



Install

Date: September 2003
Order No.: P-I-82.70/280
Supersedes:
Group: 82

**SUBJECT: MODEL 211.065/070/076 (only with COMAND)
MODEL YEAR 2004
VOICE ACTIVATED CELLULAR TELEPHONE 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.

Note: These installation instructions are only for M.Y. 2004 Model 211 with COMAND. Use installation instruction P-I-82.70/150E (M.Y. 2003 Model 211) if equipped with the Audio 50 head unit.

Application specific MOST notes:

- Audio Gateway (AGW) is the MOST master that serves as the tuner and amplifier.
- The Communications Platform (CP) module replaces, and provides the combined function of, the PSE module and Tele Aid module.

A. Installation preparation—all configurations

1. Read this bulletin in its entirety.
2. Unpack and compare the installation kit(s) contents against the Parts Information list on page 11.
3. Place the operating guides/client accessories in the glove box or appropriate storage compartment.
4. Remove the trunk mat.

This bulletin has been created and maintained in accordance with MBUSA-SLP 5.1, Document and Data Control, and MBUSA-SLP 16.1, Control of Quality Records.

B. Mounting and connecting the linear compensator

1. Open the trunk and remove the vapor barrier by lifting it off the trunk well liner (A, Figure 1).

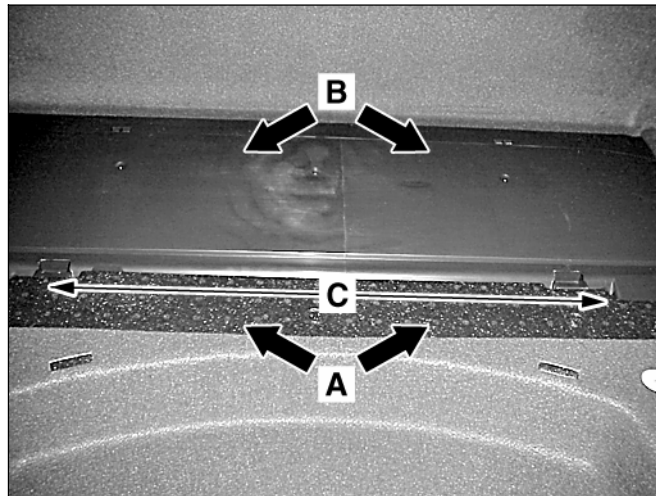


Figure 1

P82.70-4548-01

2. Remove the carrier plate cover (B, Figure 1) by removing the two screws securing it (C, Figure 1)—the screws, located under the vapor barrier, are not visible in Figure 1).
 - Refer to (A, Figure 2) for fastening point locations of carrier plate cover

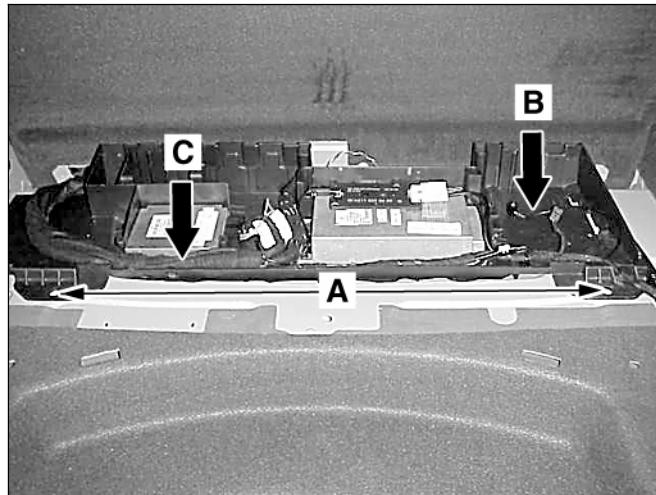


Figure 2

P82.70-4549-01

3. In the right side compartment of the carrier plate (refer to [B, Figure 2] for orientation), locate the:
 - Compensator power cable (A, Figure 3)
 - Antenna coaxial cable female connector (B, Figure 3)
 - Harness coaxial cable male connector (C, Figure 3)

