



Mercedes-Benz

service information

TO: OUR MERCEDES-BENZ PASSENGER CAR DEALERS

DATE: November 1993 (supersedes S.I. MBNA 82/70, Aug. 1993) **REF. NO.** MBNA 82/70a

Revision: to W.I. 302a and new W.I.'s 303 and 304 for models 124 and 202 respectively

SUBJECT: MODELS 124, 129, 140 AND 202
M.Y. 1994
INSTALLATION OF CELLULAR TELEPHONE SYSTEM

Attached to this Service Information are Work Instructions for installation of the cellular telephone system in model 124, 129, 140 and 202 model year 1994 vehicles.

NAM Programming Guide S-2503-093 is valid for M.Y. 1994 model 129, 140 vehicles (with core kit Q 6 82 0140).

NAM Programming Guide S-2499-A92 is valid for models 124, 201, 202.



Mercedes-Benz

Service

Work Instructions

Date: November 1993

Group: 82

Number: 302a

**SUBJECT: MODELS 129 AND 140
M.Y. 1994
INSTALLATION OF CELLULAR TELEPHONE SYSTEM**

INSTALLING IN-DASH CONTROLLER (IDC)

1. Unpack contents of installation kit and compare to parts list at end of work instructions. Read through entire work instruction procedure to familiarize yourself with sequence of instructions and parts. Remove Operating Guide from kit and place in Owner's Literature pouch.
2. Disconnect and cover negative battery terminal.
3. Examine inside of eyeglass compartment for presence of a non-lined plastic "false back".

FOR EYEGLASS COMPARTMENT WITH FALSE BACK (Steps 4 - 9)

4. If false back is installed, removal of the eyeglass compartment is not necessary.
5. Remove two screws securing false back to eyeglass compartment. Remove false back to expose two 12-pole connectors and one microphone connector. Remove cables from false back. False back and original mounting screws may be discarded.
6. Install IDC mounting bracket. Position mounting bracket so that mounting holes align with false back mounting holes. Secure bracket with four 4x10 mm self tapping screws.
7. Attach two self-adhesive retainer clips to rear of in-dash controller with the open end facing up (Figure 1).
8. Connect two 12-pole connectors to in-dash controller. Connect microphone connector to connection on top center of controller.

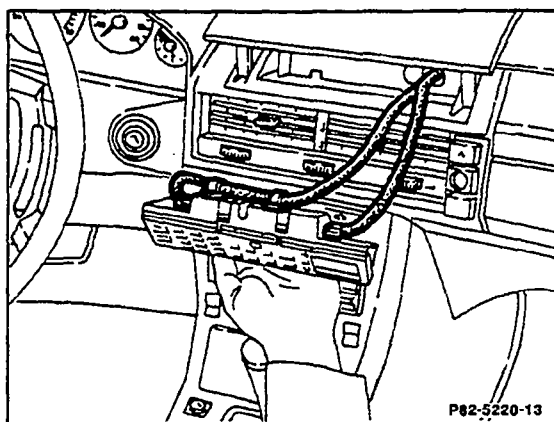


Figure 1

9. Secure left cable and microphone cable to clips on back of IDC. Slide in-dash controller into bracket and snap into place – DO NOT PRESS ON THE LCD DISPLAY.

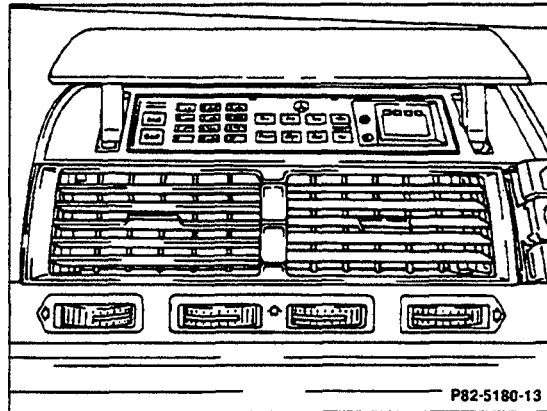


Figure 2

FOR EYEGLASS COMPARTMENT WITHOUT FALSE BACK (Steps 10 – 20)

10. If false back is not installed, remove eyeglass compartment (SMS, Body-assembly jobs, Job no. 68-155).

Note: Remove lock cylinder to avoid damaging dashboard covering.

11. Carefully cut out the recessed opening on the back of the eye glass compartment (Arrow, Figure 3). Use caution when cutting so as not to damage the compartment liner. Cut liner inside compartment with utility knife. File down any sharp plastic edges.

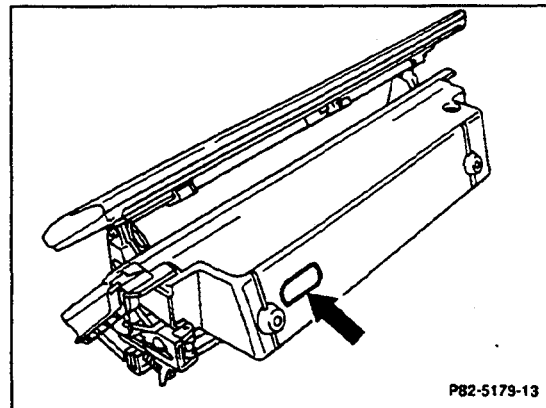


Figure 3

12. Place template (a) on top of eyeglass compartment (Figure 4).
13. Locate, punch and drill 5 mm holes according to template.
14. Countersink holes by hand using 8.5 mm drill bit.

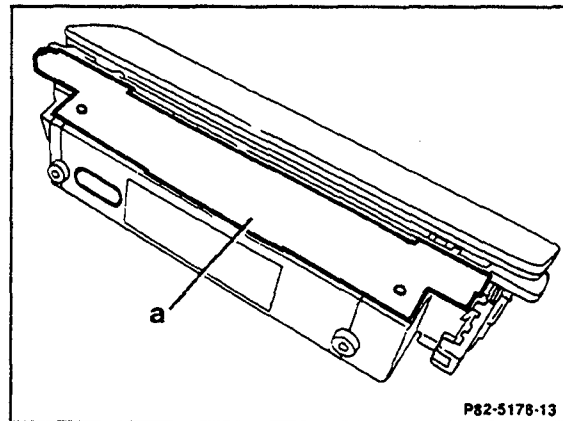


Figure 4

15. Place controller bracket in eyeglass compartment. Insert two flat head screws through top of eyeglass compartment, finger tighten square nuts.

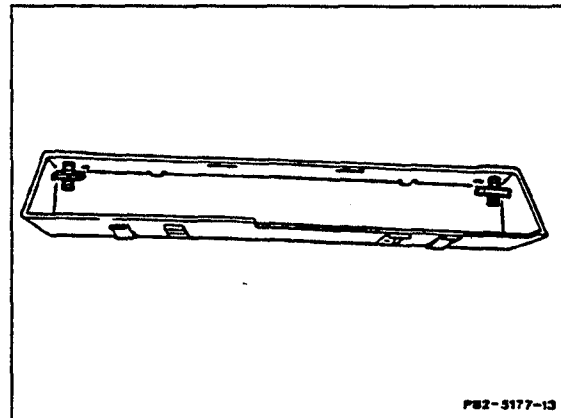


Figure 5

16. Slide in-dash controller into bracket and snap into place – DO NOT PRESS ON THE LCD DISPLAY. Center controller and then tighten two flat head screws.
17. Insert removal tool (b) into two slots on top of IDC, push down on the top of the tool and then pull on tool to remove IDC.

