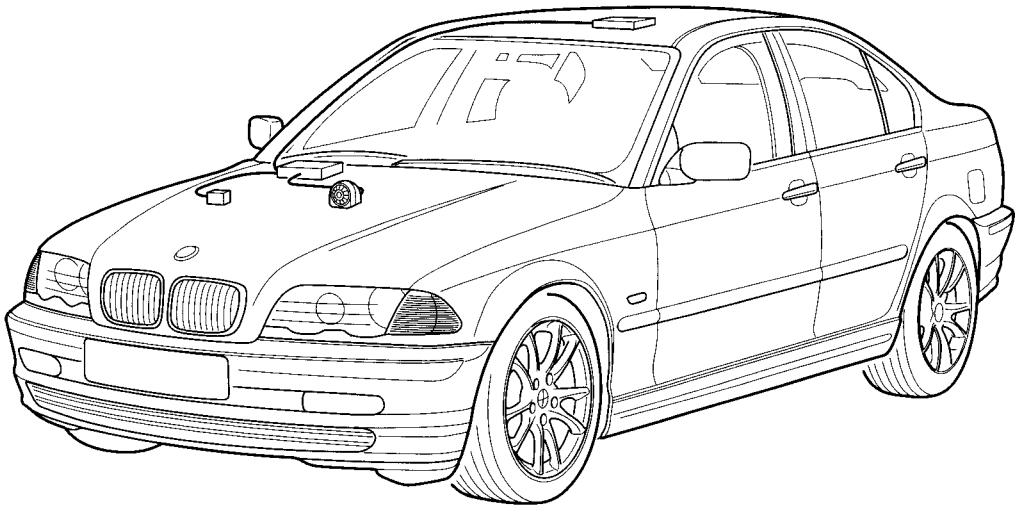
Parts and Accessories - Installation Instruction



F 46 0033 2W

BMW 3 Series (E46/2/4)
Alarm Kit
P/N 65 73 9 416 520

Installation Instructions For
1999 MY 3 Series (E46)
Vehicles

BMW of North America, Inc.
Product & Service Engineering Dept.

May 1998

Best.-Nr. 01 21 9 416 538 II/99 Printed in Germany

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GENERAL INFORMATION

INTRODUCTION

These installation instructions were produced to give the installation technician all necessary information to properly install the BMW Alarm Kit into factory pre-wired 1999 MY 3 Series (E46) vehicles.

These instructions were developed by the Product and Service Engineering Department of BMW of North America, Inc. specifically for BMW vehicles and are not to be compared to any existing products for vehicles other than BMW.

These instructions were complete and up to date at time of issue. Any changes in the vehicles or problems noted by installers should be reported directly to BMW Product and Service Engineering Department.

Read all instructions carefully before proceeding with this installation procedure. Instructions dealing with a stock part of the vehicle, but not given in detail; should be referenced with the latest service or diagnostic information provided in the DIS Tester.

REQUIRED TOOLS

Common hand tools
5mm hex bit
30 Torx® bit
5/16" or 8 mm diameter drill bit (if required)

ADDITIONAL PARTS TO ORDER (IF REQUIRED, SEE TEXT)

1 ea. Interior rear view mirror with infrared LED alarm status indicator
P/N 51 16 8 209 149

1 ea. 5/16" x 3/4" hex head sheet metal screw (local source)

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SIREN MOUNTING

1. Open the hood.
2. See Figure 1. Release (1/4 turn) the three spring loaded fasteners (item 1) on grill cover (item 2).
3. See Figure 1. Remove air collector (item 3).

