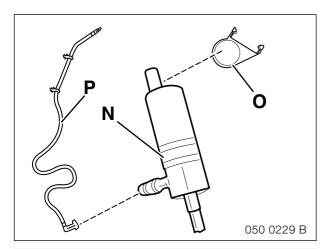**A2** to fuse holder **X10202**, **PIN1**
A3 to earth post connection left **X1108**
A4 to fuse holder **X10205**, **PIN1**
A5 to base module **X254**, **PIN4**

Tie back any excess lengths.

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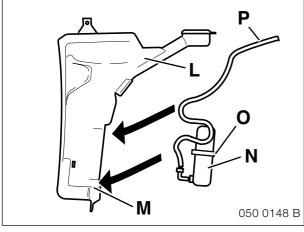## 6. To install the headlight cleaning system reservoir

Connect the water hose **P** to the high-pressure pump **N**.
Push the attachment bracket **O** onto the high-pressure pump **N**.

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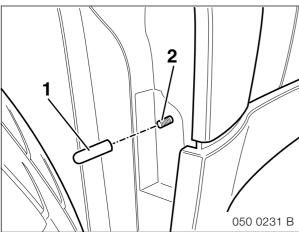Insert the seal **M** into the headlight cleaning system reservoir **L**.
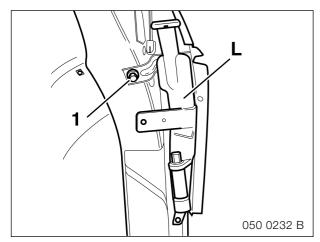Put the speed nut **K** onto the headlight cleaning system reservoir **L**.

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Push the high-pressure pump **N**, attachment bracket **O** and water hose **P** into the seal **M**.
Clip the attachment bracket **O** into the headlight cleaning system reservoir **L**.

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▷ Wheel arch trim left at side skirt. ◄

Remove the protective cap **1** from the grub screw **2**.

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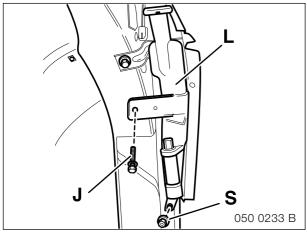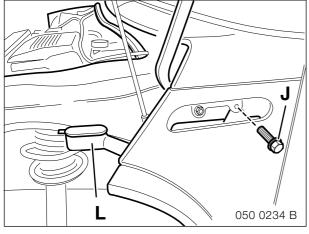
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6. To install the headlight cleaning system reservoir

Position the headlight cleaning system reservoir **L** in the space provided.

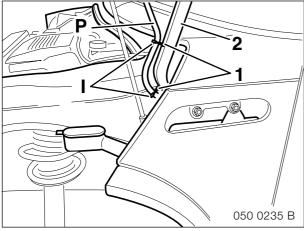▷ Slightly loosen the screw **1** to facilitate positioning. ◀

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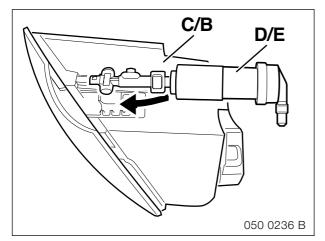Attach the headlight cleaning system reservoir **L** using a screw **J** and nut **S**.

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Attach the headlight cleaning system reservoir **L** using a screw **J**.
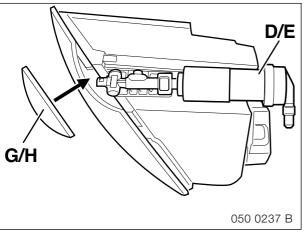
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Use two cable ties and clip **I** to clip the water hose **P** into the bonnet hinge **2** at the holes **1** provided.

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7.   To install the high-pressure jets with cover

Clip high-pressure jet **D/E** into the headlight **C/B**.

C/B D/E
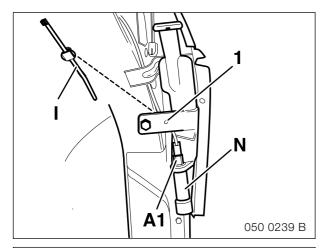
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Clip cover **G/H** into high-pressure jet **D/E**.

D/E

G/H

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8.   To install the hose line

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Install headlights **C/B** with high-pressure jets **D/E**, clip four hose holders **Q** for hose line **F** into the places **1** provided.
Clip hose line **F** onto high-pressure jets **D/E**, connect water hose **P** and clip it into the hose holders **Q**.

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9. To install the headlight cleaning system wiring harness

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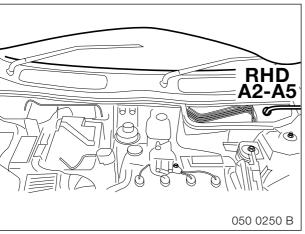
Connect **A1** to high-pressure pump **N**.
From the back, clip a cable tie **I** in at the place **1** provided and attach the cable.