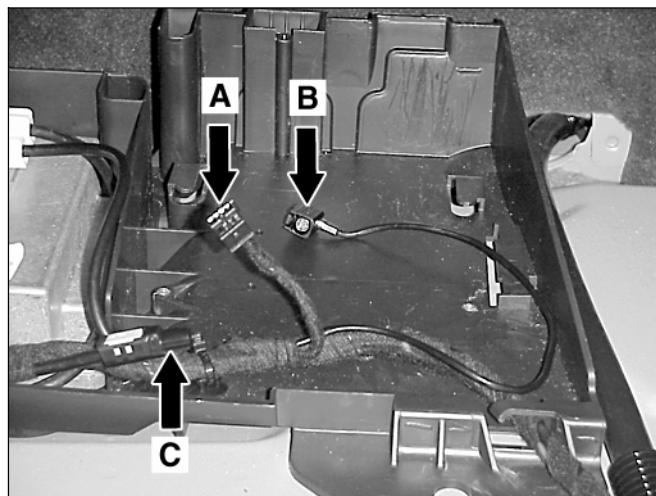


Figure 3

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4. Place the linear compensator near its point of installation and connect the antenna coaxial cable female connector (B, Figure 3) to the linear compensator jack labeled "ANTENNA" (Figure 4).

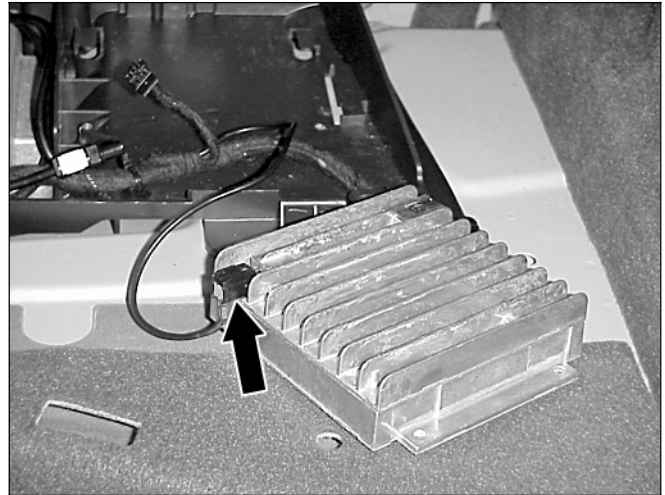


Figure 4

P82.70-4551-01

5. Mount the linear compensator to the right side compartment of the carrier plate (refer to B, Figure 2 for orientation):
 - a. Slide the compensator mounting-lip under the carrier plate bracket-tabs (A, Figure 5).
 - b. Secure the opposite end of the compensator with two T20 Torx screws (B, Figure 5).

Note: The compensator side with the jack labeled "ANTENNA" must face the vehicle front and the side labeled "PORTABLE" with the power connector receptacle next to it must face the vehicle rear (Figure 5).

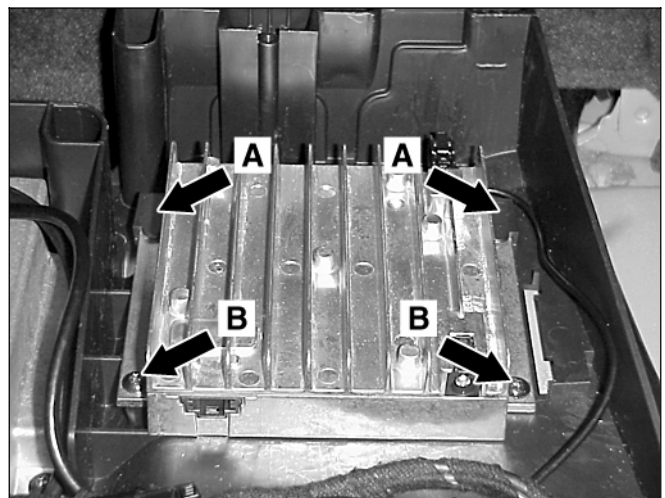


Figure 5

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6. Connect the compensator adapter cable (found in the kit) male connector to the compensator jack labeled "PORTABLE" (A, Figure 6).
7. Connect the female connector of the compensator adapter cable to the harness coaxial cable male connector (B, Figure 6).
8. Connect the compensator power cable to the linear compensator (C, Figure 6).
9. Reinstall the carrier plate cover with the two screws previously removed.
10. Reinstall the vapor barrier.

