Installation Instructions

March 2005

Audio, Alarm **Version 4.0** **Accessory Development**

These Installation Instructions supercede all previous versions.

SUBJECT

MINI CONVERTIBLE ALARM RETROFIT KIT – P/N 65 73 0 393 977

MODEL

MINI Cooper Convertible (R52, W10):	Select Vehicle Production 08/2004 – On*
MINI Cooper S Convertible (R52, W11):	Select Vehicle Production 08/2004 – On*

** Vehicle must have Alarm Pre-wiring, which is standard on all US spec* MINIs*.*

SUGGESTED INSTALLATION TIME: **3.0 HOURS**

The instructions below are developed for MINI vehicles and are not be compared to any other existing instructions for vehicles other than MINI. No methods other than those specified in this document are to be used for installation in MINI vehicles. Left and right are determined from driver's seat.

Carefully read all instructions and supplements before proceeding with the installation. Reference should be made to WebTIS for instructions dealing with a stock part of the vehicle but not stated in detail in these instructions.

The instructions were complete and up to date at time of publication; however, changes to the vehicle or installation may have occurred. Please report any problems or changes noted with the installation to BMW Technical Hotline, along with VIN, date of manufacture and as much detail as possible.

Installation Instruction P/N 01 29 0 393 978
MINI, a division of BMW of North America, LLC

PARTS INFORMATION

Contents of Kit - P/N 65 73 0 393 977

Description	Qty	MINI Part Number
Alarm siren-tilt sensor	1	65 75 6 942 432
Bracket for siren-tilt sensor	1	61 35 6 930 052
M6x12 hex bolt w/ washer	1	88 10 0 030 553
M6 hex nut w/ captive washer	2	11 61 0 141 114
Torx head screw	8	51 41 7 067 920
Plastic oval nut	8	07 13 0 672 440
Left door interior sensor – Brown	1	65 75 6 951 663
Right door interior sensor – Black	1	65 75 6 951 664
Rear interior sensor – Blue	2	65 75 6 949 229
5 Amp fuse	1	61 13 0 141 142
Owner's Manual	1	N/A

ADDITIONAL REQUIRED PARTS – MUST BE ORDERED SEPARATELY

Vehicles manufactured prior to 01/2005:

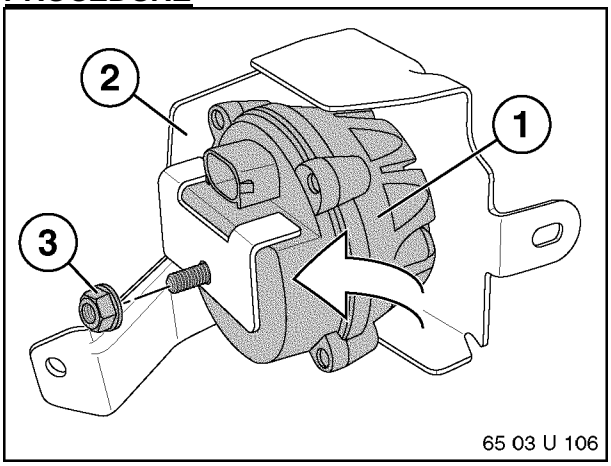
Description	MINI Part Number
Wiper stalk with status light	61 31 6 931 803

Vehicles manufactured 01/2005 and later:

Description	MINI Part Number
Turn signal stalk with status light	61 31 6 946 957
Turn signal stalk with status light and rain sensor (SA521)	61 31 6 946 960
Turn signal stalk with status light and on-board computer (SA550)	61 31 6 946 959
Turn signal stalk with status light, rain sensor (SA521) and on-board computer (SA550).	61 31 6 946 961