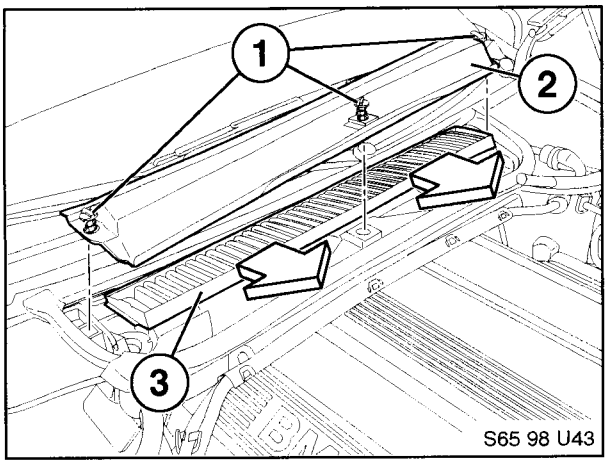


Figure 1

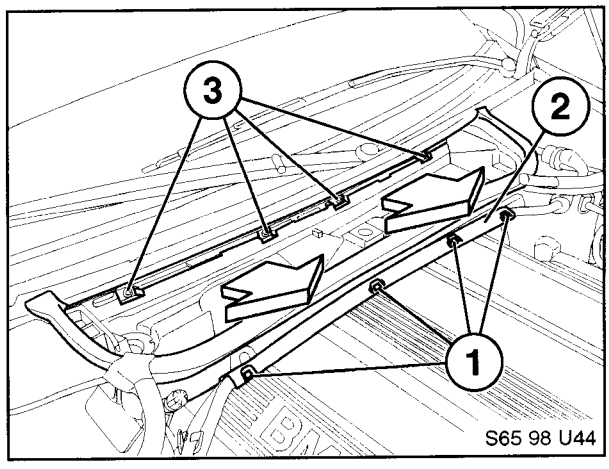


Figure 2

4. See Figure 2. Carefully pry up on the four upper retainers (item 1) and remove cable channel cover (item 2) from the cable channel.
5. Remove the wire harnesses from the harness channel.
6. See Figure 2. Loosen the four 30 Torx® head captive bolts (item 3) and remove forward cowl panel.
7. See Figure 3. Loosen the two 30 Torx® head captive bolts (item 1) on rearward cowl panel (item3).
8. See Figure 3. Release (1/4 turn) plastic retainer (item 2) and remove from rearward cowl panel. It may be necessary to carefully pull forward/push rearward on the rearward cowl panel (item 3) to aid in the removal of this plastic retainer.
9. Remove rearward cowl panel by pulling it forward away from center cowl area and then grasping the RH (passenger's side) area of this panel while pivoting it upwards towards the LH (driver's) side.

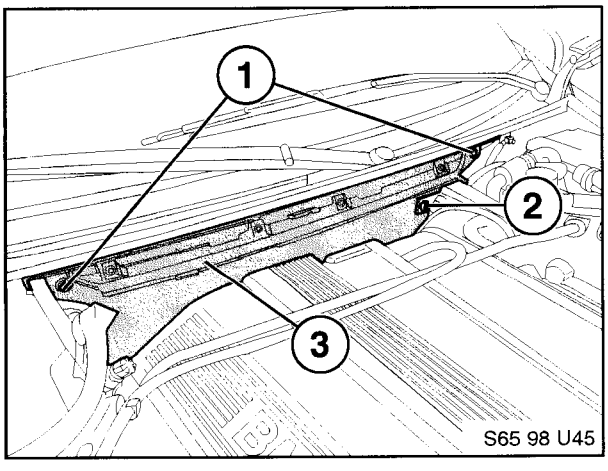


Figure 3

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NOTE: SEE FIGURE 4. BEFORE PROCEEDING ANY FURTHER, LOOK INTO THE RH (PASSENGER'S SIDE) AREA OF THE FIREWALL TO DETERMINE IF THE UPPERMOST HOLE (ITEM 1) HAS A M6 THREADED INSERT INSTALLED.

If the M6 threaded insert is in position, perform steps 10 through 13.
If the M6 threaded insert is <u>not</u> in position, perform steps 14 through 18

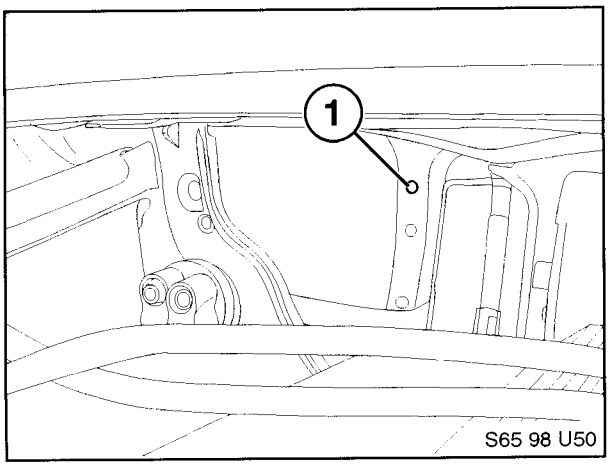


Figure 4

10. See Figure 5. Assemble alarm siren (item 2) to mounting bracket (item 1) using M6 nut with captive flat washer (item 3).
11. See Figure 6. Locate and terminate 4-position alarm siren connector (item 2) to alarm siren (item 1).
12. See Figure 6. Position alarm siren/mounting bracket assembly into mounting position utilizing the positioning tab (item 3) and secure alarm siren assembly in place with M6 x 16 mm bolt with captive flat washer (item 4).