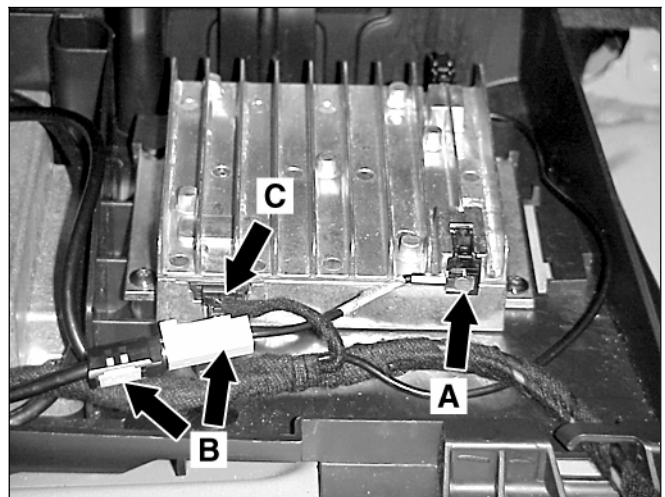


Figure 6

P82.70-4553-01

C. Installing the portable phone cradle and support cable

1. Open the center console upper compartment.
2. Remove the release button assembly for the upper compartment doors by removing the two T10 Torx screws (A, Figure 7)
3. Remove the two T8 Torx screws securing the false floor to the upper compartment (B, Figure 7).

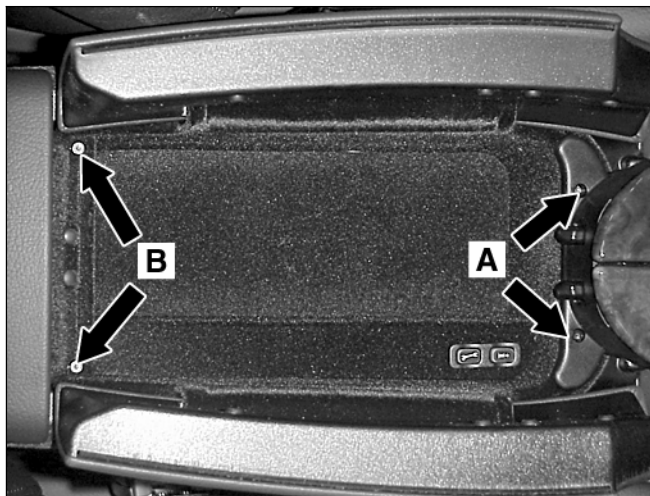


Figure 7

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4. Open the center console lower compartment.
5. Remove the two T8 Torx screws securing the false floor/base plate assembly to the upper compartment (Figure 8).



Figure 8

P82.70-4555-01

6. Raise the front of the false floor/base plate assembly so it stands vertically (Figure 9).
7. Disconnect the Tele Aid power cord connector (A, Figure 9).
8. Separate and remove the false floor from the base plate by pulling up on the front of the false floor, while simultaneously releasing the two clips (B, Figure 9).

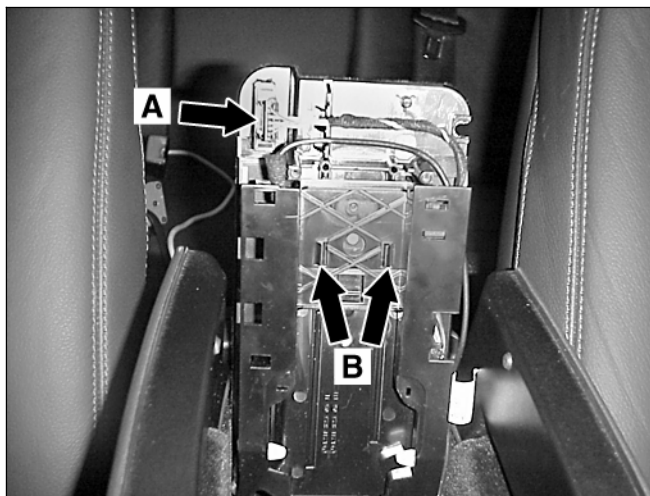


Figure 9

P82.70-4556-01

9. Drill out the two semi-punched holes in the false floor underside with a 4.5-mm drill bit (A, Figure 10).

Note: Drill out the two semi-punched holes closest the Tele Aid connector side of the false floor.