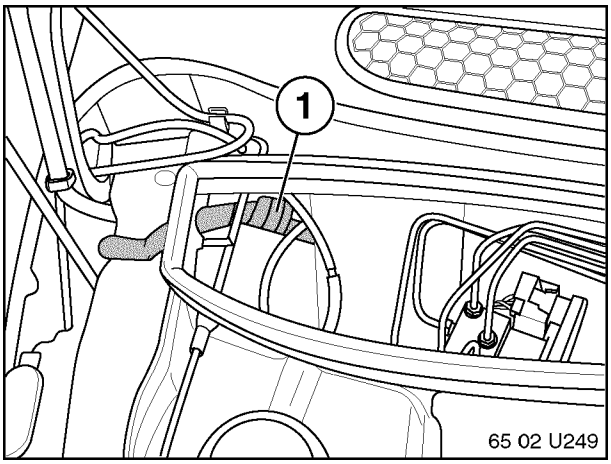
PROCEDURE

Siren/Tilt Sensor Installation



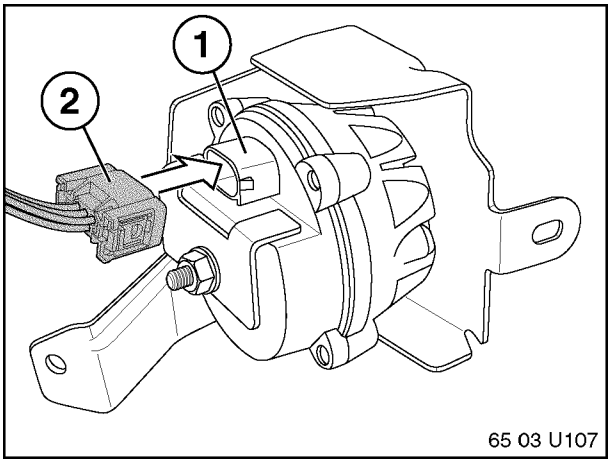
1. Disconnect negative battery terminal. Refer to TIS 12 00 …

2. Attach alarm siren-tilt sensor (1) to mounting bracket (2) using M6 nut w/captive washer (3).

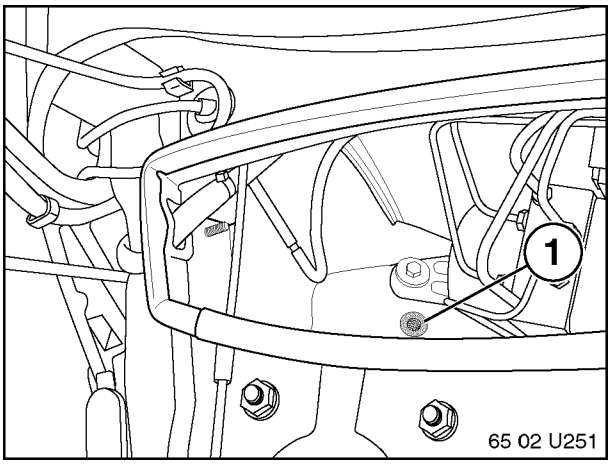


3. Locate black 6-position connector (1) **X19562** in right rear corner of engine compartment as shown.

4. Carefully remove protective tape to expose connector

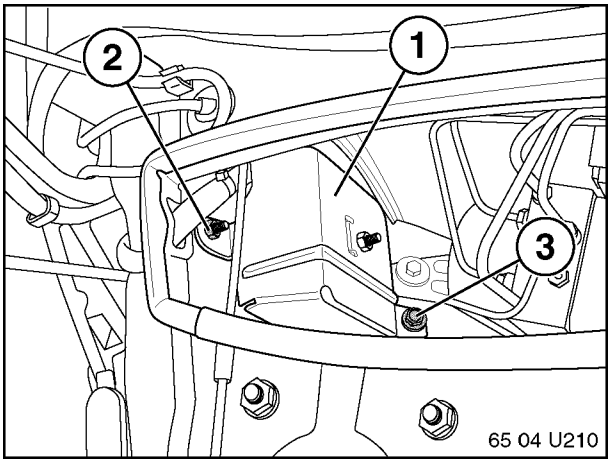


5. Connect black 6-position connector **X19562** (2) to siren-tilt sensor (1) as shown.

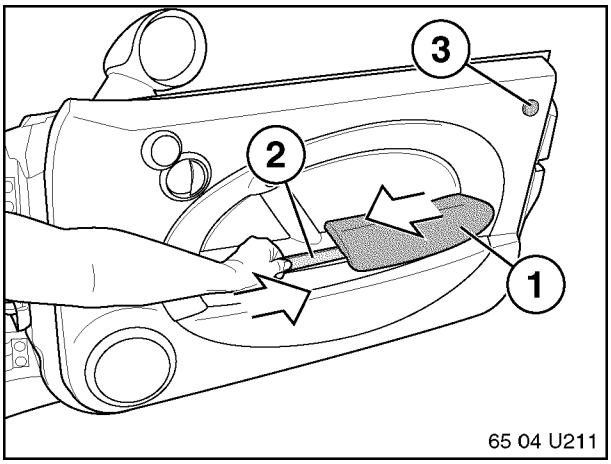


6. Locate and remove protective covering (1) from M6x1.0 pitch threaded mounting hole as shown.

Note: This threaded hole may require re-tapping before attempting to complete the following step.

