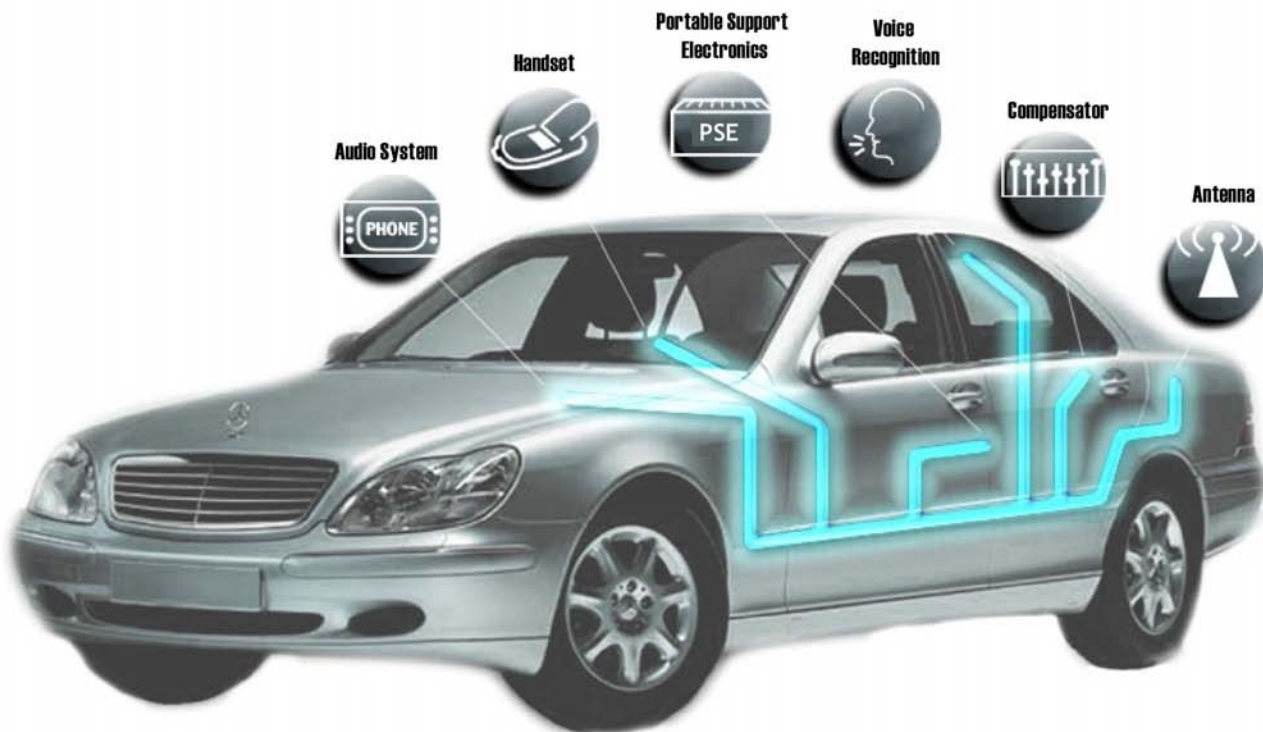




Mercedes-Benz

Mercedes-Benz MY 2000-2005 Telephone Manual

Version 4.6



MOTOROLA

1.0 General Section

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1.1 Purpose

This manual was written to familiarize the Mercedes-Benz Service Technician with the telephone system designed by Motorola for Mercedes-Benz MY00 thru MY05 vehicles. It is recommended that this training manual be reviewed prior to performing the installation of the telephone package. This document is not an installation guide or procedure, a separate Mercedes-Benz manual has been created for that purpose. However, basic troubleshooting charts are included as a part of this document to assist in correcting problems that may occur.

1.2 Introduction to the Telephone Package (Motorola Digital Phone)

Prior telephone systems that have been installed in Mercedes-Benz vehicles have used only 800MHz analog technology. The MY00 uses the 800MHz analog/digital and MY01/05 uses 1900MHz digital in addition to 800MHz analog/digital. MY00 thru MY04 telephone packages use CDMA or TDMA protocols and, MY05 vehicles offer the option of GSM as a third protocol depending on the model selected for installation, which will be determined by the customer and/or carrier availability. Additionally, the telephone package has the ability to automatically default to an analog signal if a digital signal is not available, or is too weak to provide a quality conversation.

The telephone package allows calls to be made and received without taking your eyes off the road or your hands off the steering wheel. This is accomplished by integrating the phone with the multifunction controls located on the sides of the steering wheel (if equipped) and through Voice Recognition (if equipped). Displays on the MCS, Audio 30 or COMAND relay information, such as, numbers stored in the handset's memory, signal strength, etc. Refer to the K2OPTION owner's manual for details on the various features of this system.

1.2.1 CDMA, TDMA and GSM Protocols

CDMA is an acronym for Code Division Multiple Access. It is one of several methods of providing digital cellular service. CDMA imposes several digital signal patterns, one pattern per conversation, on a single carrier frequency. The communication link (conversation) is kept separated from other links by the ability of the telephone to only recognize its assigned signaling pattern (code). CDMA technology is popular because it provides for a large number of communication links on a single carrier frequency, but one of its drawbacks is that as more links are established, distortion and interference increases.

TDMA stands for Time Division Multiple Access, and is another method of providing digital cellular service with multiple links (conversations) on the same carrier frequency. It differs from CDMA in that it uses slots of time for each link. Each time slot repeats continuously at a predetermined rate or speed. Samples of each link are taken at the same rate and mixed with the carrier frequency, each in its turn. On the receiving end, the receiver selects the data from the time slots of the assigned communication link,

and then filters the data to provide a good representation of the original information.

GSM stands for Global System for Mobile Communication, and is similar to both CDMA and TDMA protocols in that it also provides digital cellular service with multiple links (conversations) on the same carrier frequency. Like both CDMA and TDMA, GSM uses its own unique method of transmitting conversation wirelessly. GSM is based on the platform of TDMA, but a more robust method when utilizing the timeslots allotted for the milliseconds of data needing to be transferred/received. GSM is also unique in that it utilizes a 'smart card' called Subscriber Identity Module (SIM) allowing for easy portability between different GSM handsets. GSM handsets are not identified like both CDMA and TDMA handsets by using an Electronic Serial Number (ESN); instead it is uniquely identified by the International Mobile Equipment Identity (IMEI).

The type of digital handset that will be installed into the vehicle will be contingent upon the local carrier's signal processing capabilities. Some carriers only use CDMA protocols whereas others may only use TDMA or GSM. It is possible in some areas for the customer to have a choice of all three protocols to use when carriers in the same cellular coverage area offer CDMA technology while others offer TDMA or GSM technologies. Some carriers are requiring special 'un-lock codes' for handsets that are to be used in their coverage area and on their systems. It is important to be aware of this in the event that you experience trouble with activating the phone. More information regarding these codes is available through the carrier, which the handset is being activated on. Refer to the Mercedes-Benz/Motorola website (www.mbconnectedcar.com) or Motorola's Customer Support at 877-668-8600 for carrier contact numbers.

1.2.2 CDMA, TDMA and GSM Handset Descriptions

The CDMA StarTAC and Timeport handsets have three partially blue keys with an icon that represents a "soft key" function. Soft keys are keys that change their function according to what is being displayed on the screen for a particular function. These keys are located on the fifth row of the keypad and are on the "RCL", "STO", and "CLR" keys.

Another way to differentiate between a TDMA and CDMA handset is to compare the displays. The CDMA handset uses the OELD (Organic Electro Luminescent Display, Timeport only). The TDMA handset uses 5-line LCD dot-matrix display. The TDMA Timeport and v.60t handsets have a fixed antenna compared to the traditional extendable antenna on both of the StarTAC's and CDMA Timeport and v.60c. The CDMA phones and TDMA v.60t indicates that the user is in digital mode by displaying a "D" inside a square border on the left side of the display, vs. a "D" with no border in the lower left hand corner of the TDMA StarTAC and Timeport handsets. When in analog mode, the StarTAC and Timeport CDMA handsets display an "A" inside a circle; the StarTAC and Timeport TDMA handsets are in analog mode when no "D" is present in the lower left corner of the display. When both the CDMA v.60c and TDMA v.60t are in analog mode an "A" is present inside a square, instead of a "D". GSM handsets use a removable 'smart card' known as SIM, which is found under the battery. Other detailed differences can be found in the owner's manual for the specific handset functions.

In addition to the above criteria, there will be a separate part number for each type of handset. Reference the Mercedes-Benz/Motorola website for part numbers and availability according to zip code.

1.2.3 Phone Activation/Programming

The programming procedure for a CDMA handset is not the same as a TDMA handset. There are also programming differences between StarTAC/Timeport and v.60 procedures. Refer to following programming card appropriate for the desired handset being programmed.

NOTE 1: ANY PROGRAMMING OF HANDSETS REQUIRING AN 'UN-LOCK CODE' NEED ADDITIONAL ASSISTANCE FROM THE CARRIER SPECIFIED BY THE HANDSET.

NOTE 2: PROGRAMMING / ACTIVATION FOR HANDSETS RELEASED AFTER THE V60I SERIES PHONE ARE FULLY SUPPORTED BY THE CARRIER SUPPLYING CELLULAR SERVICE TO THE PHONE.

CDMA StarTAC/TIMEPORT PROGRAMMING CARD

	TO	ENTER	PHONE DISPLAYS
1	Enter NAM 1 programming mode	PRESS 7, 4, 6, 6, 3, #, 1, FCN, FCN	<i>Enter MIN</i>
2	Enter Your Phone Number	Use the keypad to enter all ten digits of your phone number and press "STO"	Sample Number: 312-555-1212
3	Enter AMPS System ID (Analog)	Enter _____. Press "STO"	Sample Number: 11111
4	Enter Digital System ID	Enter _____. Press "STO"	Sample Number: 11111

TDMA StarTAC/TIMEPORT PROGRAMMING CARD

	TO	ENTER	PHONE DISPLAYS
1	Enter programming mode	PRESS "#", Carrier System ID, "#", "*", "SEND"	<i>Nam 1 Prog</i> <i>*= Yes #= No</i>
2		PRESS "*"	<i>Security Code</i> _____
3	Enter Security Code	PRESS 0, 0, 0, 0, 0, 0 (This is the code that is in the phone when it is shipped out of the factory)	Phone displays its ESN (Electronic Serial Number)
4		PRESS "SEND"	Phone # -----
5	Enter Phone Number	ENTER Entire Phone Number (____) _____	
		PRESS "SEND"	<i>NAM Program Begins</i>

CDMAv.60c PROGRAMMING CARD

	TO	ENTER	PHONE DISPLAYS
1	Enter Programming Mode	PRESS 7, 4, 6, 6, 3, #, MENU, MENU	<i>Nam 1</i> <i>Nam 2</i>
2	Selecting NAM	CHOOSE "SELECT" for NAM 1	<i>MIN: 0000000000</i>
3	Enter Phone Number	INSERT 10-digit MIN through the keypad and SELECT "OK" (This is the customers cellular number)	<i>IMSI</i>
4	Enter AMPS system ID	SCROLL down to AMPS Sys ID and INSERT number then SELECT "OK" (AMPS data provided by carrier)	<i>CDMA Sys ID:</i>
5	Enter CDMA system ID	INSERT CDMA Sys ID then SELECT "OK" (CDMA data provided by carrier)	<i>MIN:</i>
6	Finalizing Programming	SELECT "DONE" then PRESS the "END" key	<i>Main Menu</i>

TDMA v.60t PROGRAMMING CARD

	TO	ENTER	PHONE DISPLAYS
1	Enter Programming Mode	PRESS #, Carrier System I.D., #, *, "SEND"	<i>Enter Security Code</i> -----
2	Enter Security Code	PRESS 0,0,0,0,0,0, and SELECT "OK" (This is the factory default code)	<i>ESN (Hex)</i>
3	Enter Phone Number	SCROLL down to MIN: ----- and INSERT 10-digit MIN through the keypad and SELECT "OK" (MIN is the customer cell number)	<i>IMSI</i>
4	Finalizing Programming	SELECT "DONE" (the handset display will turn off temporarily)	<i>Main Menu</i>

1.3 Telephone System Components

The Motorola integrated telephone packages from MY2000 thru MY2005 consist of the following components:

KEY: '1' = PSE/D2B Components, '2' = CP/MOST Components, '3' = MHI/MOST Components

- Antenna Switch (Splitter for SL only) – **1, 3**
- Coil Cord – **1, 2**
- Compensator – **1, 2, 3**
- Communication Platform Module - **2**
- D2B Wiring – **1**
- MOST Wiring – **2, 3**
- Motorola Cellular Telephone
(CDMA, TDMA or GSM with Mercedes-Benz Logo and Software) – **1, 2, 3**
- Multiple Handset Interface Module (MHI) - **3**
- Phone Cradle – **1, 2, 3**
- Portable Support Electronics Module (PSE) – **1**
- Voice Recognition Module (Optional Kit on Some Models) – **1, 2, 3**
- “Y” Cable – **1**

The components of the telephone package between MY2000 and MY2001 are not compatible or interchangeable due to the technological differences between the two systems. The MY2000 telephone package is 800MHz only and cannot support the MY2001 telephone package components, which are 1900MHz in addition to the 800MHz.

Figures 1 thru 10 of the StarTAC/Timeport Block Diagram provide illustrations of the telephone package component layout for the MY2000/01 S-Class (W220, C215), CLK (A208, C208), E-Class (W210, S210), SL (R129), C-Class (W203), SLK (R170), and M-Class (W163) MY2000 & MY2001 Mercedes-Benz when utilizing the PSE module and D2B system. Figures 1 thru 9 of the v60 Block Diagram provide illustrations of the telephone package component layout for the aforementioned Classes reflecting MY2002/04 when utilizing the PSE module and D2B system. Figures 1 thru 6, 9 of the CP Block Diagram provide illustrations of the telephone package component layout for the MY2003/04 E-Class (BR211) and MY2004 S-Class (BR220), CL-Class (BR215) and Maybach (BR240) when utilizing the CP module and MOST system. Figures 1 thru 6, 8, 9 of the MHI Block Diagram provide illustrations of the telephone package component layout for all the MY2005 vehicle chassis when supported by the MHI module and MOST system. These drawings and components are discussed in greater detail beginning with section 3.1.

1.3.1 Phone Cradle

The MY2001 phone cradle is similar in appearance to the MY2000 phone cradle, except that it has been modified to accommodate the Motorola Timeport™ handset. The MY2002/04 phone cradles clip into the cradle base for full integration and is removable allowing for ease of use in private mode. The cradle

version accepting the v60s utilizes two different ‘cradle clips’ depending on the phone used. One cradle clip is used for the v60s handset, whereas a second cradle clip is used for both the v60i and v60x. The pictures below point out the physical differences between the two clips. The MY2005 phone cradle has a couple of differences compared to the prior ones. The MY2005 cradle is not removable; instead the phone is snapped into the cradle for a secure fit, while using the fully integrated hands-free system. The MY2005 cradle also contains a circuit board enabling a more intelligent connection between the handset and the vehicle system. All the phone cradles are located between the front seats in the console.



1.3.2 Microphone

The microphone for MY2000/04 is located in the headliner near the rear view mirror and is labeled as number 10 in each block diagram. MY2005 vehicles use a microphone array consisting of four microphones evenly distributed across the headliner in front of the windshield and is labeled as number 10 in the MHI block diagram. For all the vehicles, the microphone will be installed at the factory. A connector in the headliner attaches to the microphone assembly (microphone array for MY2005) and ties into the Mercedes-Benz pre-wired harness. Vehicles utilizing the PSE module and D2B system will connect to Motorola’s “y” cable before connecting to the PSE, vehicles utilizing either the CP or MHI modules and MOST system will run directly to the respective control modules.

1.3.3A Portable Support Electronics Module (PSE)

The PSE box for the telephone package contains the software and associated electronics that are responsible for processing the voice data as well as the central processing of data to allow the integration of the phone with the vehicle. MY00, MY01, and MY02/04 PSE boxes are not the same internally. MY00 is 800MHz analog/digital. MY01 and MY02/04 are both 1900MHz digital in addition to 800MHz analog/digital. Only MY02/04 PSE supports either Timeport or v.60 systems with appropriate coil cord, cradle, and handset.

Note: Labeling for the MY00 and MY01 PSEs will have white barcodes. Labeling for the MY02/04 PSEs will have blue barcodes.

1.3.3B Communication Platform Module (CP)

The CP modules were first introduced on the MY2003 E-Class (BR211) and later on the MY2004 S-

Class (BR220), CL-Class (BR215) and Maybach (BR240). The CP module for the telephone package contains the PSE box supporting the software and associated electronics for the integration of the handset to the vehicle. The CP module also contains the Tele-Aid module supporting the emergency notification system in the vehicle.

1.3.3C Multiple Handset Interface Module (MHI)

MHI was introduced on the MY2005 vehicles across all chassis except for Maybach, which still utilizes the CP module. The MHI module is similar to the PSE module in that it supports the portable phone's initial integration for the telephone package into the vehicle system, but communicates using the MOST vehicle bus instead of the D2B vehicle bus. The MHI system is designed to be forwards-compatible with future portable phones (the user only needs to change the cradle in order to upgrade to new portables in the future). The MHI also has integrated software to perform the Hands-free Audio function, such that the Microphone Array Module from AKG is no longer required to be part of the system.

1.3.4 Handset

A Motorola Digital handset is used for the telephone system. Although the Digital handset is available as a portable phone sold separately by various vendors, it will not interface with the Mercedes-Benz vehicle. Only handsets that are part of the telephone package will interface with the Mercedes-Benz vehicle. They can also be used as a portable cellular phone when not interfacing with the vehicle. The three types of handsets available for the telephone package are digital TDMA, CDMA or GSM, which will be determined by the customer and/or carrier availability. Refer to section 1.2.1 and 1.2.2 of this manual and the appropriate user manual for a full description of each handset and a detailed explanation of CDMA, TDMA and GSM technologies. The customer will have the option to purchase more than one handset that can also be integrated with the same vehicle, but only one handset can be integrated at any time.

1.3.5 Compensator

The compensator is used to "compensate" for the small amount of power that is lost as a result of the extra RF cable needed to send or receive the signal through the vehicles antenna. The compensator is not a booster when in digital or analog modes. Refer to section 4 for a complete layout and description of the RF path, which includes the compensator.

~ The voice activation feature interfaces with the telephone package. It is treated as a separate system and is not covered in this manual.

2.0 Electrical Connectors and Wiring Section

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[2.4 MHI Layout and Schematics](#)

2.1 [StarTAC/Timeport Connectors and Schematic Key](#)

2.1.1 StarTAC/Timeport Block Diagram (All classes except M class)

2.1.2 StarTAC/Timeport M-class Block Diagram

2.1.3 StarTAC/Timeport Y Cable Connector Pin-out (all classes except M class)

2.1.4 StarTAC/Timeport Wiring Diagram (all classes except M class)

2.1.5 StarTAC/Timeport M-class Y Cable Connector Pin-out

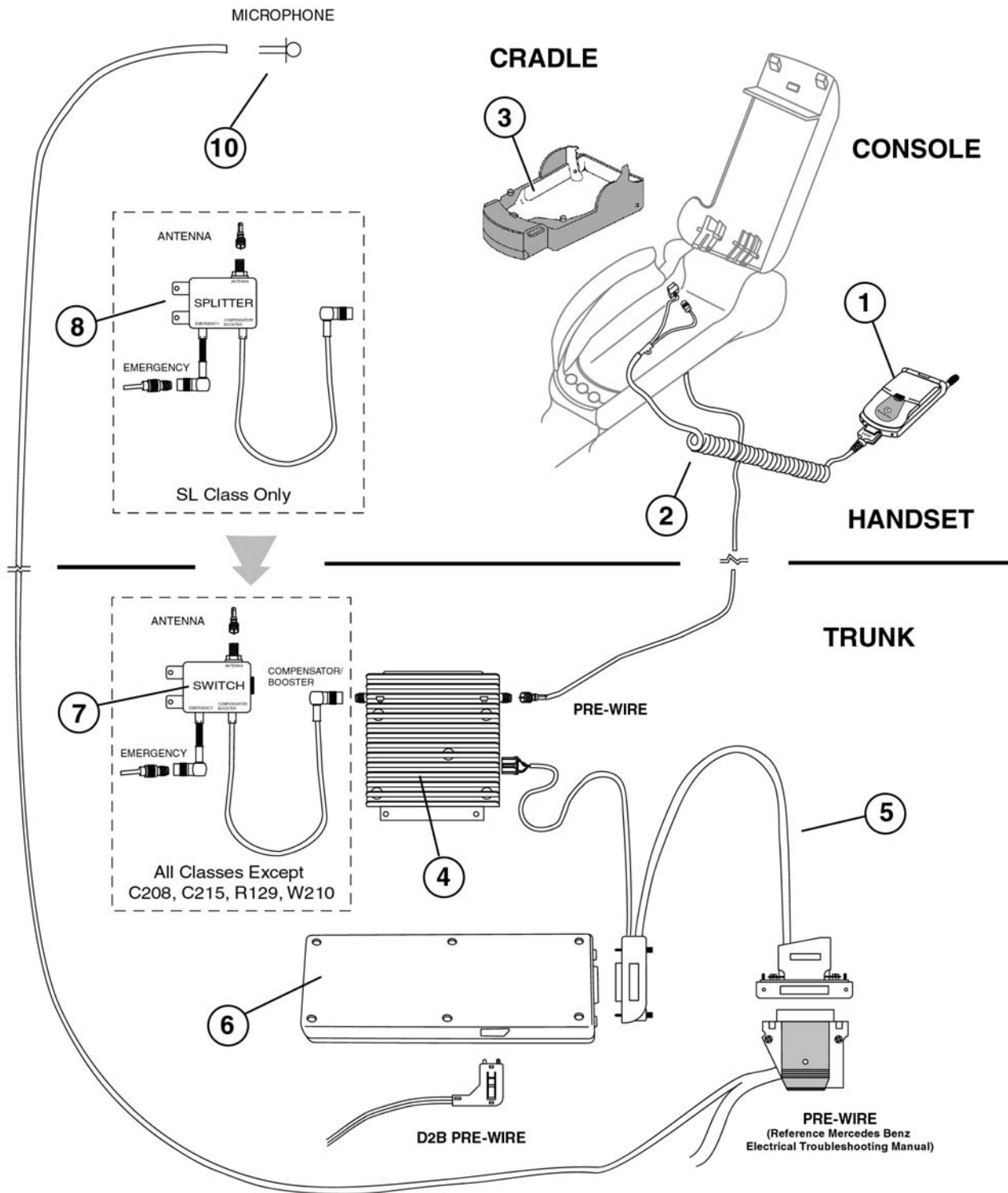
2.1.6 StarTAC/Timeport M-class Wiring Diagram

2.1.7 StarTAC/Timeport Coil Cord Pin-out

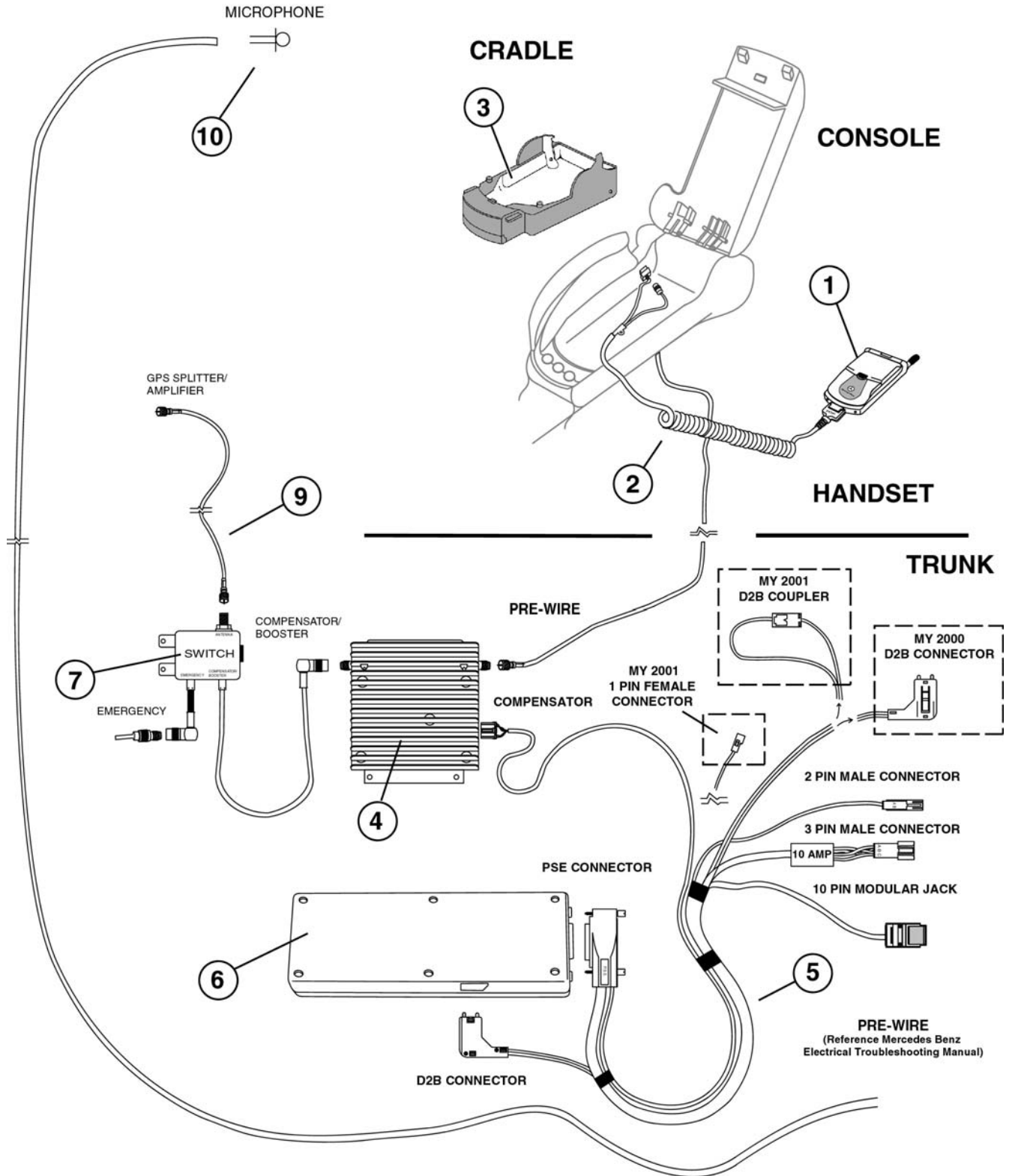
2.1 StarTAC/Timeport Connectors and Schematic Key

Ref. No.	Component Name	Page Reference		Part No.
		Desc.	Pin-out	
1	MY00 StarTAC Handset	3	21	Reference Website: www.mbusaphones.com
	MY01/02 Timeport Handset	3	21	
2	Coil Cord	N/A	21	Q6820464: (W220, C215, R129, W203, R170, W163)
				Q6820465: (A208, C208, W210, S210)
3	Cradle	11	N/A	MY00: Q6820459
				MY01/02: Q6820649
4	MY00 Single Band Compensator	12	17, 19	MY00: Q6820525
	MY01/02 Dual Band Compensator	12	17, 19	MY01/02: Q6820657
5	“Y” Cable (All Classes except M Class)	N/A	17	Q6820468
	M Class “Y” Cable		19	MY00: Q6820469 MY01/02: Q6820672
6	Portable Support Electronics (PSE)	12	17, 19	MY00: Q6820460
				MY01/02: Q6820648
7	Single Band Antenna Switch	N/A	17, 19	MY00: Q6820430
	Dual Band Antenna Switch		17, 19	MY01/02: Q6820652
8	Antenna Splitter (SL only)	N/A	17	MY01/02: Q6820675
9	GPS Splitter Coax (M-Class Only)	N/A	19	MY00: Q6820470
				MY01/02: Q6820674
10	Microphone	12	17, 19	See Mercedes-Benz Dealer

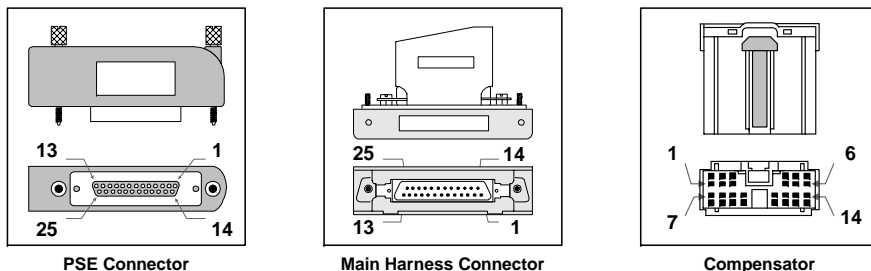
2.1.1 StarTAC/Timeport Block Diagram (All Classes Except M Class)



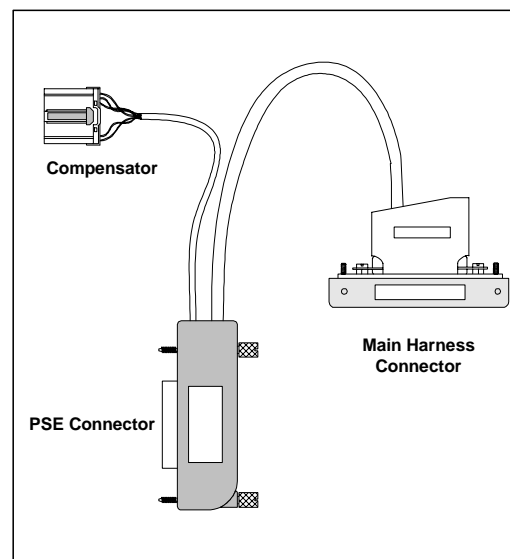
2.1.2 StarTAC/Timeport M-Class Block Diagram