10. Drill, or file, out the upper semi-punched notch of the false floor—for the coil-cord (B, Figure 10).
11. Fasten the cradle holder to the false floor by inserting two T15 Torx screws through the false floor underside and into the holder screw holes.

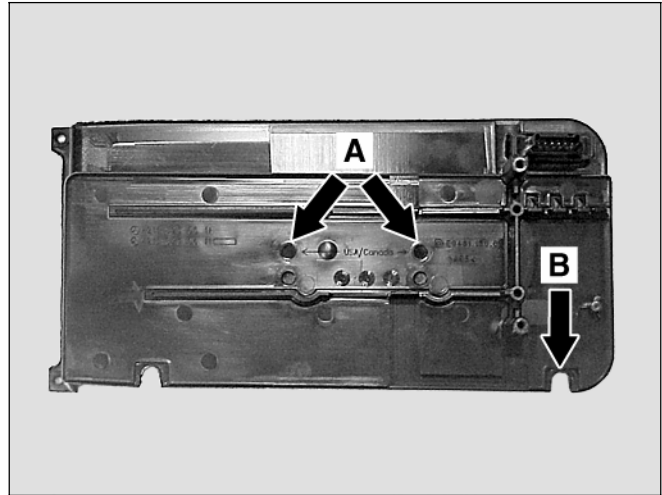


Figure 10

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12. Reattach the false floor to the base plate by aligning and snapping in the two clips.
13. Place the coil-cord anchor over the base plate peg (A, Figure 11).
14. Route the mini-UHF coaxial cable through the outer channels of the base plate (B, Figure 11).
15. Connect the mini-UHF coaxial connectors and place the connector assembly in the holding-clip (C, Figure 11).
16. Connect the coil-cord power connector by pushing it in until it snaps into place (A, Figure 12).
17. Route the coil-cord through the inner channels of the base plate (B, Figure 12).

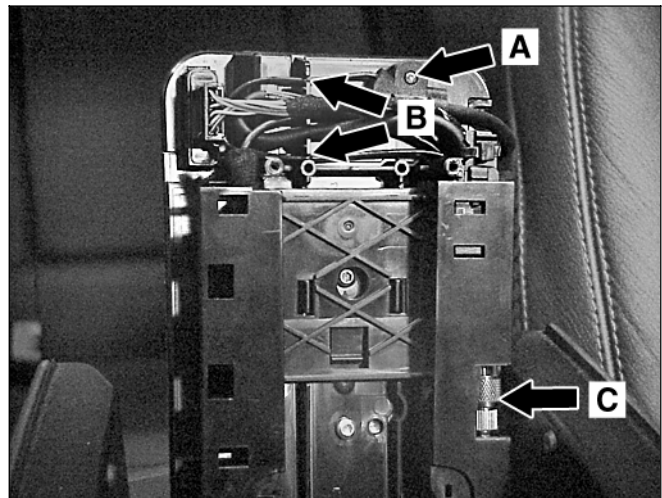


Figure 11

P82.70-4558-01

18. Install a wire-tie to relieve stress on the coil-cord power connection (C, Figure 12).
19. Route the coil-cord through the notch cut out of the base plate (D, Figure 12).
20. Reconnect the Tele Aid power connector (E, Figure 12).
21. Reinstall the false floor/base plate assembly into the upper compartment.
22. Reattach the release button assembly with the two previously removed T10 Torx screws.
23. Secure the rear of the false floor with the two previously removed T8 Torx screws.
24. Secure the base plate to the upper compartment with the two previously removed T8 Torx screws.
25. Place the cradle in the holder.