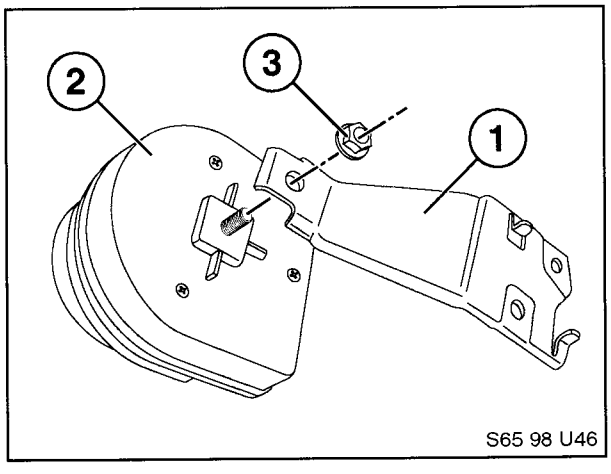


Figure 5

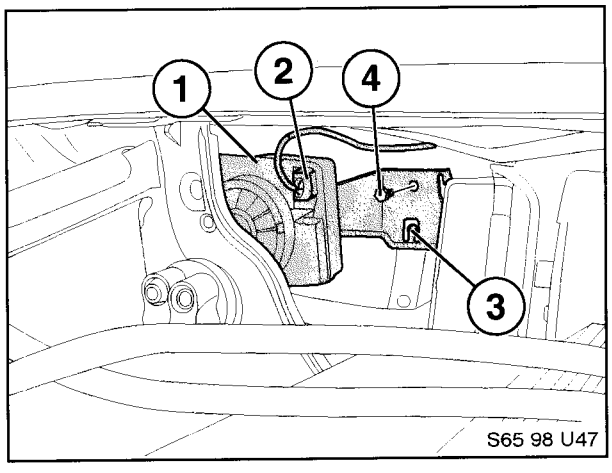


Figure 6

13. Reassemble all displaced or previously removed items.

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14. See Figure 7. Drill out hole (item 1) with a 5/16" (8 mm) diameter drill bit.

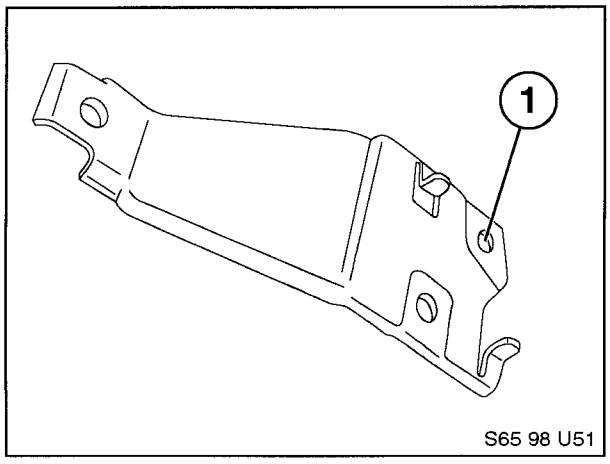


Figure 7

15. See Figure 5. (on previous page). Assemble alarm siren (item 2) to mounting bracket (item 1) using M6 nut with captive flat washer (item 3).
16. See Figure 6. (on previous page). Locate and terminate 4-position alarm siren connector (item 2) to alarm siren (item 1).
17. See Figure 8. Position alarm siren/mounting bracket assembly into mounting position utilizing the positioning tab and secure alarm siren assembly in place with 5/16"x3/4" hex head self tapping sheet metal screw (item 2, purchased from local source).

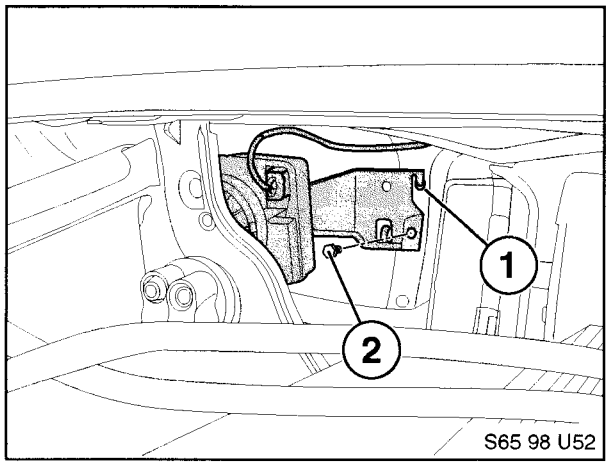


Figure 8

18. Reassemble all displaced or previously removed items.

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ALARM INCLINATION SENSOR MOUNTING

Refer to Figure 9 for the following installation steps.