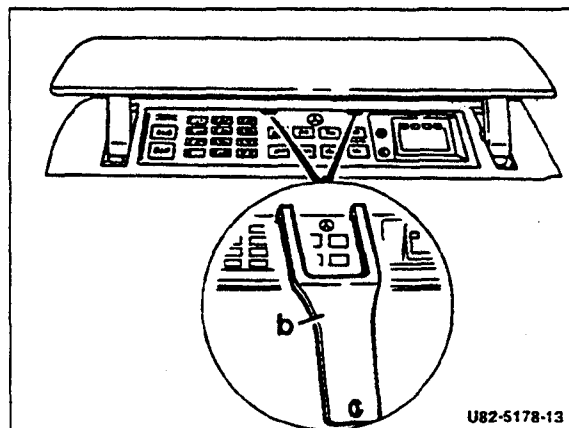


Figure 6

18. Attach two self-adhesive retainer clips to rear of IDC with the open end of the clips facing up.
19. Guide wires for IDC through round opening in back of the eyeglass compartment.

Note: Model 140 Only

Guide two in-dash controller cables and microphone cable to the top right inside of the eyeglass compartment. Secure cables to top right inside corner of compartment opening using metal clip, slide clip toward you to engage.

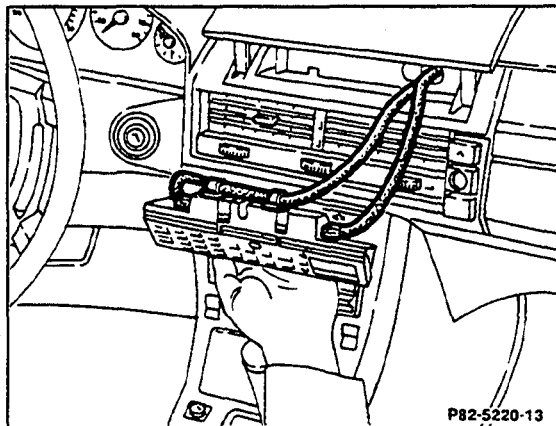


Figure 7

20. Reinstall eyeglass compartment with controller bracket. Remove protective covers from ends of controller cables and attach to in-dash controller. Secure left cable and microphone cable to clips on back of IDC. Slide IDC into bracket and snap into place – DO NOT PRESS ON THE LCD DISPLAY.

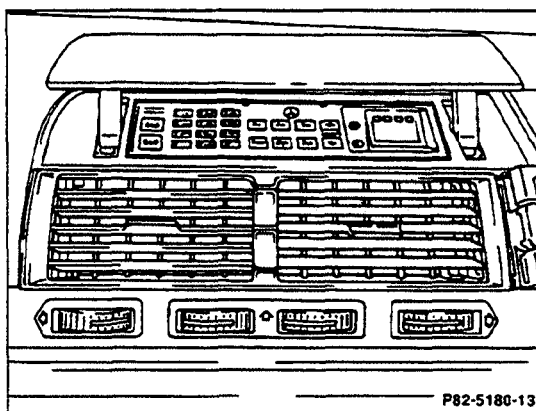


Figure 8

INSTALLING HANDSET (HS)

A. Model 129

B. Model 140

A. Model 129

1. Remove carpeting from center console.
2. Cut and remove styrofoam, up to the horizontal chamfer (arrows, Figure 9), from underside of carpeting. Remove material from lip around the underside of carpeting so reinforcing plate can sit flat.
3. Place reinforcing plate on back of carpeting (Figure 9).
4. Locate, punch and drill four inner holes to 5 mm
5. Insert four screws through reinforcing plate and carpeting. Mount cradle on carpeting and secure screws.

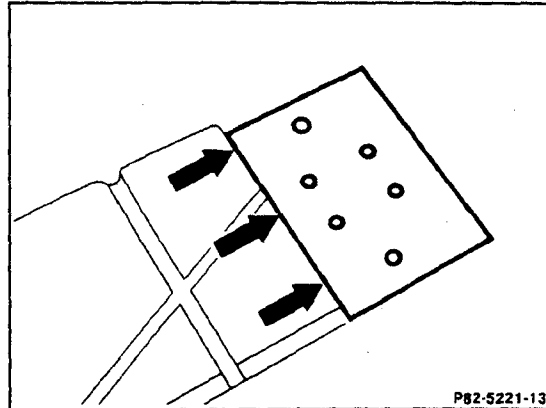


Figure 9

6. Drill outer holes through carpeting to match the diameter of the mounting plate holes.
7. Remove two forward screws in center console compartment.
8. Place angular cradle bracket in console with raised edge of bracket pointing towards the rear of the compartment (Figure 10). Secure bracket using the two removed screws.

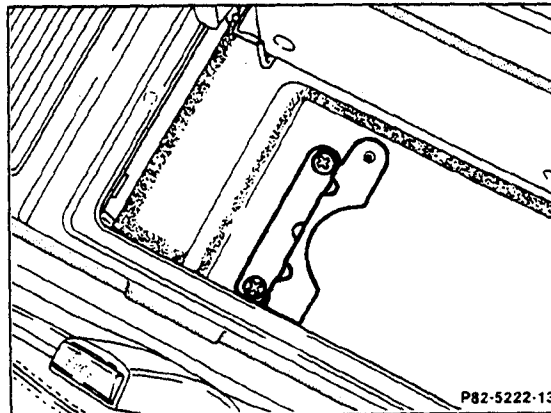


Figure 10

9. Replace carpeting and cradle into center console compartment. Harness cord should be routed on the right side with cord taped to chamfers on underside of carpeting. Secure carpeting with two screws (arrow, Figure 11) to angle bracket in compartment.
10. Connect harness connector to the right side cradle connection and the handset connector to the left side (Figure 11). Place handset in cradle.

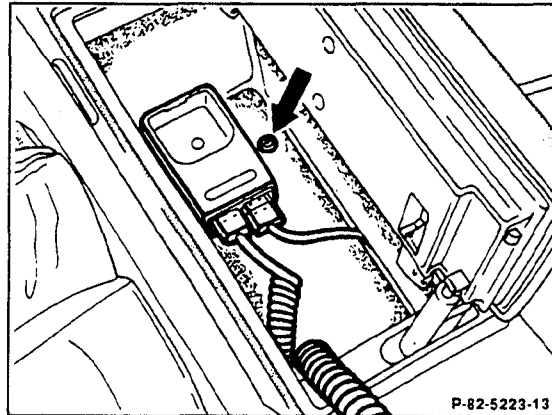


Figure 11

B. Model 140

1. Open armrest and place cradle inside compartment. The front edge of the cradle must touch the front wall of the armrest, and the two holes in the cradle must be centered over the small pre-punched holes in the armrest floor (use a good shoplight to locate holes).

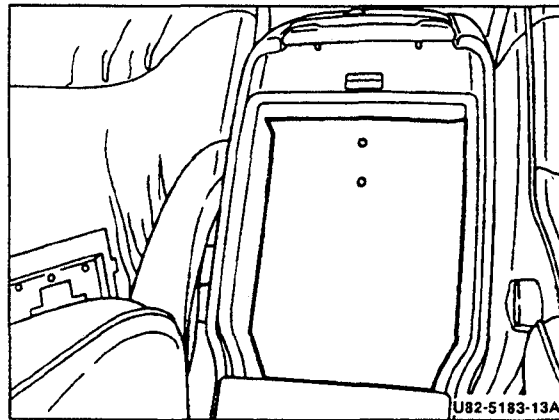


Figure 12

2. Attach coil cord retaining spring to notches on underside of cradle.
3. Attach cradle and cord spring to armrest using two M4x14 pan head tapping screws. Cover screws with rubber caps with white stripe facing downward.