2.1.3 StarTAC/Timeport "Y" Cable Connector Pin Out Diagrams (All Classes Except M-Class)

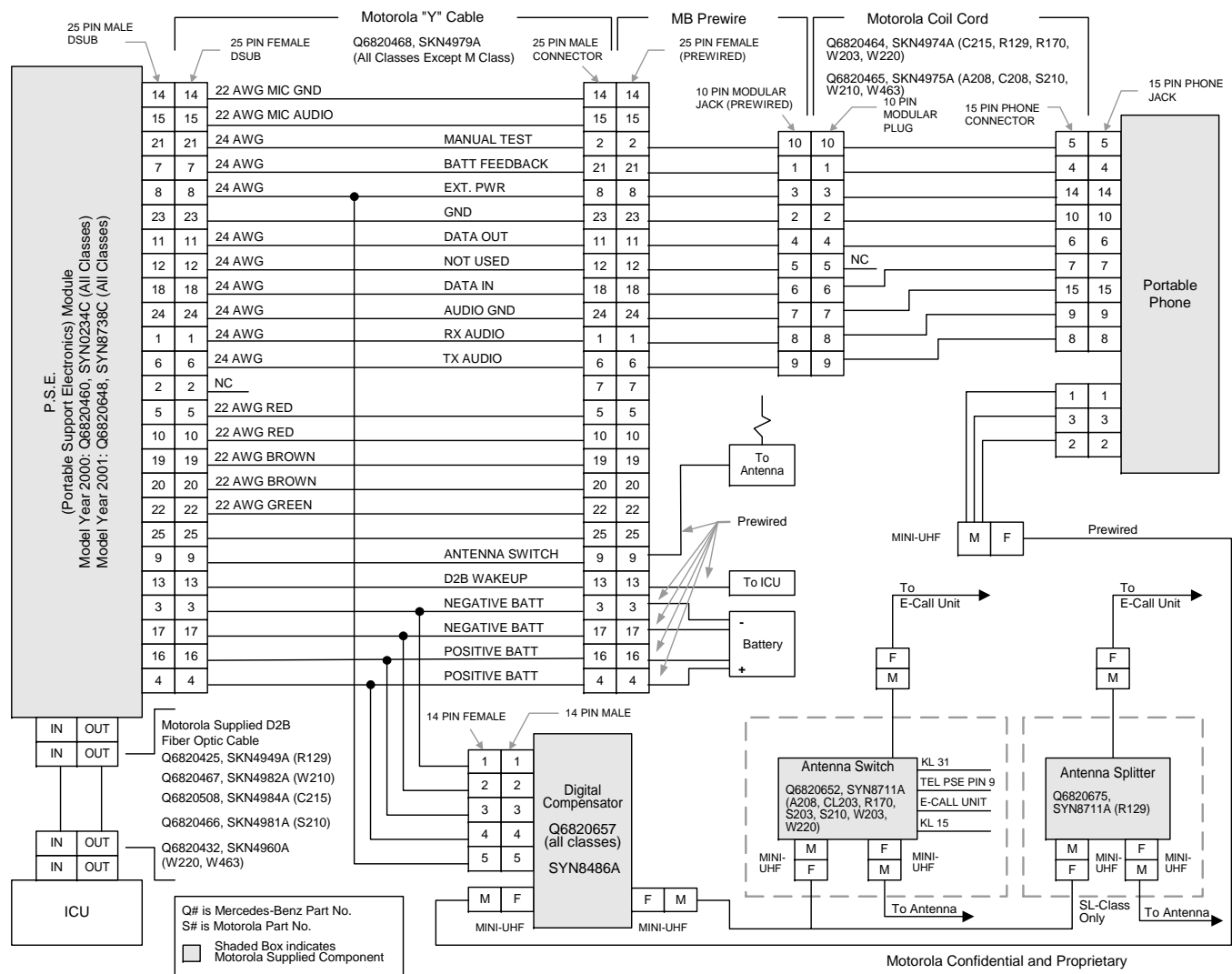


PSE Connector		Main Harness Connector		Compensator	
1	RX GND	→	1		
2	Not Used	→	7		
3	Battery Negative	→	3	→	1
4	Battery Positive	→	4	→	4
5	Not Used	→	5		
6	TX Audio	→	6		
7	Battery Feedback	→	21		
8	External Power	→	8	→	5
9	Antenna Switch	→	9		
10	Not Used	→	10		
11	Data Out	→	11		
12	Not Used	→	12		
13	D2B Wakeup	→	13		
14	MIC GND	→	14		
15	MIC Audio	→	15		
16	Battery Positive	→	16	→	3
17	Battery Negative	→	17	→	2
18	Data In	→	18		
19	Not Used	→	19		
20	Not Used	→	20		
21	Manual Test	→	2		
22	Not Used	→	22		
23	Ground	→	23		
24	Audio Ground	→	24		
25	Not Used	→	25		

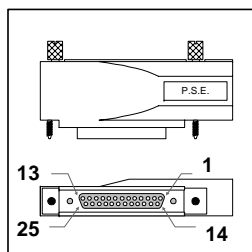


Motorola "Y" Cable
 MB Part #Q6820468, Motorola Part #SKN4979A
 (All Classes Except "M" Class)

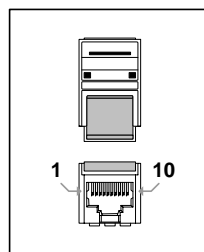
2.1.4 StarTAC/Timeport Wiring Diagram (All Classes Except M-Class)



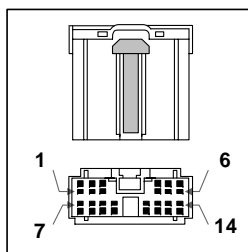
2.1.5 StarTAC/Timeport M-Class "Y" Cable Connector Pin Out Diagrams



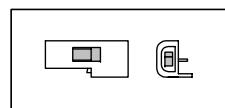
PSE Connector



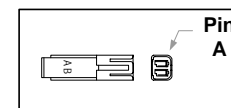
10 Pin Modular Jack



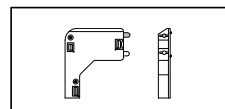
Compensator



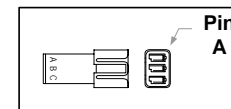
1 Pin Female Connector



2 Pin Male Connector



D2B Connector



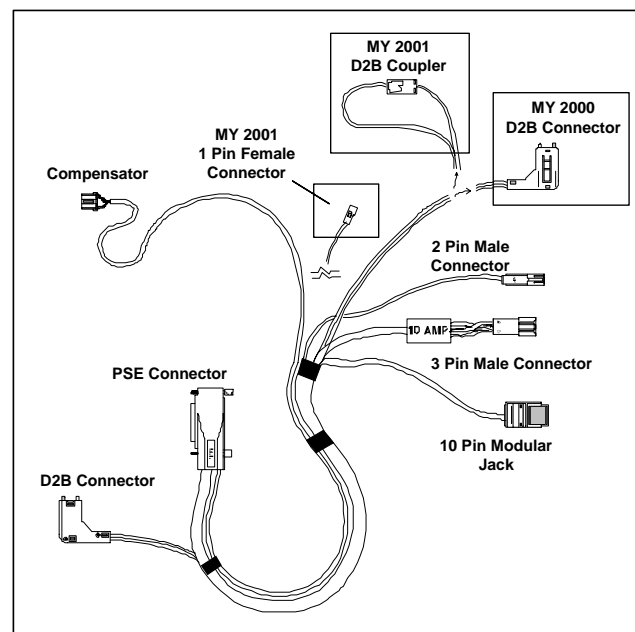
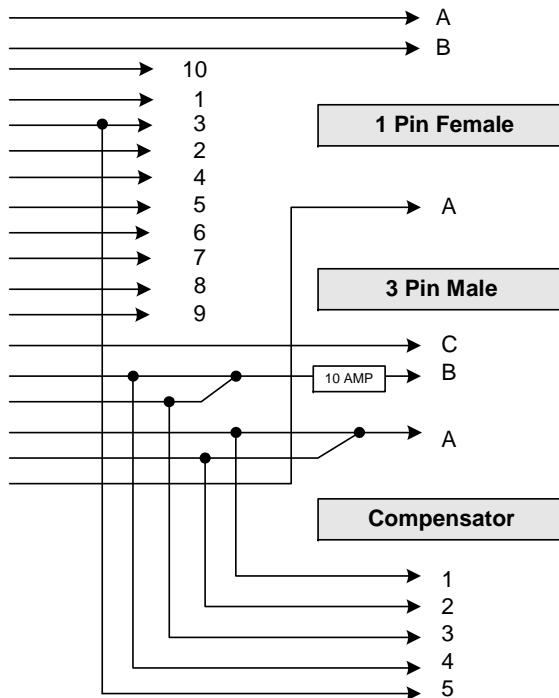
3 Pin Male Connector

PSE Connector

10 Pin Modular Jack

2 Pin Male

- 14 MIC GND
- 15 MIC Audio
- 21 Manual Test
- 7 Battery Feedback
- 8 External Power
- 23 Ground
- 11 Data Out
- 12 Not Used
- 18 Data In
- 24 Audio Ground
- 1 RX Audio
- 6 TX Audio
- 13 D2B Wakeup
- 4 Positive Batt
- 16 Positive Batt
- 3 Negative Batt
- 17 Negative Batt
- 9 Antenna Switch
- 2 Not Used
- 5 Not Used
- 10 Not Used
- 19 Not Used
- 20 Not Used
- 22 Not Used
- 25 Not Used

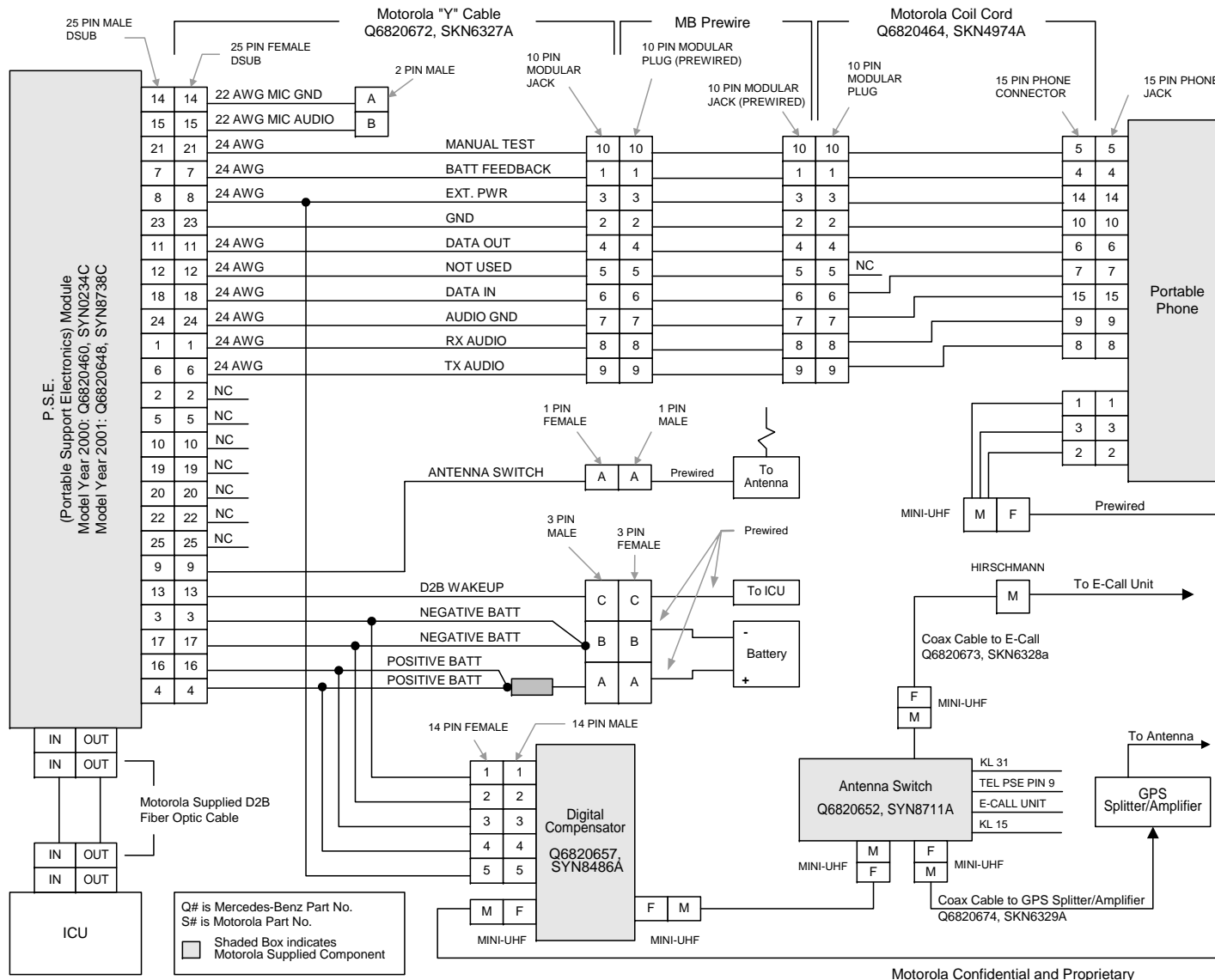


Motorola "Y" Cable

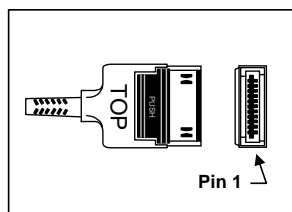
Model Year 2000:
MB Part #Q6820469, Motorola Part #SKN5000A

Model Year 2001:
MB Part #Q6820672, Motorola Part #SKN6327A

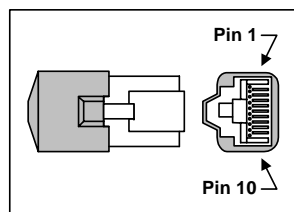
2.1.6 StarTAC/Timeport M-Class Wiring Diagram



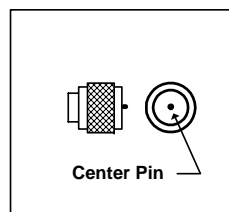
2.1.7 StarTAC/Timeport Coil Cord Pin Out Diagrams



15 Pin Phone Connector



10 Pin Modular Plug

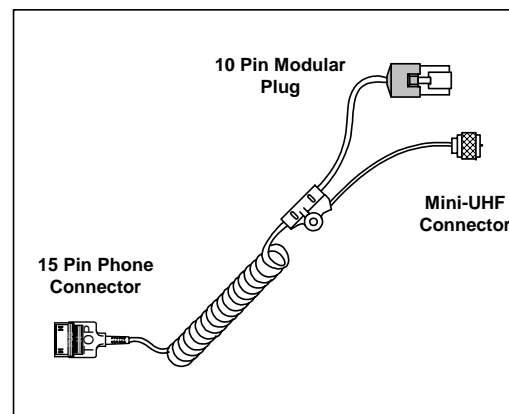


Coax Connector

15 Pin Phone Connector

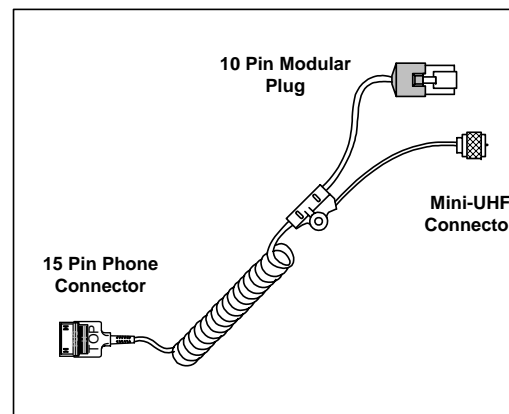
10 Pin Modular Plug

Coax Mini-UHF Connector



Motorola Coil Cord
MB Part #Q6820464, Motorola Part #SKN 4974A
(C215, R129, R170, W163, W203, W220)

1	Coax Outer Housing	—————→	Coax
2	Coax Center Pin	—————→	Coax
3	Coax Outer Housing	—————→	Coax
4	Battery Feedback	—————→	1
5	Manual Test	—————→	10
6	Data Out	—————→	4
7	Data In	—————→	6
8	TX Audio	—————→	9
9	RX Audio	—————→	8
10	Ground	—————→	2
11	Not Used		
12	Not Used		
13	Not Used		
14	External Power	—————→	3
15	Audio Ground	—————→	7



Motorola Coil Cord
MB Part #Q6820465, Motorola Part #SKN 4975A
(A208, C208, S210, W210, W463)

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2.2.1 v.60 Block Diagram (All classes except M class)

2.2.2 v.60 M-class Block Diagram

2.2.3 v.60 Y Cable Connector Pin-out (all classes except M class)

2.2.4 v.60 Wiring Diagram (all classes except M class)

2.2.5 v.60 M-class Y Cable Connector Pin-out

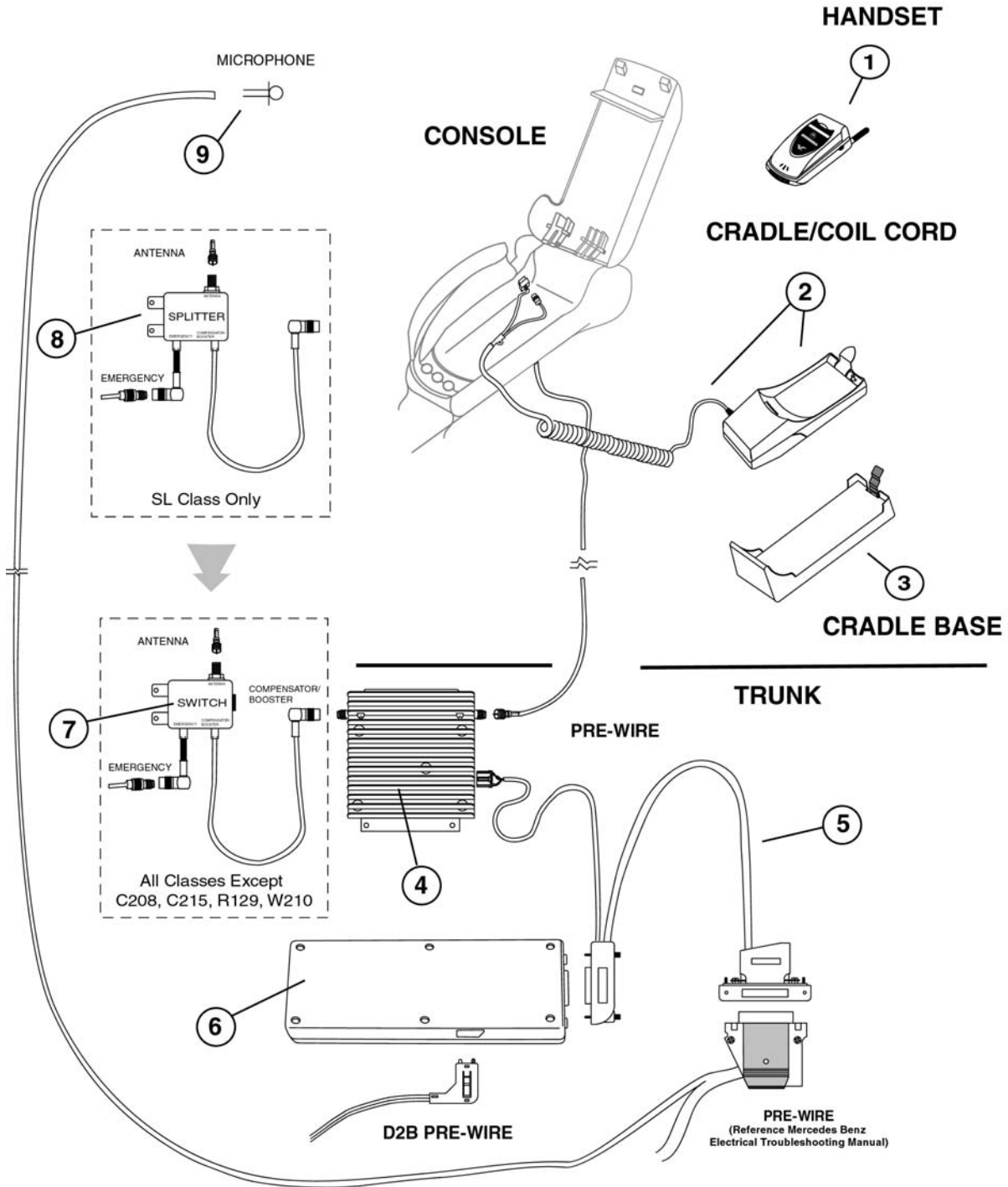
2.2.6 v.60 M-class Wiring Diagram

2.2.7 v.60 Coil Cord Pin-out

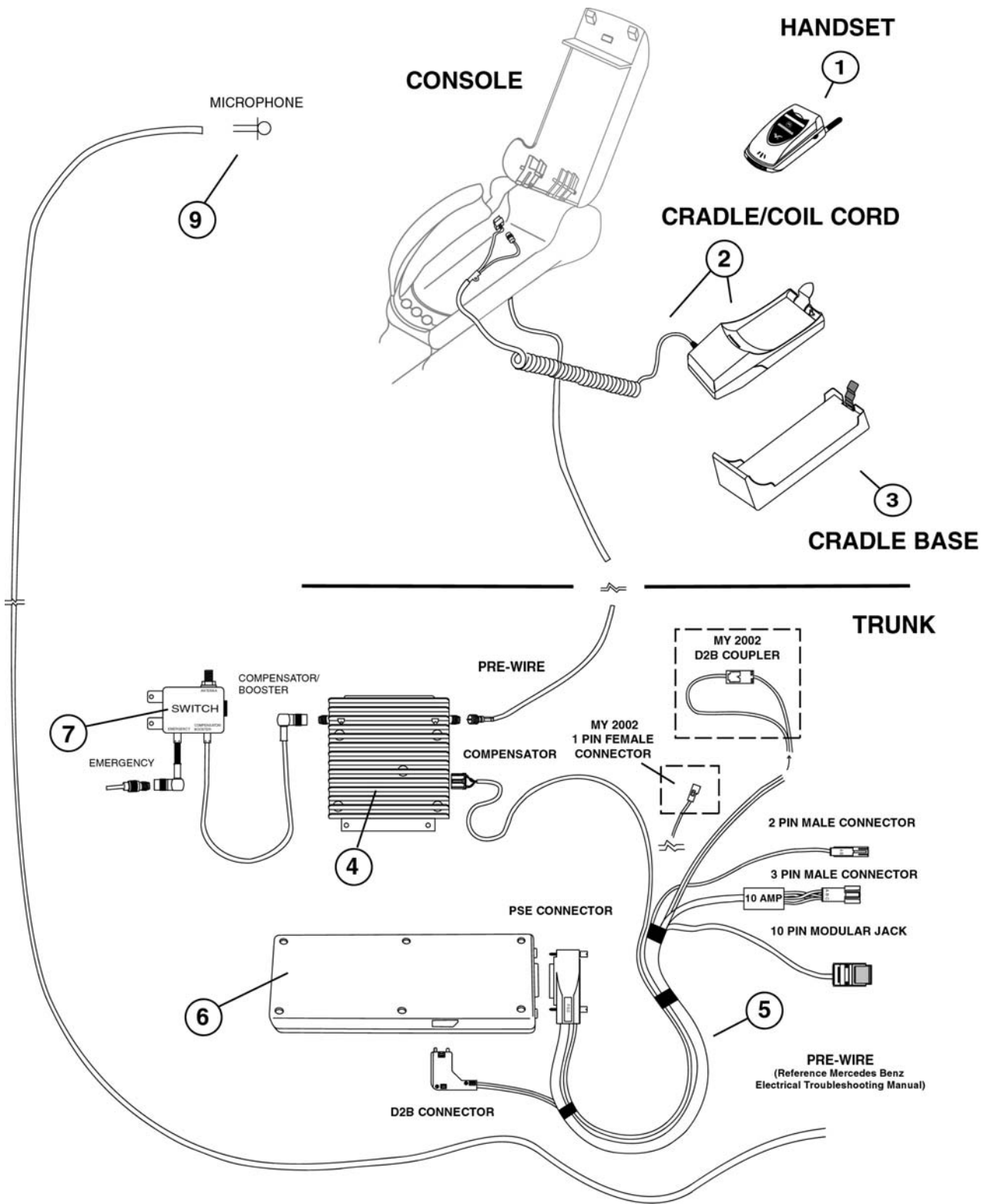
2.1 v.60 Connectors and Schematic Key

Ref. No.	Component Name	Page Reference		Part No.
		Desc.	Pin-out	
1	MY02 v.60 Handset	3	28	Reference Website: www.mbusaphones.com
2	v.60 Coil Cord Cradle Assembly	11	28	Q6820770: (W220, C215, R129, W203, R170, W163) Q6820771: (A208, C208, W210, S210, W463)
	Timeport Coil Cord Cradle Assembly	11	21	Q6820722: (W220, C215, R129, W203, R170, W163) Q6820723: (A208, C208, W210, S210, W463)
3.	v.60 Cradle Base	N/A	N/A	Q6820768
4	MY02 Dual Band Compensator	12	24, 26	Q6820657
5	“Y” Cable (All Classes except M Class)	N/A	24	Q6820468
	M Class “Y” Cable		26	Q6820672
6	Portable Support Electronics (PSE)	12	24, 26	Q6820754
7	Dual Band Antenna Switch	N/A	24,26	Q6820652
8	Antenna Splitter (SL only)	N/A	24	Q6820675
9	Microphone	12	24, 26	See Mercedes-Benz Dealer

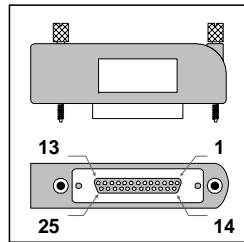
2.1.1 v.60 Block Diagram (All Classes Except M Class)



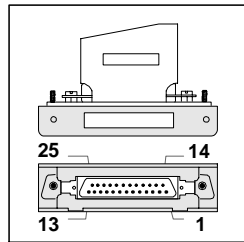
2.1.2 v.60 M-Class Block Diagram



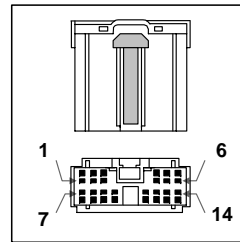
2.1.3 v.60 "Y" Cable Connector Pin Out Diagrams (All Classes Except M-Class)



PSE Connector



Main Harness Connector



Compensator

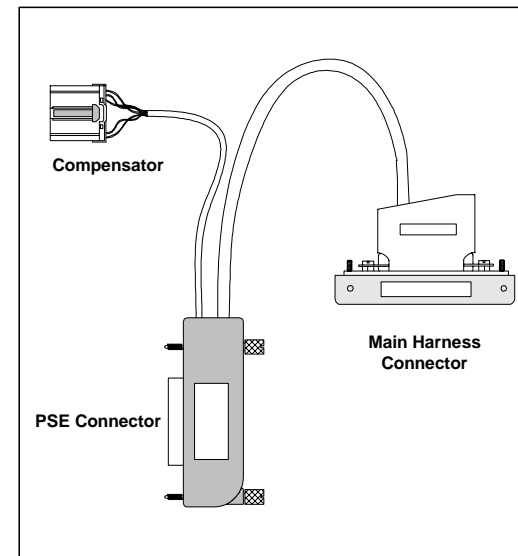
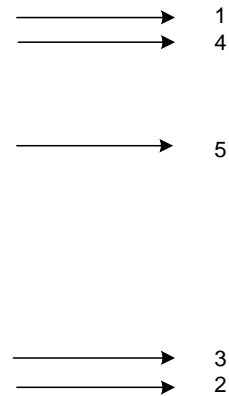
PSE Connector

- 1 RX GND
- 2 Not Used
- 3 Battery Negative
- 4 Battery Positive
- 5 Not Used
- 6 TX Audio
- 7 Battery Feedback
- 8 External Power
- 9 Antenna Switch
- 10 Not Used
- 11 Data Out
- 12 Not Used
- 13 D2B Wakeup
- 14 MIC GND
- 15 MIC Audio
- 16 Battery Positive
- 17 Battery Negative
- 18 Data In
- 19 Not Used
- 20 Not Used
- 21 Manual Test
- 22 Not Used
- 23 Ground
- 24 Audio Ground
- 25 Not Used