1. Remove cover end of emergency fuel filler flap release pull cord and let the cord pass through the access hole of the RH rear trunk panel.
2. Remove trunk trim panel retainer above the RR wheel well area. Partially remove the RH rear trunk panel enough to gain access where the two 6 mm threaded studs are located for mounting of alarm inclination sensor.
3. Remove M6 nut (item 5) from the forward position M6 threaded stud and temporarily remove plastic trim piece (item 4) allowing free access to this threaded stud.
4. Mount inclination sensor/bracket assembly (item 2) over the two M6 threaded studs (item 3).
5. Reposition plastic trim piece (item 4) over forward threaded stud (item 3 forward) and secure the inclination sensor/bracket assembly in place with previously removed M6 hex nut with oversized captive washer (item 5) on the forward threaded stud.
6. Use supplied M6 hex nuts with captive washers (item 6) to secure inclination sensor/bracket assembly to rearward threaded stud (item 3 rearward).
7. Locate and terminate 6-position inclination sensor connector (item 1) to alarm inclination sensor.
8. Reassemble all displaced or previously removed items.

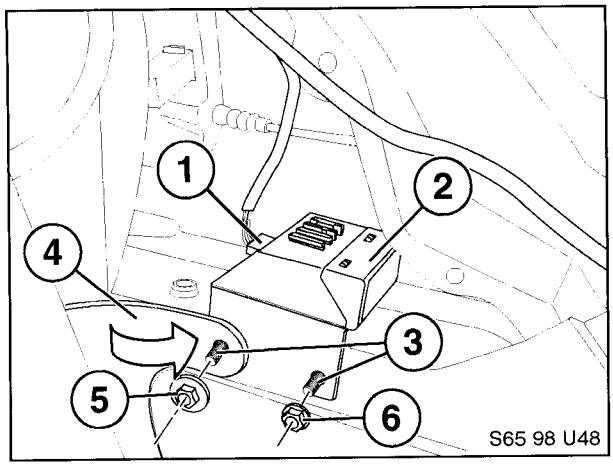


Figure 9

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ALARM MODULE INTERIOR MOUNTING

NOTE: Before proceeding any further, make sure your hands are clean to prevent soiling of headliner.

1. Remove alarm module cover by gently prying it down from the headliner.
2. See Figure 10. Mount the alarm module to the alarm module cover as shown.
   NOTE: The arrow indicated on the module must be in the same direction as arrow on the cover.
3. See Figure 11. Locate and terminate 4-position interior sensor connector to alarm module as shown.
4. Position alarm module/cover assembly so that the arrows are pointing forward and reattach the assembly to it's mounting frame in the headliner (the arrow on the mounting frame should also be pointing forward).