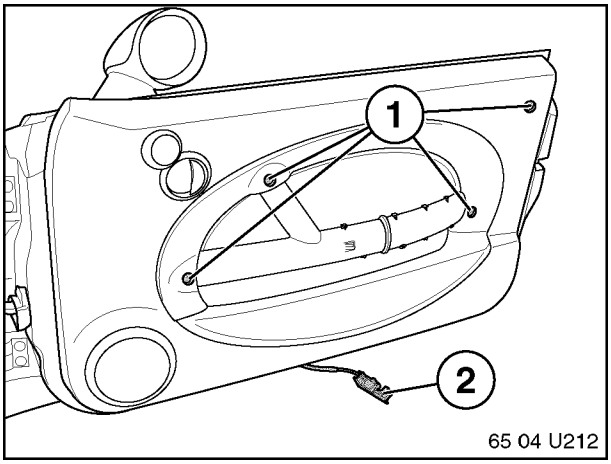


7. Install siren-tilt sensor/bracket assembly (1) in place and secure with M6x12 hex bolt w/captive washer (3) and M6 hex nut w/captive washer (2) as shown.

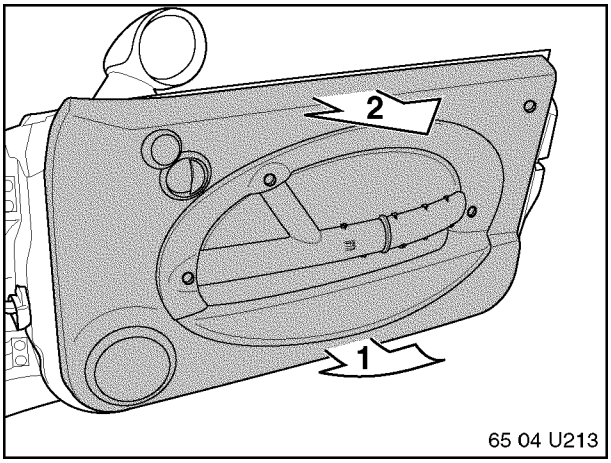


Door Sensor Installation

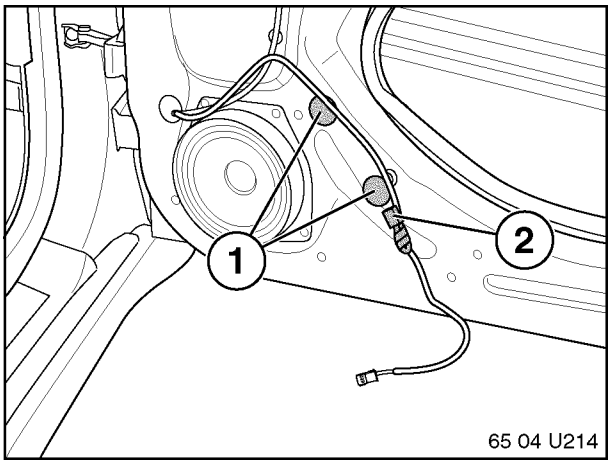
8. Remove RH door panel by performing the following preliminary tasks:
   - Insert plastic wedge (2) special tool P/N 00 9 323 or equivalent tool behind area of door armrest (1).
   - Hold plastic wedge tool (2) in place while applying forward force on door armrest (1) to release door armrest.
   - Carefully pry off red reflector (3) from door panel.



9. Remove the four Torx 30 head screws (1) as shown.
10. Pry door light (2) from lower door panel as shown.
11. Disconnect door light (2) from harness.