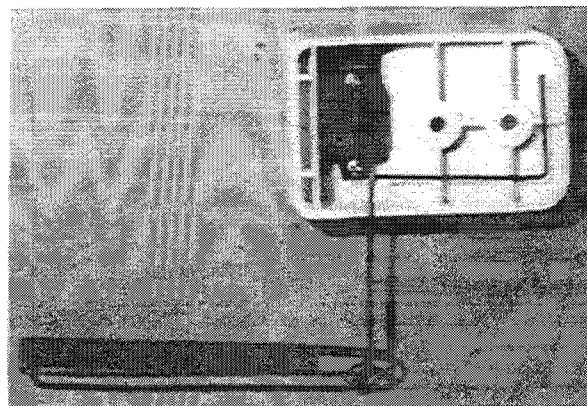
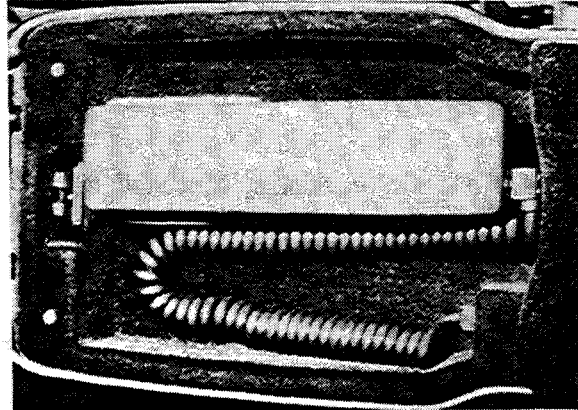


Figure 13

4. Connect 90° angle connector from coil cord to handset.
5. Remove protective cover from connector at rear of armrest.
6. Slide cord over spring, starting with the straight connector. Clip last coil onto the front end of the spring.
7. Connect straight connector to connector at rear of armrest.



INSTALLING TRANSMITTER/RECEIVER (TR)

- A. Model 129
- B. Model 140

A. Model 129

1. Remove left trunk panel and taillamp assembly.
2. Assemble TR to mounting plate using brackets.
3. Attach pig-tail junction box to plate, secure with cable tie.
4. Connect cable from junction box to TR.
5. Remove protective caps from studs in bottom of wheel well.
6. Partially remove carpeting from left trunk area.
7. Install clips to longitudinal rail over existing holes. Replace carpeting.
8. Position transmitter – receiver mounting plate over studs in wheel well. Insert sheet metal screws through holes in TR plate into clips, do not tighten. Place nuts on studs and tighten. Tighten sheet metal screws.
9. Connect white 4-pole connector (power supply) to TR.
10. Connect male speaker connector from vehicle harness to female speaker connector in junction box.
11. Disconnect 4-pole connector from antenna. Open connector locking strap. Insert bare connector from antenna adapter harness into location "2" of the 4-pole connector. Insert from rear of connector. Observe proper pin orientation. Close locking strap. Reconnect 4-pole connector to antenna.
12. Connect 1-pole female junction box connector to round connector on antenna adapter harness.

13. Connect telephone harness data cable to junction box on TR plate.
14. Connect one end of the antenna lead cable to the TR, the other end to the "Telefon" connection on the splitter box.
15. Secure loose wires/cables with cable tie.
16. Reinstall left wheel well liner and taillamp assembly.
17. Install 8 A fuse in auxiliary fuse box (located in trunk, above battery, Figure 15).
18. Reconnect negative battery terminal.
19. Program telephone.
20. Recode radio.
21. Test function.

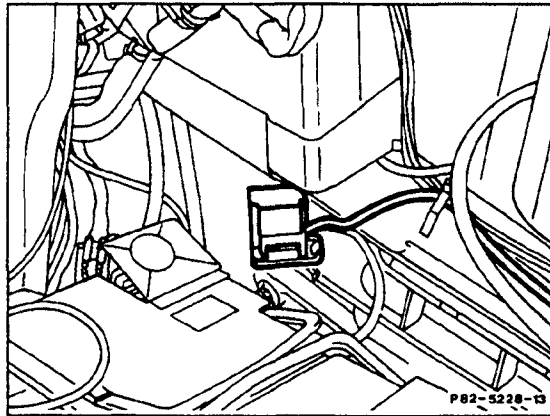


Figure 15

B. Model 140

1. Remove trunk mat, left trunk panel and taillamp assembly.
2. Install TR onto metal plate (left of sound system amplifier) using two clips (one at each end), and #8x5/8" sheet metal screws. Make certain that the antenna connector faces downward.
3. Connect one end of the antenna lead cable to the TR, the other end to the "Telefon" connection on the splitter box.

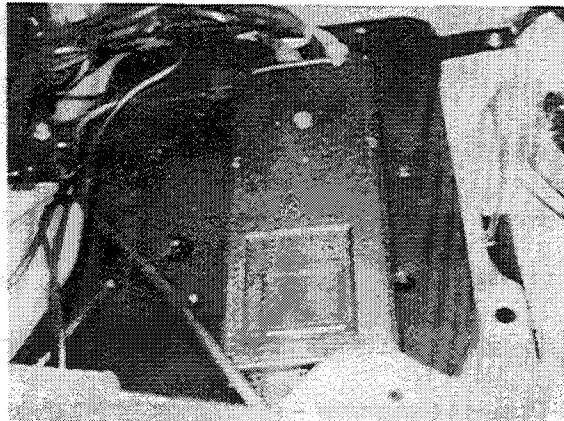


Figure 16 Model 140 Sedan

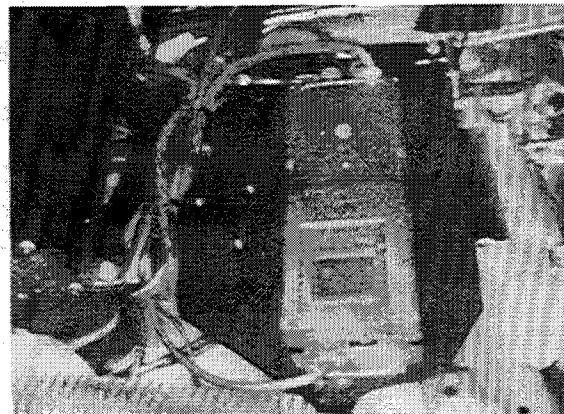


Figure 17 Model 140 Coupe

4. Disconnect 4-pole connector from antenna. Open connector locking strap. Insert bare connector from antenna adapter harness into location "2" of the 4-pole connector. Insert from rear of connector. Observe proper pin orientation. Close locking strap. Reconnect 4-pole connector to antenna.

5. Connect junction box as follows:

- a female speaker connector to male speaker connector near white 4-pole TR power connector
- b 1-pole male antenna control connector to 1-pole round connector on antenna adapter harness
- c TR data connector to TR
- d junction box connector to vehicle TR data harness

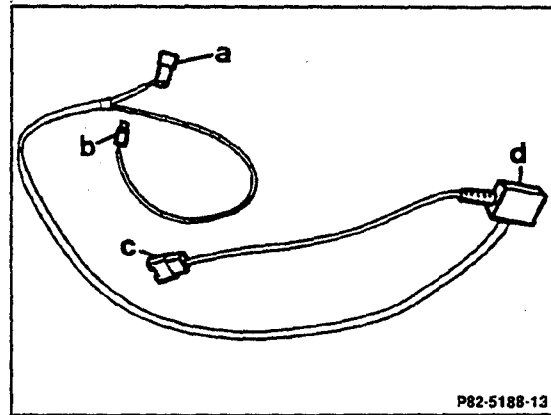


Figure 18

- 6. Connect white 4-pole connector (power supply) to TR.
- 7. Secure adapter harness to TR mounting plate using cable ties.
- 8. Reinstall left wheel well liner and taillamp assembly.
- 9. Install 7.5A fuse in auxiliary fuse box (located in trunk, behind panel in right trunk liner).
- 10. Reconnect negative battery terminal.
- 11. Program telephone.
- 12. Recode radio.
- 13. Resynchronize window settings.
- 14. Test function.

INSTALLING HANDSFREE MICROPHONE

- A. Model 129
- B. Model 140

A. Model 129

- 1. Place template on headliner panel, so that it touches the left edge of the dome lamp assembly. Mark location of mounting hole.
- 2. Remove dome lamp assembly.

3. Punch and drill a 5/8" hole in headliner panel. A forstner bit is highly recommended to avoid damaging the headliner panel.

Use caution so as not to damage any harnesses behind the panel.