Main Harness Connector

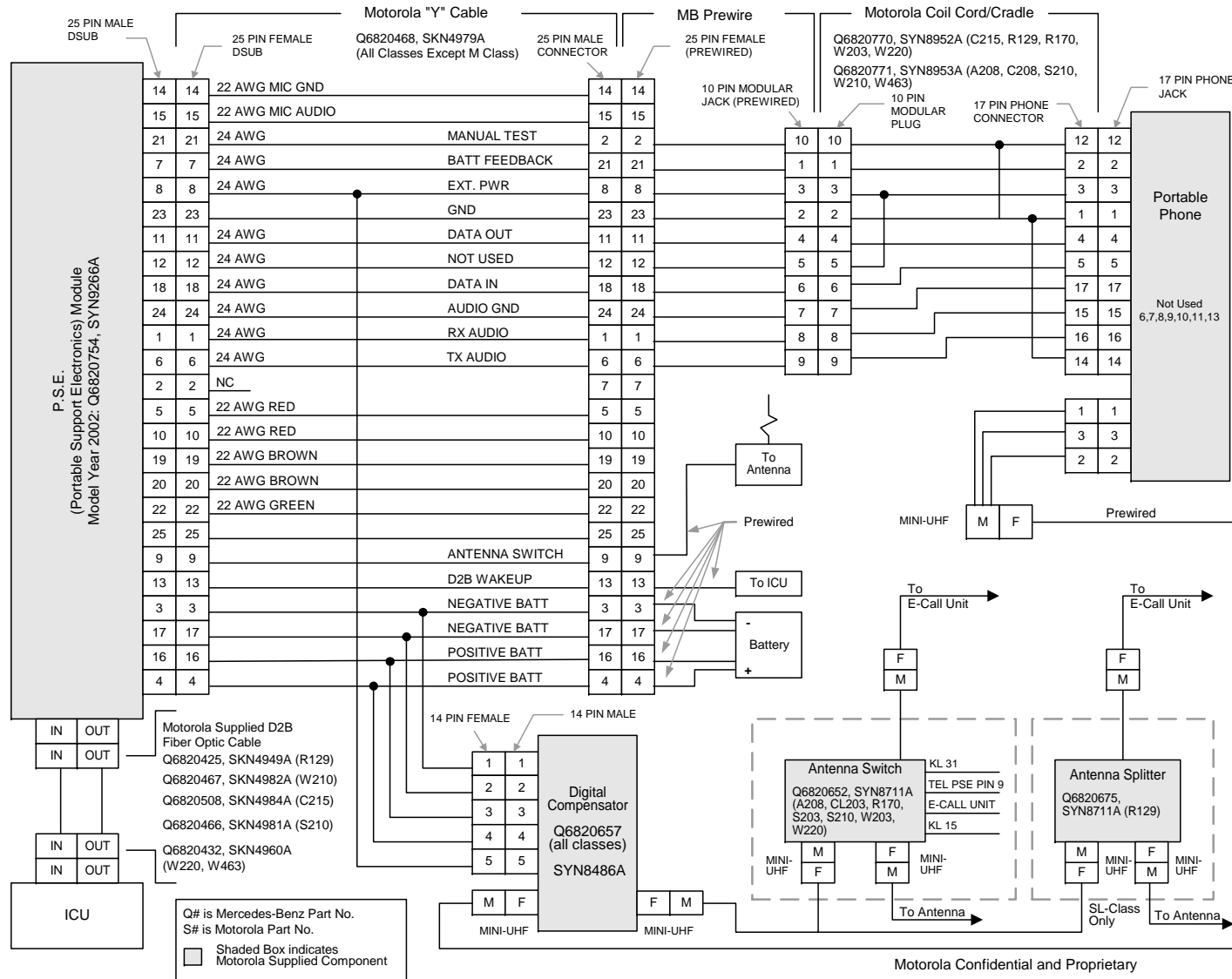
- 1
- 7
- 3
- 4
- 5
- 6
- 21
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17
- 18
- 19
- 20
- 2
- 22
- 23
- 24
- 25

Compensator

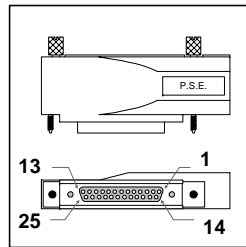


Motorola "Y" Cable
 MB Part #Q6820468, Motorola Part #SKN4979A
 (All Classes Except "M" Class)

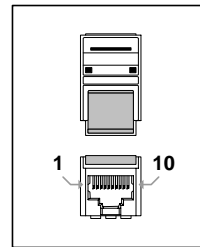
2.1.4 v.60 Wiring Diagram (All Classes Except M-Class)



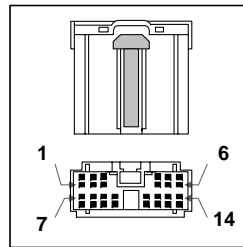
2.1.5 v.60 M-Class "Y" Cable Connector Pin Out Diagrams



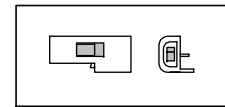
PSE Connector



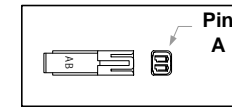
10 Pin Modular Jack



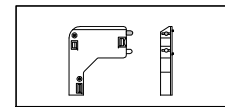
Compensator



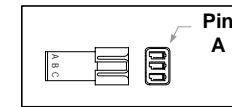
1 Pin Female Connector



2 Pin Male Connector



D2B Connector



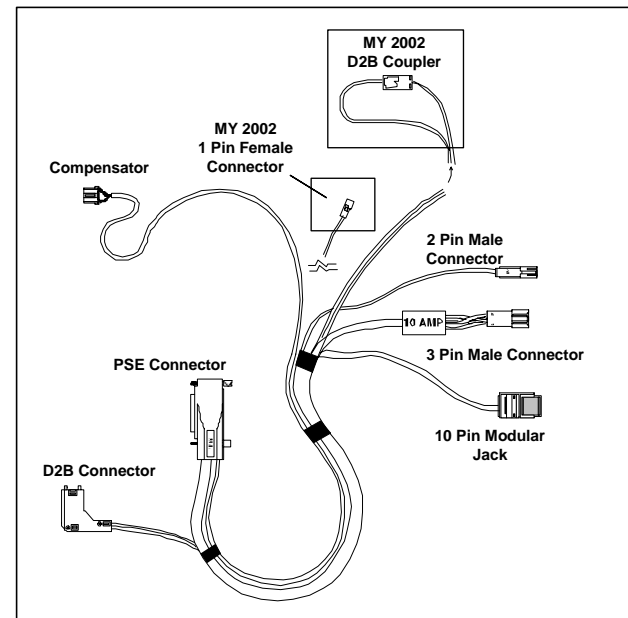
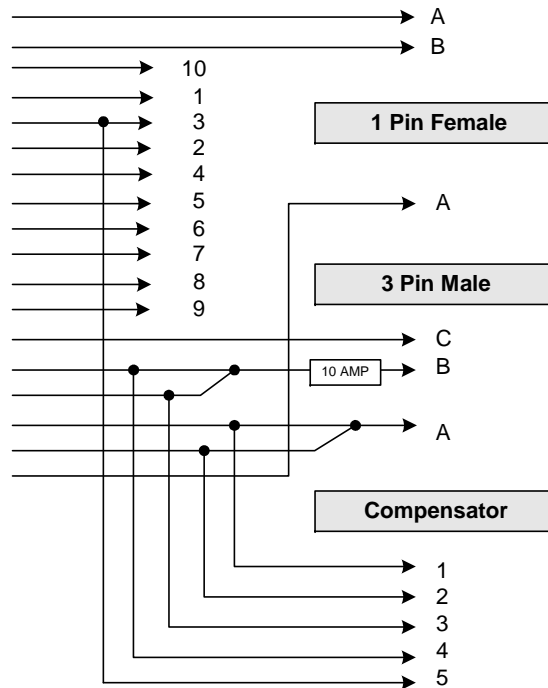
3 Pin Male Connector

PSE Connector

10 Pin Modular Jack

2 Pin Male

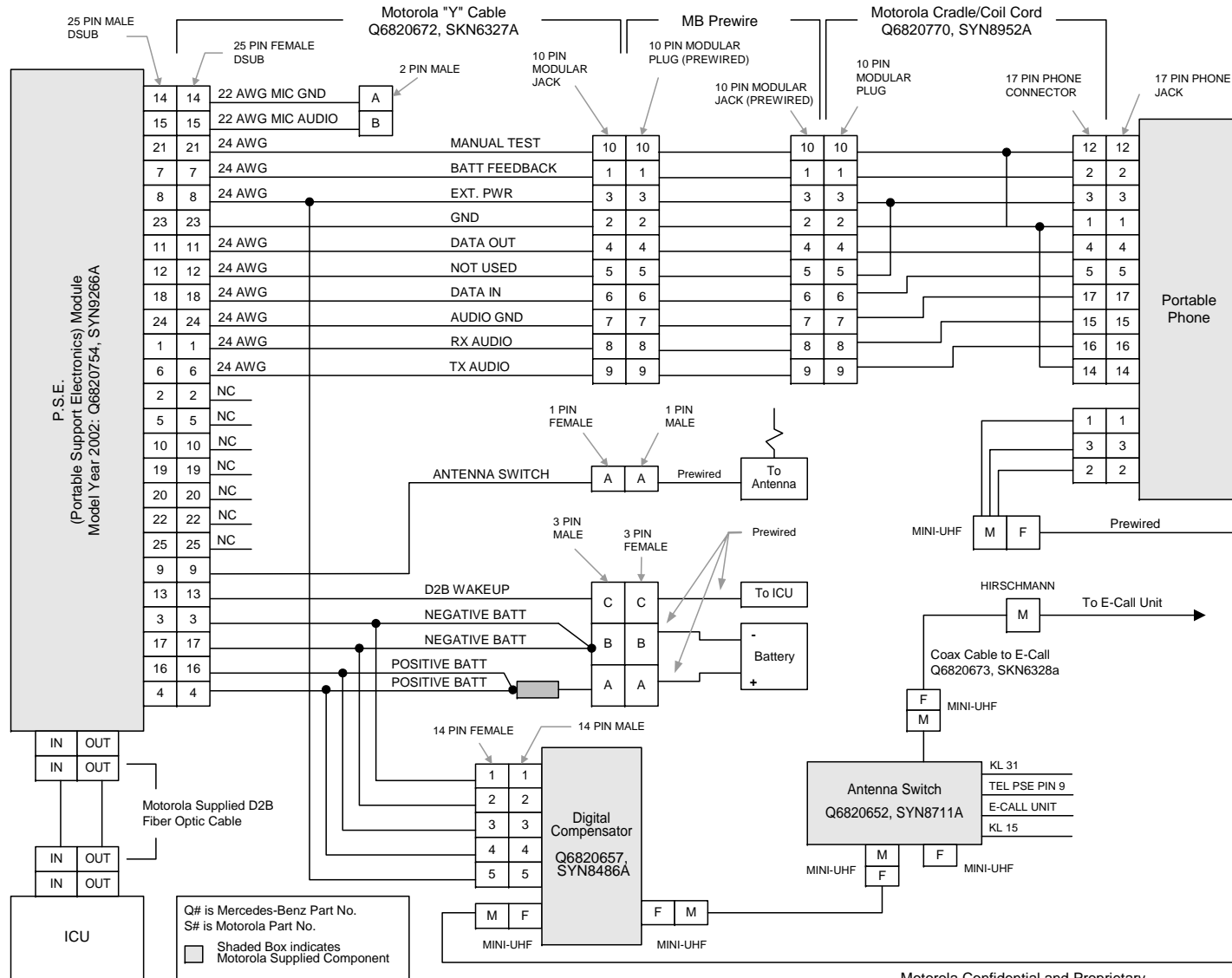
- 14 MIC GND
- 15 MIC Audio
- 21 Manual Test
- 7 Battery Feedback
- 8 External Power
- 23 Ground
- 11 Data Out
- 12 Not Used
- 18 Data In
- 24 Audio Ground
- 1 RX Audio
- 6 TX Audio
- 13 D2B Wakeup
- 4 Positive Batt
- 16 Positive Batt
- 3 Negative Batt
- 17 Negative Batt
- 9 Antenna Switch
- 2 Not Used
- 5 Not Used
- 10 Not Used
- 19 Not Used
- 20 Not Used
- 22 Not Used
- 25 Not Used



Motorola "Y" Cable

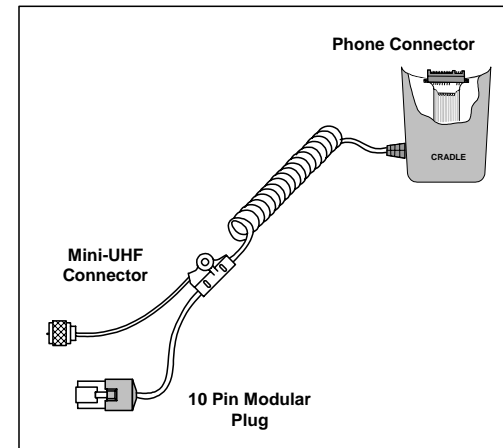
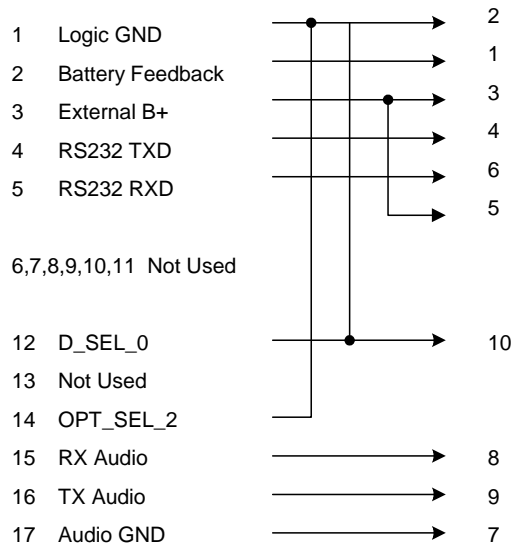
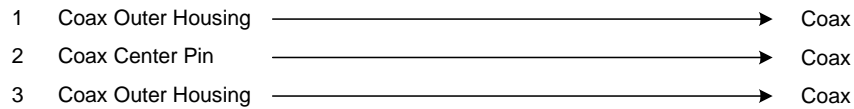
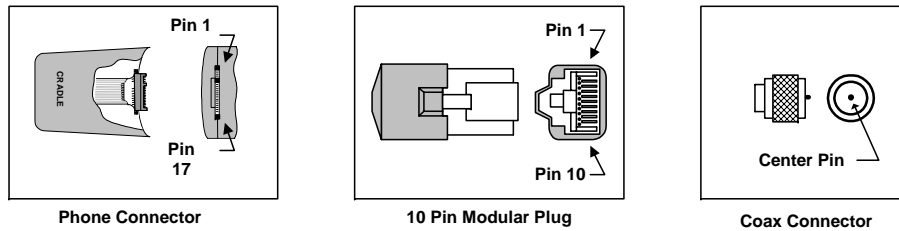
Model Year 2002:
MB Part #Q6820672, Motorola Part #SKN6327A

2.1.6 v.60 M-Class Wiring Diagram

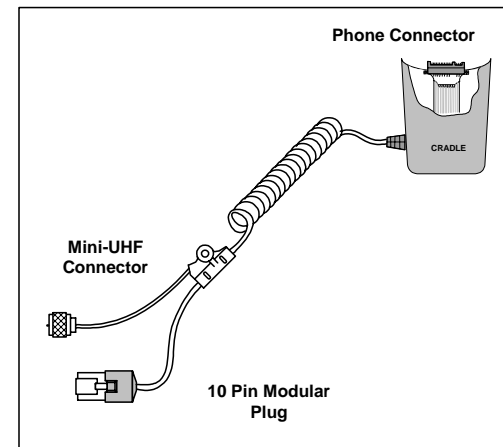


Motorola Confidential and Proprietary

2.1.7 v.60 Cradle/Coil Cord Pin Out Diagram



Motorola Coil Cord
 MB Part #Q6820770, Motorola Part #SYN 8952A
 (C215, R129, R170, W163, W203, W220)



Motorola Coil Cord
 MB Part #Q6820771, Motorola Part #SYN 8953A
 (A208, C208, S210, W210, W463)

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[2.3 CP Layout and Schematics](#)

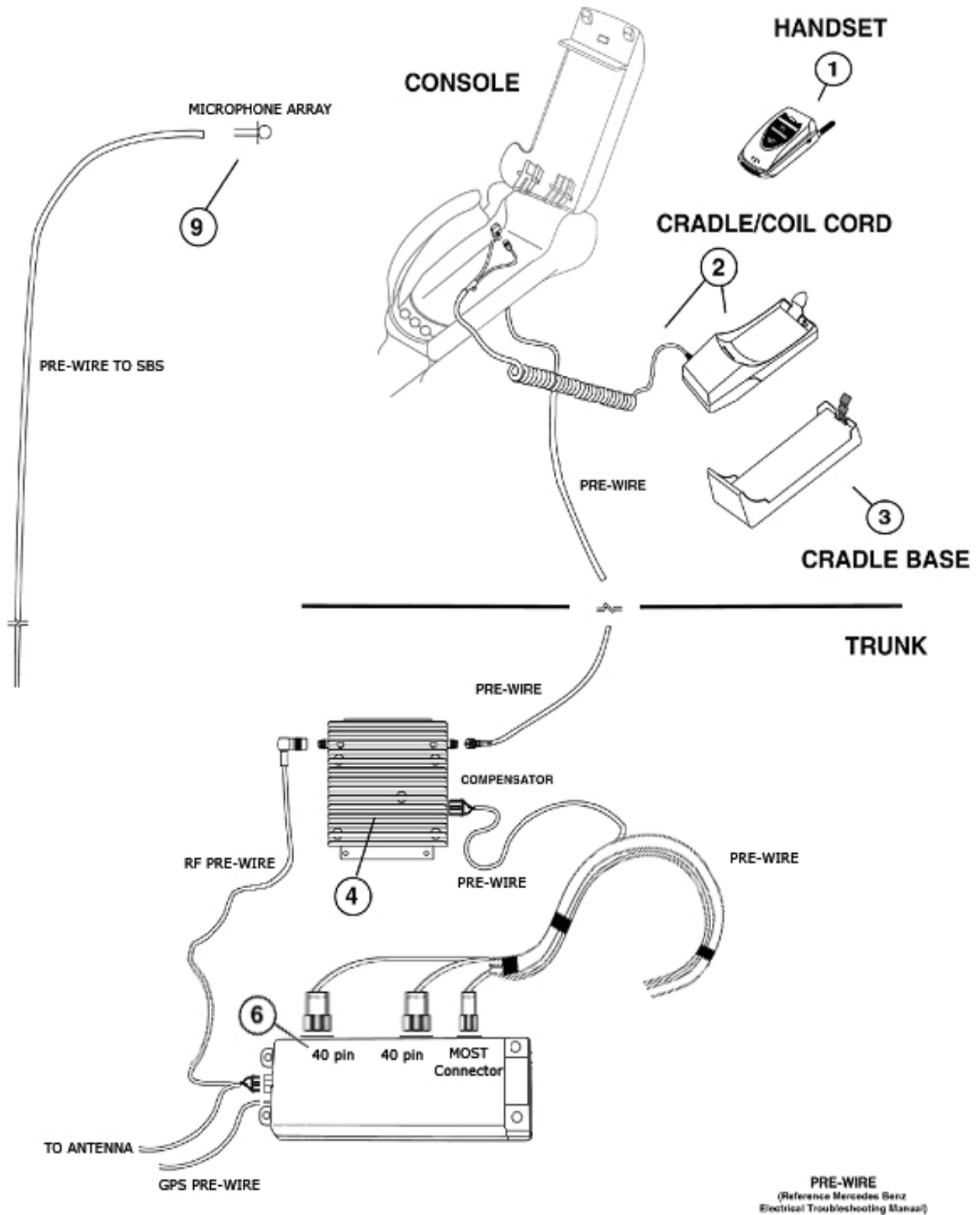
2.3.1 CP Block Diagram for MY2003/04 E-Class (BR211) and MY2004 S-Class (BR220), CL-Class (BR215) and Maybach (BR240).

2.3.2 CP Schematic

2.3 CP Connectors and Schematic Key

Ref. No.	Component Name	Pin-out	Part No.
1	MY03/04 CP Supported v.60 Handset	28	Reference Website: www.mbusaphones.com
2	v.60 Coil Cord Cradle Assembly	28	Q6820883: MY04 (215, 220, 240)
			Q6820833: MY03 (211)
3	v.60 Cradle Base	N/A	Q6820768
4	Dual Band Compensator	24, 26	Q6820657
5	Wiring Harnesses	40, 40, MOST	Vehicle Pre-wire
6	Communication Platform (CP)	40, 40, MOST	A2408201526
9	Microphone Array	24, 26	See Mercedes-Benz Dealer

2.3.1 CP Block Diagram



2.3.2 CP Wiring Diagram

Schaltplan CP für BR211 USA Code 384 + Dealer Option

2 x 40 pin MQS connectors 01.09.2000

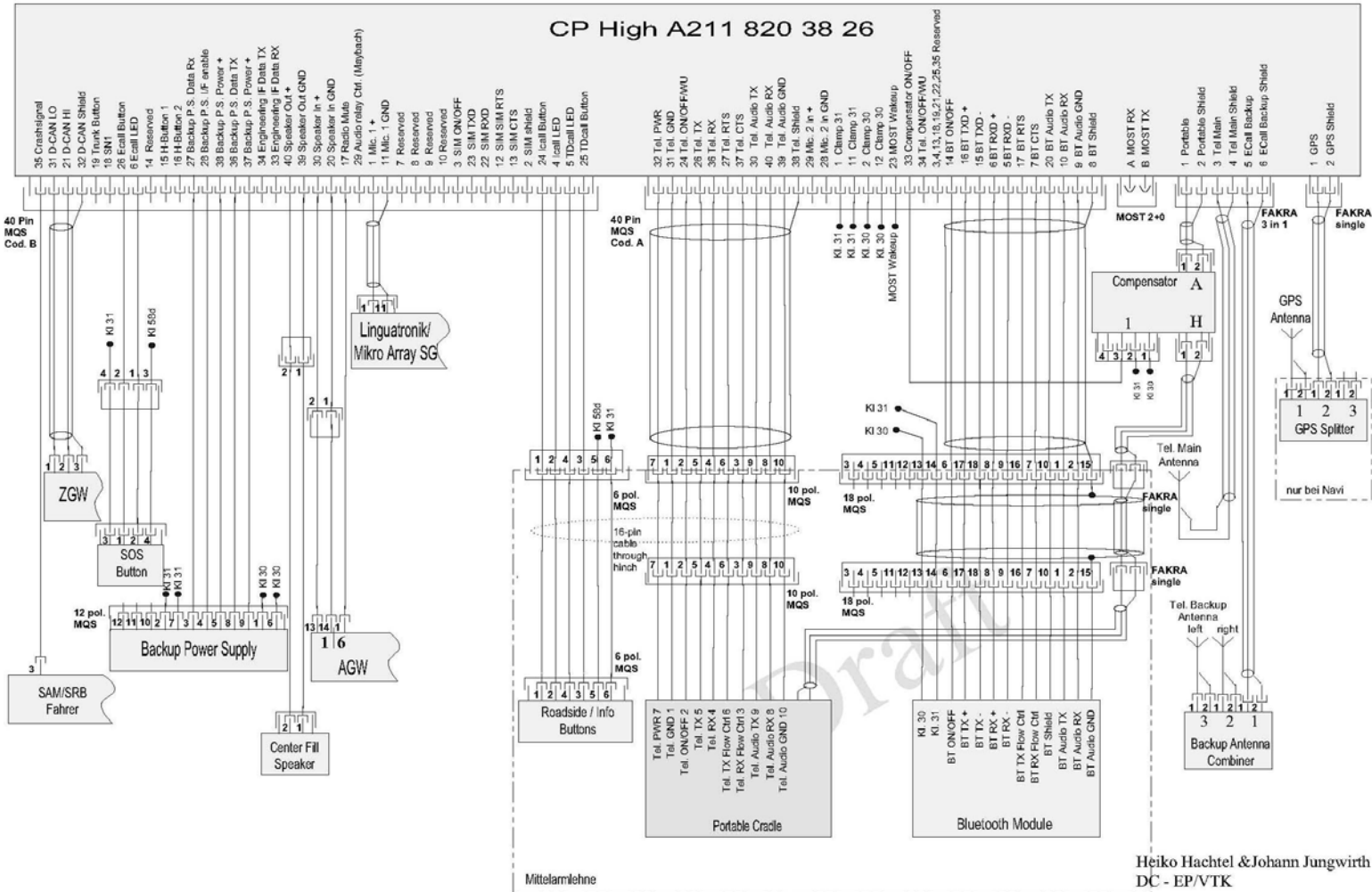


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[2.4 MHI Layout and Schematics](#)

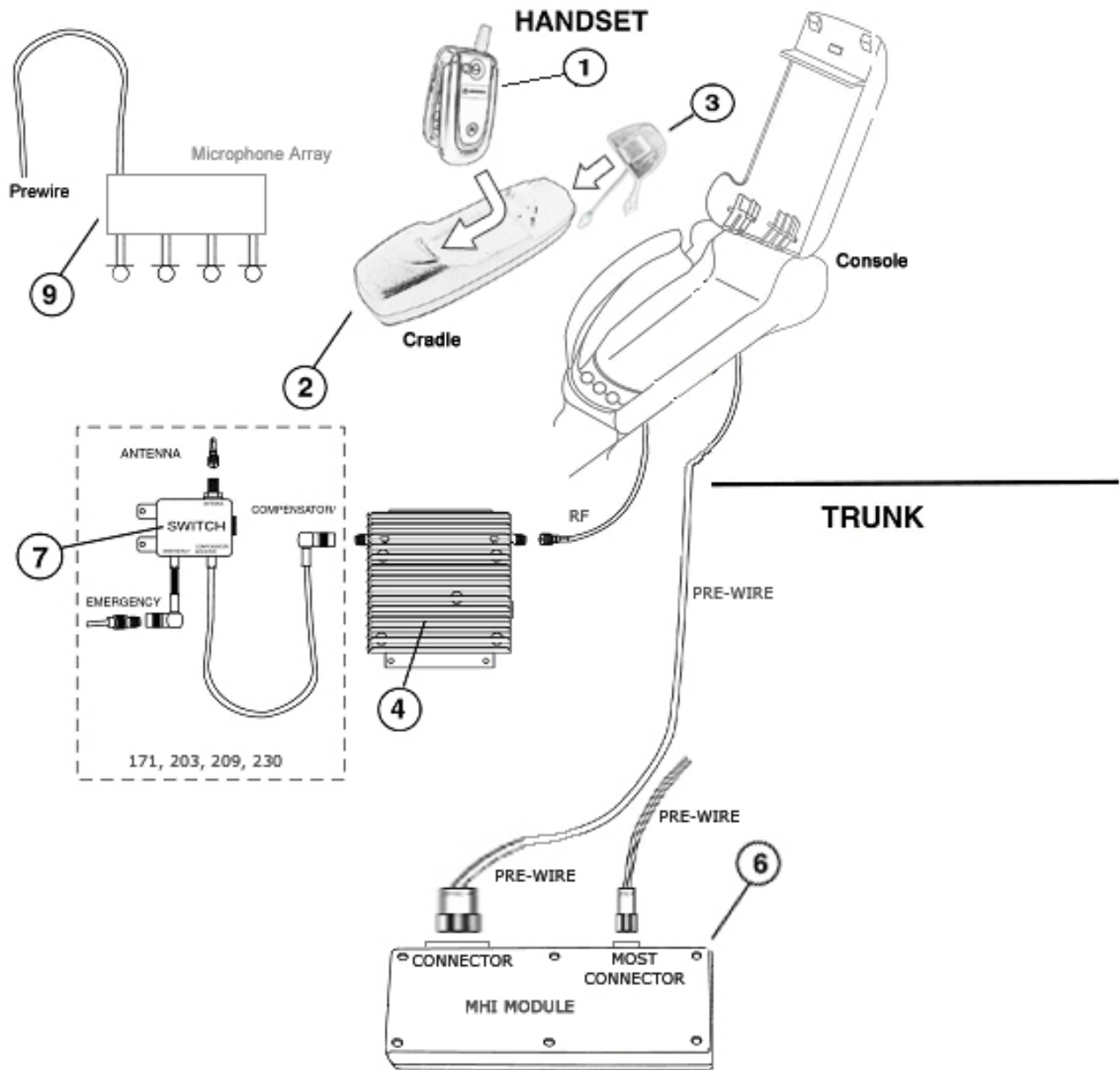
2.4.1 MHI Block Diagram for MY2005 Vehicles