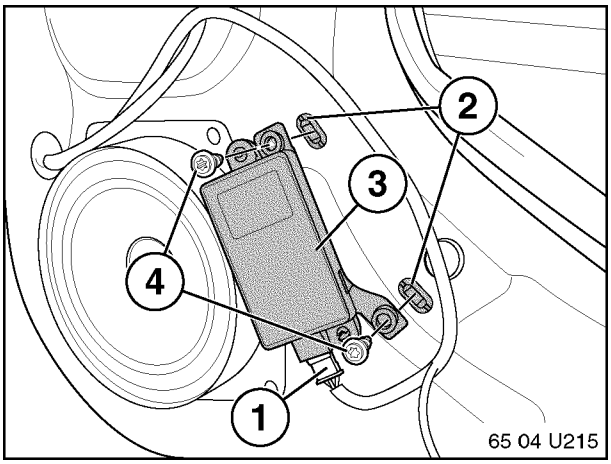


12. Use plastic trim tool to release all clips surrounding perimeter of door panel.
13. Carefully direct lower area of door panel slightly upward (arrow 1).
14. Finally, grasp door panel at top area and pull door panel away from door (arrow 2).
15. Repeat steps 8 through 14 to remove LH door panel trim.



16. On RH (passenger's side) door, locate and remove protective patches (1) covering oval shaped holes as shown.

17. Locate and unwrap protective tape from 4-position black connector (1) as shown.



18. Insert plastic oval nut in oval holes (2) as shown.

19. Connect 4-position black connector (1) into interior sensor (3).

Note: Black interior sensor is for RH (passenger's) door. Brown interior sensor is for LH (driver's) door. These interior sensors are RH and LH position specific and must be mounted as indicated for proper function.

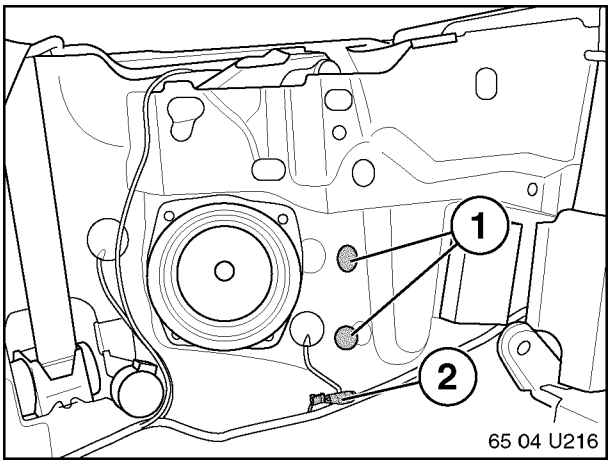
20. Position right (passenger's side) door interior sensor **Black** (3) over oval nuts (2) and secure in place with Torx 20 head screws (4) as shown.
21. Repeat steps 16 through 20 to install left (driver's side) door interior sensor **Brown**.

Rear Area Sensors Installation

22. Remove rear seat cushion. Refer to TIS 52 25 505.

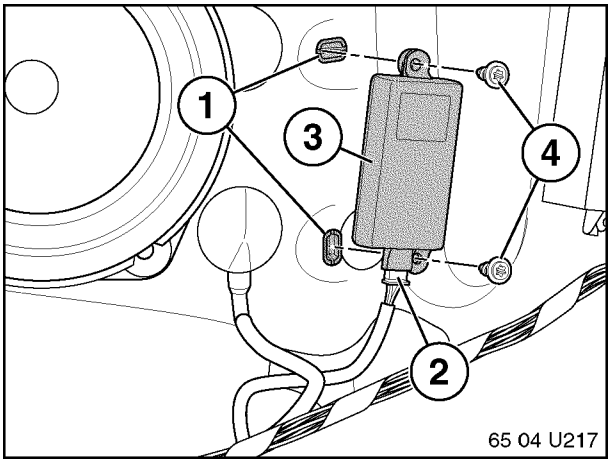
23. Remove rear seat backrest left and right. Refer to TIS 52 26 515.

