Mercedes-Benz

star bulletin

Installation Instructions

Date: April 2005

Order No.: P-I-82.85/431

Supersedes:

Group: 82

SUBJECT: MODEL 171.456/473 (Only models with Code 528, "Premium Sound Package")
MODEL YEAR 2005
CAR NAVIGATION INSTALLATION

We are interested in your comments and/or suggestions regarding these installation instructions—please e-mail them to technicalinformation@mbusa.com

WARNING

Do not disconnect the negative battery cable. Extensive reprogramming requirements will otherwise be necessary. Wiring harnesses will be electrically active. It is therefore necessary to exercise extreme caution while executing these installation instructions. Failure to do so could result in severe vehicle damage, personal injury, or death from electrical shock. Keep the ignition and radio powered OFF through the final test.

Notes on MOST optical fibers

- Optical fibers damage easily—handle optical fibers with care to prevent cuts, nicks, abrasions, and crushing.
- Optical fiber "ring configurations" must form a closed loop to function (i.e. couple the input of a component with the output of the preceding component).
- Identify MOST optical fibers by their orange, semi-rigid insulation.
- Electromagnetic interference (EMI) from bundled vehicle electrical harnesses does not affect optical fibers.

This bulletin has been created and maintained in accordance with MBUSA-SLP S423QH001, Document and Data Control, and MBUSA-SLP S424HH001, Control of Records.

A. Preparing for the installation

1. Read these installation instructions in their entirety before proceeding.
2. Unpack and compare the installation kit contents against the Parts Information list—Section H, page 9.
3. Remove the center trunk paneling.
   - ➢ Refer to *WIS* document AR68.30-P-4810V, “Remove/install center trunk paneling”
4. Remove the ten M6 screws securing the equipment carrier (Arrows, Figure 1) and lay the bracket on its face to expose the electronics components on its backside.
   - ➢ Refer to *WIS* document AR68.50-P-3100V, “Remove/install retractable trunk partition bracket”

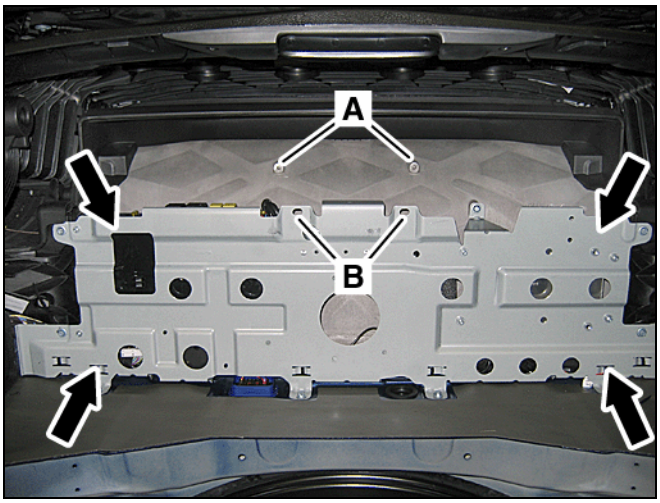

Figure 1 P82.85-5066-71

B. Locating and identifying the cables and connectors for the CAR NAVIGATION processor and splitter

1. On the backside of the equipment carrier below the TELE AID control module, find the cables and connectors for the CAR NAVIGATION processor and antenna splitter secured at the bottom (Figure 2).