2.4.2 MHI Schematic

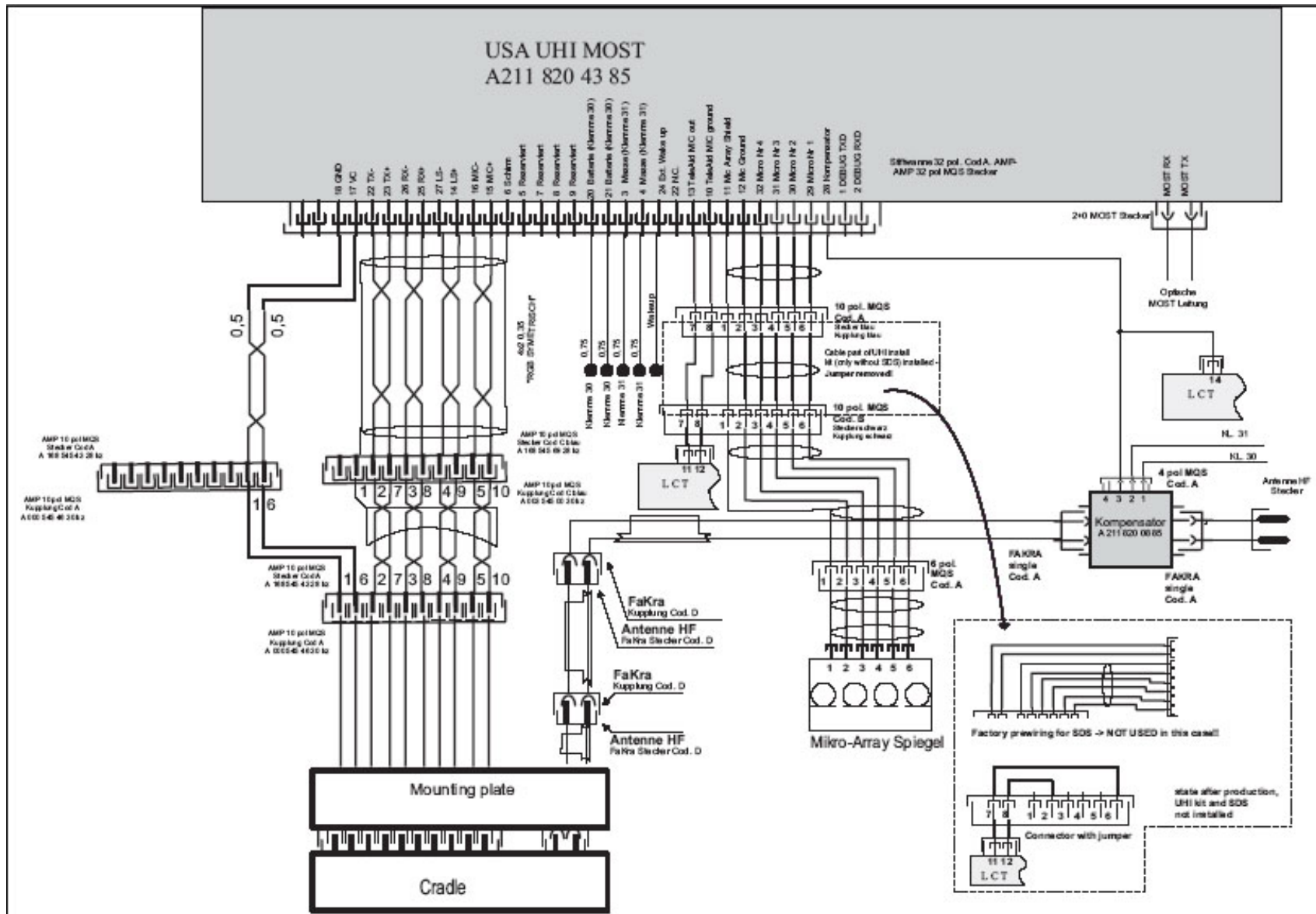
2.4 MHI Components and Schematic Key

Ref. No.	Component Name	Pin-out	Part No.
1	MY05 MHI Supported 'V' Series Handsets	28	Reference Website: www.mbusaphones.com
2	Cradle v60i, v60s, v600, v710	N/A	V60i – Q6820988 V60s – Q6820925 V600 – Q6820919 V710 – Q6820920
3	Cradle Base (Contact Plate)	N/A	A23082005011 (171, 230) A2038201311 (203, 209, 211) A2158200611 (215) A2208201511 (220)
4	Dual Band Compensator	24	Q6820829
5	Wiring Harness	N/A	Vehicle Pre-wire
6	Multiple Handset Interface (MHI)	MOST	Q6820936
8	Antenna Switch	24	A2208271842
9	Microphone Array	24, 26	See Mercedes-Benz Dealer

2.4.1 MHI Block Diagram



2.4.2 MHI Wiring Diagram



3.0 Installation Section

Table of Contents

3.1 MY2000 Installation Instructions

D2B Fiber Optic Configuration

All Classes

Cellular Telephone Configuration

C-Class

M-Class with Navigation

M-Class without Navigation

SLK-Class

Voice Activated Cellular Telephone Configuration

CL-Class

CLK-Class

CLK-Class Cabriolet

E-Class

E-Class Wagon

S-Class

S-Class Updated

SL-Class

MY2001 Installation Instructions

D2B Fiber Optic Configuration

All Classes

Cellular Telephone Configuration

C-Class

M-Class with Navigation

M-Class Without Navigation

SLK-Class

Voice Activated Cellular Telephone Configuration

CL-Class

CLK-Class

CLK-Class Cabriolet

E-Class

E-Class Wagon

S-Class

SL-Class

4.0 Troubleshooting Section

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- [4.2 RF Path From Handset Thru Antenna/E-call Unit](#)
 - [4.2.1 StarTAC/Timeport](#)
 - [4.2.2 V.60](#)
 - [4.2.3 CP](#)
 - [4.2.4 MHI](#)
- [4.3 Failure Mode Effects And Analysis \(FMEA\) Tables](#)
 - [4.3.1 PSE FMEA](#)
 - [4.3.2 CP FMEA](#)
 - [4.3.3 MHI FMEA](#)
- [4.4 Preliminary Troubleshooting Procedure](#)
 - [4.4.1 Handset Keypad Or Display Problems](#)
 - [4.4.2 No Battery Charging While Plugged Into The Vehicle](#)
 - [4.4.3 Phone Does Not Power Up](#)
 - [4.4.4 No Keypad Tones And/Or No Incoming Audio In Hands-free Mode From Vehicle Speakers](#)
 - [4.4.5 Static During Calls And/Or Dropped Calls](#)
 - [4.4.6 No Handset Audio Or Landline Cannot Hear Mobile On Handset Or Mobile Cannot Hear Landline On Handset](#)
 - [4.4.7 No Hands-free Transmit Audio/Called Party Cannot Hear You](#)
 - [4.4.8 No SVC Indicator Stays On](#)
 - [4.4.9 Complete Loss Of Vehicle System Audio](#)

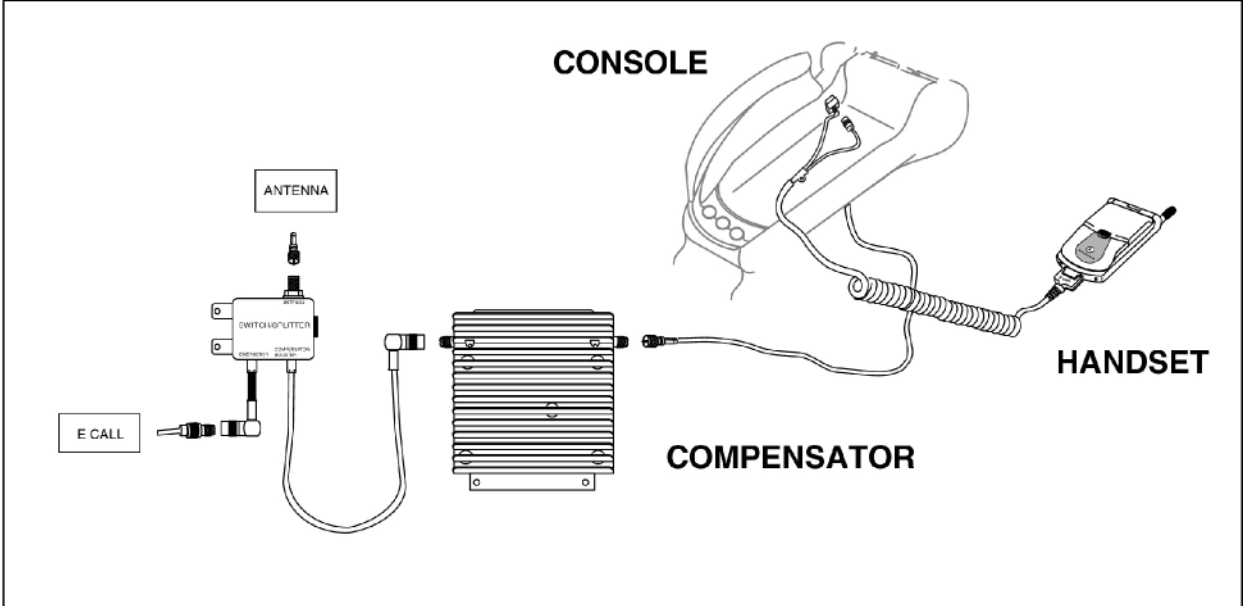
4.1 v.60 Characteristics/Differences from Timeport

ID #	v.60 Characteristics/Differences from Timeport
001	Power down phone from phone key while it is powering up. Power back up and no DTMF keypress tones in vehicle and in the phone (when flip opened).
002	Unknown caller ID is in phone incoming call list as unknown or private but shows nothing in HU calls list.
003	Speed dial a number from phonebook containing a variable number will keep displaying dialing until call is ended. The 1 st call after ending call will not complete. Must be ended and next call will complete.
004	Phone in call plug into vehicle with flip open and speaker phone soft key does not work 1 st time. SPEAKER PHONE SOFT KEY IS NOT INTENDED FOR VEHICLE USE. SEE NOTE ON PAGE 10 OF VEHICLE MANUAL.
005	Phone in autolock, connected, unlock phone, power down, power up, HU displays Ready for 8 seconds before Lock screen, during 8 seconds phone can be accessed from HU.
006	Phone is disconnected and reconnected before disconnect tones(less than 3 seconds between connections). Phone loses communication with PSE until power cycled. HU Displays still 'Tel. not plugged in'.
007	Phonebook/Calls/Last Calls blinks 2 times quickly whenever lists are updated due to incoming or outgoing calls.
008	If user has the same phone number stored with a different area code it will not matched to name tag correctly. Proper number will be dialed but the first name tag entry alphabetically will be displayed.
009	Call failed/redial – Call failed, redial?, screen will not be displayed on head unit as with Timeport. Phone will automatically go into redial mode and head unit will display dialing for up to 4 minutes. Call can be ended from head unit or phone at any time. After 4 minute the phone redial mode will timeout and head unit will go back to Ready screen.
010	Phone book quantity – Timeport has maximum of 99 entries and v.60 has possible 400 entries. The head units can only display up to 99 entries. If phone book entry location is greater than 99 it will not be displayed or selectable on head unit but will be available from the phone. Under this condition it would appear as if head unit and phone are not synchronized.
011	Digits entered on head unit with phone flip open will display on phone and does not get cleared when cleared on head unit, must be cleared on phone.
012	v.60 takes much longer to power up and down which sometimes appears that head unit and phone are out of sync.
013	Pause dialing – pause character is entered from head unit but wait character is entered into phone. Operation is identical to Timeport but symbol in phone is different.
014	DTMF tones heard in phone speaker when flip open and in an active call
015	911 automatically dialed from location 1 when phone locked and location 1 speed/turbo dialed.

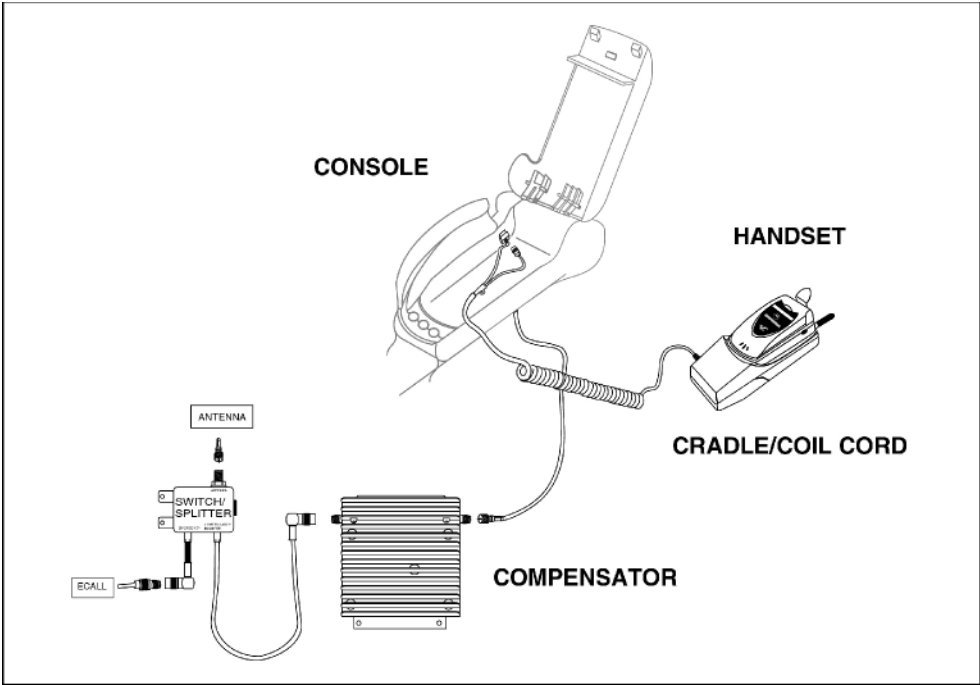
ID #	v.60 Characteristics/Differences from Timeport
016	Cannot partially enter lock code on the phone and then try to complete entry from the HU.
017	v.60 phone uses 4-digits unlock code in stand alone portable mode and first 3 digits only in vehicle mode.
018	Variable dialing can only be initiated from the v.60 phone.
019	Phone charging time changed from 8 hours to 5 minutes when phone is connected to an unpowered car.
020	Text and voice mail message alert tones are defaulted to Vibe pulse setting. This will eliminate the vehicle system audio muting during message receipt.
021	Reminder tones are defaulted Off. User must turn on which will result in vehicle system audio muting during a reminder event.
022	v.60 presently uses a fast switching half duplex audio processing technique. The user may experience an inability to easily break in on the other party when they are speaking or if they are in an environment with high background noise. See page 3 of vehicle manual.

4.2 RF Path From Handset Thru Antenna/E-Call Unit

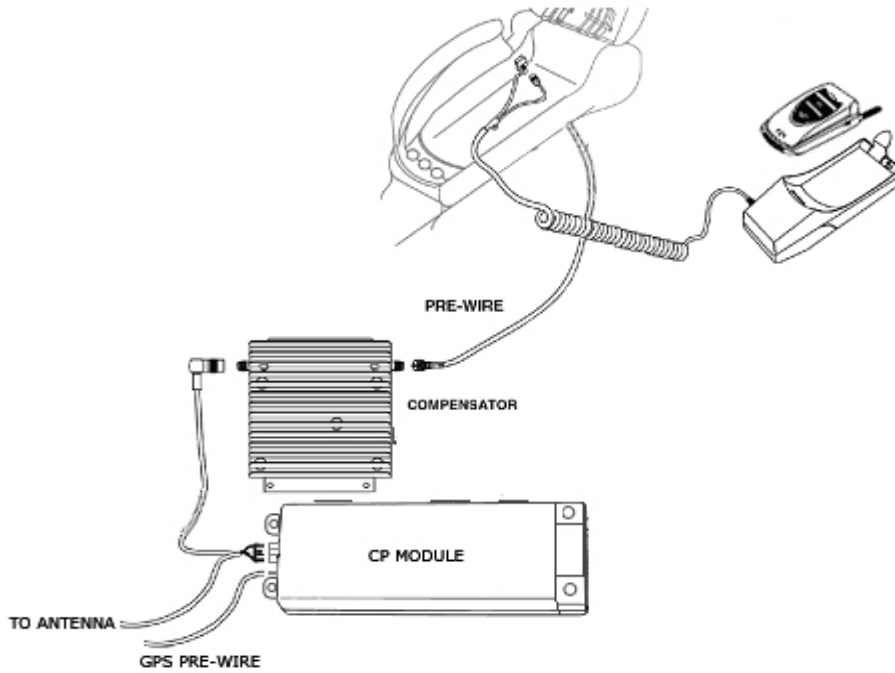
4.2.1 StarTAC/Timeport [phone, compensator, RF antenna switch, antenna/E-call unit]



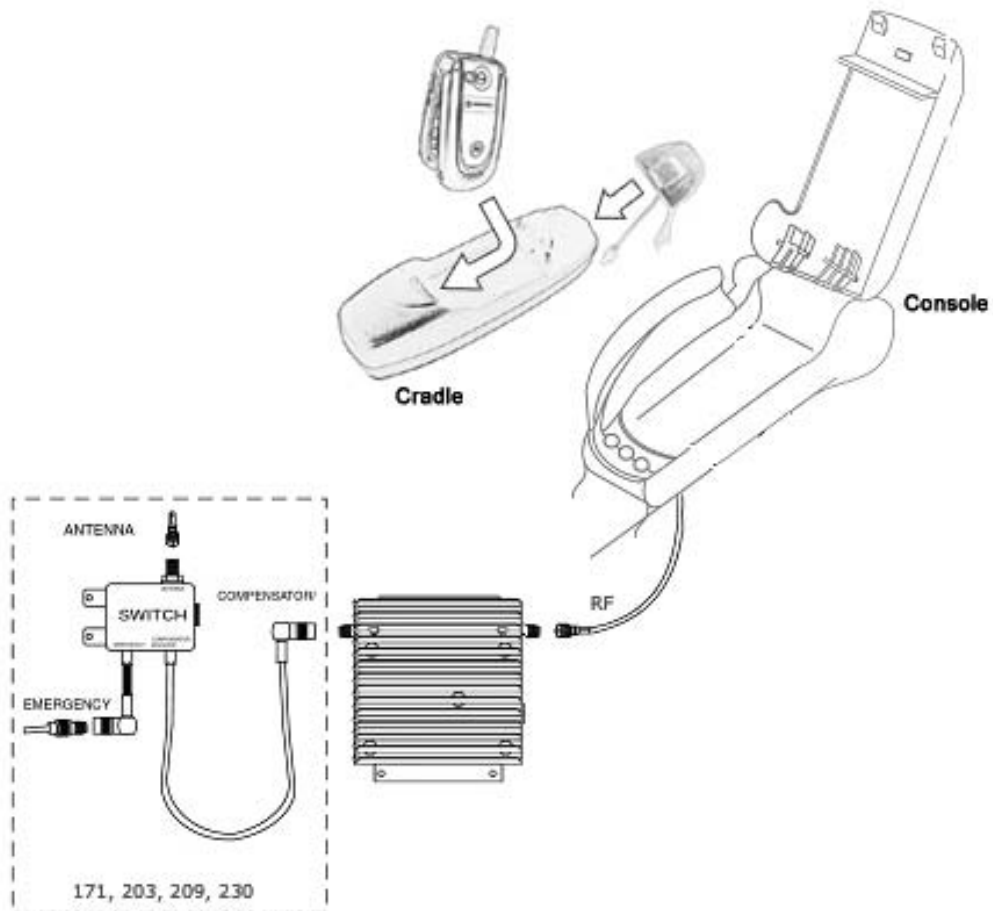
4.2.2 v.60 RF Path [phone, compensator, RF antenna splitter, antenna/E-call unit]



4.2.3 CP RF Path [phone, compensator, CP module]



4.2.4 MHI RF Path [phone, cradle base, compensator, RF antenna switch, E-call unit]



4.3 Failure Mode Effects And Analysis (FMEA) Tables

4.3.1 PSE FMEA table

FMEA TABLE					
PSE Pin	Signal	Open	Short to Ground	Short to 12v	Notes
1	receive audio Audio_In/On_Off	Phone will not turn off/on via head unit TEL key	No transmit or receive hands free audio	No in HF; loud transmit	ground noise; audio OK
2		No receive audio in hands free mode	Key on: phone powers down when connected; key off:		
3	Ground chassis	No adverse effect	No adverse effect	Blow fuse on sourcing feed	
4	A+	No adverse effect	Blows fuse to tel system	No adverse effect	
5			NOT USED		
6	Audio out	No transmit audio in hands free 50Hz TDMA buzz on landline	Ground (white) noise on landline No transmit audio from vehicle hands free mic	No transmit or receive audio in HF	PSE permanently damaged (no transmit audio after original CDMA test; replaced and retested CDMA, no problem)
7	Battery Feedback	No visible effect Battery will not charge; poor talk time outside car	No visible effect Battery will not charge; poor talk time outside car; battery will have excess drain	TDMA: No adverse effect CDMA: Phone powers down and can not be powered up	Battery indicates charging despite no charging going on Pin 8 will be at 4.4v (min charge voltage) Can verify charging circuit function by comparing pins 7&8 on PSE with phone connected. 8 should be 1.4v greater than pin 7
8	B+ out	No vehicle power to phone; no charging Disconnecting phone battery shuts down phone	No charging; phone will operate but on main battery only until dead TDMA: download takes 8X longer (5 – 40 sec.)	No charging, switches to battery	"Charging" will not be indicated in FCN4 mode
9	Ant drive	Poor reception and likely no ability to call out; no ant drive in R129	Poor reception and likely no ability to call out; no ant drive in R129	No adverse effect on ant sw; power antenna always up in R129	Open and short will cause antenna to go to Tele Aid at all times
11	SCI RXD	Phone powers on/off constantly @ 6 sec. intervals	Phone powers on/off constantly @ 6 sec. intervals	CDMA: Phone permanently damaged; TDMA No damaging effect but no operation with H/U	PSE is turning on phone via PSE dial in an attempt wakeup portable
12			NOT USED		
13	D2B wakeup	PSE sleeps; no ring start	Ring does not start; phone powers on/off @ 2 sec. intervals	Ring will never start	
14	Ground chassis	No adverse effect	No adverse effect	Blow fuse on sourcing feed	Microphone shield
15	Mic Hi	No transmit audio in hands free	No transmit audio in hands free	TDMA/ CDMA: No transmit audio	
16	A+	No adverse effect	Blows fuse to telephone system	No adverse effect	If 4 & 16 are last, gross system failure
17	Ground chassis	No adverse effect	No adverse effect	Blow fuse on sourcing feed	
18	SCI TXD	Phone cycles on/off constantly @ 18 sec. Intervals (TDMA) 6 sec. (CDMA)	Phone cycles on/off constantly @ 18 sec. Intervals (TDMA) 6 sec. (CDMA)	TDMA remains on but no function with head unit; CDMA: powers down and will not power up	
19			NOT USED		
20	Ground chassis	No adverse effect	No adverse effect	Blow fuse on sourcing feed	Shield for data lines to R1-45. Not ground source
21	MANUAL TEST	Fast battery outline flash & "charging disabled" on TDMA FCN4 "Externally powered" on CDMA function 4	TDMA: powers off then on and enters test mode CDMA: powers off then can not be powered on	Fast battery outline flash & "charging disabled" on TDMAFCN4 CDMA: Powers down and then when powered up NAM is erased including ESN	PSE supplies 33k ohms to ground to tell phone to charge; must power down to exit test mode if shorted
22			NOT USED		
23	Ground chassis	No adverse effect	No adverse effect	Blow fuse on sourcing feed	Ground source to StarTAC. With this open StarTAC gets ground through coax
24	Ground analog	TDMA: heavy pulse noise, no transmit audio, will not recognize phone is connected to coil cord CDMA: Slow oscillating noise, no transmit audio, will not recognize phone is connected to coil cord	TDMA: Heavy noise pulse; H/U will not shut down if in a call CDMA: Slow oscillating noise; H/U will not shut down if in a call	Blow fuse on sourcing feed	
25			NOT USED		

4.3.2 CP FMEA Table

BLOCK Item Function	Shorted to ground.	Open.	Shorted to Vbatt.
J1-Telephone Connector/ PIN-1 / KL31-GND	None.	Unstable GND. Potential increase in audio noise and EMC emissions	System fuse will open. Loss of functionality. MRS/CAN/MOST/DTS will be set
J1-Telephone Connector/ PIN-2 / KL30-Power Vbatt.	System fuse will open. Loss of functionality. MRS/CAN/MOST DTS will be set.	TCU will lose power. Loss of functionality. Potential increases in Audio noise/ EMC emission. DTC will be set.	None.
J1-Telephone Connector/ PIN-3 / Reserved.	None.	None.	None.
J1-Telephone Connector/ PIN-4 / Reserved.	None.	None.	None.
J1-Telephone Connector/ PIN-5 / BT RxD-.	Unable to receive messages from the BT module. Loss of BT functionality. DTC will be set. Hand Set will not function.	Receive Line will be disabled. DTC will be set. Hand Set will not function.	Unable to receive messages from the BT module. Loss of BT functionality. DTC will be set. Hand Set will not function.
J1-Telephone Connector/ PIN-6 / BT RxD+.	Unable to receive messages from the BT module. Loss of BT functionality. DTC will be set. Hand Set will not function.	Receive Line will be disabled. DTC will be set. Hand Set will not function.	Unable to receive messages from the BT module. Loss of BT functionality. DTC will be set. Hand Set will not function.
J1-Telephone Connector/ PIN-7 / BT CTS-Flow Control.	Unable to receive and/or transmit messages. Loss of BT functionality. DTC will be set. Hand Set will not function.	Unable to receive and/or transmit messages. Loss of BT functionality. DTC will be set. Hand Set will not function.	Unable to receive and/or transmit messages. Loss of BT functionality. DTC will be set. Hand Set will not function.
J1-Telephone Connector/ PIN-8 / BT Shield-GND.	None.	Additional Audio noise.	PCB trace or wire may open.
J1-Telephone Connector/ PIN-9 / BT Audio GND.	None.	Additional Audio noise.	Loss of BT Audio signal. DTC will be set.
J1-Telephone Connector/ PIN-10 / BT Audio Rx - Analog Audio .	None.	Unreliable or no Audio signal from the BT module. DTC will be set.	No Audio signal from the BT module. DTC will be set.

J1-Telephone Connector/ PIN-11 / KL31-GND.	None.	Unstable GND. Potential increases in Audio noise/ EMC emission.	System fuse will open. Loss of functionality. MRS/CAN/MOST DTS will be set.
J1-Telephone Connector/ PIN-12 / KL30-Power Vbatt.	System fuse will open. Loss of functionality. MRS/CAN/MOST DTS will be set.	Unstable GND. Potential increases in Audio noise/ EMC emission.	None.
J1-Telephone Connector/ PIN-13 / Reserved.	None.	None.	None.
J1-Telephone Connector/ PIN-14 / BT On/Off - On/Off Control for BT module.	Unable to turn Off BT module. Loss of functionality. DTC will be set.	Unable to turn On BT module. Loss of functionality. DTC will be set.	Unable to turn On BT module. Loss of functionality. DTC will be set.
J1-Telephone Connector/ PIN-15 / BT TxD-.	Unable to transmit messages to the BT module. Loss of BT functionality. DTC will be set. Hand Set will not function.	BT will lose functionality. DTC will be set. Hand Set will not function.	Unable to transmit messages to the BT module. Loss of BT functionality. DTC will be set. Hand Set will not function.
J1-Telephone Connector/ PIN-16 / BT TxD+.	Unable to transmit messages to the BT module. Loss of BT functionality. DTC will be set. Hand Set will not function.	Unable to transmit messages to the BT module. Loss of BT functionality. DTC will be set.	Unable to transmit messages to the BT module. Loss of BT functionality. DTC will be set. Hand Set will not function.
J2-Telephone Connector/ PIN-17 / BT RTS-Flow Control.	Unable to transmit and/or receive messages. Loss of BT functionality. DTC will be set. Hand Set will not function.	Unable to transmit and/or receive messages. Loss of BT functionality. DTC will be set. Hand Set will not function.	Unable to transmit and/or receive messages. Loss of BT functionality. DTC will be set. Hand Set will not function.
J1-Telephone Connector/ PIN-18 / Reserved.	None.	None.	None.
J1-Telephone Connector/ PIN-19 / Reserved.	None.	None.	None.
J1-Telephone Connector/ PIN-20 / BT Audio Tx-Analog Audio.	None.	No Audio signal to the BT module. DTC will be set. Hand Set will not function.	No Audio signal to the BT module. DTC will be set. Hand Set will not function.
J1-Telephone Connector/ PIN-21 / Reserved.	None.	None.	None.
J1-Telephone Connector/ PIN-22 / Reserved.	None.	None.	None.
J1-Telephone Connector/ PIN-23 / MOST Wake-up	TCU unable to enter Sleep mode. Excessive current during ignition off condition. Main battery will be drain faster than expected. DTC will be set.	TCU unable to enter Sleep mode. Excessive current during ignition off condition. Main battery will be drain faster than expected. DTC will be set.	TCU will wake-up on CAN messages, unable to wake-up on MOST signal. MOST DTC will be set.

J1-Telephone Connector/ PIN-24 / Tel On/Off/WU - Phone/Charger/ SIM On/Off; / Wake-up.	Improper or no operation of the Portable Phone and/or Charger, and/or SIM Card Reader, and/or Wake-up circuitry. DTC will be set.	Improper or no operation of the Portable Phone and/or Charger, and/or SIM Card Reader, and/or Wake-up circuitry. DTC will be set. Hand Set will not function.	Improper or no operation of the Portable Phone and/or Charger, and/or SIM Card Reader, and/or Wake-up circuitry. DTC will be set.
J1-Telephone Connector/ PIN-25 / Reserved.	None.	None.	None.
J1-Telephone Connector/ PIN-26 / Tel TxD - TXD for Portable Phone/ DSC uplink.	No communication on the Portable Phone. Loss of functionality. DTC will be set.	No communication on the Portable Phone. Loss of functionality. DTC will be set.	No communication on the Portable Phone. Loss of functionality. DTC will be set.
J1-Telephone Connector/ PIN-27 / Tel RTS - Portable Flow Control.	Improper and/or no communication on the Portable Phone. Loss of functionality. DTC will be set. Hand Set will not function.	No communication on the Portable Phone. Loss of functionality. DTC will be set.	Improper and/or no communication on the Portable Phone. Loss of functionality. DTC will be set. Hand Set will not function.
J1-Telephone Connector/ PIN-28 / Mic2 In GND - NOT USED.	None.	None.	None.
J1-Telephone Connector/ PIN-29 / Mic2 In+ - NOT USED.	None.	None.	None.
J1-Telephone Connector/ PIN-30 / Tel Audio Tx - Portable TX Audio.	No Audio signal to the Portable Phone. DTC will be set.	Unreliable or no Audio signal to the Portable Phone.	No Audio signal to the Portable Phone. DTC will be set.
J1-Telephone Connector/ PIN-31 / Tel GND - Portable GND.	None.	Unreliable GND for the Portable Phone. Signal may be lose.	No Audio signal to the Portable Phone. DTC will be set.
J1-Telephone Connector/ PIN-32 / Portable Phone Power.	No power for the Portable Phone. Loss of functionality. DTC will be set.	No power for the Portable Phone. Loss of functionality. DTC will be set.	None.
J1-Telephone Connector/ PIN-33 / Comp On/Off - Compensator On/Off (ECE/USA).	None.	Unable to turn On/Off compensator. Loss of functionality.	Unable to turn On compensator. Loss of functionality.
J1-Telephone Connector/ PIN-34 / Tel On/Off/WU - On/Off Control Portable.	Unable to turn Off Portable Phone.	Unable to turn On/Off Portable Phone. DTC will be set. Hand Set will not function.	None.
J1-Telephone Connector/ PIN-35 / Reserved.	None.	None.	None.
J1-Telephone Connector/ PIN-36 / Tel RxD - RXD for Portable Phone/ DSC Downlink.	No communication on the Portable Phone. Loss of functionality. DTC will be set. Hand Set will not function.	No communication on the Portable Phone. Loss of functionality. DTC will be set. Hand Set will not function.	No communication on the Portable Phone. Loss of functionality. DTC will be set. Hand Set will not function.