24. Remove left and right side covering. Refer to TIS 51 43 005.



25. On RH side rear seat area, locate and remove protective patches (1) covering oval shaped holes as shown.

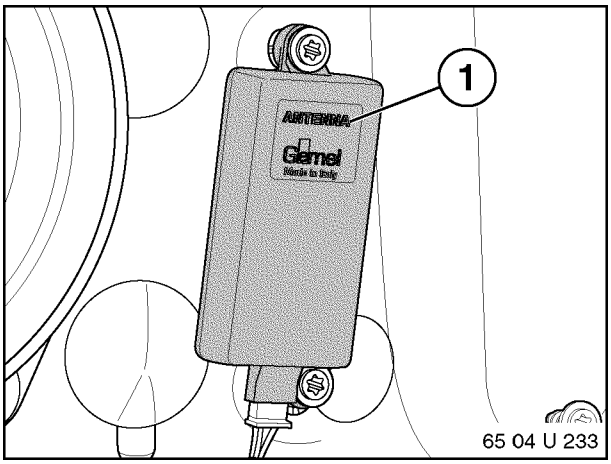
26. Locate and unwrap protective tape from 4-position black connector (2) as shown.



27. Insert plastic oval nut in oval holes (1) as shown.

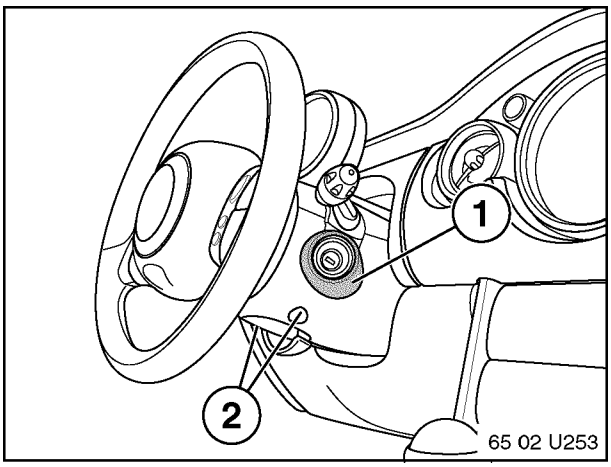
28. Connect 4-position black connector (2) into interior sensor (3).

29. Position RH side rear seat area interior sensor **Blue** (3) over oval nuts (1) and secure in place with Torx 20 head screws (4) as shown.



Note: Blue interior sensors (pair) are used in rear seat area and are not RH or LH position specific. However, these sensors must be mounted so that the word "ANTENNA" (1) within a rectangular shaped outline is facing outward.

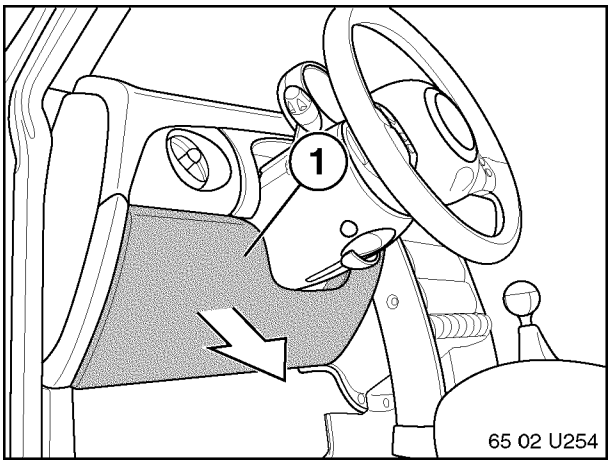
30. Repeat steps 25 through 29 to install LH side rear seat area interior sensor.



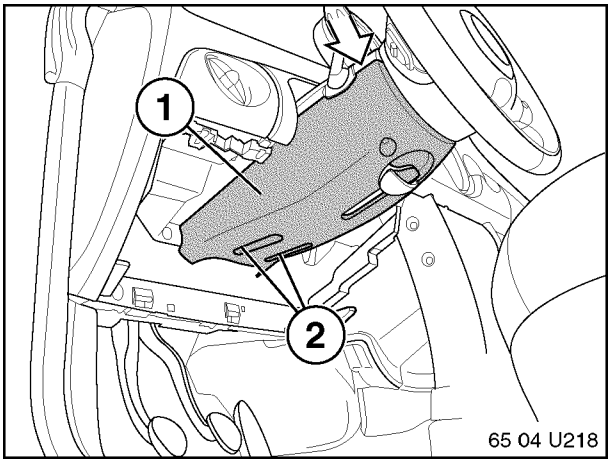
Control Lever with Alarm LED Installation