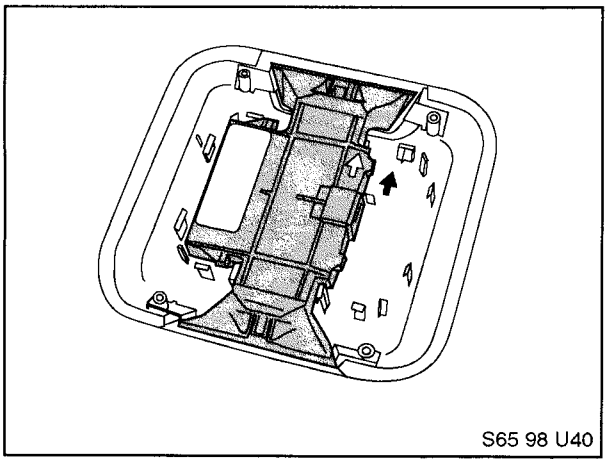


Figure 10

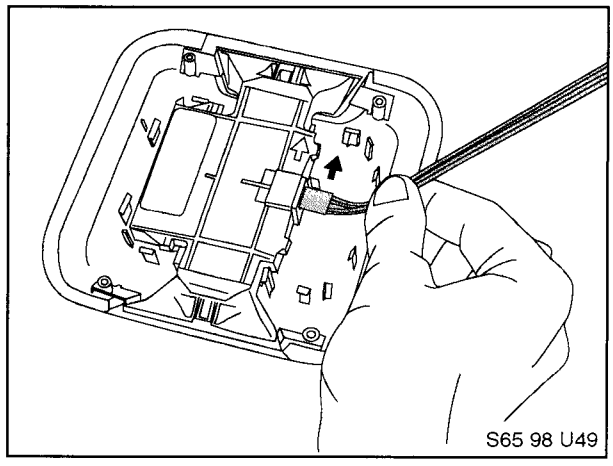


Figure 11

INTERIOR REAR VIEW MIRROR MOUNTING (IF REQUIRED)

1. Determine if the vehicle is equipped with an interior rear view mirror with infrared (red LED alarm status indicator located on the base of the mirror). If so, you can continue on to the Central Coding Key (ZCS) Procedure.
2. If the interior rear view mirror does not have a red LED alarm status indicator, then it will be necessary to order P/N 51 16 8 209 149 as a replacement interior rear view mirror.
3. Remove original interior rear view mirror.
4. Install replacement mirror with red LED alarm status indicator.
5. Locate 10-position connector in the forward center headliner area (above the microphone cover).
6. Route this connector forward beyond the leading edge of the headliner so that the rubber boot is positioned on the forward edge of the headliner.
7. Connect the 10-position mating connectors together in the interior rear view mirror support base and install the base cover.

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CENTRAL CODING KEY (ZCS) PROCEDURE

When all of the above work has been completed, the retrofit anti-theft alarm system needs to be coded with a DIS Tester. Coding is possible with Version C13.0 or later software.

1. Connect vehicle to DIS Tester.
2. Turn ignition key of vehicle to position 2.
3. Select "CODING/PROGRAM" selection on the right side of the DIS Tester screen.
4. Select "3 ZCS CODING" followed by the RH green arrow. The following informational screen will appear "Coding by means of central coding code (ZCS) Version C13.0". Select the RH green arrow.
5. The following informational screen will appear "NOTE: ZCS encoding can be overwritten by the modifications made by the CAR/KEY MEMORY program. They can be reset if necessary" Select the RH green arrow.
6. Select "7 E46 Series" followed by the RH green arrow.
7. Select "2 Retrofit" followed by the RH green arrow.
8. Select "2 Anti-theft alarm system" followed by the RH green arrow.
9. The following informational screen will appear "Retrofit anti-theft alarm system. Refer to installation instructions from the installation set!". Select the RH green arrow.
10. The "GM V" screen will appear. Select "2 Without steady signal" followed by the RH green arrow.
11. The "Activation/deactivation of DWA via:" screen will appear. Select "2 Remote control" followed by the RH green arrow.
12. The following informational screen will appear "The anti-theft alarm is coded with emergency power siren and interior protection." Select the RH green arrow.
13. The following informational screen will appear "GM V is recoded and the central coding key in the KOMBI is automatically altered." Select the RH green arrow.
14. The following screen will appear "GM V Start automatic coding?" Select "Yes"
15. The following informational screen will appear "GM V Automatic coding active! *** Please wait ***". DO NOT MAKE ANY SELECTIONS, WAIT FOR THE FOLLOWING INFORMATIONAL SCREEN TO APPEAR. "GM V Coding code has been changed! New central label required! Coding code: GM _____ SA _____ VN _____ Write or print out new central label and affix to car!".
16. Place a blank label into the DIS Tester label printer (arrows on the label should face into the label printer opening). When the blank label is fully inserted into the label printer, select the downwards facing Green arrow.
17. The following screen will appear "Coding code for printout stored Coding complete! Turn ignition off. Wait for 10 seconds. Turn ignition on again and carry out functional check."
18. Follow the screen instruction by turning ignition key off. Wait for 10 seconds (minimum) and turn ignition key on to position 2 again.
19. Turn ignition key off and remove key form ignition.
20. Close all doors and perform operational check of anti-theft alarm system.
21. Remove the E-box cover and affix the coding label on inside E-box cover.
22. Reinstall the E-box cover.

NOTE: Failure to perform the Central Coding Key (ZCS) coding procedure will render anti-theft alarm system inoperative.