LHD
A2-A5

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▷ LHD. ◀

Route **A2 – A5** along the cable for the left indicator light and pass it through the rubber grommet behind the brake booster.
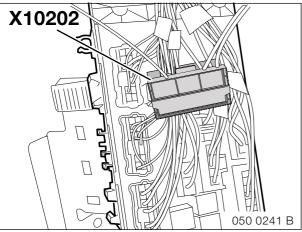
▷ Cut open and seal off the rubber grommet if necessary. ◀

RHD
A2-A5

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▷ RHD. ◀

Route **A2 – A5** along the cable for the left indicator light and pass it through the rubber grommet behind the ABS hydraulic unit.
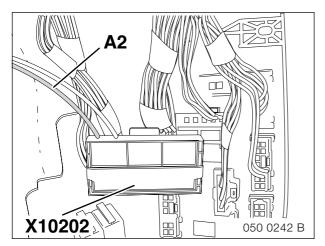
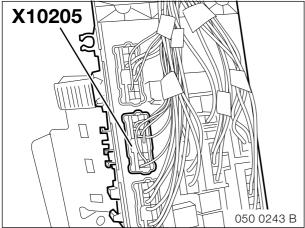▷ Cut open and seal off the rubber grommet if necessary. ◀

X10202

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▷ Fuse box. ◀

Disconnect WS socket casing **X10202**.

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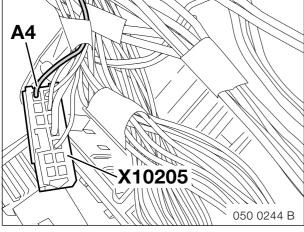9. To install the headlight cleaning system wiring harness

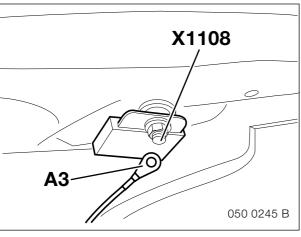Connect **A2** to the WS socket casing **X10202** fuse box **PIN1**.

▷ Fuse box. ◀

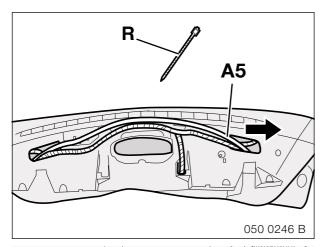Disconnect BL socket casing **X10205**.

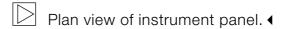Connect **A4** to the BL socket casing **X10205** fuse box **PIN1**.

▷ Left side skirt. ◀

Connect **A3** to earth post connection **X1108**.

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9. To install the headlight cleaning system wiring harness

▷ Plan view of instrument panel. ◀

Route **A5** above the instrument panel to the right to the base module.
Attach with cable ties **R**.

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Connect **A5** to the WS socket casing **X254** base module **PIN4**.

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Connect relay **T** to fuse holder **1** relay slot **RL3**.

▷ Connect fuse **U** to fuse slot F25 if there is no fuse. ◀

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10. Coding and concluding work

▷ Connect the battery. ◀

This system requires coding.

To ensure that the retrofit system:
- is fully functional and
- prevents malfunctions and errors when combined with other electrical systems in the car, this retrofit system and, possibly, other components must be coded and saved in the central code of the IKE.

This coding process is automatic using the current coding program in the "Retrofit" path.The procedure is user-guided, follow the text instructions for completing each individual step.

Procedure

- Connect DIS/MoDiC to the car
- Ignition **"ON"**
- Select **"Coding ZCS"**
- Confirm the date by pressing **"Y"** (MoDiC only)
- Series: **"R50"**
- Path: **"2 Retrofit"**
- System: **"Headlight cleaning system"**

Concluding work

Fill the additional washer reservoir and check the system for leaks.
Cut away the engine compartment insulating mat on the right hand side if necessary so it does not interfere with the spray jet.

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11. Circuit diagram

A47

F25 30A

RL3

30 X10205   MPW X10202

0,75
BROR

2,5
GNRT

SRA   MPW   31

X254   X1011

2,5
BR

X1108

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11. Circuit diagram

Legend

F25   Fuse 30A SRA
A47   Fuse holder II
X254   Base module
X1011   Washing water pump (high-pressure pump)
X1108   Earth post
X10202 Fuse holder input XII
X10205 Fuse holder input XV
RL3   Relay SRA

Cable/socket and plug casing colours

RT   red
SW   black
GN   green
BR   brown
GE   yellow
WS   white
VI   violet
GR   grey
BL   blue
OR   orange

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