31. Remove ignition switch rubber trim surround (1).

32. Remove pair of Torx 25 head screws (2) as shown.

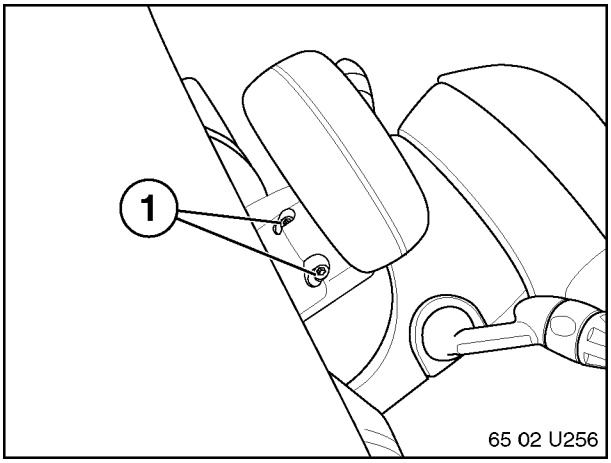


33. Grasp top area of trim panel (1) and pull rearward (arrow) to release retaining points located in upper corner areas of trim panel.



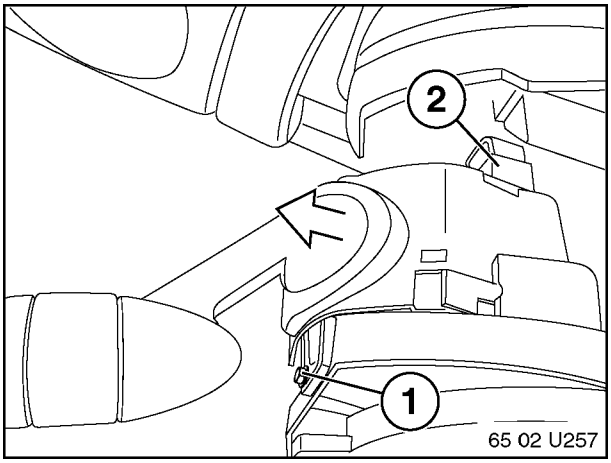
34. Release lower trim cover retaining clips (2).

35. Remove lower trim cover (1) by pressing down (arrow) on upper trim cover area as shown.



36. Remove upper section of steering column trim by performing the following tasks:

    - Remove pair of Torx 25 head screws (1) behind upper gauge as shown.
    - Disconnect connector.
    - Remove upper gauge.
    - Remove upper trim cover.

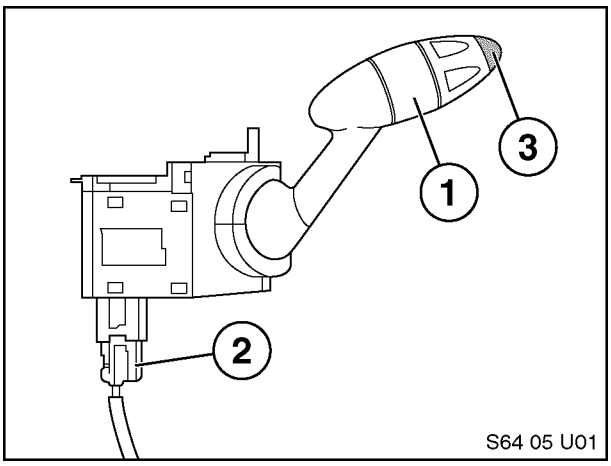


For vehicles manufactured 9/03 – 12/04:

37. Remove screw holding wiper switch (1) and disconnect electrical connector (2). Remove wiper switch from vehicle.

For vehicles manufactured 1/05 and later:

38. Remove screw holding turn signal switch (1) and disconnect electrical connector (2). Remove turn signal switch from vehicle.



For vehicles manufactured 9/03 – 12/04:

39. Install new wiper switch (1) with anti-theft indicator status light (3) and connector to vehicle harness via connector (2).

For vehicles manufactured 1/05 and later:

40. Install new turn signal switch (1) with anti-theft indicator status light (3) and connect to vehicle harness via connector (2).

41. Install 5 Amp fuse in fuse holder **A47** position F24 located on driver's side kick panel.

Note: This fuse position may already have a factory installed 5 Amp fuse. If so, use kit supplied fuse as a spare fuse.