J1-Telephone Connector/ PIN-37 / Tel CTS - Portable Flow Control.	No communication on the Portable Phone. Loss of functionality. DTC will be set. Hand Set will not function.	No communication on the Portable Phone. Loss of functionality. DTC will be set. Hand Set will not function.	No communication on the Portable Phone. Loss of functionality. DTC will be set. Hand Set will not function.
J1-Telephone Connector/ PIN-38 / Tel Shield - Portable Shield.	None.	Additional Audio noise.	PCB trace or wire may open.
J1-Telephone Connector/ PIN-39 / Tel Audio GND - Portable Audio GND.	None.	Additional Audio noise.	PCB trace or wire may open.
J1-Telephone Connector/ PIN-40 / Tel Audio Rx - Portable RX Audio.	No communication on the Portable Phone. Loss of functionality. DTC will be set. Hand Set will not function.	No communication on the Portable Phone. Loss of functionality. DTC will be set. Hand Set will not function.	No communication on the Portable Phone. Loss of functionality. DTC will be set. Hand Set will not function.
J2-Telematic Connector/ PIN-1 / Mic1 In+.	No Audio signal. Loss of functionality. DTC will be set.	No Audio signal. Loss of functionality. DTC will be set.	No Audio signal. Loss of functionality. DTC will be set.
J2-Telematic Connector/ PIN-2 / SIM Shield - SIM Card Reader Shield.	None.	Additional Audio noise.	PCB trace or wire may open. DTC will be set.
J2-Telematic Connector/ PIN-3 / SIM On/Off - SIM Card Reader On/Off.	Unable to turn On SIM Card Reader. Loss of functionality. DTC will be set.	Unable to turn On/Off SIM Card Reader. Loss of functionality. DTC will be set.	Unable to turn Off SIM Card Reader. Loss of functionality. DTC will be set.
J2-Telematic Connector/ PIN-4 / IC LED - Visual Feedback Inside Button.	LED will never light up, may damaged.	LED will never light up.	LED will never turn Off.
J2-Telematic Connector/ PIN-5 / TD LED - Visual Feedback Inside Button.	LED will never light up, may damaged.	LED will never light up.	LED will never turn Off.
J2-Telematic Connector/ PIN-6 / EC LED - Visual Feedback Inside Button.	LED will never light up, may damaged.	LED will never light up.	LED will never turn Off.
J2-Telematic Connector/ PIN-7 / Reserved.	None.	None.	None.
J2-Telematic Connector/ PIN-8 / Reserved.	None.	None.	None.
J2-Telematic Connector/ PIN-9 / Reserved.	None.	None.	

J2-Telematic Connector/ PIN-10 / Reserved.	None.	None.	None.
J2-Telematic Connector/ PIN-11 / Mic1 In GND.	None.	Improper/or no Audio signal. Possibility to lose functionality. DTC will be set.	No Audio signal. Loss of functionality. DTC will be set.
J2-Telematic Connector/ PIN-12 / SIM RTS - SIM Card Presence Detect.	Improper/or no detection of presence of the SIM Card. DTC will be set.	Improper/or no detection of presence of the SIM Card.	Improper/or no detection of presence of the SIM Card. DTC will be set.
J2-Telematic Connector/ PIN-13 / SIM CTS - SIM Card Reader Detect Override.	Improper/or no detection of presence of the SIM Card. DTC will be set.	Improper/or no detection of presence of the SIM Card. DTC will be set.	Improper/or no detection of presence of the SIM Card. DTC will be set.
J2-Telematic Connector/ PIN-14 / Reserved.	None.	None.	None.
J2-Telematic Connector/ PIN-15 / NOT USED.	None.	None.	None.
J2-Telematic Connector/ PIN-16 / H-Button 2	None.	None.	None.
J2-Telematic Connector/ PIN-17 / Mute	Unable to MUTE Radio.	Unable to MUTE Radio.	Radio will be MUTED constantly.
J2-Telematic Connector/ PIN-18 / NOT USED.	None.	None.	None.
J2-Telematic Connector/ PIN-19 / Trunk - Discrete Input.	During Engineering Test will cause Test code to Reset DTC will be set. Loss of functionality.	None.	Unable to maintain Engineering Test. DTC will be set.
J2-Telematic Connector/ PIN-20 / Spkr In - Audio Signal from AGW.	Improper/or no Audio Signal from the Service Operator. Loss of functionality. DTC will be set.	No Audio Signal from the Service Operator. Loss of functionality. DTC will be set.	No Audio Signal from the Service Operator. Loss of functionality. DTC will be set.
J2-Telematic Connector/ PIN-21 / D-CAN Hi - Diagnosis CAN.	No messages from the CAN interface. Loss of diagnostic. DTC will be set.	No communication on the CAN lines. Loss of functionality. DTC will be set.	No messages from the CAN interface. Lost of diagnostic. DTC will be set.
J2-Telematic Connector/ PIN-22 / SIM Rx D - DSC Downlink.	No communication on the SIM Card lines. Loss of functionality. DTC will be set.	No communication on the SIM Card lines. Loss of functionality. DTC will be set.	No communication on the SIM Card lines. Loss of functionality. DTC will be set.
J2-Telematic Connector/ PIN-23 / SIM Tx D - DSC Uplink.	No communication on the SIM Card lines. Loss of functionality. DTC will be set.	No communication on the SIM Card lines. Loss of functionality. DTC will be set.	No communication on the SIM Card lines. Loss of functionality. DTC will be set.
J2-Telematic Connector/ PIN-24 / IC BUT - Switch.	DTC will be set. No activation.	Unable to activate the IC call. DTC will be set.	DTC will be set. Unable to turn Off.

J2-Telematic Connector/ PIN-25 / TD BUT - Switch.	DTC will be set. No activation.	DTC will be set. No activation.	DTC will be set. Unable to turn Off.
J2-Telematic Connector/ PIN-26 / EC BUT - Switch.	DTC will be set. No activation.	DTC will be set. No activation.	DTC will be set. Unable to turn Off.
J2-Telematic Connector/ PIN-27 / BPS I/F RX - Control Data. NOT USED.	None.	None.	None.
J2-Telematic Connector/ PIN-28 / BPS I/F ENA - I/F Control. NOT USED.	None.	None.	None.
J2-Telematic Connector/ PIN-29 / Cntrl Relay - NOT USED.	None.	None.	None.
J2-Telematic Connector/ PIN-30 / Spkr In+ - Audio Signal from AGW. NOT USED.	None.	None.	None.
J2-Telematic Connector/ PIN-31 / D-CAN Lo - Diagnosis CAN. NOT USED.	None.	None.	None.
J2-Telematic Connector/ PIN-32 / D-CAN Shield - Shielding.	None.	No messages from the CAN interface. Lost of diagnostic.	No Shield for the CAN. No messages from the CAN interface. Lost of diagnostic. DTC will be set.
J2-Telematic Connector/ PIN-33 / Eng I/F Rx.	Unable to provide Engineering Test. DTC will be set.	Unable to provide Engineering Test. DTC will be set.	Unable to provide Engineering Test. DTC will be set.
J2-Telematic Connector/ PIN-34 / Eng I/F Tx.	Unable to provide Engineering Test. DTC will be set.	Unable to provide Engineering Test. DTC will be set.	Unable to provide Engineering Test. DTC will be set.
J2-Telematic Connector/ PIN-35 / Crash - Digital Crash Input (200 Bd).	No Crash signal will be receive. Loss of functionality. DTC will be set.	No Crash signal will be receive. Loss of functionality. DTC will be set.	No Crash signal will be receive. Loss of functionality. DTC will be set.
J2-Telematic Connector/ PIN-36 / BPS I/F TX - Control Data. NOT USED.	None.	None.	None.
J2-Telematic Connector/ PIN-37 / BPS + - Backup Power Line.	Unable to activate the BPS device. Loss of functionality. DTC will be set.	Unable to activate the BPS device. Loss of functionality. DTC will be set.	Unable to turn Off the BPS device. Loss of functionality. DTC will be set.
J2-Telematic Connector/ PIN-38 / BPS + - Backup Power Line.	Unable to activate the BPS device. Loss of functionality. DTC will be set.	Unable to activate the BPS device. Loss of functionality. DTC will be set.	Unable to turn Off the BPS device. Loss of functionality. DTC will be set.

J2-Telematic Connector/ PIN-39 / Spkr Out- Audio Ground to Center Speaker.	None.	Unstable GND for the Speaker. Distortions and/or noise on the Audio Signal.	No Audio signals on the Speaker. DTC will be set.
J2-Telematic Connector/ PIN-40 / Spkr Out+ - Audio Signal to Center Speaker.	No Audio signals on the Speaker. DTC will be set.	No Audio signals on the Speaker. DTC will be set.	No Audio signals on the Speaker. DTC will be set.
FAKRA Single Connector/ PIN 1/ GPS+ - GPS RF Signal & Antenna Power.	No GPS RF Signal, no Antenna Power. Loss of functionality. DTC will be set.	No GPS RF Signal, no Antenna Power. Loss of functionality. DTC will be set.	
FAKRA Single Connector/ PIN 2/ GPS GND.	None.	Unstable GND for the GPS & Antenna. Signal may be lost. DTC will be set.	
FAKRA Triple Connector/ PIN 1/ Main Antenna-Phone RF.	Main Antenna will be grounded. No RF signal from/to Main Antenna. DTC will be set.	No RF signal from/to Main Antenna. DTC will be set.	
FAKRA Triple Connector/ PIN 2/ Main Antenna GND.	None.	Unstable GND for the Main Antenna. Signal may be distorted.	
FAKRA Triple Connector/ PIN 3/ Portable Antenna - Phone RF.	Portable Antenna will be grounded. No RF signal from/to Portable Antenna. DTC will be set.	No RF signal from/to Portable Antenna. DTC will be set.	
FAKRA Triple Connector/ PIN 4/ Portable Antenna GND.	None.	Unstable GND for the Portable Antenna. Signal may be distorted.	
FAKRA Triple Connector/ PIN 5/ Backup Antenna - Phone RF.	Backup Antenna will be grounded. No RF signal from/to Portable Antenna. DTC will be set.	No RF signal from/to Backup Antenna. DTC will be set.	
FAKRA Triple Connector/ PIN 6/ Backup Antenna GND.	None.	Unstable GND for the Portable Antenna. Signal may be distorted.	

4.3.3 MHI FMEA Table

BLOCK Item Function	Shorted to Battery	Open.	Shorted to Ground
DIAG_TXD J1-1	None	None	None
DIAG_RXD J1-2	None	None	None
Ground J1-3	Attached Fuse will blow.	increased current through J1-4	None
Ground J1-4	Attached Fuse will blow.	increased current through J1-3	None
No Connect J1-5	None	None	None
HUC Data Shield J1-6	Attached Fuse will blow.	Lower immunity to EMI.	None
No Connect J1-7	None	None	None
No Connect J1-8	None	None	None
No Connect J1-9	None	None	None
CP_SHIELD J1-10	Attached Fuse will blow.	Lower immunity to EMI. May have additional noise on uplink audio.	None
MIC SHIELD J1-11	Attached Fuse will blow.	Lower immunity to EMI. May have additional noise on uplink audio.	None
MIC- J1-12	Loss or degradation of Microphone (audio uplink) performance may occur.	Loss or degradation of Microphone (audio uplink) performance. Module will go into Re-flash Mode. "No Phone" will be displayed.	Loss or degradation of Microphone (audio uplink) performance may occur.
CP_MIC_OUT J1-13	No Downlink audio from ATX.	No Downlink audio from ATX.	No Downlink audio from ATX.
HUC_SKRIN+ J1-14	Degradation of downlink audio quality. Lower noise immunity.	Degradation of downlink audio quality. Lower noise immunity.	Degradation of downlink audio quality. Lower noise immunity.
HUC_MICOUT+ J1-15	Degradation of uplink audio quality. Lower noise immunity.	Degradation of uplink audio quality. Lower noise immunity.	Degradation of uplink audio quality. Lower noise immunity.
HUC_MICOUT- J1-16	Degradation of uplink audio quality. Lower noise immunity.	Degradation of uplink audio quality. Lower noise immunity.	Degradation of uplink audio quality. Lower noise immunity.
HUC_BATT J1-17	None	Loss of cradle functionality, loss of communication with Cradle	Fuse will blow.
HUC_GROUND J1-18	Attached Fuse will blow.	MHI module may go into re-flash mode and will cause excess current draw.	None

HUC_AUDIO Shield J1-19	Attached Fuse will blow.	Lower immunity to EMI. May have additional noise on uplink and downlink audio.	None
V_BATTERY J1-20	None	Higher current will be seen on J1-21	7.5 amp Fuse will Blow
V_BATTERY J1-21	None	Higher current will be seen on J1-20	7.5 amp Fuse will Blow
HUC_TXD- J1-22	None	Loss of cradle functionality, loss of communication with Cradle	Fuse or 0 ohm jumper will blow.
HUC_TXD+ J1-23	None	Loss of cradle functionality, loss of communication with Cradle	Fuse or 0 ohm jumper will blow.
MOST_WAKE J1-24	MOST ring will not be able to wakeup.	MOST ring will not be able to wakeup.	MOST bus kept on, excess current draw, may cause battery drain.
HUC_RXD+ J1-25	Loss of cradle functionality, loss of communication with Cradle	Loss of cradle functionality, loss of communication with Cradle	Loss of cradle functionality, loss of communication with Cradle
HUC_RXD- J1-26	Loss of cradle functionality, loss of communication with Cradle	Loss of cradle functionality, loss of communication with Cradle	Loss of cradle functionality, loss of communication with Cradle
HUC_SPKRIN- J1-27	Degradation of downlink audio quality. Lower noise immunity.	Degradation of downlink audio quality. Lower noise immunity.	Degradation of downlink audio quality. Lower noise immunity.
Compensator J1-28	degradation of cellular performance	degradation of cellular performance	degradation of cellular performance
MIC1 J1-29	Degradation of audio quality on uplink. DTC 670	Degradation of audio quality on uplink. DTC 670	Degradation of audio quality on uplink. DTC 671
MIC2 J1-30	Degradation of audio quality on uplink. DTC 672	Degradation of audio quality on uplink. DTC 672	Degradation of audio quality on uplink. DTC 673
MIC3 J1-31	Degradation of audio quality on uplink. DTC 674	Degradation of audio quality on uplink. DTC 674	Degradation of audio quality on uplink. DTC 675
MIC4 J1-32	Degradation of audio quality on uplink. DTC 676	Degradation of audio quality on uplink. DTC 676	Degradation of audio quality on uplink. DTC 677
FAKRA Single Connector/ PIN 1/ Bluetooth Signal & Antenna Power.	No Bluetooth RF Signal, no Antenna Power. Loss of functionality. DTC 6A2 will be set.	No Bluetooth RF Signal, no Antenna Power. Loss of functionality. DTC 6A1 will be set.	No Bluetooth RF Signal, no Antenna Power. Loss of functionality. DTC 6A1 will be set.
FAKRA Single Connector/ PIN 2/ Bluetooth GND.	Attached Fuse will blow.	Degradation in Bluetooth Performance	None

4.4 Preliminary Troubleshooting Procedure

1. Verify the Problem

Assure that the problem is not due to operator error. It is important that the operator is familiar with how the telephone package functions. Refer to the owner's manual for specific phone function capability.

2. Verify that the Handset is the Correct One for the Customer's Coverage Area

Handset part numbers are carrier dependent. If the part number of the handset does not correspond with the carrier specific number, the phone will not function properly and will appear to be defective. Refer to the parts department to find the correct handset type (CDMA or TDMA), and carrier specific part number for the customer's carrier preference.

The part numbers can also be found on the web at: <http://www.mbusaphones.com>. This site is provided by Motorola and is intended for dealer use only. The site is password protected. Enter "mbusa" for the "User Name" entry, and "k2option" for the "Password", both entries need to be in lower case letters, and then select "O.K."

3. Assure that the Handset is Programmed Correctly

Assure that the phone is properly programmed and activated. If the customer is switching cell service from analog to digital, inform the carrier that the new phone is digital to avoid activation problems. Make a test call to verify that the carrier has activated the phone, and that it has been programmed correctly.

4. Assure that the System is Installed Properly

Inspect the installation of the system. Assure that all component connections and wiring connectors are properly connected. Assure that the Compensator has not been installed backwards (reversed in the antenna line).

5. Check Applicable Fuses

Assure that all fuses are good. In addition to checking the fuses for the phone system, other vehicle systems which interface with the telephone package might have a blown fuse, such as the radio, etc, which would affect the operation of the phone functions. If a fuse is blown, determine the cause to eliminate the problem from reoccurring.

6. Signal Quality

If the problem is poor signal quality, assure that it is not a carrier problem. Eliminate the possibility of a cell site malfunction or other carrier related anomaly by calling the customer's carrier to verify that they are not experiencing technical problems. A bad signal could also be the result of the operator being outside of, or on the edge of, a carrier provider's coverage area.

Tall buildings, hills or mountains, valleys, inside buildings, etc, can "block" the RF signal and give a false impression that the telephone package is defective. Some examples would be, inside the center of a building with few or no windows, an under-ground parking facility where the signal is virtually blocked in both directions (receive/transmit) by the structure, driving through tunnels, etc.

7. Inspect the Coil Cord

Assure that the phone to coil cord connection is good. Closely inspect the male connection at the end of the coil cord and the female connection on the bottom end of the handset for missing or damaged pins, corrosion, etc.

8. Assure that all Components are Receiving Power and have a good Ground Path

Refer to the electrical diagrams in section 4 to assure that power and ground is present for each component.

9. Inspect and Test the Handset

Use a known good handset to determine whether the problem is with the portable or mobile mode. Test a known good handset in the mobile mode. If the system functions correctly with a known good handset, then the mobile side of the system is not likely the problem. Make several trials with the known good handset and the original, to rule out the possibility of an intermittent problem with either mode.

If the problem is suspected to be with the portable mode, assure that the battery is fully charged and not defective. Use a known good battery when testing in portable mode. Inspect the handset's antenna for damage and assure that it is properly secured and extended when testing in portable mode.

The handset utilizes different circuitry internally for each mode; therefore a handset might operate correctly in the portable mode but not in the mobile mode. For example if the coil cord receptacle on the bottom of the handset is defective, then the handset would function properly in the portable mode, but may present integration issues when handset is placed in cradle for mobile mode.

Assure that the handset is not using the "Lock" security feature before troubleshooting the system. The handset will not function if the phone is locked. Assure that steps '1' thru '9' have been performed before deciding that a component is defective and returning it to the warranty department.

10. Troubleshooting Procedures

If all of the steps in this procedure have been completed, and the problem was not found, then go to the troubleshooting procedures that pertain to the malfunction (sections 6.2 thru 6.10) and continue with the problem-solving process.

4.4.1 Handset Keypad Or Display Problems

1. With the phone in portable mode (disconnected from the vehicle), turn on the phone. With the phone still on, press “8” twenty times.

Does the handset display show twenty “8’s” with all segments?

Yes – All display segments are functioning. Go to Step B.

No – Handset display segments incomplete. Handset is defective. Replace. **END**

2. With the phone still on, press and hold CLR for 2 seconds. Press 123456789*0#.

Does the handset display 1-2-3-4-5-6-7-8-9*-0-#?

Yes – Tested buttons on the handset are functioning properly. Press and hold the CLR button for 2 seconds. Go to STEP C.

No – Handset buttons are not functioning properly. Handset is defective. Replace. **END**

3. Press “RCL-END”, “STO-END”, “CLR-END”, “FCN-END”, “Mail-END”, “SENDEND”.

Is a beep heard for each key pressed in the above sequence? Yes –

Tested buttons on the handset are functioning properly. **END No –**

Defective button detected on handset. Replace. **END**

4.4.2 No Battery Charging While Plugged Into the Vehicle

1. Place the portable with a battery installed in the vehicle’s holder with coil cord plugged into the phone. Turn on the ignition and check the battery indicator on the portable’s display.

Is the battery indicator flashing?

Yes – The PSE system is operating properly. Go to Step 3

No – Substitute a known good battery.

Is the battery indicator flashing?

Yes – Original battery was defective. **END No**

– Reinstall original battery. Go to Step 2

2. Substitute a known good coil cord. Power up the phone system.

Is the battery indicator flashing?

Yes – Original coil cord is defective. **END**

No – Reinstall the original coil cord. Go to Step 3.

3. Substitute a known good phone. Power up the phone system.

Is the battery indicator flashing?

Yes – Original phone is defective. **END**

No – Reinstall original phone. Go to Step 4.

4. Substitute a known good PSE, and with the ignition on, connect the coil cord to the portable with the battery installed on the portable.

Is the battery indicator flashing?

Yes – Original PSE was defective. **END No**

– Reinstall original PSE. Go to Step 5.

5. Substitute a 25-pin sub-wire harness. Power up the phone system.

Is the battery indicator flashing?

Yes – Original 25-pin sub-wire harness is defective. **END**

No – Call the Mercedes-Benz Regional Technical Support Specialist for assistance.

4.4.3 Phone Does Not Power Up

1. Does phone power up in Portable Mode (coil cord unplugged)? **Yes** – Go to STEP 2. **No** – Remove the battery; inspect battery connectors between the handset and battery.

Are handset battery connectors in good condition?

No - If broken or non-repairable, replace the handset. Call service provider to activate new handset ESN. Perform “Initial installation checks”. **END**

Yes - Install a freshly charged battery.

Does the phone power up in Portable Mode (coil cord unplugged)?

No - Handset is defective. Replace the handset. Call service provider to activate new handset ESN. Program phone in Portable Mode (coil cord unplugged). Enter customer’s security and unlock code. Enter numbers stored in memory (enter them one at a time). If numbers not available, advise customer that numbers were not retrievable from handset. Perform “Initial Installation Checks”. **END**

Yes - Charge customer’s battery enough to test. (8 hours on overnight charger or ½ hour in vehicle with coil cord connected.)

Does the phone power up in Portable Mode (coil cord unplugged)?

No - Perform the Basic Battery Tests on the troubleshooting chart.

Yes - Inform customer of correct charging procedure and maintenance. Also inform customer about approximate talk times. **END**

2. Does the phone power up in the Mobile Mode (coil cord plugged in)? **Yes** - With the phone powered up, shake the coil cord.

Does the phone stay "ON"?

Yes - No problem found. Secure further information from the customer. **END No**

- Go to STEP 3.

No - Go to STEP 3.

3. Install new coil cord.

Does phone power up in Mobile Mode (coil cord plugged in)?

Yes - With the phone powered up, shake the coil cord.

Does the phone stay "ON"?

Yes - Coil cord defective. **END**

No - Reinstall original coil cord. There is a connection problem between the coil cord and the handset. Carefully clean the connectors and retry. **END**

No - Reinstall original coil cord. Go to STEP 4.

4. Gain access to the PSE and RF compensator.

5. Are the connectors of the Y harness firmly connected with the RF compensator and PSE?

Yes - Go to STEP 7.

No - Reseat Y harness connectors.

Does the phone power up?

Yes - Y harness improperly connected. **END No**

- Go to STEP 6.

6. Disconnect the Y harness from the PSE.

7. Turn the ignition on.

8. Check for battery voltage at pins 4 and 16 of the 25-pin connector for the PSE.

Is battery voltage available at each location?

Yes - Go to STEP 9.

No - Remove the Y harness.

With the ignition on, is voltage present at pins 4 and 16 of the 25-pin connector of the vehicle pre-wire?

Yes - Replace the Y harness. **END**

No - Repair vehicle wiring/fuse between the battery and the 25-pin connector of the vehicle pre-wire Use appropriate Electrical Wiring Diagram manual to locate best test locations. **END**

9. Check pins 3 and 17 of the PSE connector of the Y harness for proper continuity to ground.

Continuity to ground confirmed?

Yes - Go to STEP 10.

No - Remove the Y harness. Check for continuity between pins 3 and 17 of the 25-pin connector of the vehicle pre-wire and ground.

Continuity to ground confirmed?

Yes - Replace the Y harness. **END**

No - Repair faulty ground connection between vehicle pre-wire and ground. Use appropriate Electrical Wiring Diagram manual to locate best test locations. **END**

10. Reconnect Y harness connector to the PSE.

Does the phone power up in the Mobile Mode (coil cord plugged in)?

Yes - Clean and tighten connections that have been moved. **END No** - Go to STEP 11.

11. Disconnect the RF compensator. (Leave the PSE connected).

Does the phone power up in the mobile mode?

Yes - Original RF compensator defective. **END**

No - Reconnect the RF compensator. Go to STEP 12.

12. Install a known good PSE.

Does the phone power up?

Yes - Original PSE defective. **END**

No - Reinstall original PSE. Go to STEP 13.

13. Substitute a known good coil cord.

Does the phone power up?

Yes - Coil cord defective. **END No**

- Go to STEP 14.

14. Substitute a known good Y harness.

Does the phone power up?

Yes - Defective Y harness. **END**

No - Reinstall original Y harness. Go to STEP 15.

15. Install a known good portable phone. (No need to program)

Does the phone power up?

Yes - Original portable phone faulty.

A. Call service provider to activate new ESN.

B. Program phone in Portable Mode (coil cord unplugged).

C. Transfer numbers stored in memory. (Enter them one at a time.)

D. Perform "Initial Installation" checks. **END**

No - Reinstall original portable phone. Not a cellular phone problem. Inspect vehicle wiring.

4.4.4 No Keypad Tones And/Or No Incoming Audio In Hands-free Mode From Vehicle Speakers

1. Turn on the ignition and turn on the phone. In the Mobile Mode (coil cord plugged in), listen for tones when the portable handset keys are pressed.
2. Are tones audible from speakers? **Yes** - With the coil cord plugged in and the handset in the cradle, place a hands-free call and listen for incoming audio at the appropriate door speaker.

Incoming audio heard?

Yes - No trouble found. Get further information from the customer. **END No**

- Key tones are heard-no incoming audio. Go to STEP 3.

No - Ensure "Keypad Tone" feature is turned on. To access "Feature Menu" press "FCN-1" and use "#" or "*" to scroll and locate "Tone Control," press "STO." Use "#" or "" to scroll and locate "Keypad Tones. If "Keypad Tones Off" is displayed, press the smart key to turn tones back on.

Are tones audible from speakers?

Yes - Improper programming-programming corrected. **END No**

- Tones are not audible from keypad. Go to STEP 4.

3. During the hands-free call, can the land party hear you? **Yes** - Go to STEP 18. **No** - Go to STEP 15.

4. Dial a number on the head unit and attempt to place a call to the number dialed.

Call placed?

Yes - Go to STEP 9.

No - Check the connections of the D2B cable into the PSE and into the vehicle cabling. Go to STEP 6.

5. Listen for tones when handset keys are pressed.

Tones heard at speaker?

Yes - Poor connection caused problems. **END**

No - Replace the D2B fiber optic cable, which connects to the PSE with a known good cable. Go to STEP 7.

6. Listen for tones when handset keys are pressed.

Tones heard at speaker?

Yes - Defective D2B cable. **END**

No - Substitute a known good PSE. Go to STEP 8.

7. Listen for tones when handset keys are pressed.

Tones heard at speaker?

Yes – Defective PSE. **END**

No – Replace original PSE. Not a cellular phone related problem. Repair head unit or vehicle wiring problem.

8. Check connections of PSE 25 pin Y harness cable to make sure connectors are firmly mated. Go to STEP 10.

9. Listen for tones when handset keys are pressed.

Tones heard at speaker?

Yes – Poor connection caused problem. **END**

No – Replace the PSE 25 pin Y harness cable with a known good cable. Go to STEP 11.

10. Listen for tones when handset keys are pressed.

Tones heard at speaker?

Yes – Defective Y harness. **END**

No – Replace the Y harness cable with the original. Go to STEP 12.

11. Replace the PSE with a known good PSE. Listen for tones when handset keys are pressed.

Tones heard at speaker? Yes

– Defective PSE. **END**

No – Re-install the original PSE in the vehicle. Go to STEP 13.

12. Replace the coil cord with a known good coil cord. Listen for tones when handset keys are pressed.

Tones heard at speaker?

Yes – Defective coil cord. **END**

No – Re-install the original coil cord in the vehicle. Go to STEP 14.

13. Replace the phone with a known good phone. Listen for tones when handset keys are pressed.

Tones heard at speaker?

Yes – Defective phone. **END**

No – Not a cellular phone related problem. Repair vehicle wiring. **END**

14. Substitute a known good Y harness. Place a hands-free call (coil cord plugged in) with handset in cradle.

Can both parties be heard?

Yes - Original Y harness faulty. **END**

No - Reinstall original Y harness and substitute a known good coil cord. Go to STEP 16.