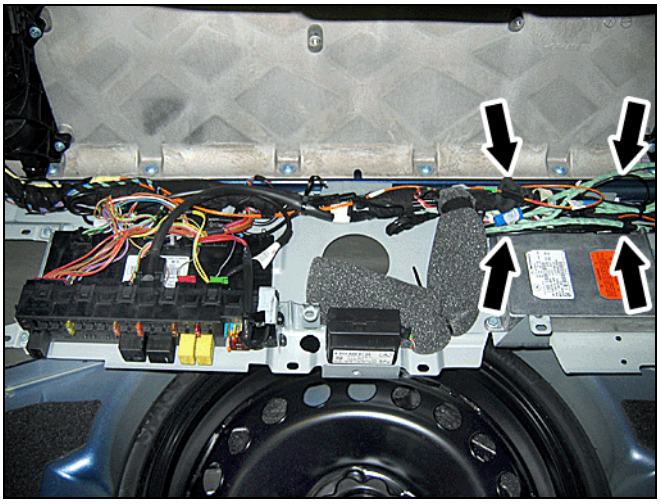

Figure 2 P82.85-5067-71

2. Locate, free up by carefully cut off the wire ties, and identify the:
   - Blue antenna connector (A, Figure 3)
   - Power supply connector (B, Figure 3)
   - MOST optical fiber (C, Figure 3)
   - Female, male, and pre-wired antenna leads for the antenna splitter (D, Figure 3)

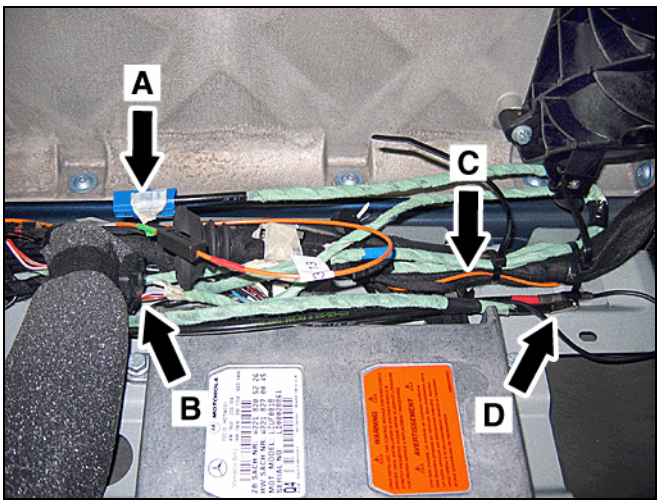

Figure 3 P82.85-5068-71

C. Installing the MOST adapter cable for the CAR NAVIGATION processor

NOTICE!
Improper handing of optical fibers can damage the fibers.
Damaged optical fibers can cause component malfunction.
Handle optical fibers with care to prevent cuts, nicks, abrasions, and crushing.

1. Find the MOST adapter cable in the kit, carefully disassemble the coupling, and remove the shorter—measured from the tape—fiber (Figure 4).

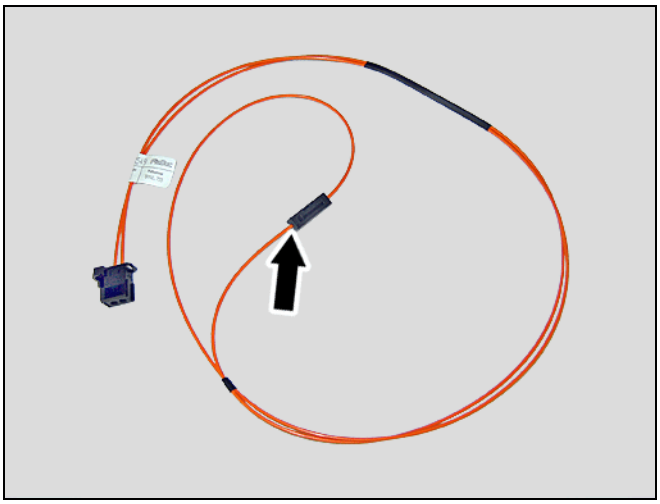

Figure 4 P82.85-5069-71

2. Find the coupling in the MOST optical fiber preinstalled at the bottom of the equipment carrier, carefully disassemble the coupling, and remove the fiber end with the green tape (Figure 5).