42. Reinstall all previously removed or displaced components and trim parts.

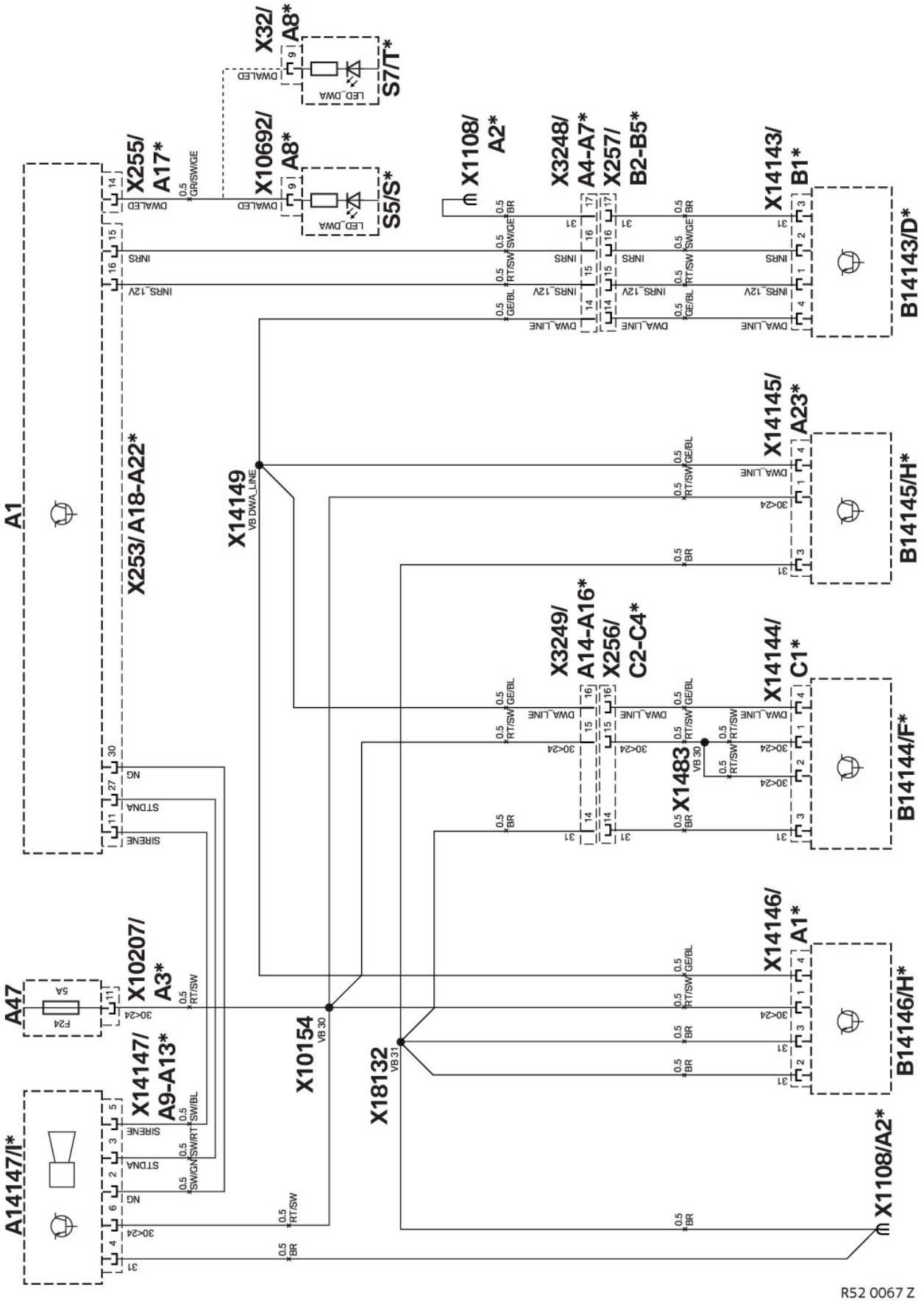
43. Reconnect negative battery terminal.