15. Power up phone and listen for tones when handset keys are pressed.

Tones heard at speaker?

Yes - Defective coil cord. **END**

No - Reinstall original coil cord and substitute a known good PSE. Go to STEP 17.

16. Place a hands-free call (coil cord plugged in) with handset in cradle.

Can both parties be heard?

Yes - Original PSE faulty. Perform "Initial Installation" checks. **END**

No - Reinstall original PSE. Call Mercedes-Benz Regional Technical Support for further assistance. **END**

17. Check for tight/good connections of the Y harness and PSE.

Place a hands-free call. Can you hear the land party?

Yes - Loose connections caused problem. **END** **No** - Go to STEP 19.

18. Substitute a known good PSE. Place a hands-free call.

Can you hear the land party?

Yes - Original PSE faulty. Perform "Initial Installation" checks. **END**

No - Reinstall original PSE. Call technical support number for further assistance. **END**

4.4.5 Static During Calls And/Or Dropped Calls

These types of problems usually require detailed input from the customer. The questions asked of the customer will greatly assist in obtaining a correct conclusion. **MOST OF THE PROBLEMS IN THIS AREA ARE RELATED TO POOR COVERAGE BY THE SYSTEM PROVIDER.** Most complaints relating to the performance of the cellular telephone are not due to a malfunction of the Telephone System or the Cellular Network itself. It is more likely that the cause lies in the characteristics inherent to wireless communications. Radio signals both transmitted and received by the cellular telephone work best when there is an unobstructed path between the phone's antenna and the network's "base site" antennas. Because of the reflecting characteristics of the cellular phone radio signal, directed and reflected signals may reach the antenna at the same time ("multi-path"). They cancel each other out, creating small "islands" where audio "nulls" occurs. As the car moves through these spots, the caller will hear a momentary flutter. This same characteristic causes "ghost" images in television when an airplane flies over. Multi-path can also cause a "cross-talk" phenomenon, where the driver may temporarily hear another cellular conversation.

Common symptoms, which may occur in a cellular conversation, are: ○
Static, Lack of coverage or "multi-path" condition.

- o Cross talk: The cellular telephone has captured a "voice channel" from another base site due to weak coverage or multi-path condition. This is a landline or system coverage problem.
- o Dropped calls: Weak coverage area, multi-path condition, or "system" drop.
- o Clicks/occasional chopped word: System handoff to another base site.
- o Increased/decreased volume at either landline or vehicle.
- o Echo or feedback: The current "voice channel" that the system has assigned to the cellular telephone has a higher or lower gain, or more or less "side tone," compared to a previous channel.

It is extremely important to confirm that there is in fact good coverage in the area where difficulties are encountered. "Dead" or "Black" zones are very prevalent in all areas.

1. In which mode below are static or dropped calls experienced?
 - A. Portable Mode only (coil cord unplugged).
Go to STEP 2.
 - B. Mobile Mode only (coil cord plugged in).
Go to STEP 4.

If the problem exists in both the Mobile and Portable Modes-most likely this is a cellular system problem and not the phone in the vehicle. If available, compare to another phone on the same cellular provider. If this is not possible, use the Portable Mode (A) test first and then proceed with the Mobile Mode (B) test.

2. In the Portable Mode (coil cord unplugged), is the static/dropped call condition Not Evident Now (Intermittent) or Evident Now (Continuous)?

Not Evident Now (Intermittent) -Question the customer to determine if he/she has noted a pattern such as the same location, time of day, or type of geography (hills, valleys, tunnels, etc.) during which the static/dropped call problem occurs and what is the SSM (Signal Strength Meter) at the time of the occurrence. (As with any intermittent complaint, do not replace parts without confirming the condition.) Record all information on the "Troubleshooting Questionnaire."

Is Signal Strength Meter High or Low (Portable Mode)?

High - 3 bars or more. Go to STEP 3.

Low - 2 bars or less. Most probable no malfunction exists. Some static is normal in this range and it is likely that calls could be dropped if conditions change, but reconfirm that antenna is in good condition and properly installed. Ask customer to gather more data if condition persists, paying particular attention to the SSM. **END**

Evident Now (Continuous -meaning it is present now!) - Place a call to reconfirm the noise. Make sure signal strength is **3 bars** or more! Obtain another Portable Plus phone. Place a call from each unit in the same area in Portable Mode.

Do both units exhibit the same problem?

Yes - Not a fault with the phone. This may be a temporary cellular system issue. **END**

No – Are both phones on the same carrier?

Yes - Customer handset is malfunctioning. Replace handset.

- A. Call service provider to activate new ESN.
- B. Program phone in Portable Mode (coil cord unplugged).
- C. Transfer numbers stored in locations 1-99. (Enter them one at a time.)
- D. Perform "Initial Installation" checks. **END**

No - The two phones are on different carriers. Locate a test phone on the same carrier and repeat the test procedure. Static may be on one carrier, but not on the other.

Do both units exhibit the same problem?

Yes - Not a fault with the phone. **END**

No - If original phone still exhibits the problem, the handset is faulty; replace handset.

- A. Call service provider to activate new ESN.
- B. Program phone in Portable Mode (coil cord unplugged).
- C. Transfer numbers stored in locations 1-99. (Enter them one at a time.)
- D. Perform "Initial Installation" checks. **END**

3. Place a few calls in Portable Mode (coil cord unplugged), listening for static or a dropped call.

Static/dropped call experienced? (If not sure, compare with another unit, if available.)

No - Describe to the customer the cellular system characteristics that will cause these problems, and advise of areas that may cause static/dropped calls. Also have the customer check the SSM at the time of the occurrence. Advise the customer that a Low SSM will have static and the strong possibility of dropped calls. **END**

Yes – Check the System ID and phone number information. (Refer to phone manual for instructions.)

Is information correct for chosen carrier?

Yes - Place a few more calls to reconfirm the condition.

Is static/dropped call experienced?

Yes - Original handset faulty. Replace handset.

- A. Call service provider to activate new ESN.
- B. Program phone in portable mode (coil cord unplugged).
- C. Transfer numbers stored in locations 1-99. (Enter them one at a time.)
- D. Perform "Initial Installation" checks. **END**

No - Describe to the customer the cellular system characteristics that will cause these problems, and advise of areas that may cause static/dropped calls. Also have the customer check the SSM at the time of the occurrence. Advise the customer that a Low SSM will have static and the strong possibility of dropped calls. **END**

No - Correct programming error and retest for static/dropped calls by placing a few calls in Portable Mode (coil cord unplugged). (Refer to Easy Programming Card or call Motorola Technical Support for instructions)

Is static/dropped call experienced (Portable Mode)?

Yes - Original handset faulty Replace handset.

A. Call service provider to activate new ESN.

B. Program phone in Portable Mode (coil cord unplugged).

C. Transfer numbers stored in locations 1-99. (Enter them one at a time.)

D. Perform "Initial Installation" checks. END

No – Programming error caused problems. END

4. In the Mobile Mode (coil cord plugged in) is the static/dropped call condition Evident Now or Not Evident Now?

Not Evident Now (Intermittent) - Question the customer to determine if he/she has noted a pattern such as the same location, time of day, or type of geography (hills, valleys, tunnels, etc.) during which the static/dropped calls problem occurs and what is the SSM at the time of the occurrence. (As with any intermittent complaint, do not replace parts without confirming the condition.)

Turn on ignition and power up the phone.

Is the SSM 3 bars or more?

Yes - High (3 bars or more) - Go to STEP 5.

No - Low (Less than 3 bars) - Go to STEP 6.

Evident Now (Continuous--meaning It is present NOW) - Place a few calls to reconfirm the complaint is evident now.

Is static/noise present during the calls?

Yes - Go to STEP 8.

No - Problem not evident at this time. Question the customer to determine if he/she has noted a pattern such as the same location, time of day, or type of geography (hills, valleys, tunnels, etc.) during which the static/dropped call problem occurs and what is the SSM at the time of the occurrence. (As with any complaint, do not replace parts without confirming the condition.) Record all information on the "Troubleshooting Questionnaire." **END**

5. Place a few calls to try and confirm customer complaint.

Is customer complaint confirmed?

Yes - Use Evident Now (Continuous) Path. Go to STEP 8.

No - Go to STEP 7.

6. Move the vehicle to several locations with good system

coverage. **Will the SSM indicate a signal greater than 3 bars or more?**

Yes - Most probable that no malfunction exists. Some static is normal in the 2 bar or less range and it is likely that calls could be dropped if conditions change, but reconfirm that antenna is in good condition and properly installed. Ask customer to gather more data if condition persists, paying particular attention to the SSM. **END**

No - Access the compensator and connect the magnetic mount antenna to the compensator connector marked "antenna. Place the magnetic mount "antenna" at the vehicle roof level.

Will the SSM indicate a level higher than 2 bars?

Yes - Reconnect the vehicle's antenna. Go to STEP 11.

No - Disconnect the 5-pin connector and both coaxial connectors from the compensator. Do not disconnect the 25-pin connector from the PSE. (Note: It is OK to leave the compensator disconnected during this test.) Place a double-sided female adapter between the two-coax ends, thus bypassing the compensator.

Does the SSM indicate a level higher than 2 bars?

Yes - Original compensator defective. Replace and confirm. **END**

No - Reconnect the 5-pin connector and antenna coax cables to the compensator. Disconnect coil cord coax connector, install double-sided female adapter to the coil cord and attach magnetic mount antenna.

Does the SSM indicate a level higher than 2 bars?

Yes - Original antenna cable defective. **END NO** -

Replace coil cord with known good cord.

Does the SSM indicate a level higher than 2 bars?

Yes - Original coil cord faulty. **END**

No - Reinstall original coil cord. Substitute a known good handset (no need to program).

Does the SSM indicate a level higher than 2 bars?

Yes - Original handset faulty Replace handset.

A. Call service provider to activate new ESN.

B. Program phone in Portable Mode (coil cord unplugged).

C. Transfer numbers stored in locations 1-99. (Enter them one at a time.)

D. Perform "Initial Installation" checks. **END**

No - Reinstall original handset. Reconfirm condition. Contact Mercedes-Benz Regional Technical Support Specialist for assistance. Document further diagnostic procedures, results, repairs, and time used on work order. **END**

7. During a test call; shake, twist, and move the coil cord around.

Is static/noise present or does it change while shaking or moving the coil cord?

Yes - Substitute a new coil cord and place a few calls while shaking the coil cord as before.

Is static/noise present or does it change while shaking or moving the coil cord?

Yes - Reinstall original coil cord. Go to STEP 11.

No - Defective coil cord. **END**

No - Go to STEP 8

8. Start engine and place a call. While hearing static/noise during the call, vary engine speed.

Is the complaint of static/noise engine speed related?

Yes - Substitute a known good handset.

Noise gone?

Yes - Original handset faulty.

- A. Call service provider to activate new ESN.
- B. Program phone in Portable Mode (coil cord unplugged).
- C. Transfer numbers stored in location 1-99. (Enter them one at a time.)
- D. Perform "Initial Installation" checks. END

No - If problem persists, contact Mercedes-Benz Regional Technical Support Specialist for assistance. Document further diagnostic procedures, results, repairs, and time used on work order. END

No - With the ignition on, power up the phone.

Is SSM 3 bars or more?

Yes - Go to STEP 9.

No - Move vehicle to a known good cellular coverage area.

Is SSM 3 bars or more?

Yes - Go to STEP 9.

No - Go to STEP 6.

9. During a test call shake, twist, and move the coil cord around.

Is static/noise present or did it change while shaking or moving the coil cord?

Yes - Substitute a new coil cord and place a few calls while shaking the coil cord as before.

Is static/noise present or did it change while shaking or moving the coil cord?

Yes - Reinstall **original** coil cord. Go to STEP 10. **No** - Original coil cord defective. END

No - Go to STEP 10.

10. Visually inspect antenna cable for loose connections and antenna for proper installation.

Are connections loose or damaged?

Yes - Fix connection.

Is static/noise present?

Yes - Continue to step 11.

No - Original connection defective. END

No - Continue to step 11.

11. Visually inspect antenna cable for loose connections at the coil cord and compensator.

Are connections loose or damaged?

Yes - Fix connection.

Is static/noise present?

Yes – Continue to step 12.

No – Original connection defective. **END**

No – Continue to step 12.

12. If problem persists, replace PSE, make phone several phone calls.

Is static/noise present?

Yes – Reinstall original PSE. Go to Step 13.

No – Original PSE was defective. **END**

13. Replace 25 pin Y cable, make several phone calls.

Is static/noise present?

Yes – Reinstall original Y cable. Go to Step 14.

No – Original Y cable was defective. **END**

14. Temporarily install a vehicle specific wiring harness between armrest connectors and Y cable, make several test phone calls.

Is static/noise present?

Yes – Reconnect original pre-wire. Go to 15.

No – Original pre-wire was defective. **END**

15. Contact Mercedes-Benz Regional Technical Support Specialist for further assistance. Document further diagnostic procedures, results, repairs and time used on work order. **END**

4.4.6 No Handset Audio (Transmit or Receive) or Landline Cannot Hear Mobile On Handset Or Mobile Cannot Hear Landline On Handset.

The diagnostics that follow assume that the phone operates normally in Portable Mode (Coil Cord Unplugged). Please confirm prior to continuing.

1. Verify complaint by making a handset call (coil cord plugged in); during the call, shake the handset several times.

Can both parties hear each other?

Yes- Problem not evident at this time. Get more information from the customer. End.

No- Transmit /receive audio not heard. Go To STEP 2.

2. Verify 10-pin connector in center armrest is not damaged (bent or missing pins). If damaged replace, otherwise substitute a known good 10-pin connector.

Can both parties hear each other?

Yes- Original 10-pin connector was damaged or defective. **END**

No- Reinstall original 10-pin connector. Go To STEP 3.

3. Substitute a known good handset. (must be programmed with an active number). Place test call.

Can landline hear you?

Yes- Original handset defective.

- A. Call the service provider to activate new ESN.
- B. Program phone in portable mode (coil cord unplugged). Enter customer's security and unlock code.
- C. Transfer ALL of customer's phonebook from old phone to new phone.
- D.** Perform "Initial Installation" checks to verify that phone functions properly in car.
END.

No- Reconnect original handset. Go To STEP 4.

4. Substitute a known good coil cord. Place test call.

Can landline hear you?

Yes- Original coil cord was defective. **END No-**
Reinstall original coil cord. Go To STEP 5.

5. Look at PSE for bent or damaged pins, if pins look good substitute a known good PSE. Place test call.

Can landline hear you? Yes-Original PSE defective. **END No-**Reinstall original PSE.
Go To STEP 6

6. Substitute a known good Y cable. Place test call.

Can landline hear you?

Yes- Original Y cable defective. **END**

No- Reinstall original Y cable. Go To STEP 7

7. Substitute a known good microphone. Place test call.

Can landline hear you?

Yes- Original microphone defective. **END**

No- Reinstall original microphone. Go To STEP 8

8. If after completing all of the above previous there is still a problem contact Mercedes-Benz Regional Technical Support Specialist.

4.4.7 No Hands-free Transmit Audio/Called Party Cannot Hear You

The diagnostics that follow assume that the phone operates normally in Portable Mode (Coil Cord Unplugged). Please confirm prior to continuing.

1. Verify complaint by making a hands-free call in the Mobil Mode (Coil Cord Plugged in) with the flip closed.

Can land party hear your hands-free conversation?

Yes- Problem is not evident at this time- get more specific information from the customer regarding the problem.

No- Can you hear land party?

Yes- Go To STEP 2

No- Test voice recognition and Tele-aid for proper ground, if grounded, Go To STEP 5

2. Verify 10 pin connector in center armrest is not damaged (bent or missing pins). If damaged replace. Otherwise substitute a known good 10-pin connector. Place test call.

Can landline hear you?

Yes- Original 10-pin connector was damaged or defective. **END**

No- Reinstall original 10-pin connector. Go To STEP 3.

3. Try a known good handset. Place test call.

Can landline hear you?

Yes- Original handset defective.

- A. Call the service provider to activate new ESN.
- B. Program phone in portable mode (coil cord unplugged). Enter customer's security and unlock code.
- C. Transfer ALL of customer's phonebook from old phone to new phone.
- D. Perform "Initial Installation" checks to verify that phone functions properly in car.
END.

No- Reconnect original handset. Go To STEP 4.

4. Substitute a known good coil cord. Place test call.

Can landline hear you?

Yes- Original coil cord was defective. **END**

No- Reinstall original coil cord. Go To STEP 6.

5. Verify the Hands-free volume is turned to a high enough level that you can hear it.

6. Look at PSE for bent or damaged pins, if pins look good substitute a known good PSE. Place test call.

Can landline hear you? Yes-Original PSE defective. **END No-**Reinstall original PSE.
Go To STEP 7

7. Substitute a known good Y cable. Place test call.

Can landline hear you?**Yes-** Original Y cable defective. **END****No-** Reinstall original Y cable. Go To STEP 8

8. Substitute a known good microphone. Place test call.

Can landline hear you?**Yes-** Original microphone defective. **END****No-** Reinstall original microphone. Go To STEP 9

9. If after completing all of the above and there is still a problem, contact your Mercedes-Benz Regional Technical Support Specialist.

4.4.8 No SVC Indicator Stays On

Prior to proceeding, verify that there is cellular coverage in the area in which the repairs are being conducted. Powering up a known good phone, which uses the same cellular provider in the service area, and confirming that the "No SVC" indicator goes out can do verification.

1. Is the "NO SVC" indicator staying on in the PORTABLE mode (coil cord unplugged)?

No- Go to next STEP**Yes -** Please verify the phone setting. (Refer to the users menu about phone programming). **END.**

2. Is the "NO SVC" indicator staying on in the MOBILE mode (coil cord plugged in)? **No-** Customer may have inadvertently left home service area or powered up phone in an area of highly restricted signal strength (underground parking, etc). Obtain further information from the customer. **END.**

Yes - Go to next STEP

3. Visually inspect antenna cable connections at center console and the compensator. Confirm that the antenna is attached to the connector marked "antenna" on the compensator.

Is installation correct?

No- Install components correctly.**Did "NO SVC" indicator go off?****No-** Go to next STEP.**Yes-** Improper antenna/installation connection. **END.****Yes -** Go to next STEP.

4. Disconnect antenna from compensator connector marked "antenna" and connect the magnetic mount test antenna to the compensator connector marked "antenna" and place antenna at vehicle roof level.

Is "NO SVC" indicator off?**No-** Go to next STEP.**Yes -** Replace the cable or the antenna. **END.**

5. Install a known good compensator. Connect vehicle antenna to connector marked "antenna" on the compensator.

Is "NO SVC" indicator off?

No- Reinstall original compensator. Go to next STEP.

Yes - Original compensator faulty. Perform "Initial Installation" checks. **END.**

6. Disconnect the coil cord RF connector at the center console. Install a double-sided female adapter on the coil cord RF connector and attach the magnetic mount antenna.

Is the "NO SVC" indicator off?

No- Go to next STEP.

Yes - Antenna cable between coil cord and the compensator defective. **END.**

7. Install a known good coil cord.

Is the "NO SVC" indicator off? No

- Go to next STEP.

Yes - Original coil cord defective. **END.**

8. Install a known good portable phone.

Is the "NO SVC" indicator off?

No- Contact the Mercedes-Benz Regional Technical Support Specialist as no other components can be involved. Document further diagnostic problems, results, repairs and record on work order. **END.**

Yes - Original portable phone defective. **END.**

4.4.9 Complete Loss of Vehicle System Audio

Any of the devices in the list below can cause loss of system audio. The specific device configuration will vary depending on the options installed and the vehicle type. Use the basic troubleshooting technique below for all devices except the head control unit, also reference phone manual for further information.

Head control unit
 Audio amplifier
 Voice recognition module
 Phone Support Electronics module
 CD player
 Tele-Aid II module

LEVEL 1: Basic Device Troubleshooting Technique

1. One device at a time, remove the fiber optic (D2B) cable and complete the D2B network by connecting a jumper joining the 2 ends of the cable just removed.
2. Power cycle the Head Unit off and on. Select radio function.

Can radio audio be heard?

Yes – Replace the device now jumpered out. Power cycle the head control unit.

Can radio audio be heard?

Yes – Replaced device was defective. **END**

No – Inspect for damage on optical cable connecting to this device.

No – Put original device back in the D2B ring and repeat step 1 & 2 until all devices have been bypassed. Go to LEVEL 2.

LEVEL 2: Head Unit Troubleshooting

1. Replace head unit.

Can radio audio be heard?

Yes – Original head unit defective. **END**

No – Inspect head unit optical cable for damage.

Is cable damaged?

Yes – Fix or replace damaged cable. **END**

No – All devices have been check. A defective cable is the most likely cause of the defect.

~ Use an optical jumper cable between devices to locate area of damaged cable.

Call Mercedes-Benz Regional Technical Support Specialist for assistance if pre-wire cabling defect cannot be located.

5.0 Bill of Materials Section

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5.1 MY00 Antenna Application Matrix

Part Numbers and Mounting Locations

Vehicle	AM/FM/WB	GPS	GPS Splitter	Tele Aid Antennas		Phone
				Primary	Back-Up	
R129	129 820 16 75	129 820 19 75		129 820 21 75	129 820 16 75	129 820 16 75
	Pwr Ant. Mast ¹	Trunk Lid	n/a	Bumper	Pwr Ant. Mast ^{1, 2}	Pwr Ant. Mast ^{1, 2}
M163		163 820 06 75 ⁴				163 827 00 01 ³ ?163 820 06 75 ⁴
	Rear Glass	Roof Top	n/a	n/a	n/a	Roof Top
R170						202 820 22 75
	Fender Mast	n/a	n/a	n/a	n/a	Bumper
W202		210 820 13 75		210 820 13 75		202 820 22 75
	Rear Glass	Roof Top ⁵	n/a	Roof Top ⁵	Under Hat Shelf	Bumper
A208		129 820 19 75	210 820 24 89		202 820 22 75	202 820 22 75
	Fender Mast ¹	Trunk Lid	Left Rear Wheel Well	Fender Mast ¹	Bumper ⁶	Bumper ⁶
C208		210 820 13 75	210 820 24 89	210 820 13 75	210 820 14 75	202 820 22 75
	Rear Glass	Roof Top ⁵	Right Rear Longitudinal Chassis Member	Roof Top ⁵	Under Hat Shelf	Bumper
W210		210 820 13 75	210 820 24 89	210 820 13 75	210 820 14 75	202 820 22 75
	Rear Glass	Roof Top ⁵	C-Pillar Passenger Compartment	Roof Top ⁵	Under Hat Shelf	Bumper
S210		210 820 13 75	210 820 24 89	210 820 13 75	202 820 22 75	202 820 22 75
	Left Rear Side Glass	Roof Top ⁵	C-Pillar Passenger Compartment	Roof Top ⁵	Bumper ⁶	Bumper ⁶
C215		215 820 11 75	210 820 24 89	215 820 12 75	202 820 22 75	215 820 11 75
	Rear Glass	Trunk Lid ⁵ (inside - left)	Right Rear Quarter Panel	Trunk Lid (inside-right)	Bumper	Trunk Lid ⁵ (inside - left)
V220	220 820 17 89	220 820 13 75	210 820 24 89	220 820 13 75	210 820 18 75	210 820 18 75
	Rear Glass	Shark Fin	Right Rear Quarter Panel	Shark Fin	Bumper ⁶	Bumper ⁶

1 Integrated AM/FM/WB/800 Mhz Cellular Antenna

2 Cellular mast antenna is shared. When telephone is installed RF switch Q 6 82 0430 is required.

3 Cellular antenna only

4 Integrated GPS and cellular antenna. Uses same vehicle coax ; signal is split at splitter 163 820 12 89 in radio compartment

5 Integrated GPS and cellular antenna.

6 When telephone is installed, bumper antenna is shared. RF switch Q 6 82 0430 is required.

5.2 MY00 StarTAC Bill of Materials

Vehicle Type MY2000 StarTAC		S-Class Sedan (W220)		
MBUSA Sales Model#	Q6820446		N/A	
	STANDARD TELEPHONE KIT		OPTIONAL SBS KIT	
DESCRIPTION	MOTOROLA P/N	MBNA P/N	MOTOROLA P/N	MBNA P/N
PSE	SYN0234A	Q6820460	SBS STANDARD	
COMPENSATOR	SYN8015A	Q6820461	SBS STANDARD	
DASA SBS MODULE	SYN7103A	Q6820422	SBS STANDARD	
DASA SBS MODULE AUDIO TAPE	SYN7603A	P2703098	SBS STANDARD	
HOLDER, ANTI-FLIP OPENING	SYN8008A	Q6820459	SBS STANDARD	
INSTALL HDW, GENERAL	SYN8013A	Q6820462	SBS STANDARD	
INSTALL HDW, SBS OPTION	--	--	SBS STANDARD	
INSTALL HDW, MISC.	--	--	SBS STANDARD	
CABLE, COILCORD	SKN4974A	Q6820464	SBS STANDARD	
CABLE, D2B OPTICAL	SKN4960A	Q6820432	SBS STANDARD	
CABLE, PSE/COMPSTR	SKN4979A	Q6820468	SBS STANDARD	
CABLE, PSE/COMPSTR/D2B OPTICAL	--	--	SBS STANDARD	
CABLE, COAX EXTENSION	--	--	SBS STANDARD	
BRKT, PSE	SYN7162A	Q6820426	SBS STANDARD	
BRKT, PSE/COMPENSATOR	--	--	SBS STANDARD	
BRKT, ANTENNA SWITCH	SYN7161A	Q6820431	SBS STANDARD	
BRKT, DASA SBS MODULE	SYN7163A	Q6820429	SBS STANDARD	
BRKT, COMPENSATOR	SYN7164A	Q6820427	SBS STANDARD	
BRKT, PSE/COMPENSATOR/SBS	--	--	SBS STANDARD	
BRKT PSE/COMPEN/SBS/ANTSW	--	--	SBS STANDARD	
BRKT PSE/COMPEN/ANTSW	--	--	SBS STANDARD	
BRKT, PLASTIC SHIELD (SL ONLY)	--	--	SBS STANDARD	
BRKT, HOLDER MOUNTING	--	--	SBS STANDARD	
BRKT, CD-CHNGR BASEPLT (SL ONLY)	--	--	SBS STANDARD	
FALSE BOTTOM (A208 & C208 ONLY)	--	--	SBS STANDARD	
PTT LEVER: R129	--	--	SBS STANDARD	
PTT LEVER: R170	--	--	SBS STANDARD	
PTT LEVER: A208, C208, W210, S210	--	--	SBS STANDARD	
PTT LEVER: W220, C215	--	--	SBS STANDARD	
ANTENNA SWITCH	SYN7195A	Q6820430	SBS STANDARD	
ADPTR, MALE SAP TO MALE MINI-U	--	--	SBS STANDARD	
TEMPLATE, INSTALLATION	SJN9088A	Q6820482	SBS STANDARD	
FOAM "U" CHANNEL (SLK ONLY)	--	--	SBS STANDARD	
MANUAL, SBS ONLY	SJN8956A	P2710220099	SBS STANDARD	
ANTENNA (M-CLASS ONLY)	--	--	SBS STANDARD	

Vehicle Type MY2000 StarTAC		S-Class Coupe (C215) (INTRODUCED 1/00)		
MBUSA Sales Model#	Q6820524		N/A	
	STANDARD TELEPHONE KIT		OPTIONAL SBS KIT	
DESCRIPTION	MOTOROLA P/N	MBNA P/N	MOTOROLA P/N	MBNA P/N
PSE	SYN0234A	Q6820460	SBS STANDARD	
COMPENSATOR	SYN8015A	Q6820461	SBS STANDARD	
DASA SBS MODULE	SYN7103A	Q6820422	SBS STANDARD	
DASA SBS MODULE AUDIO TAPE	SYN7603A	P2703098	SBS STANDARD	
HOLDER, ANTI-FLIP OPENING	SYN8008A	Q6820459	SBS STANDARD	
INSTALL HDW, GENERAL	SYN8013A	Q6820462	SBS STANDARD	
INSTALL HDW, SBS OPTION	--	--	SBS STANDARD	
INSTALL HDW, MISC.	--	--	SBS STANDARD	
CABLE, COILCORD	SKN4974A	Q6820464	SBS STANDARD	
CABLE, D2B OPTICAL	SKN4984A	TBD	SBS STANDARD	
CABLE, PSE/COMPSTR	SKN4979A	Q6820468	SBS STANDARD	
CABLE, PSE/COMPSTR/D2B OPTICAL	--	--	SBS STANDARD	
CABLE, COAX EXTENSION	--	--	SBS STANDARD	
BRKT, PSE	--	--	SBS STANDARD	
BRKT, PSE/COMPENSATOR	SYN7978A	Q6820510	SBS STANDARD	
BRKT, ANTENNA SWITCH	--	--	SBS STANDARD	
BRKT, DASA SBS MODULE	SYN7977A	Q6820509	SBS STANDARD	
BRKT, COMPENSATOR	--	--	SBS STANDARD	
BRKT, PSE/COMPENSATOR/SBS	--	--	SBS STANDARD	
BRKT PSE/COMPEN/SBS/ANTSW	--	--	SBS STANDARD	
BRKT PSE/COMPEN/ANTSW	--	--	SBS STANDARD	
BRKT, PLASTIC SHIELD (SL ONLY)	--	--	SBS STANDARD	
BRKT, HOLDER MOUNTING	--	--	SBS STANDARD	
BRKT, CD-CHNGR BASEPLT (SL ONLY)	--	--	SBS STANDARD	
FALSE BOTTOM (A208 & C208 ONLY)	--	--	SBS STANDARD	
PTT LEVER: R129	--	--	SBS STANDARD	
PTT LEVER: R170	--	--	SBS STANDARD	
PTT LEVER: A208, C208, W210, S210	--	--	SBS STANDARD	
PTT LEVER: W220, C215	SYN8055A	Q6820512	SBS STANDARD	
ANTENNA SWITCH	--	--	SBS STANDARD	
ADPTR, MALE SAP TO MALE MINI-U	--	--	SBS STANDARD	
TEMPLATE, INSTALLATION	SJN9220A	Q6820511	SBS STANDARD	
FOAM "U" CHANNEL (SLK ONLY)	--	--	SBS STANDARD	
MANUAL, SBS ONLY	SJN9358A	P2710000	SBS STANDARD	
ANTENNA (M-CLASS ONLY)	--	--	SBS STANDARD	