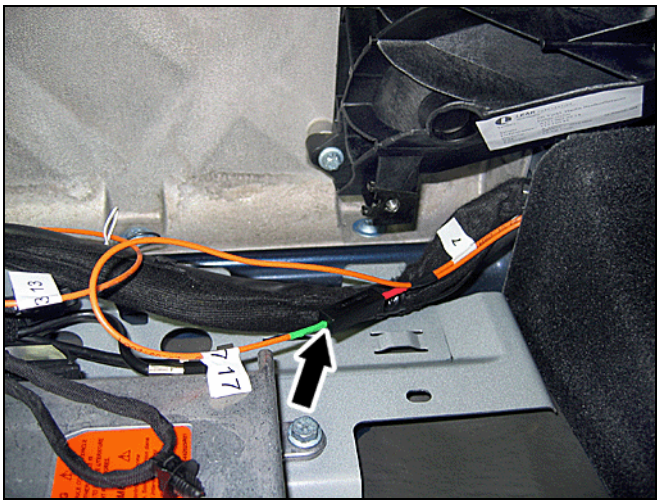

Figure 5 P82.85-5070-71

3. Insert the fiber end (Arrow, Figure 4) removed from the coupling of the MOST adapter cable into the coupling (A, Figure 6) of the preinstalled MOST optical fiber and then reassemble the coupling.
4. Insert the fiber end (Arrow, Figure 5) removed from the coupling of the preinstalled Most optical fiber into the coupling (B, Figure 6) of the MOST adapter cable and then reassemble the coupling.

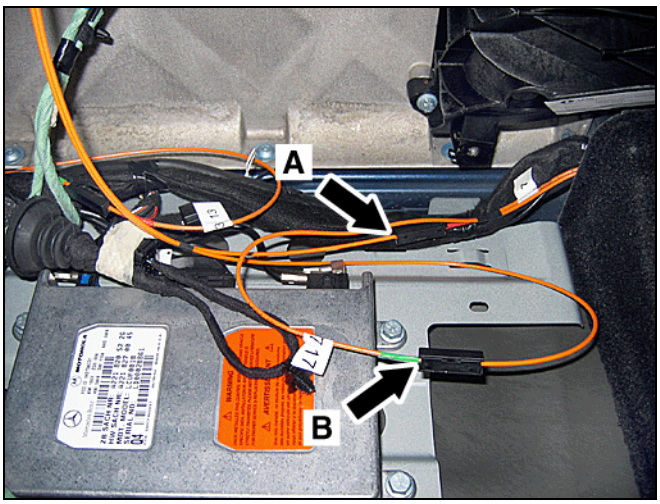

Figure 6 P82.85-5071-71

D. Installing the bracket, the CAR NAVIGATION processor, and making the connections

1. Mount the rear arms (Figure 7) of the bracket for the CAR NAVIGATION processor to the fixed tapping nuts (A, Figure 1) on the tank surface using the longer, kit-included self-tapping screws.

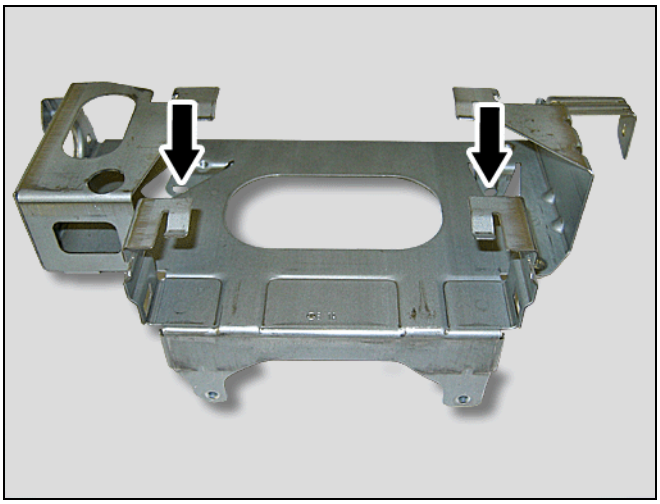

Figure 7 P82.85-5072-71

2. Route the MOST connector, antenna connector, and power supply connector behind, through the center, and out the front of the mounted bracket for the CAR NAVIGATION processor (Figure 8).