RETROFIT CODING

Upon completion of alarm retrofit installation, the vehicle must be recoded using software version C38.1 or later. Use the "Retrofit" path to ensure that the alarm operates properly with other systems presently installed in the vehicle. The recoding is done automatically when using the "retrofit" recoding steps on the DIS or GT1 as follows:

- Connect DIS or GT1 to vehicle.
- Turn ignition on.
- Select "3 ZCS/FA Coding".
- Series: "R52"
- Path: "10 Ser. R50/R52/R53"
  "2 Retrofit"
  "2 Anti-theft alarm system"
  ZKE Start automatic coding? "Yes"
  "Coding complete!" Turn ignition off. Wait for 10 seconds.
  Turn ignition on and perform functional check.

CIRCUIT DIAGRAM



Circuit diagram

Legend

A1	Base module
A47	Fuse holder II (interior)
A14147	Tilt siren **I***
B14143	Interior security system, driver side, BR, **D***
B14144	Interior security on passenger side, SW, **F***
B14145	Interior security system, rear, BL, **H*** on driver side
B14146	Interior security system, rear, BL, **H*** on passenger side
S5	Switch for wipers **S*** (cars built before 01/05 only)
S7	Indicator switch **T*** (for cars built after 01/05 only)
X32	12-pin socket casing, SW, on indicator switch **T***; **A8*** (cars built after 01/05 only)
X253	54-pin socket casing, SW, on base module A1; **A18-A22***
X255	54-pin socket casing, BL, on base module A1; **A17***
X256	30-pin door isolation plug, SW, passenger side; **C2-C4***
X257	30-pin door isolation plug, SW, driver side; **B2-B5***
X1108	Earth post in front of driver seat; **A2***
X3248	Plug casing **Q*** for door isolation plug on driver side; **A4-A7***
X3249	Plug casing **Q*** for door isolation plug on passenger side; **A14-A16***
X10154	Connector terminal 30
X10207	12-pin socket casing, VI, on fuse holder A47; **A3***
X10692	10-pin socket casing, WS, on switch for wipers **S***; **A8*** (cars built before 01/05 only)
X14143	4-pin socket casing, SW, on interior security system, driver side, BR, B14143; **B1***
X14144	4-pin socket casing, SW, on interior security system, passenger side, SW, B14144; **C1***
X14145	4-pin socket casing, SW, on interior security system, rear, BL, B14145; **A23***, passenger side
X14146	4-pin socket casing, SW, on interior security system, rear, BL, B14146; **A1***, driver side
X14147	6-pin socket casing (watertight), SW, on tilt siren **I***; **A9-A13***
X14149	DWA_Line connector
X18132	Connector terminal 31

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

. Circuit diagram

Cable colours

BL	Blue
BR	Brown
GE	Yellow
GN	Green
GR	Grey
RT	Red
SW	Black

FUNCTION TEST

Upon completion of re-coding, verify that alarm system is functioning properly by performing the following action steps to verify desired response:

Action	Response
Arm the alarm system with remote key by locking the vehicle.	Both doors, and rear hatch lock in unison.
Siren emits one “beep” and hazard lights “flash” once in unison.	Both doors, hood and rear hatch lock in unison. The tilt sensor is now active and the four interior sensors will be active in approximately 30 seconds.
Brief acoustic signal from siren.	Not properly closed door, hood or rear hatch. The tilt sensor is active and the four interior sensors are not active.
Open the doors, hood or rear hatch.	An acoustic alarm will emit for 30 seconds and optical alarm will be visible for 5 minutes.
Position roof in down (fully open) position. Arm alarm system with remote key by locking the vehicle and wait approximately 60 seconds. Direct your hand into driver’s seat area to trip LH front interior sensor.	(same response as above)
Rearm alarm system and wait approximately 60 seconds. Direct your hand into passenger’s seat area to trip RH front interior sensor	(same response as above)
Rearm alarm system and wait approximately 60 seconds. Direct your hand into LH rear seat area to trip LH rear interior sensor.	(same response as above)
Rearm alarm system and wait approximately 60 seconds. Direct you hand into RH rear seat area to trip RH rear interior sensor.	(same response as above)
Test the emergency-current siren by disconnecting the vehicle’s battery after alarm system is armed.	An acoustic alarm will be emitted.
Disarm the alarm system with the remote key by unlocking the vehicle.	Both doors, hood and rear hatch will unlock in unison.

Note: Upon completion of performing above functional test, connect DIS or GT1 to vehicle and perform a short diagnostic test and clear all faults.