4. Clip microphone onto mounting plate.
5. Install microphone pigtail through hole in headliner.
6. Place microphone and mounting plate against headliner and fasten by pressing retaining clip onto post.
7. Connect microphone pigtail to 3-pole pre-wire connector. Slide connector into channel closest to windshield, to left of dome lamp opening.
8. Reinstall dome lamp assembly.

A. Model 140

1. Place template over dome lamp assembly. Use left reading lamp switch as a guide. Mark location of mounting hole.
2. Remove dome lamp assembly and center-fill speaker.
3. Punch and drill a 5/8" hole in headliner panel. A forstner bit is highly recommended to avoid damaging the headliner panel.

Use caution so as not to damage any harnesses behind the panel.

4. Clip microphone onto mounting plate.
5. Place microphone and mounting plate against headliner and fasten by pressing retaining clip onto post.
6. Install microphone pigtail through hole in headliner.
7. Connect microphone pigtail to 3-pole pre-wire connector. Slide connector into space to left of dome lamp opening.
8. Reinstall dome lamp assembly and center-fill speaker.

INSTALLATION OF OPTIONAL REAR SEAT LIMO KIT

Model 140

1. Remove and verify contents of kit.
2. Remove left wheel well liner. Lower and open rear armrest.
3. Remove armrest liner and folding lid. There are eight (8) screws to remove; two on plastic hinge, two on front latch, two under the cup holders and two at rear of compartment.
4. Remove armrest lid and rear hinge from liner. Discard old armrest liner.

5. Measure and mark location on rear of replacement armrest liner. Measure in 40 mm from left side and 17 mm up from bottom. Drill a 13 mm hole. File down any rough edges.
6. Transfer armrest lid and rear hinge to replacement armrest liner.
7. On rear of plastic hinge, measure over approximately 23 mm from the left side and cut a 8 mm semi-circular relief to accommodate handset cord, as per figure.

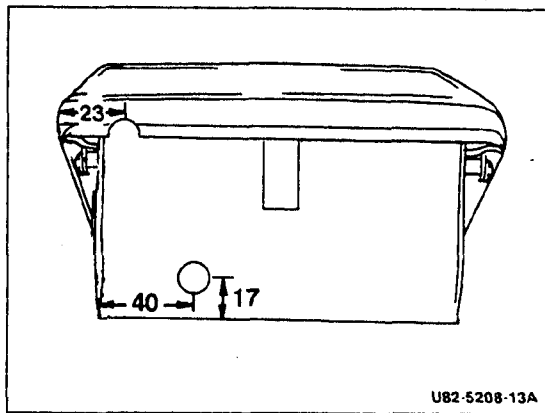


Figure 19

8. Locate two rear screw holes on underside of replacement armrest liner and carefully punch thru fabric. Enlarge holes in fabric using an awl.
9. Place template in armrest liner. Using an awl, punch four cradle mounting locations.
10. Drill four 4.5 mm holes. Clean rough edges and liner carpeting.
11. From underneath armrest liner, secure handset cradle using four M4x12 bolts.
12. Guide long handset cord thru opening in rear of liner. Leave one coil on outside of liner to keep cord in position. Install cut grommet into cable opening.
13. Secure liner to armrest with six screws; two at the plastic hinge, two at the front latch and two at the rear of the compartment.
14. Remove short handset cord from handset and discard.
15. Connect cord to handset. Place handset in cradle.
16. Remove rear bench cushion (job no. 91-170) or left rear seat cushion (job no. 91-173) on vehicles with four-place seating option.
17. Remove anodized trim on left side of rear seat.
18. Feed a thin guide wire from underneath the seat back(next to center seat belt buckle) into armrest opening.
19. Secure straight end of handset cord to guide wire and carefully pull back until cord reemerges by seat belt buckle.
20. Secure handset cord to cable tie next to seat belt buckle.

21. Route handset cord up to front of seat edge and along vacuum lines securing as necessary.

Note: Keep cord away from moving parts. Route cord with armrest in horizontal position to allow sufficient slack in cord.

22. Remove plastic cover by door sill. Connect 2 m cable to handset connector (arrow, Figure 20). Place connection under plastic cover and replace cover.

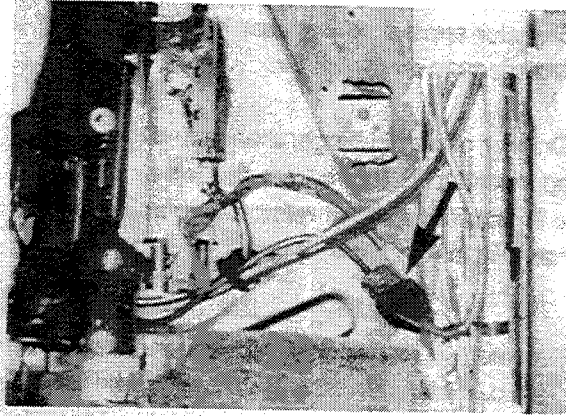


Figure 20

23. Route other end of cable up C-pillar under trim clips (arrows). At rear door latch level (upper arrow), route cable end into trunk using guide wire.



Figure 21

24. Continue to route cable along vacuum lines in left wheel well. Connector should emerge by the left rear wheel well housing ground (W6). Secure with cable ties as necessary.

25. Disconnect 12 pin data cable from transmitter – receiver. Connect data cable to any connection on junction box.

26. Connect 2 m cable to junction box.

27. Connect one end of 1.5 m cable to junction box. Connect other end to transmitter – receiver.

28. Secure with cable ties as necessary.

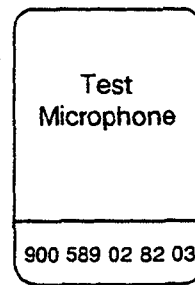
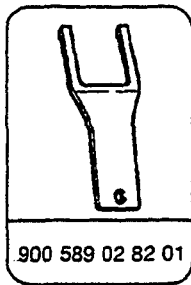
29. Test function of rear seat telephone.

Parts Information

Part Name	Application	Part Number / Exchange
Cellular telephone core kit (MBNA Core Pack III)	Models 129, 140	Q 6 82 0140
each kit contains:		
Transmitter – receiver		Q 6 82 0155 / Q 6 82 0156
In-dash controller (IDC)		Q 6 82 0148 / Q 6 82 0158
Handsfree microphone		Q 6 82 0153
Owner's Guide		S-2496-093
Cellular telephone installation kit (MBNA 129 Install Kit III)	Model 129	Q 6 82 0142
each kit contains:		
Handset with cord		Q 6 82 0073 / Q 6 82 0095
Cradle		Q 6 82 0074
Transmitter – receiver mounting bracket		Q 6 82 0077
IDC mounting bracket		Q 6 82 0149
Cradle bracket		Q 6 82 0080
Handset mounting plate		Q 6 82 0081
Transmitter – receiver junction box		Q 6 82 0086
Hardware kit		Q 6 82 0152
Antenna coax cable		Q 6 82 0091
Antenna adapter harness		Q 6 82 0165
Card & holder kit		Q 6 82 0087
Cellular telephone installation kit (MBNA 140 Install Kit III)	Model 140	Q 6 82 0143
each kit contains:		
Handset		Q 6 82 0147 / Q 6 82 0157
Cradle		Q 6 82 0145
Antenna adapter harness		Q 6 82 0165
Retention spring		Q 6 82 0144
Transmitter – receiver junction box		Q 6 82 0086
IDC mounting bracket		Q 6 82 0150
Hardware kit		Q 6 82 0151
Antenna coax cable		Q 6 82 0091
Coil cord		Q 6 82 0146
Card & holder kit		Q 6 82 0087
Rear seat limo kit	Model 140	Q 6 82 0118
each kit contains:		
Handset		Q 6 82 0119 / Q 6 82 0139
Cradle		Q 6 82 0130
Junction box		Q 6 82 0123
Handset cord		Q 6 82 0121
Hardware kit		Q 6 82 0132
1.5 m straight cable (male-male)		Q 6 82 0133
2 m straight cable (male-female)		Q 6 82 0131
Armrest liner		Q 6 92 0001

Recommended Labor Time

Description	Time	Model(s)
Cellular telephone, install (incl. NAM Programming)	1.5 hr.	129, 140

Special Tools**IMPORTANT!**

The Cellular Telephone Installation/Warranty Registration Card (S-2488-A92) **MUST BE FILLED OUT** and mailed to:

Mercedes-Benz of North America, Inc.
One Mercedes Drive
Montvale NJ 07645
Attn: Warranty Department

If the card is not filled out and mailed in, future warranty claims for the telephone will be denied.