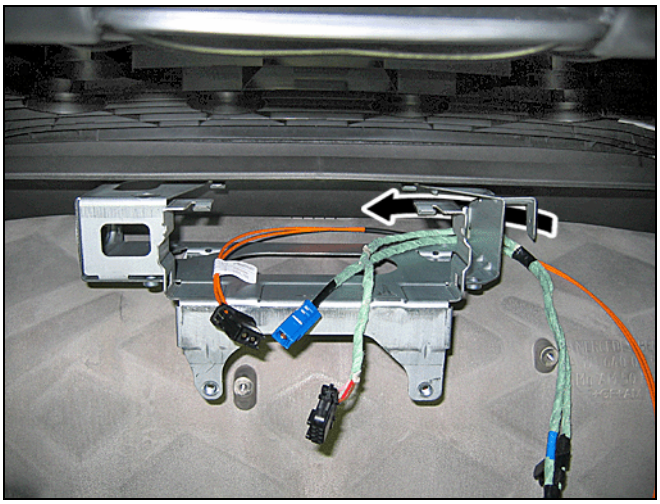

Figure 8 P82.85-5073-71

3. Connect the MOST connector to the CAR NAVIGATION processor (A, Figure 9).
4. Connect the power supply connector to the CAR NAVIGATION processor (B, Figure 9).
5. Connect the antenna connector to the CAR NAVIGATION processor (C, Figure 9).

   Note: Face the top of the CAR NAVIGATION processor toward the vehicle rear when making the connections.

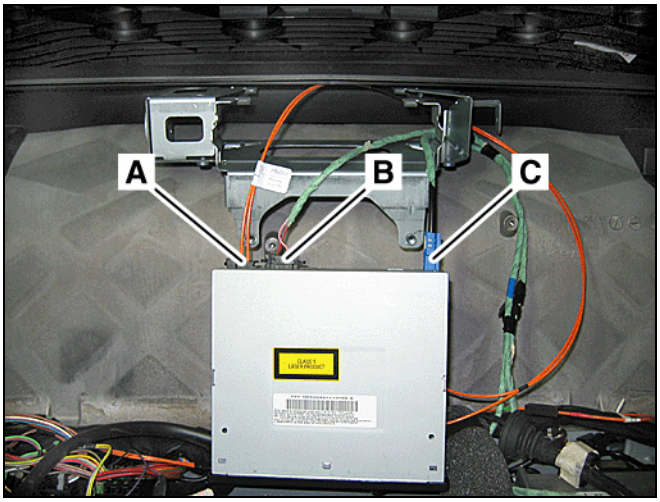

Figure 9 P82.85-5074-71

6. Carefully slide the CAR NAVIGATION processor into the bracket (Figure 10).

   Note: Listen for an audible click to confirm the locks at the front, sides of the CAR NAVIGATION processor lock into the bracket.