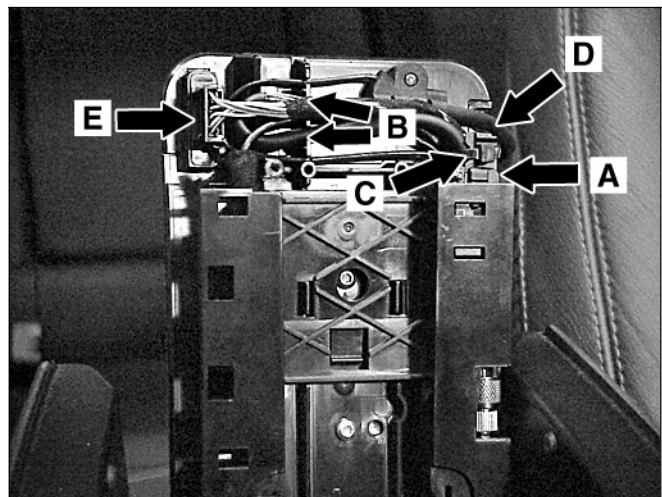


Figure 12

P82.70-4559-01

26. Install the battery insert plate marked “FOR USE WITH SLIM BATTERY” when using the slim battery (500 mAh) with the telephone (Figure 13).

Note: The embossed text on the installed battery insert plate must face up as in Figure 13.



Figure 13

P82.70-4064-01

27. Install the battery insert plate marked “FOR USE WITH HIGH PERFORMANCE BATTERY” when using the high performance battery (800 mAh) with the telephone (Figure 14).

Note: The embossed text on the installed battery insert plate must face up as in Figure 14.

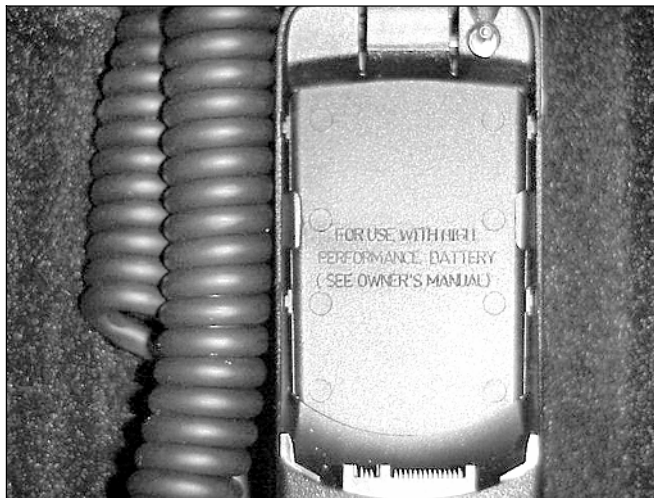


Figure 14

P82.70-4065-01

28. Remove the battery insert plate when using the extra capacity battery (1100 mAh) with the telephone (Figure 15).

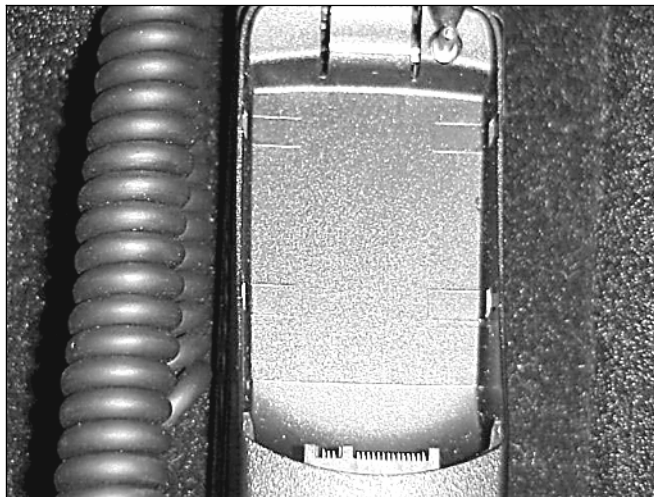


Figure 15

P82.70-4284-01

29. Place the telephone in the cradle (Figure 16).



Figure 16

P82.70-4560-01

D. Mounting the optional voice control module (VCM)

1. Carefully reposition the vehicle harness away from the front of the carrier plate to expose the fastening point of the AKG control module (A, Figure 17—shows harness repositioned).

- Refer to (C, Figure 2 for orientation)

Note: Another name for the AKG control module is the “hands-free-system” control module or unit.