Work Instructions

Date: November 1993

Group: 82

Number: 303

**SUBJECT: MODEL 124
INSTALLATION OF CELLULAR TELEPHONE SYSTEM**

INSTALLING TRANSMITTER/RECEIVER (TR)

- A. Model 124 Except 124.066/090
- B. Model 124.066
- C. Model 124.090

A. Model 124 Except 124.066/090

1. Unpack contents of installation kit and compare to parts list at end of work instructions. Read through entire work instruction procedure to familiarize yourself with sequence of instructions and parts. Remove Operating Guide from kit and place in Owner's Literature pouch.
2. Disconnect and cover negative battery terminal.
3. Remove trunk carpeting and left wheel well liner.
4. Measure 20 cm from sill to rear of TR bracket.
5. Trace footprint of bracket along liner. Using a utility knife carefully cut along the sides and bottom of liner making a flap. Fold liner back.
6. Punch and drill all three mounting holes using a 3 mm drill. Clean any metal shavings and apply zinc dust paint.
7. Place four pieces of rubber padding on top and bottom TR brackets.

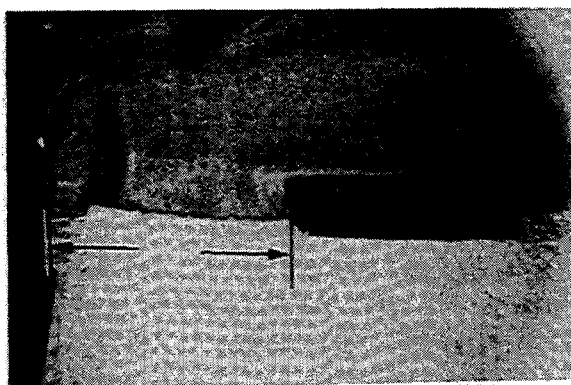


Figure 1

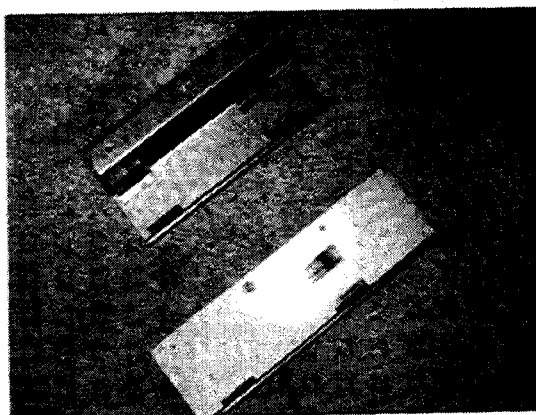


Figure 2

8. Locate and expose TR cable.
9. Connect one end of the antenna cable to the "Telefon" terminal on the antenna splitter. Route other end of antenna cable along TR cable.
10. Replace wheel well liner.
11. Secure lower bracket to trunk using only the center mounting location at this time.
12. Connect 25 pin transmitter connection and antenna cable to TR. Place TR in lower bracket ensuring that the 25 pin connector is against the trunk wall.
13. Connect loose end of antenna cable to TR.
14. Place top transmitter bracket over TR using center hole as a locator over secured screw ensuring that the long end of the top bracket hangs over the 25 pin connector. Secure with two M4x12 sheet metal screws.
15. Fold carpeting flap over bracket screws. Trim as necessary.
16. Replace trunk carpeting.

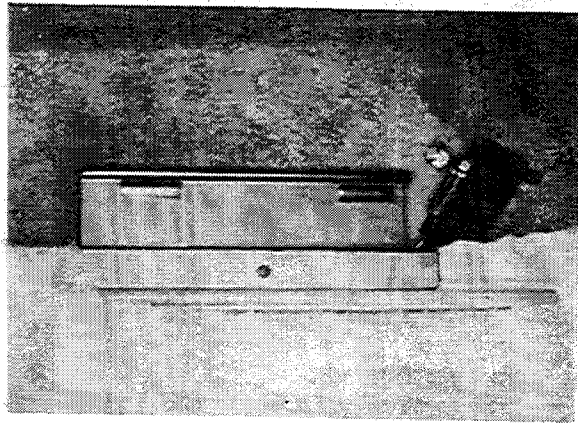


Figure 3

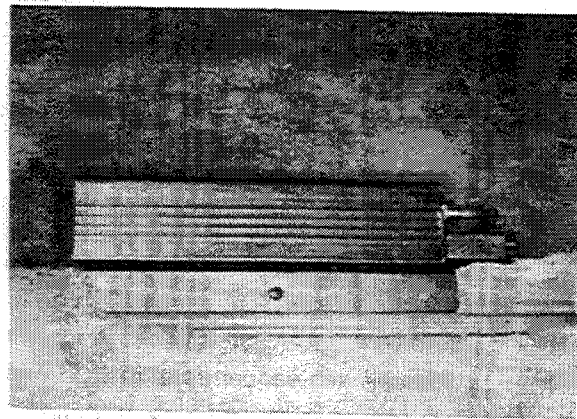


Figure 4

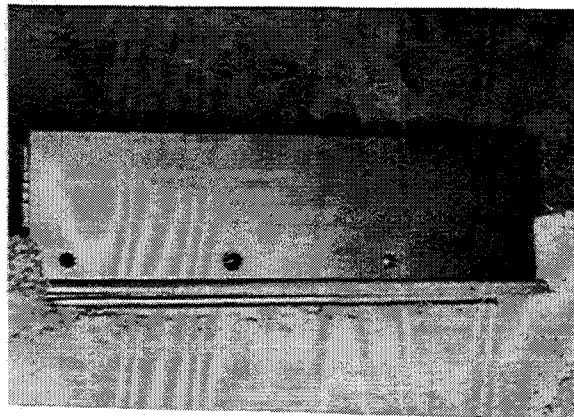


Figure 5

B. Model 124.066

1. Remove trunk carpeting, first aid kit.
2. Remove small piece of carpeting from right hand side of trunk (beneath first aid kit) to reveal TR bracket and harness (Figure 6).
3. Remove bracket by removing the two front bolts and loosening the third rear bolt (do not remove completely) and lift bracket up and out (Figure 6).

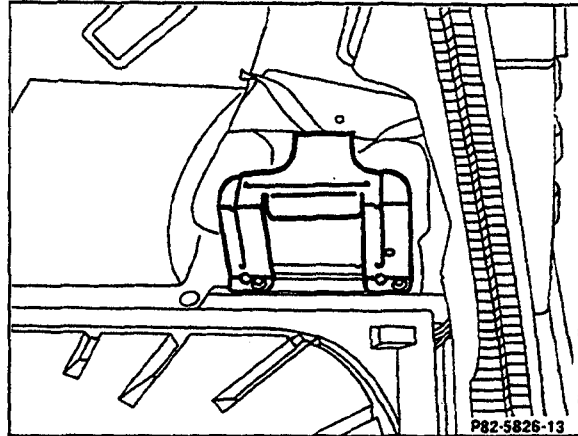


Figure 6

4. Connect antenna lead and 25 pin transmitter connection to TR (ensuring that the 25 pin connector is on top). Install TR and secure three bolts (Figure 7).
5. Reinstall carpeting over TR, first aid kit and trunk carpeting.