7. Insert the cable anchor (A, Figure 10) plug into the hole in the tank cover below the CAR NAVIGATION processor.

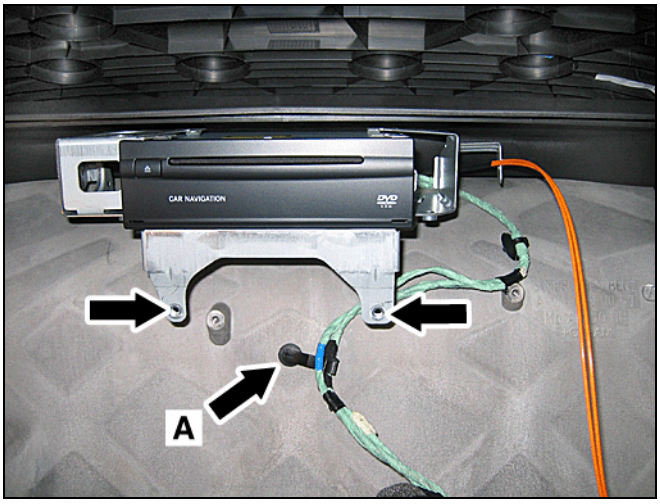

Figure 10 P82.85-5075-71

E. Installing and connecting the antenna splitter

1. Disconnect the female and male antenna splitter connectors from one another (Figure 11).

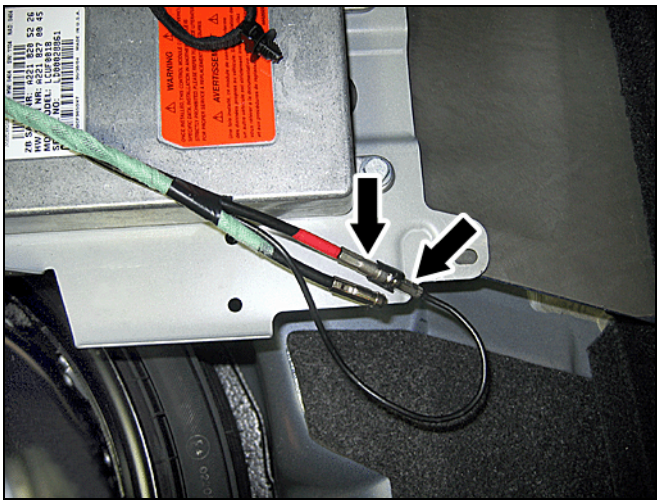

Figure 11 P82.85-5076-71

2. Mount the antenna splitter by snapping the two clips on its underside (A, Figure 12) into the holes (B, Figure 12) in the mounting plate, rear of the TELE AID control module.

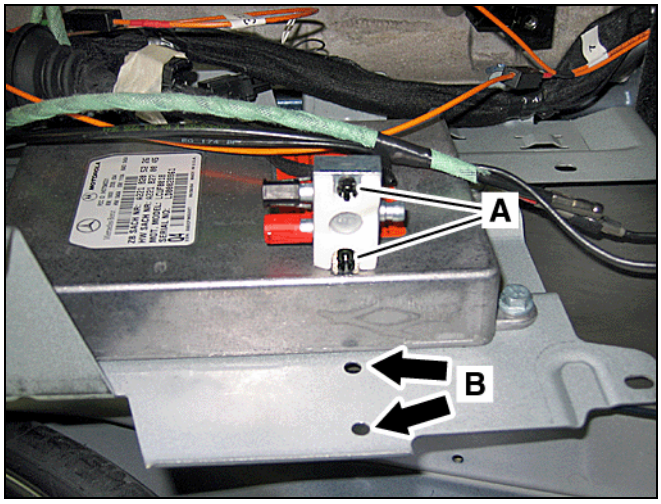

Figure 12 P82.85-5077-71

3. Connect the antenna splitter:
   a. Connect the male antenna lead to the output jack—with the red retainer clip—of the antenna splitter (A, Figure 13).
   b. Connect the pre-wired antenna lead to the output jack—with the black retainer clip—of the antenna splitter (B, Figure 13).
   c. Connect the female antenna lead with the retainer clip to the input jack of the antenna splitter (C, Figure 13).

   Note: Make sure the connectors lock into the retainer clips when making the connections.