Vehicle Type MY2000 StarTAC		CLK CONVERTIBLE (A208)		
MBUSA Sales Model#	Q6820440		Q6820448 (same for both CLKs)	
	STANDARD TELEPHONE KIT		OPTIONAL SBS KIT	
DESCRIPTION	MOTOROLA P/N	MBNA P/N	MOTOROLA P/N	MBNA P/N
PSE	SYN0234A	Q6820460	--	--
COMPENSATOR	SYN8015A	Q6820461	--	--
DASA SBS MODULE	--	--	SYN7103A	Q6820422
DASA SBS MODULE AUDIO TAPE	--	--	SYN7603A	P2703098
HOLDER, ANTI-FLIP OPENING	SYN8008A	Q6820459	--	--
INSTALL HDW, GENERAL	SYN8013A	Q6820462	--	--
INSTALL HDW, SBS OPTION	--	--	SYN8138A	Q6820463
INSTALL HDW, MISC.	--	--	--	--
CABLE, COILCORD	SKN4975A	Q6820465	--	--
CABLE, D2B OPTICAL	NONE REQUIRED- TEL & SBS			
CABLE, PSE/COMPSTR	SKN4979A	Q6820468	--	--
CABLE, PSE/COMPSTR/D2B OPTICAL	--	--	--	--
CABLE, COAX EXTENSION	--	--	--	--
BRKT, PSE	--	--	--	--
BRKT, PSE/COMPENSATOR	--	--	--	--
BRKT, ANTENNA SWITCH	--	--	--	--
BRKT, DASA SBS MODULE	--	--	--	--
BRKT, COMPENSATOR	--	--	--	--
BRKT, PSE/COMPENSATOR/SBS	--	--	--	--
BRKT PSE/COMPEN/SBS/ANTSW	SYN7974A	Q6820476	--	--
BRKT PSE/COMPEN/ANTSW	--	--	--	--
BRKT, PLASTIC SHIELD (SL ONLY)	--	--	--	--
BRKT, HOLDER MOUNTING	--	--	--	--
BRKT, CD-CHNGR BASEPLT (SL ONLY)	--	--	--	--
FALSE BOTTOM (A208 & C208 ONLY)	SYN6754A	Q6820322	--	--
PTT LEVER: R129	--	--	--	--
PTT LEVER: R170	--	--	--	--
PTT LEVER: A208, C208, W210, S210	--	--	SYN8014A	Q6820479
PTT LEVER: W220, C215	--	--	--	--
ANTENNA SWITCH	SYN7195A	Q6820430	--	--
ADPTR, MALE SAP TO MALE MINI-U	--	--	--	--
TEMPLATE, INSTALLATION	--	--	--	--
FOAM "U" CHANNEL (SLK ONLY)	--	--	--	--
MANUAL, SBS ONLY	--	--	SJN9358A	P2710000
ANTENNA (M-CLASS ONLY)	--	--	--	--

Vehicle Type MY2000 StarTAC		CLK SEDAN (C208)		
MBUSA Sales Model#	Q6820439		Q6820448 (same for both CLKs)	
	STANDARD TELEPHONE KIT		OPTIONAL SBS KIT	
DESCRIPTION	MOTOROLA P/N	MBNA P/N	MOTOROLA P/N	MBNA P/N
PSE	SYN0234A	Q6820460	--	--
COMPENSATOR	SYN8015A	Q6820461	--	--
DASA SBS MODULE	--	--	SYN7103A	Q6820422
DASA SBS MODULE AUDIO TAPE	--	--	SYN7603A	P2703098
HOLDER, ANTI-FLIP OPENING	SYN8008A	Q6820459	--	--
INSTALL HDW, GENERAL	SYN8013A	Q6820462	--	--
INSTALL HDW, SBS OPTION	--	--	SYN8138A	Q6820463
INSTALL HDW, MISC.	--	--	--	--
CABLE, COILCORD	SKN4975A	Q6820465	--	--
CABLE, D2B OPTICAL	NONE REQUIRED-TEL & SBS PREWIRED			
CABLE, PSE/COMPSTR	SKN4979A	Q6820468	--	--
CABLE, PSE/COMPSTR/D2B OPTICAL	--	--	--	--
CABLE, COAX EXTENSION	--	--	--	--
BRKT, PSE	--	--	--	--
BRKT, PSE/COMPENSATOR	--	--	--	--
BRKT, ANTENNA SWITCH	--	--	--	--
BRKT, DASA SBS MODULE	--	--	--	--
BRKT, COMPENSATOR	--	--	--	--
BRKT, PSE/COMPENSATOR/SBS	SYN7975A	Q6820474	--	--
BRKT PSE/COMPEN/SBS/ANTSW	--	--	--	--
BRKT PSE/COMPEN/ANTSW	--	--	--	--
BRKT, PLASTIC SHIELD (SL ONLY)	--	--	--	--
BRKT, HOLDER MOUNTING	--	--	--	--
BRKT, CD-CHNGR BASEPLT (SL ONLY)	--	--	--	--
FALSE BOTTOM (A208 & C208 ONLY)	SYN6754A	Q6820322	--	--
PTT LEVER: R129	--	--	--	--
PTT LEVER: R170	--	--	--	--
PTT LEVER: A208, C208, W210, S210	--	--	SYN8014A	Q6820479
PTT LEVER: W220, C215	--	--	--	--
ANTENNA SWITCH	--	--	--	--
ADPTR, MALE SAP TO MALE MINI-U	--	--	--	--
TEMPLATE, INSTALLATION	--	--	--	--
FOAM "U" CHANNEL (SLK ONLY)	--	--	--	--
MANUAL, SBS ONLY	--	--	SJN9358A	P2710000
ANTENNA (M-CLASS ONLY)	--	--	--	--

Vehicle Type MY2000 StarTAC		E-CLASS SEDAN (W210)		
MBUSA Sales Model#	Q6820442		Q6820449	
	STANDARD TELEPHONE KIT		OPTIONAL SBS KIT	
DESCRIPTION	MOTOROLA P/N	MBNA P/N	MOTOROLA P/N	MBNA P/N
PSE	SYN0234A	Q6820460	--	--
COMPENSATOR	SYN8015A	Q6820461	--	--
DASA SBS MODULE	--	--	SYN7103A	Q6820422
DASA SBS MODULE AUDIO TAPE	--	--	SYN7603A	P2703098
HOLDER, ANTI-FLIP OPENING	SYN8008A	Q6820459	--	--
INSTALL HDW, GENERAL	SYN8013A	Q6820462	--	--
INSTALL HDW, SBS OPTION	--	--	SYN8138A	Q6820463
INSTALL HDW, MISC.	--	--	--	--
CABLE, COILCORD	SKN4975A	Q6820465	--	--
CABLE, D2B OPTICAL	SKN4981A	Q6820466	SKN4982A	Q6820467
CABLE, PSE/COMPSTR	SKN4979A	Q6820468	--	--
CABLE, PSE/COMPSTR/D2B OPTICAL	--	--	--	--
CABLE, COAX EXTENSION	--	--	--	--
BRKT, PSE	--	--	--	--
BRKT, PSE/COMPENSATOR	--	--	--	--
BRKT, ANTENNA SWITCH	--	--	--	--
BRKT, DASA SBS MODULE	--	--	--	--
BRKT, COMPENSATOR	--	--	--	--
BRKT, PSE/COMPENSATOR/SBS	SYN7983A	Q6820475	--	--
BRKT PSE/COMPEN/SBS/ANTSW	--	--	--	--
BRKT PSE/COMPEN/ANTSW	--	--	--	--
BRKT, PLASTIC SHIELD (SL ONLY)	--	--	--	--
BRKT, HOLDER MOUNTING	--	--	--	--
BRKT, CD-CHNGR BASEPLT (SL ONLY)	--	--	--	--
FALSE BOTTOM (A208 & C208 ONLY)	--	--	--	--
PTT LEVER: R129	--	--	--	--
PTT LEVER: R170	--	--	--	--
PTT LEVER: A208, C208, W210, S210	--	--	SYN8014A	Q6820479
PTT LEVER: W220, C215	--	--	--	--
ANTENNA SWITCH	--	--	--	--
ADPTR, MALE SAP TO MALE MINI-U	--	--	--	--
TEMPLATE, INSTALLATION	--	--	--	--
FOAM "U" CHANNEL (SLK ONLY)	--	--	--	--
MANUAL, SBS ONLY	--	--	SJN9358A	P2710000
ANTENNA (M-CLASS ONLY)	--	--	--	--

Vehicle Type MY2000 StarTAC		E-CLASS WAGON (S210)		
MBUSA Sales Model#	Q6820443		Q6820450	
	STANDARD TELEPHONE KIT		OPTIONAL SBS KIT	
DESCRIPTION	MOTOROLA P/N	MBNA P/N	MOTOROLA P/N	MBNA P/N
PSE	SYN0234A	Q6820460	--	--
COMPENSATOR	SYN8015A	Q6820461	--	--
DASA SBS MODULE	--	--	SYN7103A	Q6820422
DASA SBS MODULE AUDIO TAPE	--	--	SYN7603A	P2703098
HOLDER, ANTI-FLIP OPENING	SYN8008A	Q6820459	--	--
INSTALL HDW, GENERAL	SYN8013A	Q6820462	--	--
INSTALL HDW, SBS OPTION	--	--	SYN8138A	Q6820463
INSTALL HDW, MISC.	--	--	--	--
CABLE, COILCORD	SKN4975A	Q6820465	--	--
CABLE, D2B OPTICAL	SKN4981A	Q6820466	SKN4982A	Q6820467
CABLE, PSE/COMPSTR	SKN4979A	Q6820468	--	--
CABLE, PSE/COMPSTR/D2B OPTICAL	--	--	--	--
CABLE, COAX EXTENSION	--	--	--	--
BRKT, PSE	--	--	--	--
BRKT, PSE/COMPENSATOR	--	--	--	--
BRKT, ANTENNA SWITCH	--	--	--	--
BRKT, DASA SBS MODULE	--	--	SYN7984A	Q6820472
BRKT, COMPENSATOR	--	--	--	--
BRKT, PSE/COMPENSATOR/SBS	--	--	--	--
BRKT PSE/COMPEN/SBS/ANTSW	--	--	--	--
BRKT PSE/COMPEN/ANTSW	--	--	--	--
BRKT, PLASTIC SHIELD (SL ONLY)	--	--	--	--
BRKT, HOLDER MOUNTING	--	--	--	--
BRKT, CD-CHNGR BASEPLT (SL ONLY)	--	--	--	--
FALSE BOTTOM (A208 & C208 ONLY)	--	--	--	--
PTT LEVER: R129	--	--	--	--
PTT LEVER: R170	--	--	--	--
PTT LEVER: A208, C208, W210, S210	--	--	SYN8014A	Q6820479
PTT LEVER: W220, C215	--	--	--	--
ANTENNA SWITCH	SYN7195A	Q6820430	--	--
ADPTR, MALE SAP TO MALE MINI-U	--	--	--	--
TEMPLATE, INSTALLATION	--	--	--	--
FOAM "U" CHANNEL (SLK ONLY)	--	--	--	--
MANUAL, SBS ONLY	--	--	SJN9358A	P2710000
ANTENNA (M-CLASS ONLY)	--	--	--	--

Vehicle Type MY2000 StarTAC		SL (R129)		
MBUSA Sales Model#	Q6820445		N/A	
	STANDARD TELEPHONE KIT		OPTIONAL SBS KIT	
DESCRIPTION	MOTOROLA P/N	MBNA P/N	MOTOROLA P/N	MBNA P/N
PSE	SYN0234A	Q6820460	SBS STANDARD	
COMPENSATOR	SYN8015A	Q6820461	SBS STANDARD	
DASA SBS MODULE	SYN7103A	Q6820422	SBS STANDARD	
DASA SBS MODULE AUDIO TAPE	SYN7603A	P2703098	SBS STANDARD	
HOLDER, ANTI-FLIP OPENING	SYN8008A	Q6820459	SBS STANDARD	
INSTALL HDW, GENERAL	SYN8013A	Q6820462	SBS STANDARD	
INSTALL HDW, SBS OPTION	--	--	SBS STANDARD	
INSTALL HDW, MISC.	--	--	SBS STANDARD	
CABLE, COILCORD	SKN4974A	Q6820464	SBS STANDARD	
CABLE, D2B OPTICAL	SKN4949A	Q6820425	SBS STANDARD	
CABLE, PSE/COMPSTR	SKN4979A	Q6820468	SBS STANDARD	
CABLE, PSE/COMPSTR/D2B OPTICAL	--	--	SBS STANDARD	
CABLE, COAX EXTENSION	--	--	SBS STANDARD	
BRKT, PSE	--	--	SBS STANDARD	
BRKT, PSE/COMPENSATOR	--	--	SBS STANDARD	
BRKT, ANTENNA SWITCH	SYN7996A	Q6820471	SBS STANDARD	
BRKT, DASA SBS MODULE	--	--	SBS STANDARD	
BRKT, COMPENSATOR	--	--	SBS STANDARD	
BRKT, PSE/COMPENSATOR/SBS	SYN6974A	Q6820395	SBS STANDARD	
BRKT PSE/COMPEN/SBS/ANTSW	--	--	SBS STANDARD	
BRKT PSE/COMPEN/ANTSW	--	--	SBS STANDARD	
BRKT, PLASTIC SHIELD (SL ONLY)	SYN7190A	Q6820405	SBS STANDARD	
BRKT, HOLDER MOUNTING	SYN8016A	Q6820477	SBS STANDARD	
BRKT, CD-CHNGR BASEPLT (SL ONLY)	NOT IN KIT--DEALER ORDERS SYN6975A (Q6820396) ONLY IF REQUIRED			
FALSE BOTTOM (A208 & C208 ONLY)	--	--	SBS STANDARD	
PTT LEVER: R129	SYN7104A	Q6820423	SBS STANDARD	
PTT LEVER: R170	--	--	SBS STANDARD	
PTT LEVER: A208, C208, W210, S210	--	--	SBS STANDARD	
PTT LEVER: W220, C215	--	--	SBS STANDARD	
ANTENNA SWITCH	SYN7195A	Q6820430	SBS STANDARD	
ADPTR, MALE SAP TO MALE MINI-U	--	--	SBS STANDARD	
TEMPLATE, INSTALLATION	SJN9087A	Q6820480	SBS STANDARD	
	--	--	SBS STANDARD	
FOAM "U" CHANNEL (SLK ONLY)				
MANUAL, SBS ONLY	SJN8955A	P2710129099	SBS STANDARD	
ANTENNA (M-CLASS ONLY)	--	--	SBS STANDARD	

Vehicle Type MY2000 StarTAC		C-CLASS (W202)		
MBUSA Sales Model#	Q6820441		N/A	
	STANDARD TELEPHONE KIT		OPTIONAL SBS KIT	
DESCRIPTION	MOTOROLA P/N	MBNA P/N	MOTOROLA P/N	MBNA P/N
PSE	SYN0234A	Q6820460	SBS NOT AVAILABLE	
COMPENSATOR	SYN8015A	Q6820461	SBS NOT AVAILABLE	
DASA SBS MODULE	--	--	SBS NOT AVAILABLE	
DASA SBS MODULE AUDIO TAPE	--	--	SBS NOT AVAILABLE	
HOLDER, ANTI-FLIP OPENING	SYN8008A	Q6820459	SBS NOT AVAILABLE	
INSTALL HDW, GENERAL	SYN8013A	Q6820462	SBS NOT AVAILABLE	
INSTALL HDW, SBS OPTION	--	--	SBS NOT AVAILABLE	
INSTALL HDW, MISC.	--	--	SBS NOT AVAILABLE	
CABLE, COILCORD	SKN4975A	Q6820465	SBS NOT AVAILABLE	
CABLE, D2B OPTICAL	NONE REQUIRED-PREWired		SBS NOT AVAILABLE	
CABLE, PSE/COMPSTR	SKN4979A	Q6820468	SBS NOT AVAILABLE	
CABLE, PSE/COMPSTR/D2B OPTICAL	--	--	SBS NOT AVAILABLE	
CABLE, COAX EXTENSION	--	--	SBS NOT AVAILABLE	
BRKT, PSE	--	--	SBS NOT AVAILABLE	
BRKT, PSE/COMPENSATOR	SYN7604A	Q6820330	SBS NOT AVAILABLE	
BRKT, ANTENNA SWITCH	--	--	SBS NOT AVAILABLE	
BRKT, DASA SBS MODULE	--	--	SBS NOT AVAILABLE	
BRKT, COMPENSATOR	--	--	SBS NOT AVAILABLE	
BRKT, PSE/COMPENSATOR/SBS	--	--	SBS NOT AVAILABLE	
BRKT PSE/COMPEN/SBS/ANTSW	--	--	SBS NOT AVAILABLE	
BRKT PSE/COMPEN/ANTSW	--	--	SBS NOT AVAILABLE	
BRKT, PLASTIC SHIELD (SL ONLY)	--	--	SBS NOT AVAILABLE	
BRKT, HOLDER MOUNTING	--	--	SBS NOT AVAILABLE	
BRKT, CD-CHNGR BASEPLT (SL ONLY)	--	--	SBS NOT AVAILABLE	
FALSE BOTTOM (A208 & C208 ONLY)	--	--	SBS NOT AVAILABLE	
PTT LEVER: R129	--	--	SBS NOT AVAILABLE	
PTT LEVER: R170	--	--	SBS NOT AVAILABLE	
PTT LEVER: A208, C208, W210, S210	--	--	SBS NOT AVAILABLE	
PTT LEVER: W220, C215	--	--	SBS NOT AVAILABLE	
ANTENNA SWITCH	--	--	SBS NOT AVAILABLE	
ADPTR, MALE SAP TO MALE MINI-U	--	--	SBS NOT AVAILABLE	
TEMPLATE, INSTALLATION	--	--	SBS NOT AVAILABLE	
FOAM "U" CHANNEL (SLK ONLY)	--	--	SBS NOT AVAILABLE	
MANUAL, SBS ONLY	--	--	SBS NOT AVAILABLE	
ANTENNA (M-CLASS ONLY)	--	--	SBS NOT AVAILABLE	

Vehicle Type MY2000 StarTAC		SLK (R170)		
MBUSA Sales Model#	Q6820444		N/A	
	STANDARD TELEPHONE KIT		OPTIONAL SBS KIT	
DESCRIPTION	MOTOROLA P/N	MBNA P/N	MOTOROLA P/N	MBNA P/N
PSE	SYN0234A	Q6820460	SBS NOT AVAILABLE	
COMPENSATOR	SYN8015A	Q6820461	SBS NOT AVAILABLE	
DASA SBS MODULE	--	--	SBS NOT AVAILABLE	
DASA SBS MODULE AUDIO TAPE	--	--	SBS NOT AVAILABLE	
HOLDER, ANTI-FLIP OPENING	SYN8008A	Q6820459	SBS NOT AVAILABLE	
INSTALL HDW, GENERAL	SYN8013A	Q6820462	SBS NOT AVAILABLE	
INSTALL HDW, SBS OPTION	--	--	SBS NOT AVAILABLE	
INSTALL HDW, MISC.	SYN5859A	Q6820278	SBS NOT AVAILABLE	
CABLE, COILCORD	SKN4974A	Q6820464	SBS NOT AVAILABLE	
CABLE, D2B OPTICAL	NONE REQUIRED-PREWired		SBS NOT AVAILABLE	
CABLE, PSE/COMPSTR	SKN4979A	Q6820468	SBS NOT AVAILABLE	
CABLE, PSE/COMPSTR/D2B OPTICAL	--	--	SBS NOT AVAILABLE	
CABLE, COAX EXTENSION	--	--	SBS NOT AVAILABLE	
BRKT, PSE	--	--	SBS NOT AVAILABLE	
BRKT, PSE/COMPENSATOR	--	--	SBS NOT AVAILABLE	
BRKT, ANTENNA SWITCH	--	--	SBS NOT AVAILABLE	
BRKT, DASA SBS MODULE	--	--	SBS NOT AVAILABLE	
BRKT, COMPENSATOR	SYN5855A	Q6820276	SBS NOT AVAILABLE	
BRKT, PSE/COMPENSATOR/SBS	--	--	SBS NOT AVAILABLE	
BRKT PSE/COMPEN/SBS/ANTSW	--	--	SBS NOT AVAILABLE	
BRKT PSE/COMPEN/ANTSW	--	--	SBS NOT AVAILABLE	
BRKT, PLASTIC SHIELD (SL ONLY)	--	--	SBS NOT AVAILABLE	
BRKT, HOLDER MOUNTING	SYN8136A	Q6820478	SBS NOT AVAILABLE	
BRKT, CD-CHNGR BASEPLT (SL ONLY)	--	--	SBS NOT AVAILABLE	
FALSE BOTTOM (A208 & C208 ONLY)	--	--	SBS NOT AVAILABLE	
PTT LEVER: R129	--	--	SBS NOT AVAILABLE	
PTT LEVER: R170	--	--	SBS NOT AVAILABLE	
PTT LEVER: A208, C208, W210, S210	--	--	SBS NOT AVAILABLE	
PTT LEVER: W220, C215	--	--	SBS NOT AVAILABLE	
ANTENNA SWITCH	(NOT REQ'D-- NO TELEAID UNTIL 2/00)		SBS NOT AVAILABLE	
ADPTR, MALE SAP TO MALE MINI-U	81161	Q6820274	SBS NOT AVAILABLE	
TEMPLATE, INSTALLATION	--	--	SBS NOT AVAILABLE	
FOAM "U" CHANNEL (SLK ONLY)	SYN5853B	Q6820390	SBS NOT AVAILABLE	
MANUAL, SBS ONLY	--	--	SBS NOT AVAILABLE	
ANTENNA (M-CLASS ONLY)	--	--	SBS NOT AVAILABLE	

Vehicle Type MY2000 StarTAC		M-CLASS		
MBUSA Sales Model#	Q6820438		N/A	
	STANDARD TELEPHONE KIT		OPTIONAL SBS KIT	
DESCRIPTION	MOTOROLA P/N	MBNA P/N	MOTOROLA P/N	MBNA P/N
PSE	SYN0234A	Q6820460	SBS NOT AVAILABLE	
COMPENSATOR	SYN8015A	Q6820461	SBS NOT AVAILABLE	
DASA SBS MODULE	--	--	SBS NOT AVAILABLE	
DASA SBS MODULE AUDIO TAPE	--	--	SBS NOT AVAILABLE	
HOLDER, ANTI-FLIP OPENING	SYN8008A	Q6820459	SBS NOT AVAILABLE	
INSTALL HDW, GENERAL	SYN8013A	Q6820462	SBS NOT AVAILABLE	
INSTALL HDW, SBS OPTION	--	--	SBS NOT AVAILABLE	
INSTALL HDW, MISC.	--	--	SBS NOT AVAILABLE	
CABLE, COILCORD	SKN4974A	Q6820464	SBS NOT AVAILABLE	
CABLE, D2B OPTICAL	--	--	SBS NOT AVAILABLE	
CABLE, PSE/COMPSTR	--	--	SBS NOT AVAILABLE	
CABLE, PSE/COMPSTR/D2B OPTICAL	SKN5000A	Q6820469	SBS NOT AVAILABLE	
CABLE, COAX EXTENSION	SKN6118A	Q6820470	SBS NOT AVAILABLE	
BRKT, PSE	--	--	SBS NOT AVAILABLE	
BRKT, PSE/COMPENSATOR	--	--	SBS NOT AVAILABLE	
BRKT, ANTENNA SWITCH	--	--	SBS NOT AVAILABLE	
BRKT, DASA SBS MODULE	--	--	SBS NOT AVAILABLE	
BRKT, COMPENSATOR	SYN7986A	Q6820473	SBS NOT AVAILABLE	
BRKT, PSE/COMPENSATOR/SBS	--	--	SBS NOT AVAILABLE	
BRKT PSE/COMPEN/SBS/ANTSW	--	--	SBS NOT AVAILABLE	
BRKT PSE/COMPEN/ANTSW	--	--	SBS NOT AVAILABLE	
BRKT, PLASTIC SHIELD (SL ONLY)	--	--	SBS NOT AVAILABLE	
BRKT, HOLDER MOUNTING	--	--	SBS NOT AVAILABLE	
BRKT, CD-CHNGR BASEPLT (SL ONLY)	--	--	SBS NOT AVAILABLE	
FALSE BOTTOM (A208 & C208 ONLY)	--	--	SBS NOT AVAILABLE	
PTT LEVER: R129	--	--	SBS NOT AVAILABLE	
PTT LEVER: R170	--	--	SBS NOT AVAILABLE	
PTT LEVER: A208, C208, W210, S210	--	--	SBS NOT AVAILABLE	
PTT LEVER: W220, C215	--	--	SBS NOT AVAILABLE	
ANTENNA SWITCH	--	--	SBS NOT AVAILABLE	
ADPTR, MALE SAP TO MALE MINI-U	--	--	SBS NOT AVAILABLE	
TEMPLATE, INSTALLATION	SYN8160A	Q6820481	SBS NOT AVAILABLE	
FOAM "U" CHANNEL (SLK ONLY)	--	--	SBS NOT AVAILABLE	
MANUAL, SBS ONLY	--	--	SBS NOT AVAILABLE	
ANTENNA (M-CLASS ONLY)	510405	A1638270001	SBS NOT AVAILABLE	

5.3 MY01 Timeport Bill of Materials

Vehicle Type MY2001 Timeport		S-Class Sedan (W220)		
MBUSA SALES MODEL#	Q6820571		N/A	
	STANDARD TELEPHONE KIT		OPTIONAL SBS KIT	
COMPONENT	MOTOROLA P/N	MBUSA P/N	MOTOROLA P/N	MBUSA P/N
PSE	SYN8738A	Q6820648	SBS STANDARD	
COMPENSATOR (DUAL BAND)	SYN8486A	Q6820657	SBS STANDARD	
SBS MODULE	01000131	Q6820650	SBS STANDARD	
CRADLE, NON-OPENING TIMEPORT	SYN8726A	Q6820649	SBS STANDARD	
INSTALL HDW, GENERAL	SYN8013A	Q6820462	SBS STANDARD	
INSTALL HDW, SBS OPTION	--	--	SBS STANDARD	
INSTALL HDW, MISC.	--	--	SBS STANDARD	
CABLE, COILCORD	SKN4974A	Q6820464	SBS STANDARD	
CABLE, D2B OPTICAL	SKN4960A	Q6820432	SBS STANDARD	
CABLE, PSE/COMPSTR	SKN4979A	Q6820468	SBS STANDARD	
CABLE, PSE/COMPSTR/D2B OPTICAL	--	--	SBS STANDARD	
CABLE, COAX ANT SW. TO ECALL	--	--	SBS STANDARD	
CABLE, COAX ANT SW. TO GPS SPLIT	--	--	SBS STANDARD	
BRKT, PSE	SYN7162A	Q6820426	SBS STANDARD	
BRKT, PSE/COMPENSATOR	--	--	SBS STANDARD	
BRKT, ANTENNA SWITCH	SYN7161A	Q6820431	SBS STANDARD	
BRKT, SBS MODULE	SYN7163A	Q6820429	SBS STANDARD	
BRKT, COMPENSATOR	SYN7164A	Q6820427	SBS STANDARD	
BRKT, PSE/COMPENSATOR/SBS	--	--	SBS STANDARD	
BRKT PSE/COMPEN/SBS/ANTSW	--	--	SBS STANDARD	
BRKT PSE/COMPEN/ANTSW	--	--	SBS STANDARD	
BRKT, PLASTIC SHIELD (SL ONLY)	--	--	SBS STANDARD	
BRKT, HOLDER MOUNTING	--	--	SBS STANDARD	
BRKT, CD-CHNGR BASEPLT (SL ONLY)	--	--	SBS STANDARD	
FALSE BOTTOM (CLK)	--	--	SBS STANDARD	
PTT LEVER: W203	--	--	SBS STANDARD	
PTT LEVER: R129	--	--	SBS STANDARD	
PTT LEVER: R170	--	--	SBS STANDARD	
PTT LEVER: A208, C208, W210, S210	--	--	SBS STANDARD	
PTT LEVER: W220, C215	SYN8055A	Q6820512	SBS STANDARD	
ANTENNA SWITCH (DUAL BAND)	SYN8711A	Q6820652	SBS STANDARD	
ANTENNA SPLITTER (SL ONLY)	--	--	SBS STANDARD	
ADPTR, MALE SAP TO MALE MINI-U	--	--	SBS STANDARD	
TEMPLATE, INSTALLATION	SJN9088A	Q6820482	SBS STANDARD	
FOAM "U" CHANNEL FOR PSE	--	--	SBS STANDARD	
FOAM "U" CHANNEL FOR PSE/SBS	--	--	SBS STANDARD	
MANUAL, SBS ONLY	SJN9882A	S-2765-000	SBS STANDARD	