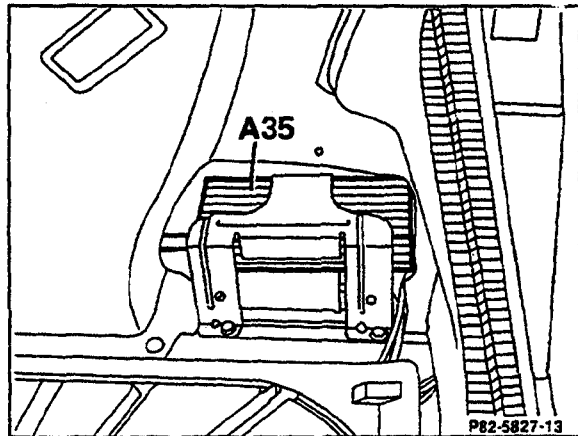


Figure 7

C. Model 124.090

1. Open right cargo compartment door.
2. Remove rear windshield washer reservoir. Disconnect electrical connection.

3. Guide TR bracket through reservoir opening. Position bracket in opening as depicted in Figure 8. Securely clamp bracket into place. The two semi-circular cut-outs on the bracket serve as locators for the mounting screws on panel. Position cut-outs over cargo panel mounting screws.

Dimensions:

- A. 2.0 mm
- B. 1.5 mm

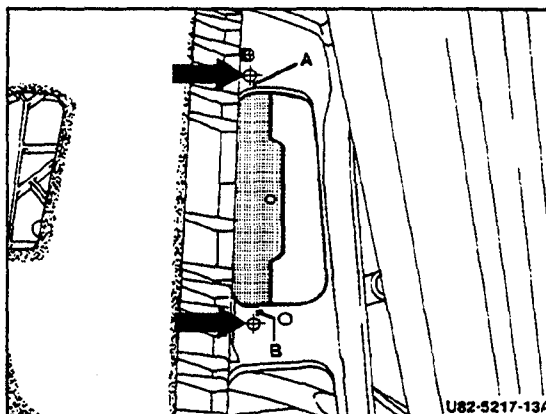


Figure 8

4. Punch and drill two 3 mm holes (arrows, Figure 8). Be certain that you drill through both the frame and the TR bracket. Remove clamp and bracket from opening. Enlarge holes to 4.5 mm. Remove any metal shavings and apply zinc dust paint to bare metal edges.
5. Place two rubber strips on the bottom and top TR brackets. Assemble bracket.
6. Install TR into bracket so that the TR connections will be facing the rear of the vehicle and that the harness pin connector is on top.
7. Connect one end of the antenna lead cable to the TR.
8. Guide TR/bracket assembly into place as per Figure 7 and secure using number 8 sheet metal screws. Ensure that the TR DOES NOT CONTACT THE FUEL FILLER NECK OVERFLOW HOSE.
9. Connect other end of antenna lead from TR to "telefon" connection of antenna splitter (guide cable under frame).
10. Connect harness connection to TR and secure with thumb screws.
11. Reconnect and install rear windshield washer reservoir.
12. Close cargo door.

Note: It may be necessary to remove some of the rib material in the area of the two fastening screws for the cargo door to close properly

INSTALLING HANDSET (HS)

1. Open armrest and remove plug from rear of compartment. Carefully drill out the two forward recesses using care not to drill into the threaded inserts (arrows, Figure 9).

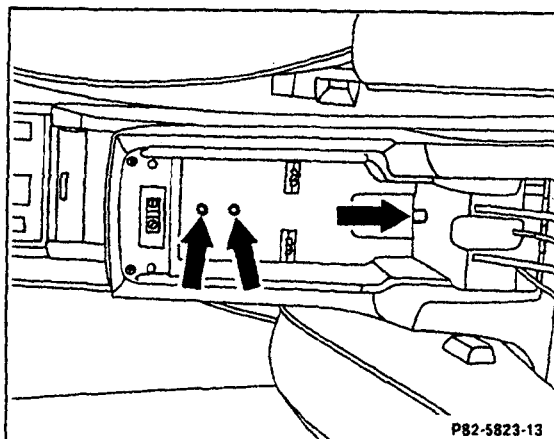


Figure 9

2. Attach coil cord retaining spring to notches on underside of spacer. Place spacer/spring to underside of cradle.
3. Attach cradle and spacer/spring to armrest using two M4x14 screws. Cover screws with rubber caps.

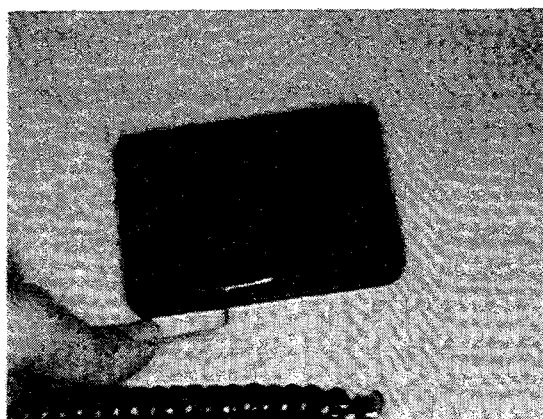


Figure 10

4. Remove protective cover from connector at rear of armrest.
5. Slide cord over spring, starting with the straight connector. Clip last coil onto the front end of the spring.
6. Connect handset connector to connector at rear of armrest.



Figure 11

INSTALLING HANDS-FREE MICROPHONE Model 124.066 Only

1. Remove dome lamp housing and rearview mirror.
2. Measure back 100 mm and cut a 3.5 mm semicircular opening into the driver's side of the housing to accommodate the microphone wire (Figure 12).

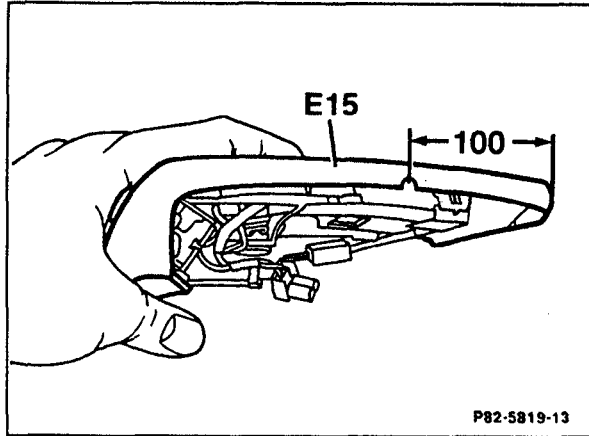


Figure 12

3. Measure over 30 mm from left edge of opening and carefully punch a small hole using an awl (Figure 13).
4. Attach microphone mounting plate to header trim piece with screw.

Use caution so as not to damage any harnesses behind the trim piece.

5. Slide microphone onto bracket. Connect microphone connector to harness.
6. Reconnect reading lamp connectors and in-car temperature sensor connection.
7. Route microphone harness behind lamp housing (Figure 14).