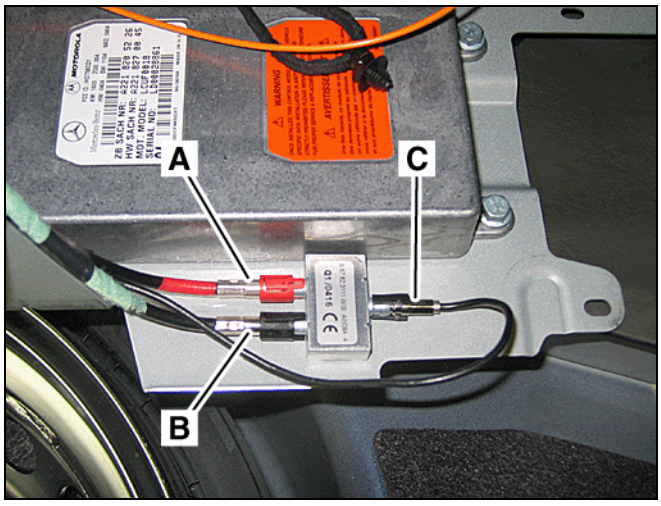

Figure 13 P82.85-5078-71

F. Version coding

1. Connect Star Diagnosis to the vehicle and perform the version coding outlined below.
2. Set the MOST ring configuration to match that of Figure 14 via path:

   Control units > Information and communication > Audio, video, navigation and telematics > AGW - Audio Gateway > Retrofitting of MOST components > F2: Restart of optical ring > Verify configuration of the MOST components, then press F2: Actual configuration of MOST components > F2: Continue > F3: Yes (To write the current actual configuration of the MOST components into the MOST master as the future specified configuration) > F2: Erase fault memory

   Note: The MOST ring configuration in Figure 14 is an example of a configuration including every component. Some installations will not include all the components shown in the example. If a component is not present, connect the preceding component to the component following the one not present.

   NOTICE!
   Failure to have the configuration match Figure 14 will result in erroneous system operation and/or intermittent malfunctioning of some or all components.
   DO NOT alter the configuration in Figure 14 to match the vehicle configuration.

3. Check the DTC memory of all installed components and the head unit. Investigate and identify any present DTC(s). Once identified, correct the source of the DTC(s) and clear the DTC memory.

   Note: Powering up the newly installed system prior to version coding will set errors in the MOST ring configuration. Ignore these errors during the initial DTC check. If, after clearing the DTC(s), they return in the next step, a configuration error is present. Locate and correct the error.