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Parts and Accessories
Installation Instruction

Alarm Kit Installation Instructions Addendum Concerning Mounting of Alarm Inclination (Pitch) Sensor in BMW 3 Series Sport Wagon (E46/3)

This addendum is to be used with kit supplied installation instructions of BMW 3 Series (E46) Alarm Kit P/N 65 73 9 416 520.
Follow kit supplied installation instructions up to page 6 ALARM INCLINATION SENSOR MOUNTING. The alarm inclination (pitch) sensor mounting location in 3 Series (E46/3) Sport Wagon is behind the rear right speaker. Follow below steps for mounting of this sensor:

ALARM INCLINATION (PITCH) SENSOR MOUNTING IN E 46/3 SPORT WAGON

1. Remove right side rear trim panel. Refer to DIS Tester TIS repair instructions document 51 43 252.
2. Remove inner window cavity strip of right side rear window. Refer to DIS Tester TIS repair instructions document 51 37 261.
3. Remove right side rear speaker. Refer to DIS Tester TIS repair instructions document 65 12 520.
4. See Figure 1. Locate 6-position inclination (pitch) sensor connector (1).
5. See Figure 2. Remove mounting bracket (1) from inclination (pitch) sensor (2) by slightly prying up on locking tab of bracket with a flat blade screwdriver while pushing bracket off of sensor as shown.
6. See Figure 3. Mount inclination (pitch) sensor (2) into mounting location (1) of right rear speaker housing (3) as shown.
7. Reinstall all previously removed and/or displaced items as performed in this addendum.
8. Resume alarm installation referring to kit supplied installation instructions page 7 ALARM MODULE INTERIOR MOUNTING.

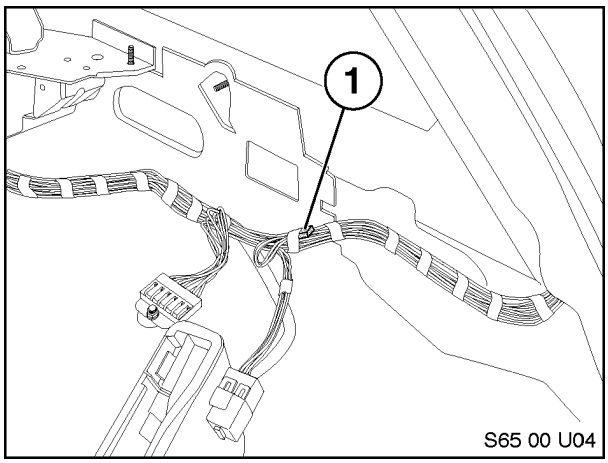


Figure 1

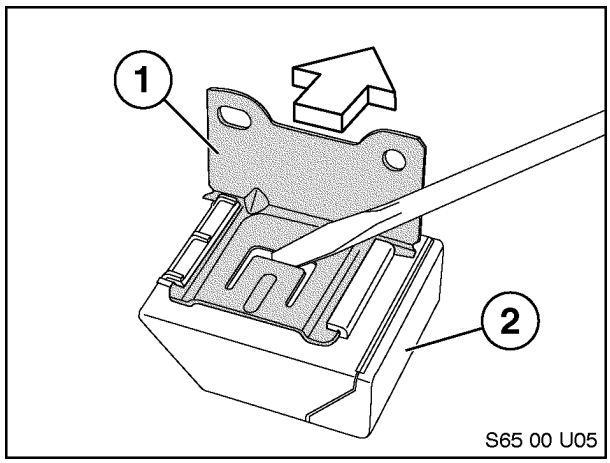


Figure 2

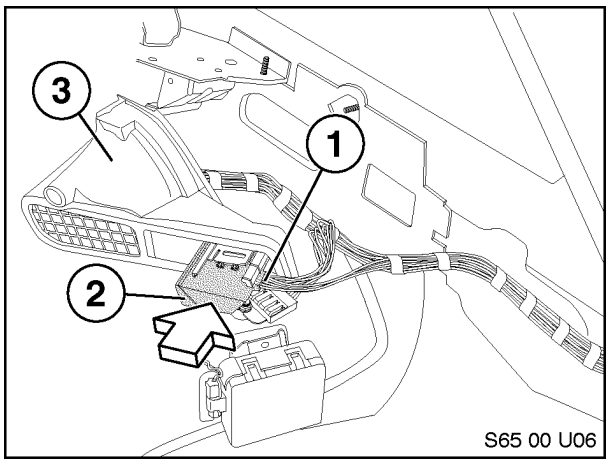


Figure 3

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