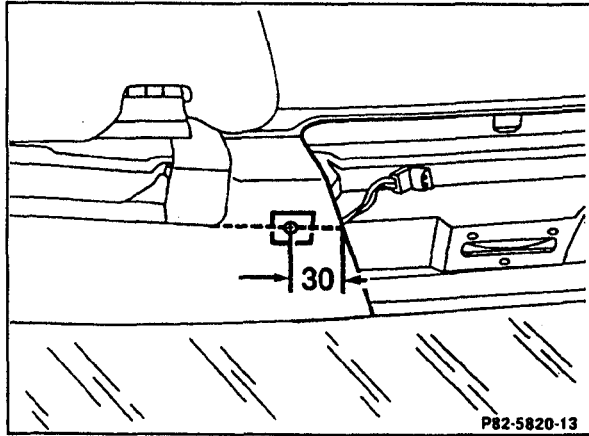


Figure 13

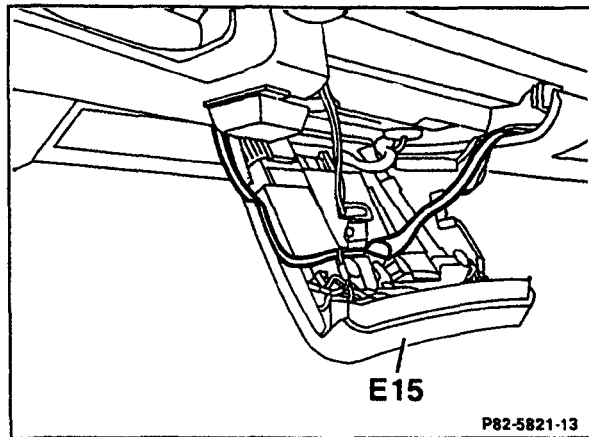


Figure 14

8. Reinstall dome lamp housing and rearview mirror.

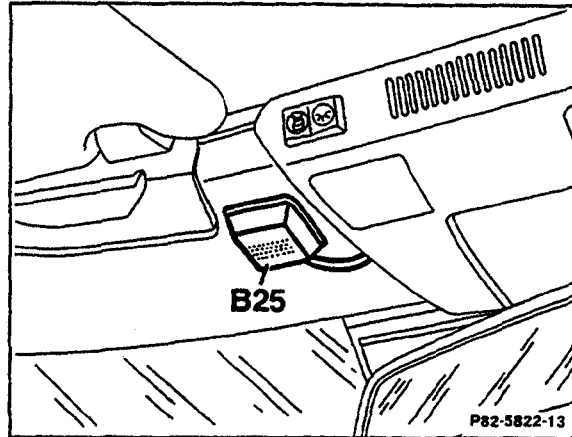


Figure 15

INSTALLING OVERHEAD CONTROLLER

All Models except 124, 666

1. Remove interior rearview mirror.
2. Remove mirror bracket and discard third sun visor assembly (model 124 only).
3. Remove and disconnect dome lamp.
4. Mark center of dome lamp opening on headliner. Locate and mark measurements according to templates in kit. **Note:** Proper location of template is important for correct location of Overhead controller (OHC).
5. Drill three 5.0 mm pilot holes. Enlarge center hole to 19 mm. **Note:** Use caution when drilling to avoid the wires behind the headliner.
6. Place mounting bracket inside dome lamp opening with retaining nipples pointing upwards.
7. Disassemble OHC by removing the two T10 screws on the back. Place rear plate of OHC into position on headliner so that it lines up with the bracket. Secure rear plate to bracket with screws (arrows, Figure 16).
8. Guide connector from OHC through large center opening of rear plate. Remove tape from foam tube, connect overhead controller connector to vehicle harness and re-tape foam tube (Figure 16). Secure front housing of overhead controller to rear plate with two T10 screws (from previous step).

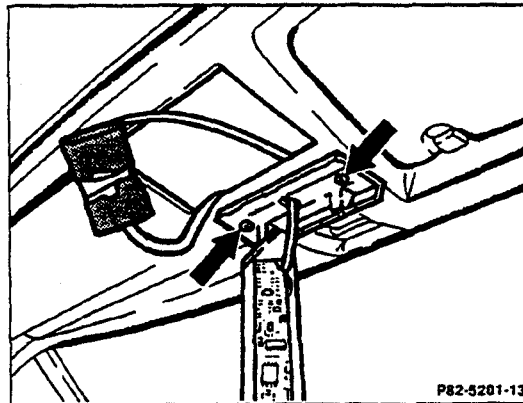


Figure 16

9. Reconnect and install dome lamp.
10. Reinstall interior rearview mirror bracket.
11. Reinstall interior rearview mirror.

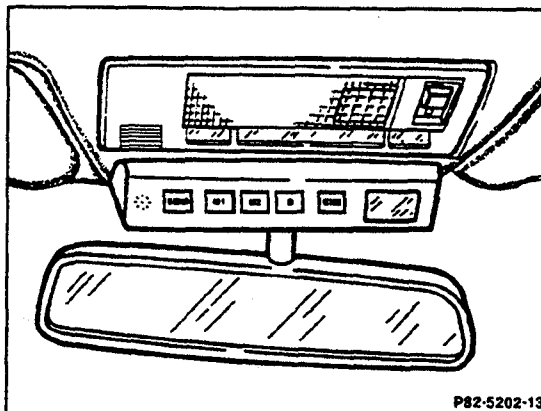


Figure 17

12. Reconnect negative battery terminal.
13. Program telephone.
14. Recode radio.
15. Test function.

Note: To avoid disconnecting a call when replacing the handset in the cradle, in order to use the handsfree speaker, the "Hang-up Off" feature (as described in the Operation Guide) must be enabled.

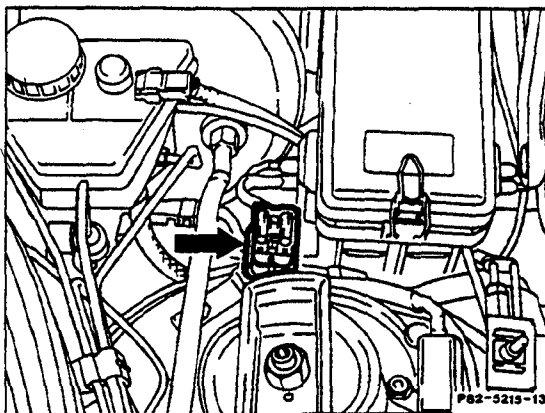


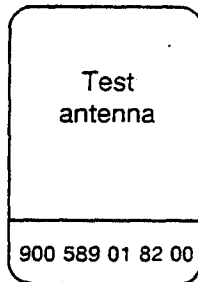
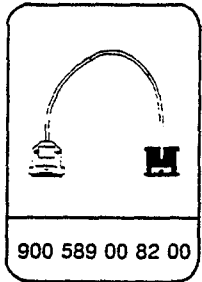
Figure 18

Parts Information MY 1994

Part Name	Application	Part Number / Exchange
Cellular telephone kit (MBNA version II)	W/C 124	Q 6 82 0112
each kit contains:		
Transmitter – receiver		Q 6 82 0050 / Q 6 82 0063
Handset		Q 6 82 0051 / Q 6 82 0064
Handset mounting kit		Q 6 82 0170
OHC		Q 6 82 0052 / Q 6 82 0065
OHC installation kit		Q 6 82 0053
Cradle		Q 6 82 0054
Antenna coax cable		Q 6 82 0055
Transmitter – receiver mounting bracket		Q 6 82 0126
Hardware set		Q 6 82 0136
Owner's Guide		S-2495-092
Cellular telephone kit (MBNA version II)	124.066	Q 6 82 0111
each kit contains:		
Transmitter – receiver		Q 6 82 0128
Handset		Q 6 82 0051 / Q 6 82 0064
Handset mounting kit		Q 6 82 0170
Cradle		Q 6 82 0054
Hands-free microphone		Q 6 82 0129
Microphone mounting plate		
Hardware set		Q 6 82 0136
Owner's Guide		S-2495-092
Cellular telephone kit (MBNA version II)	124.090	Q 6 82 0113
each kit contains:		
Transmitter – receiver		Q 6 82 0050 / Q 6 82 0063
Handset		Q 6 82 0051 / Q 6 82 0064
Handset mounting kit		Q 6 82 0170
OHC		Q 6 82 0052 / Q 6 82 0065
OHC installation kit		Q 6 82 0053
Cradle		Q 6 82 0054
Antenna coax cable		Q 6 82 0055
Transmitter – receiver mounting bracket		Q 6 82 0127
Hardware set		Q 6 82 0136
Owner's Guide		S-2495-092

Recommended Labor Time

Description	Time	Model(s)
Cellular telephone, install (incl. NAM Programming)	1.5	124

Special Tools**IMPORTANT!**

The Cellular Telephone Installation/Warranty Registration Card (S-2488-A92) **MUST BE FILLED OUT** and mailed to:

**Mercedes-Benz of North America, Inc.
One Mercedes Drive
Montvale NJ 07645
Attn: Warranty Department**

If the card is not filled out and mailed in, future warranty claims for the telephone will be denied.