4. Confirm no new DTC(s) are present in the MOST system group.

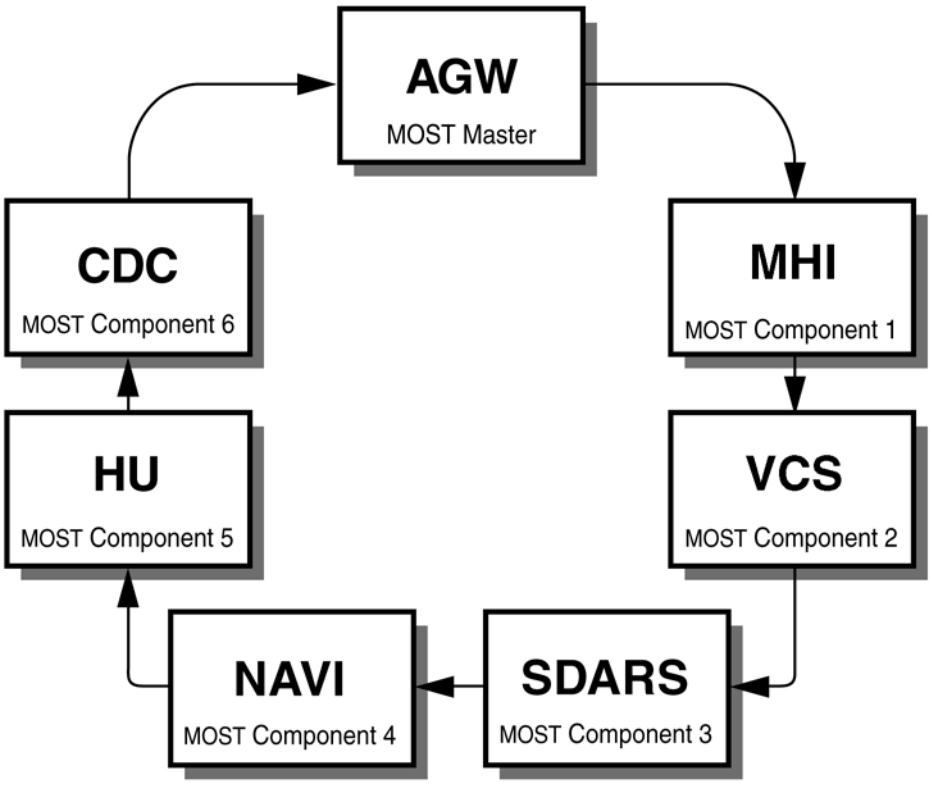

Figure 14 P82.85-5079-11

G. Final assembly and function testing

1. Verify proper CAR NAVIGATION operation:
   - ✓ Insert the CAR NAVIGATION DVD
   - ✓ Turn on the head unit
   - ✓ Select MAP or NAVI and wait for loading to complete
   - ✓ Remove the ignition key (the head unit must be turned OFF)
   - ✓ Wait five minutes
   - ✓ Turn on the head unit and check the CAR NAVIGATION operation
2. Reinstall the equipment carrier using the previously removed ten M6 screws.
   - ➢ Refer to *WIS* document AR68.50-P-3100V, “Remove/install retractable trunk partition bracket”
3. Fasten the front arms (Arrows, Figure 10) of the bracket for the CAR NAVIGATION processor to the mounting points (B, Figure 1) at the top of the equipment carrier using the shorter, kit-included self-tapping screws.
4. Reinstall the center trunk paneling (Figure 15).
   - ➢ Refer to *WIS* document AR68.30-P-4810V, “Remove/install center trunk paneling”
5. Install the kit-included cover—see Parts Information—for the CAR NAVIGATION processor using the kit-included expansion clips (Figure 16).

Figure 15 P82.85-5080-71

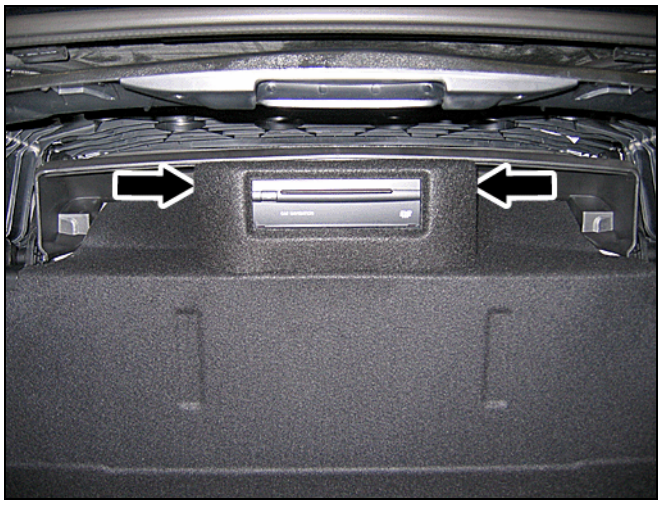

Figure 16 P82.85-5081-71

H. Parts information

Qty.	Part Name	Part Number/Exchange
1	**Kit, CAR NAVIGATION (SLK-Class)**	**B6 782 3548**
	Kit contents:	
3	Clip, expansion	A 126 990 02 92
1	Bracket, CAR NAVIGATION processor	A 171 545 30 40
1	Liner panel, CAR NAVIGATION processor	A 171 693 09 91
1	Splitter, antenna	A 210 820 24 89
1	Processor, CAR NAVIGATION	A 220 870 35 89
1	Adapter cable, MOST	B6 782 3549
2	Screw, M6 x 15	N 000000 001114
2	Screw, M6 x 12	N 910143 006000
	Separate line items:	
1	Liner panel, trunk UT	A 171 693 04 91 9E30
1	DVD-ROM	BQ 646 0206

Note: This installation, and any subsequent related installation and/or workmanship issues, cannot be claimed under warranty.