2. Remove the AKG control module from the left compartment of the carrier plate by removing the T10 Torx screw (B, Figure 17) and then sliding the rear mounting-tab (C, Figure 17—not visible in photo) out of the slot.
3. Disconnect the power cable connector (D, Figure 17).
4. Mount the VCM by sliding the rear mounting-tab into the slot (A, Figure 18—rear tab and slot not visible in photo) and fastening the front mounting tab with the previously removed T10 Torx screw (B, Figure 18).
5. Connect the power cable connector (C, Figure 18).
6. Move the vehicle harness back to its original position (C, Figure 2).
7. Reinstall the carrier plate cover.
8. Reinstall the vapor barrier.

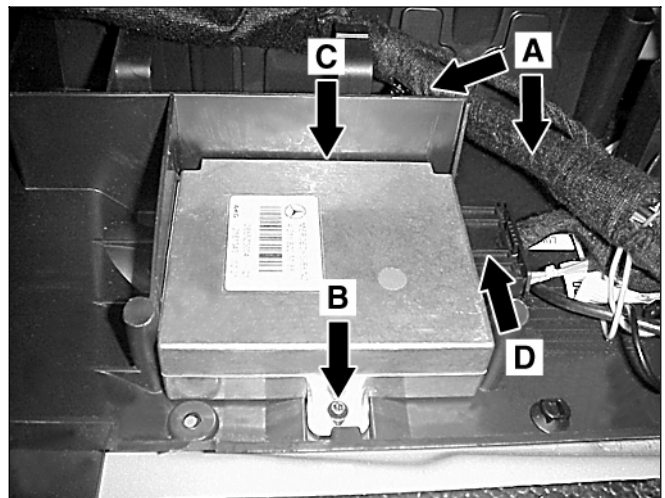


Figure 17

P82.70-4561-01

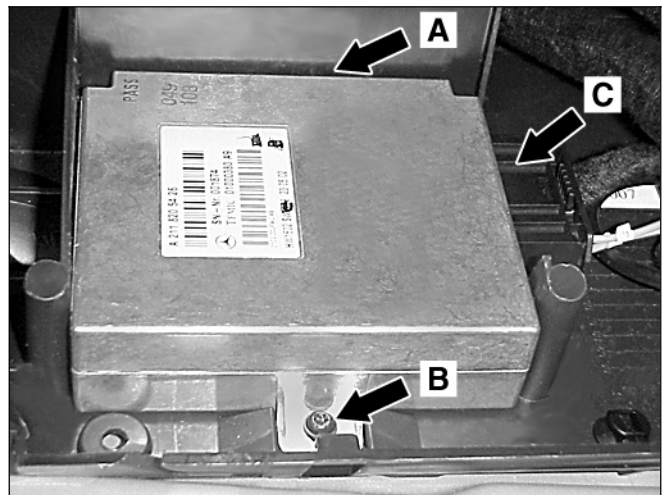


Figure 18

P82.70-4562-01

E. Installing the push-to-talk (PTT) stalk

1. Remove the plug on the steering column covering the mounting hole for the PTT stalk (Figure 19).



Figure 19

P82.70-4563-01

2. Insert the PTT stalk into the mounting hole by rotating the stalk until its grooves interlock with the teeth of the mounting hole, making sure to push the stalk completely into the mounting hole (Figure 20).



Figure 20

P82.70-4564-01

F. Version coding and diagnostic testing

1. Connect Star Diagnosis (SDS) to the vehicle and perform the version coding outlined below.
2. Set the instrument cluster by using path:

Control units / Control unit groups / Information and communication / IC / Control unit adaptations / Version coding / Optional equipment

Set cellular phone to "PRESENT."

3. Set the cellular phone in the communications platform by using path:

Control units / Information and communication / Audio, Video, Navigation and Telematics / CTEL / Control Unit Adaptations / Read coding & change if necessary / System Configuration / Set "Portable Cellular Phone" to "FITTED" / Hit F5 to carry out coding / Hit F3 to transfer coding to module / Hit F2 / Select "Yes" to restart ring

4. Set the MOST ring configuration to match the diagram on page 10 by using path:

Control units / Information and communication / Audio, Video, Navigation and Telematics / AGW / Control Unit Adaptations / Read coding and change if necessary / Specified configuration of MOST components

Note: The diagram on page 10 is an example of a MOST ring configuration including all components. 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.

5. Return to the "AGW Functions" menu. Using path:

Actual values / Actual Configuration of MOST components

Verify the version coding input above (specified value) matches the actual configuration performed during installation (actual values). If a difference exists, the ring configuration is incorrect and must be disassembled and corrected.