Work Instructions

Date: November 1993

Group: 82

Number: 304

**SUBJECT: MODEL 202
INSTALLATION OF CELLULAR TELEPHONE SYSTEM**

INSTALLING TRANSMITTER/RECEIVER (TR)

1. Unpack contents of installation kit and compare to parts list at end of work instructions. Read through entire work instruction procedure to familiarize yourself with sequence of instructions and parts. Remove Operating Guide from kit and place in Owner's Literature pouch.
2. Disconnect and cover negative battery terminal.
3. Locate slots on driver's side of hatshelf panel, forward of speakers.
4. Insert tabs from main TR bracket into slots.
5. Slide tinnerman nut over hole in hatshelf.

Note: Some early installation kits may not include the tinnerman nut and screw. In those cases use nut 000 994 64 45.

6. Fasten TR bracket foot to hatshelf using 6x10 screw.

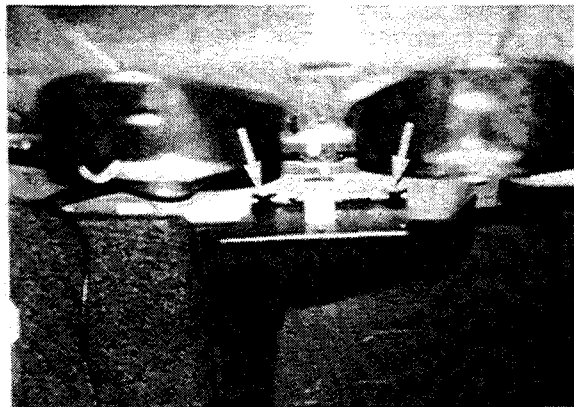


Figure 1

6. Mount four adhesive rubber strips to u-shaped TR bracket.
7. Position TR in u-shaped bucket with antenna connector on top.
8. Connect TR/bracket assembly to main TR bracket using T15 screws provided. Ensure that antenna connector is on top.

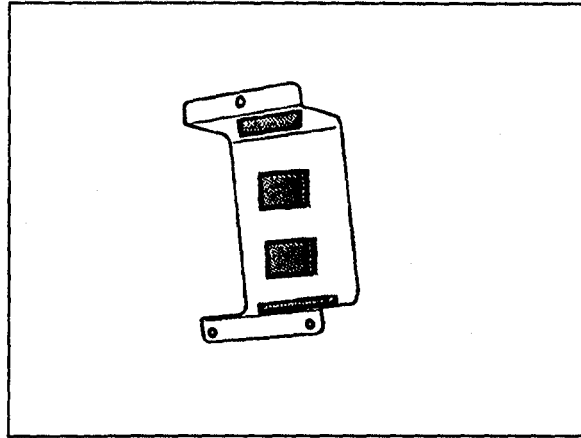


Figure 2

9. Connect one end of antenna cable to connection on antenna splitter. Route cable behind side panel sheet metal until it exits through the oblong opening near the TR. Secure other end of cable to antenna connection on TR.
10. Locate telephone harness, connect to TR and secure with thumbscrews on connector. Secure telephone harness to existing harnesses above TR unit with cable ties.

INSTALLING HANDSET (HS)

11. Open main armrest compartment. Locate two small knockouts on underside of tray and punch out. Close main compartment and open lid to smaller telephone compartment. Remove oblong knockout at rear of compartment.
12. Insert plugs into two holes on topside of cradle. Press plugs in firmly so that they do not interfere with the handset.
13. Open main armrest compartment and fasten cradle from underneath using two M4x15 torx screws. Cradle must be positioned completely forward in compartment.

14. Route handset cable thru oblong opening.
15. Open main compartment. Locate cover in rear of compartment. Open cover, connect handset connector to fixed connector. Route coil cord along recess so that it exits on right side opening. Close cover.

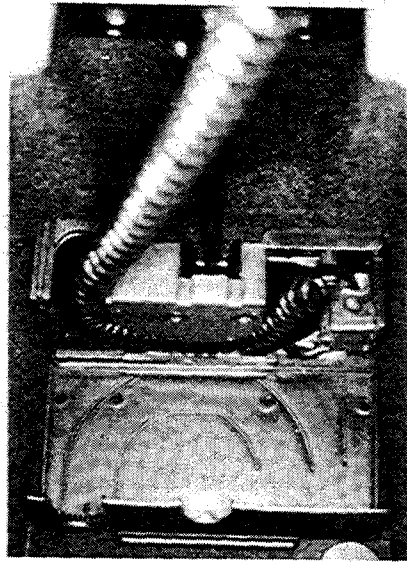


Figure 3

INSTALLING MICROPHONE

16. Remove rearview mirror.
17. Remove dome lamp assembly (SMS, Electrical systems, Job no. AR82.20-0110E).
18. Measure and mark hole locations as per dimensions in illustrations.
19. Using microphone base as a template, carefully punch hole locations.

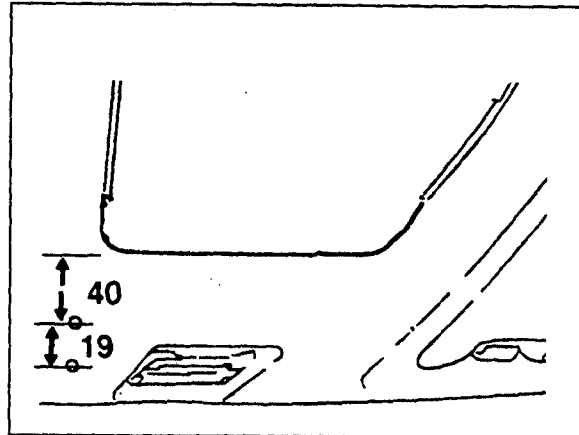


Figure 4

20. Enlarge forward hole (towards windshield) to 6 mm so that the microphone connector can pass through. Pass microphone connector and cable thru enlarged opening. Secure microphone base to headliner with 3x10 scrow. Fasten back of scrow with with speed nut. Pull microphone cable completely thru opening. Snap microphone cover to base.
21. Connect one end of pre-amp cable (wrapped in anti-static foam) to microphone cable, the other end to the vehicle cable.
22. Reinstall dome lamp and rearview mirror.

INSTALLING IN-DASH CONTROLLER (IDC)

23. Remove shift lever cover (SMS, Body-assembly jobs, Job no. AR68.20-2310E).
24. Remove ashtray housing (SMS, Body-assembly jobs, Job no. AR68.20-2400E).
25. Locate two vehicle harness connector for IDC, connect cables. Ensure that molex connector is correctly positioned (ie. connector tab goes over connector ridge).
26. Slide IDC into cassette opening from behind until it snaps into place.
27. Reinstall IDC/ashtray housing and shift lever cover.
28. Reconnect negative battery terminal.
29. Program telephone.
30. Test function.

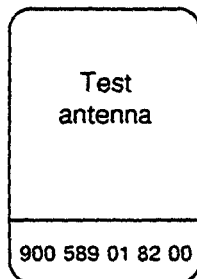
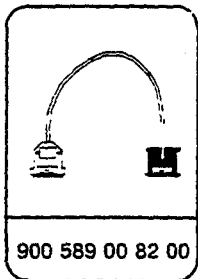
Note: To avoid disconnecting a call when replacing the handset in the cradle, in order to use the handsfree speaker, the "Hang-up Off" feature (as described in the Operation Guide) must be enabled.

Parts Information

Part Name	Application	Part Number / Exchange
Cellular telephone installation kit	Model 202	Q 6 82 0168
each kit contains:		
Handset with cord		Q 6 82 0051 / Q 6 82 0064
Cradle		Q 6 82 0170
Transmitter – receiver		Q 6 82 0050 / Q 6 82 0063
Transmitter – receiver mounting bracket		Q 6 82 0169
In-dash controller		Q 6 82 0171 / Q 6 82 0172
Handsfree microphone		Q 6 82 0177
Tinnerman nut		000 994 64 45

Recommended Labor Time

Description	Time	Model(s)
Cellular telephone, install (incl. NAM Programming)	1.5 hr.	202

Special Tools**IMPORTANT!**

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