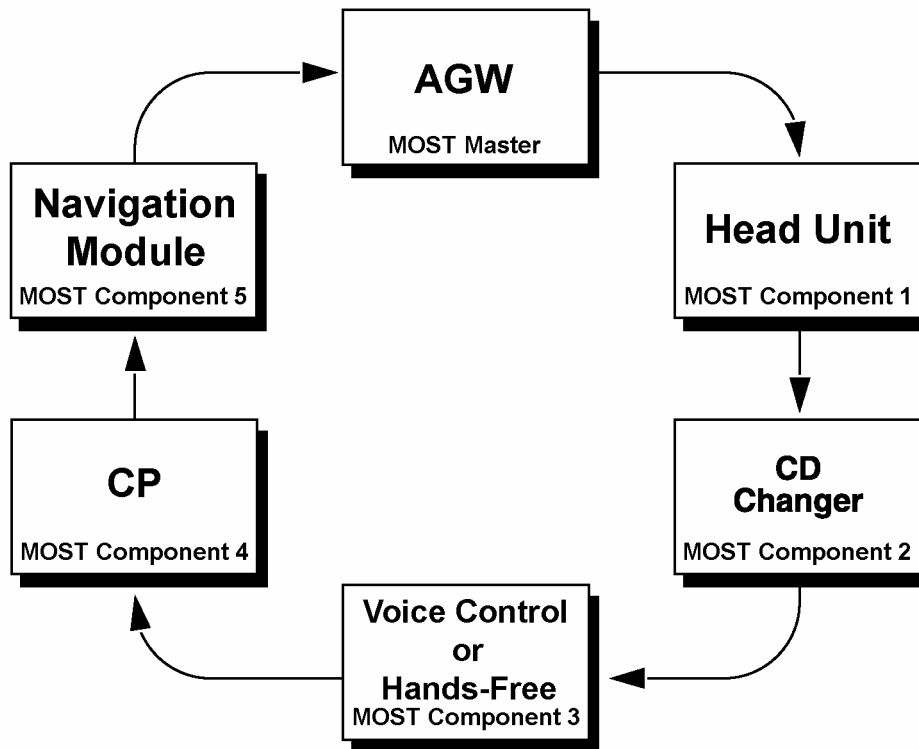
NOTICE

DO NOT alter the configuration in the diagram to match the vehicle configuration. Failure to have the configuration set as indicated in the diagram on page 10 will result in erroneous system operation and/or intermittent malfunctioning of some or all components.

6. Check the DTC memory of all installed components and the head unit. Any present DTC(s) should be investigated, the source identified, corrected, and the DTC memory cleared.

Note: Powering up the newly installed system before 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 that must be located and corrected.

7. Confirm no new DTC(s) exist in the D2B system group.



G. Final assembly and function test

1. Replace the trunk mat.
2. Program the telephone per S-B-82.70/179A, "V60 Portable Telephone Programming."
3. Verify proper telephone and Voice Control System (as applicable to installed equipment) operation per the following checklist:

Telephone

- Handset dialing is functioning
- Head unit dialing is functioning
- Handset incoming/outgoing call audio is clear
- Hands-free incoming/outgoing audio is clear
- Automatic memory download is functioning (may be necessary to store a test number in the telephone handset for this feature to operate). After automatic download, stored numbers should be available for dialing from the head unit.
- Verify the telephone mode is available in the ICM
- Verify operation of the steering wheel controls

Parts Information

Qty.	Part Name	Part Number/Exchange
	E-Class vehicle completion kit	Q 682 0826
1	Linear compensator	Q 682 0829
1	Cable, linear compensator	Q 682 0832
1	Standard install hardware kit	Q 682 0463
	Optional voice control system kit	Q 682 0827
1	Voice Control System, control module (MOST)	Q 682 0830
1	PTT stalk	Q 682 0820
1	Manual, Voice Control (SJJN 4791A)	P-2799-03A
	V60 cradle short-cord kit	Q 682 0828
1	V60 cradle with short coil-cord	Q 682 0833
1	V60 holder	Q 682 0768
1	Battery insert	Q 682 0811
1	In-vehicle manual (SJJN 4769A)	P-2798-03A