Vehicle Type MY2001 Timeport		S-Class Coupe (C215)		
MBUSA SALES MODEL#	Q6820572		N/A	
	STANDARD TELEPHONE KIT		OPTIONAL SBS KIT	
COMPONENT	MOTOROLA P/N	MBUSA P/N	MOTOROLA P/N	MBUSA P/N
PSE	SYN8738A	Q6820648	SBS STANDARD	
COMPENSATOR (DUAL BAND)	SYN8486A	Q6820657	SBS STANDARD	
SBS MODULE	01000131	Q6820650	SBS STANDARD	
CRADLE, NON-OPENING TIMEPORT	SYN8726A	Q6820649	SBS STANDARD	
INSTALL HDW, GENERAL	SYN8013A	Q6820462	SBS STANDARD	
INSTALL HDW, SBS OPTION	--	--	SBS STANDARD	
INSTALL HDW, MISC.	--	--	SBS STANDARD	
CABLE, COILCORD	SKN4974A	Q6820464	SBS STANDARD	
CABLE, D2B OPTICAL	SKN4984A	Q6820508	SBS STANDARD	
CABLE, PSE/COMPSTR	SKN4979A	Q6820468	SBS STANDARD	
CABLE, PSE/COMPSTR/D2B OPTICAL	--	--	SBS STANDARD	
CABLE, COAX ANT SW. TO ECALL	--	--	SBS STANDARD	
CABLE, COAX ANT SW. TO GPS SPLIT	--	--	SBS STANDARD	
BRKT, PSE	--	--	SBS STANDARD	
BRKT, PSE/COMPENSATOR	SYN7978A	Q6820510	SBS STANDARD	
BRKT, ANTENNA SWITCH	--	--	SBS STANDARD	
BRKT, SBS MODULE	SYN7977A	Q6820509	SBS STANDARD	
BRKT, COMPENSATOR	--	--	SBS STANDARD	
BRKT, PSE/COMPENSATOR/SBS	--	--	SBS STANDARD	
BRKT PSE/COMPEN/SBS/ANTSW	--	--	SBS STANDARD	
BRKT PSE/COMPEN/ANTSW	--	--	SBS STANDARD	
BRKT, PLASTIC SHIELD (SL ONLY)	--	--	SBS STANDARD	
BRKT, HOLDER MOUNTING	--	--	SBS STANDARD	
BRKT, CD-CHNGR BASEPLT (SL ONLY)	--	--	SBS STANDARD	
FALSE BOTTOM (CLK)	--	--	SBS STANDARD	
PTT LEVER: W203	--	--	SBS STANDARD	
PTT LEVER: R129	--	--	SBS STANDARD	
PTT LEVER: R170	--	--	SBS STANDARD	
PTT LEVER: A208, C208, W210, S210	--	--	SBS STANDARD	
PTT LEVER: W220, C215	SYN8055A	Q6820512	SBS STANDARD	
ANTENNA SWITCH (DUAL BAND)	--	--	SBS STANDARD	
ANTENNA SPLITTER (SL ONLY)	--	--	SBS STANDARD	
ADPTR, MALE SAP TO MALE MINI-U	--	--	SBS STANDARD	
TEMPLATE, INSTALLATION	SJN9220A	Q6820511	SBS STANDARD	
FOAM "U" CHANNEL FOR PSE	--	--	SBS STANDARD	
FOAM "U" CHANNEL FOR PSE/SBS	--	--	SBS STANDARD	
MANUAL, SBS ONLY	SJN9882A	S-2765-000	SBS STANDARD	

Vehicle Type MY2001 Timeport		CLK CONVERTIBLE (A208)		
MBUSA SALES MODEL#	Q6820565		Q6820573 (for both A208 & C208)	
	STANDARD TELEPHONE KIT		OPTIONAL SBS KIT	
COMPONENT	MOTOROLA P/N	MBUSA P/N	MOTOROLA P/N	MBUSA P/N
PSE	SYN8738A	Q6820648	--	--
COMPENSATOR (DUAL BAND)	SYN8486A	Q6820657	--	--
SBS MODULE	--	--	01000131	Q6820650
CRADLE, NON-OPENING TIMEPORT	SYN8726A	Q6820649	--	--
INSTALL HDW, GENERAL	SYN8013A	Q6820462	--	--
INSTALL HDW, SBS OPTION	--	--	SYN8138A	Q6820463
INSTALL HDW, MISC.	--	--	--	--
CABLE, COILCORD	SKN4975A	Q6820465	--	--
CABLE, D2B OPTICAL	NONE REQUIRED- TEL & SBS			
CABLE, PSE/COMPSTR	SKN4979A	Q6820468	--	--
CABLE, PSE/COMPSTR/D2B OPTICAL	--	--	--	--
CABLE, COAX ANT SW. TO ECALL	--	--	--	--
CABLE, COAX ANT SW. TO GPS SPLIT	--	--	--	--
BRKT, PSE	--	--	--	--
BRKT, PSE/COMPENSATOR	--	--	--	--
BRKT, ANTENNA SWITCH	--	--	--	--
BRKT, SBS MODULE	--	--	--	--
BRKT, COMPENSATOR	--	--	--	--
BRKT, PSE/COMPENSATOR/SBS	--	--	--	--
BRKT PSE/COMPEN/SBS/ANTSW	SYN7974A	Q6820476	--	--
BRKT PSE/COMPEN/ANTSW	--	--	--	--
BRKT, PLASTIC SHIELD (SL ONLY)	--	--	--	--
BRKT, HOLDER MOUNTING	--	--	--	--
BRKT, CD-CHNGR BASEPLT (SL ONLY)	--	--	--	--
FALSE BOTTOM (CLK)	SYN6754A	Q6820322	--	--
PTT LEVER: W203	--	--	--	--
PTT LEVER: R129	--	--	--	--
PTT LEVER: R170	--	--	--	--
PTT LEVER: A208, C208, W210, S210	--	--	SYN8014A	Q6820479
PTT LEVER: W220, C215	--	--	--	--
ANTENNA SWITCH (DUAL BAND)	SYN8711A	Q6820652	--	--
ANTENNA SPLITTER (SL ONLY)	--	--	--	--
ADPTR, MALE SAP TO MALE MINI-U	--	--	--	--
TEMPLATE, INSTALLATION	--	--	--	--
FOAM "U" CHANNEL FOR PSE	--	--	--	--
FOAM "U" CHANNEL FOR PSE/SBS	--	--	--	--
MANUAL, SBS ONLY	--	--	SJN9882A	S-2765-000

Vehicle Type MY2001 Timeport		CLK COUPE (C208)		
MBUSA SALES MODEL#	Q6820564		Q6820573 (for both A208 & C208)	
	STANDARD TELEPHONE KIT		OPTIONAL SBS KIT	
COMPONENT	MOTOROLA P/N	MBUSA P/N	MOTOROLA P/N	MBUSA P/N
PSE	SYN8738A	Q6820648	--	--
COMPENSATOR (DUAL BAND)	SYN8486A	Q6820657	--	--
SBS MODULE	--	--	01000131	Q6820650
CRADLE, NON-OPENING TIMEPORT	SYN8726A	Q6820649	--	--
INSTALL HDW, GENERAL	SYN8013A	Q6820462	--	--
INSTALL HDW, SBS OPTION	--	--	SYN8138A	Q6820463
INSTALL HDW, MISC.	--	--	--	--
CABLE, COILCORD	SKN4975A	Q6820465	--	--
CABLE, D2B OPTICAL	NONE REQUIRED-TEL & SBS PREWIRED			
CABLE, PSE/COMPSTR	SKN4979A	Q6820468	--	--
CABLE, PSE/COMPSTR/D2B OPTICAL	--	--	--	--
CABLE, COAX ANT SW. TO ECALL	--	--	--	--
CABLE, COAX ANT SW. TO GPS SPLIT	--	--	--	--
BRKT, PSE	--	--	--	--
BRKT, PSE/COMPENSATOR	--	--	--	--
BRKT, ANTENNA SWITCH	--	--	--	--
BRKT, SBS MODULE	--	--	--	--
BRKT, COMPENSATOR	--	--	--	--
BRKT, PSE/COMPENSATOR/SBS	SYN7975A	Q6820474	--	--
BRKT PSE/COMPEN/SBS/ANTSW	--	--	--	--
BRKT PSE/COMPEN/ANTSW	--	--	--	--
BRKT, PLASTIC SHIELD (SL ONLY)	--	--	--	--
BRKT, HOLDER MOUNTING	--	--	--	--
BRKT, CD-CHNGR BASEPLT (SL ONLY)	--	--	--	--
FALSE BOTTOM (CLK)	SYN6754A	Q6820322	--	--
PTT LEVER: W203	--	--	--	--
PTT LEVER: R129	--	--	--	--
PTT LEVER: R170	--	--	--	--
PTT LEVER: A208, C208, W210, S210	--	--	SYN8014A	Q6820479
PTT LEVER: W220, C215	--	--	--	--
ANTENNA SWITCH (DUAL BAND)	--	--	--	--
ANTENNA SPLITTER (SL ONLY)	--	--	--	--
ADPTR, MALE SAP TO MALE MINI-U	--	--	--	--
TEMPLATE, INSTALLATION	--	--	--	--
FOAM "U" CHANNEL FOR PSE	--	--	--	--
FOAM "U" CHANNEL FOR PSE/SBS	--	--	--	--
MANUAL, SBS ONLY	--	--	SJN9882A	S-2765-000

Vehicle Type MY2001 Timeport		E-CLASS SEDAN (W210)		
MBUSA SALES MODEL#	Q6820567		Q6820574	
	STANDARD TELEPHONE KIT		OPTIONAL SBS KIT	
COMPONENT	MOTOROLA P/N	MBUSA P/N	MOTOROLA P/N	MBUSA P/N
PSE	SYN8738A	Q6820648	--	--
COMPENSATOR (DUAL BAND)	SYN8486A	Q6820657	--	--
SBS MODULE	--	--	01000131	Q6820650
CRADLE, NON-OPENING TIMEPORT	SYN8726A	Q6820649	--	--
INSTALL HDW, GENERAL	SYN8013A	Q6820462	--	--
INSTALL HDW, SBS OPTION	--	--	SYN8138A	Q6820463
INSTALL HDW, MISC.	--	--	--	--
CABLE, COILCORD	SKN4975A	Q6820465	--	--
CABLE, D2B OPTICAL	SKN4981A	Q6820466	SKN4982A	Q6820467
CABLE, PSE/COMPSTR	SKN4979A	Q6820468	--	--
CABLE, PSE/COMPSTR/D2B OPTICAL	--	--	--	--
CABLE, COAX ANT SW. TO ECALL	--	--	--	--
CABLE, COAX ANT SW. TO GPS SPLIT	--	--	--	--
BRKT, PSE	--	--	--	--
BRKT, PSE/COMPENSATOR	--	--	--	--
BRKT, ANTENNA SWITCH	--	--	--	--
BRKT, SBS MODULE	--	--	--	--
BRKT, COMPENSATOR	--	--	--	--
BRKT, PSE/COMPENSATOR/SBS	SYN7983A	Q6820475	--	--
BRKT PSE/COMPEN/SBS/ANTSW	--	--	--	--
BRKT PSE/COMPEN/ANTSW	--	--	--	--
BRKT, PLASTIC SHIELD (SL ONLY)	--	--	--	--
BRKT, HOLDER MOUNTING	--	--	--	--
BRKT, CD-CHNGR BASEPLT (SL ONLY)	--	--	--	--
FALSE BOTTOM (CLK)	--	--	--	--
PTT LEVER: W203	--	--	--	--
PTT LEVER: R129	--	--	--	--
PTT LEVER: R170	--	--	--	--
PTT LEVER: A208, C208, W210, S210	--	--	SYN8014A	Q6820479
PTT LEVER: W220, C215	--	--	--	--
ANTENNA SWITCH (DUAL BAND)	--	--	--	--
ANTENNA SPLITTER (SL ONLY)	--	--	--	--
ADPTR, MALE SAP TO MALE MINI-U	--	--	--	--
TEMPLATE, INSTALLATION	--	--	--	--
FOAM "U" CHANNEL FOR PSE	--	--	--	--
FOAM "U" CHANNEL FOR PSE/SBS	--	--	--	--
MANUAL, SBS ONLY	--	--	SJN9882A	S-2765-000

Vehicle Type MY2001 Timeport		E-CLASS WAGON (S210)		
MBUSA SALES MODEL#	Q6820568		Q6820575	
	STANDARD TELEPHONE KIT		OPTIONAL SBS KIT	
COMPONENT	MOTOROLA P/N	MBUSA P/N	MOTOROLA P/N	MBUSA P/N
PSE	SYN8738A	Q6820648	--	--
COMPENSATOR (DUAL BAND)	SYN8486A	Q6820657	--	--
SBS MODULE	--	--	01000131	Q6820650
CRADLE, NON-OPENING TIMEPORT	SYN8726A	Q6820649	--	--
INSTALL HDW, GENERAL	SYN8013A	Q6820462	--	--
INSTALL HDW, SBS OPTION	--	--	SYN8138A	Q6820463
INSTALL HDW, MISC.	--	--	--	--
CABLE, COILCORD	SKN4975A	Q6820465	--	--
CABLE, D2B OPTICAL	SKN4981A	Q6820466	SKN4982A	Q6820467
CABLE, PSE/COMPSTR	SKN4979A	Q6820468	--	--
CABLE, PSE/COMPSTR/D2B OPTICAL	--	--	--	--
CABLE, COAX ANT SW. TO ECALL	--	--	--	--
CABLE, COAX ANT SW. TO GPS SPLIT	--	--	--	--
BRKT, PSE	--	--	--	--
BRKT, PSE/COMPENSATOR	--	--	--	--
BRKT, ANTENNA SWITCH	--	--	--	--
BRKT, SBS MODULE	--	--	SYN7984A	Q6820472
BRKT, COMPENSATOR	--	--	--	--
BRKT, PSE/COMPENSATOR/SBS	--	--	--	--
BRKT PSE/COMPEN/SBS/ANTSW	--	--	--	--
BRKT PSE/COMPEN/ANTSW	--	--	--	--
BRKT, PLASTIC SHIELD (SL ONLY)	--	--	--	--
BRKT, HOLDER MOUNTING	--	--	--	--
BRKT, CD-CHNGR BASEPLT (SL ONLY)	--	--	--	--
FALSE BOTTOM (CLK)	--	--	--	--
PTT LEVER: W203	--	--	--	--
PTT LEVER: R129	--	--	--	--
PTT LEVER: R170	--	--	--	--
PTT LEVER: A208, C208, W210, S210	--	--	SYN8014A	Q6820479
PTT LEVER: W220, C215	--	--	--	--
ANTENNA SWITCH (DUAL BAND)	SYN8711A	Q6820652	--	--
ANTENNA SPLITTER (SL ONLY)	--	--	--	--
ADPTR, MALE SAP TO MALE MINI-U	--	--	--	--
TEMPLATE, INSTALLATION	--	--	--	--
FOAM "U" CHANNEL FOR PSE	--	--	--	--
FOAM "U" CHANNEL FOR PSE/SBS	--	--	--	--
MANUAL, SBS ONLY	--	--	SJN9882A	S-2765-000

Vehicle Type MY2001 Timeport		SL ROADSTER (R129)		
MBUSA SALES MODEL#	Q6820570		N/A	
	STANDARD TELEPHONE KIT		OPTIONAL SBS KIT	
COMPONENT	MOTOROLA P/N	MBUSA P/N	MOTOROLA P/N	MBUSA P/N
PSE	SYN8738A	Q6820648	SBS STANDARD	
COMPENSATOR (DUAL BAND)	SYN8486A	Q6820657	SBS STANDARD	
SBS MODULE	01000131	Q6820650	SBS STANDARD	
CRADLE, NON-OPENING TIMEPORT	SYN8726A	Q6820649	SBS STANDARD	
INSTALL HDW, GENERAL	SYN8013A	Q6820462	SBS STANDARD	
INSTALL HDW, SBS OPTION	--	--	SBS STANDARD	
INSTALL HDW, MISC.	--	--	SBS STANDARD	
CABLE, COILCORD	SKN4974A	Q6820464	SBS STANDARD	
CABLE, D2B OPTICAL	SKN4949A	Q6820425	SBS STANDARD	
CABLE, PSE/COMPSTR	SKN4979A	Q6820468	SBS STANDARD	
CABLE, PSE/COMPSTR/D2B OPTICAL	--	--	SBS STANDARD	
CABLE, COAX ANT SW. TO ECALL	--	--	SBS STANDARD	
CABLE, COAX ANT SW. TO GPS SPLIT	--	--	SBS STANDARD	
BRKT, PSE	--	--	SBS STANDARD	
BRKT, PSE/COMPENSATOR	--	--	SBS STANDARD	
BRKT, ANTENNA SWITCH	SYN7996A	Q6820471	SBS STANDARD	
BRKT, SBS MODULE	--	--	SBS STANDARD	
BRKT, COMPENSATOR	--	--	SBS STANDARD	
BRKT, PSE/COMPENSATOR/SBS	SYN6974A	Q6820395	SBS STANDARD	
BRKT PSE/COMPEN/SBS/ANTSW	--	--	SBS STANDARD	
BRKT PSE/COMPEN/ANTSW	--	--	SBS STANDARD	
BRKT, PLASTIC SHIELD (SL ONLY)	SYN7190A	Q6820405	SBS STANDARD	
BRKT, HOLDER MOUNTING	SYN8016A	Q6820477	SBS STANDARD	
BRKT, CD-CHNGR BASEPLT (SL ONLY)	NOT IN KIT--DEALER ORDERS SYN6975A (Q6820396) ONLY IF NO CD CHANGER			
FALSE BOTTOM (CLK)	--	--	SBS STANDARD	
PTT LEVER: W203	--	--	SBS STANDARD	
PTT LEVER: R129	SYN7104A	Q6820423	SBS STANDARD	
PTT LEVER: R170	--	--	SBS STANDARD	
PTT LEVER: A208, C208, W210, S210	--	--	SBS STANDARD	
PTT LEVER: W220, C215	--	--	SBS STANDARD	
ANTENNA SWITCH (DUAL BAND)	--	--	SBS STANDARD	
ANTENNA SPLITTER (SL ONLY)	SYN8784A	Q6820675	SBS STANDARD	
ADPTR, MALE SAP TO MALE MINI-U	--	--	SBS STANDARD	
TEMPLATE, INSTALLATION	SJN9087A	Q6820480	SBS STANDARD	
FOAM "U" CHANNEL FOR PSE	--	--	SBS STANDARD	
FOAM "U" CHANNEL FOR PSE/SBS	--	--	SBS STANDARD	
MANUAL, SBS ONLY	SJN9882A	S-2765-000	SBS STANDARD	

Vehicle Type MY2001 Timeport		C-CLASS SEDAN (W203)		
MBUSA SALES MODEL#	Q6820566		Q6820577	
	STANDARD TELEPHONE KIT		OPTIONAL SBS KIT	
COMPONENT	MOTOROLA P/N	MBUSA P/N	MOTOROLA P/N	MBUSA P/N
PSE	SYN8738A	Q6820648	--	--
COMPENSATOR (DUAL BAND)	SYN8486A	Q6820657	--	--
SBS MODULE	--	--	01000131	Q6820650
CRADLE, NON-OPENING TIMEPORT	SYN8726A	Q6820649	--	--
INSTALL HDW, GENERAL	SYN8013A	Q6820462	--	--
INSTALL HDW, SBS OPTION	--	--	--	--
INSTALL HDW, MISC.	--	--	--	--
CABLE, COILCORD	SKN4974A	Q6820464	--	--
CABLE, D2B OPTICAL	NONE REQUIRED-PREWIRED FOR TEL AND		--	--
CABLE, PSE/COMPSTR	SKN4979A	Q6820468	--	--
CABLE, PSE/COMPSTR/D2B OPTICAL	--	--	--	--
CABLE, COAX ANT SW. TO ECALL	--	--	--	--
CABLE, COAX ANT SW. TO GPS SPLIT	--	--	--	--
BRKT, PSE	--	--	--	--
BRKT, PSE/COMPENSATOR	--	--	--	--
BRKT, ANTENNA SWITCH	--	--	--	--
BRKT, SBS MODULE	--	--	SYN8460A	Q6820654
BRKT, COMPENSATOR	--	--	--	--
BRKT, PSE/COMPENSATOR/SBS	--	--	--	--
BRKT PSE/COMPEN/SBS/ANTSW	--	--	--	--
BRKT PSE/COMPEN/ANTSW	SYN8457A	Q6820653	--	--
BRKT, PLASTIC SHIELD (SL ONLY)	--	--	--	--
BRKT, HOLDER MOUNTING	--	--	--	--
BRKT, CD-CHNGR BASEPLT (SL ONLY)	--	--	--	--
FALSE BOTTOM (CLK)	--	--	--	--
PTT LEVER: W203	--	--	01000154	Q6820651
PTT LEVER: R129	--	--	--	--
PTT LEVER: R170	--	--	--	--
PTT LEVER: A208, C208, W210, S210	--	--	--	--
PTT LEVER: W220, C215	--	--	--	--
ANTENNA SWITCH (DUAL BAND)	--	--	--	--
ANTENNA SPLITTER (SL ONLY)	--	--	--	--
ADPTR, MALE SAP TO MALE MINI-U	--	--	--	--
TEMPLATE, INSTALLATION	SYN8733A	TBD	--	--
FOAM "U" CHANNEL FOR PSE	--	--	--	--
FOAM "U" CHANNEL FOR PSE/SBS	--	--	--	--
MANUAL, SBS ONLY	--	--	SJN9882A	S-2765-000

Vehicle Type MY2001 Timeport	SLK ROADSTER (R170)			
MBUSA SALES MODEL#	Q6820569		Q6820576	
	STANDARD TELEPHONE KIT		OPTIONAL SBS KIT	
COMPONENT	MOTOROLA P/N	MBUSA P/N	MOTOROLA P/N	MBUSA P/N
PSE	SYN8738A	Q6820648	--	--
COMPENSATOR (DUAL BAND)	SYN8486A	Q6820657	--	--
SBS MODULE	--	--	01000131	Q6820650
CRADLE, NON-OPENING TIMEPORT	SYN8726A	Q6820649	--	--
INSTALL HDW, GENERAL	SYN8013A	Q6820462	--	--
INSTALL HDW, SBS OPTION	--	--	--	--
INSTALL HDW, MISC.	SYN5859A	Q6820278	--	--
CABLE, COILCORD	SKN4974A	Q6820464	--	--
CABLE, D2B OPTICAL	NONE REQUIRED-PREWIRED FOR TEL		SKN6117A	Q6820549
CABLE, PSE/COMPSTR	SKN4979A	Q6820468	--	--
CABLE, PSE/COMPSTR/D2B OPTICAL	--	--	--	--
CABLE, COAX ANT SW. TO ECALL	--	--	--	--
CABLE, COAX ANT SW. TO GPS SPLIT	--	--	--	--
BRKT, PSE	--	--	--	--
BRKT, PSE/COMPENSATOR	--	--	--	--
BRKT, ANTENNA SWITCH	--	--	--	--
BRKT, SBS MODULE	--	--	SYN8339A	Q6820548
BRKT, COMPENSATOR	SYN8338A	Q6820547	--	--
BRKT, PSE/COMPENSATOR/SBS	--	--	--	--
BRKT PSE/COMPEN/SBS/ANTSW	--	--	--	--
BRKT PSE/COMPEN/ANTSW	--	--	--	--
BRKT, PLASTIC SHIELD (SL ONLY)	--	--	--	--
BRKT, HOLDER MOUNTING	SYN8136A	Q6820478	--	--
BRKT, CD-CHNGR BASEPLT (SL ONLY)	--	--	--	--
FALSE BOTTOM (CLK)	--	--	--	--
PTT LEVER: W203	--	--	--	--
PTT LEVER: R129	--	--	--	--
PTT LEVER: R170	--	--	SYN8054A	Q6820551
PTT LEVER: A208, C208, W210, S210	--	--	--	--
PTT LEVER: W220, C215	--	--	--	--
ANTENNA SWITCH (DUAL BAND)	SYN8711A	Q6820652	--	--
ANTENNA SPLITTER (SL ONLY)	--	--	--	--
ADPTR, MALE SAP TO MALE MINI-U	81161	Q6820274	--	--
TEMPLATE, INSTALLATION	--	--	--	--
FOAM "U" CHANNEL FOR PSE	SYN5853B	Q6820390	--	--
FOAM "U" CHANNEL FOR PSE/SBS	--	--	SYN8159A	Q6820550
MANUAL, SBS ONLY	--	--	SJN9882A	S-2765-000

Vehicle Type MY2001 Timeport		M-CLASS (W163)		
MBUSA SALES MODEL#	Q6820563			
	STANDARD TELEPHONE KIT		OPTIONAL SBS KIT	
COMPONENT	MOTOROLA P/N	MBUSA P/N	MOTOROLA P/N	MBUSA P/N
PSE	SYN8738A	Q6820648	SBS NOT AVAILABLE	
COMPENSATOR (DUAL BAND)	SYN8486A	Q6820657	SBS NOT AVAILABLE	
SBS MODULE	--	--	SBS NOT AVAILABLE	
CRADLE, NON-OPENING TIMEPORT	SYN8726A	Q6820649	SBS NOT AVAILABLE	
INSTALL HDW, GENERAL	SYN8013A	Q6820462	SBS NOT AVAILABLE	
INSTALL HDW, SBS OPTION	--	--	SBS NOT AVAILABLE	
INSTALL HDW, MISC.	--	--	SBS NOT AVAILABLE	
CABLE, COILCORD	SKN4974A	Q6820464	SBS NOT AVAILABLE	
CABLE, D2B OPTICAL	--	--	SBS NOT AVAILABLE	
CABLE, PSE/COMPSTR	--	--	SBS NOT AVAILABLE	
CABLE, PSE/COMPSTR/D2B OPTICAL	SKN6327A	Q6820672	SBS NOT AVAILABLE	
CABLE, COAX ANT SW. TO ECALL	SKN6328A	Q6820673	SBS NOT AVAILABLE	
CABLE, COAX ANT SW. TO GPS SPLIT	SKN6329A	Q6820674	SBS NOT AVAILABLE	
BRKT, PSE	--	--	SBS NOT AVAILABLE	
BRKT, PSE/COMPENSATOR	--	--	SBS NOT AVAILABLE	
BRKT, ANTENNA SWITCH	--	--	SBS NOT AVAILABLE	
BRKT, SBS MODULE	--	--	SBS NOT AVAILABLE	
BRKT, COMPENSATOR	SYN7986A	Q6820473	SBS NOT AVAILABLE	
BRKT, PSE/COMPENSATOR/SBS	--	--	SBS NOT AVAILABLE	
BRKT PSE/COMPEN/SBS/ANTSW	--	--	SBS NOT AVAILABLE	
BRKT PSE/COMPEN/ANTSW	--	--	SBS NOT AVAILABLE	
BRKT, PLASTIC SHIELD (SL ONLY)	--	--	SBS NOT AVAILABLE	
BRKT, HOLDER MOUNTING	--	--	SBS NOT AVAILABLE	
BRKT, CD-CHNGR BASEPLT (SL ONLY)	--	--	SBS NOT AVAILABLE	
FALSE BOTTOM (CLK)	--	--	SBS NOT AVAILABLE	
PTT LEVER: W203	--	--	SBS NOT AVAILABLE	
PTT LEVER: R129	--	--	SBS NOT AVAILABLE	
PTT LEVER: R170	--	--	SBS NOT AVAILABLE	
PTT LEVER: A208, C208, W210, S210	--	--	SBS NOT AVAILABLE	
PTT LEVER: W220, C215	--	--	SBS NOT AVAILABLE	
ANTENNA SWITCH (DUAL BAND)	SYN8711A	Q6820652	SBS NOT AVAILABLE	
ANTENNA SPLITTER (SL ONLY)	--	--	SBS NOT AVAILABLE	
ADPTR, MALE SAP TO MALE MINI-U	--	--	SBS NOT AVAILABLE	
TEMPLATE, INSTALLATION	SYN8160A	Q6820481	SBS NOT AVAILABLE	
FOAM "U" CHANNEL FOR PSE	--	--	SBS NOT AVAILABLE	
FOAM "U" CHANNEL FOR PSE/SBS	--	--	SBS NOT AVAILABLE	
MANUAL, SBS ONLY	--	--	SBS NOT AVAILABLE	

5.4 MY02 v.60 Bill of Materials

Vehicle Type MY2002 v.60	S-Class Sedan (W220)			
MBUSA/MOT. SALES MODEL#	Q6820720		N/A	
SALES MODEL TYPE	S-CLASS SEDAN (W220) WITH VR VEHICLE COMPLETER KIT		OPTIONAL SBS KIT	
COMPONENT	MOTOROLA P/N	MBUSA P/N	MOTOROLA P/N	MBUSA P/N
SBS MODULE	01000131	Q6820650	SBS STANDARD	
INSTALL HDW, SBS OPTION	--	--	SBS STANDARD	
INSTALL HDW, MISC.	--	--	SBS STANDARD	
CABLE, D2B OPTICAL	SKN4960A	Q6820432	SBS STANDARD	
D2B CABLE CONNECTOR HOUSINGS	--	--	SBS STANDARD	
CABLE, PSE/COMPSTR	SKN4979A	Q6820468	SBS STANDARD	
CABLE, PSE/COMPSTR/D2B OPTICAL	--	--	SBS STANDARD	
CABLE, COAX (S203 ONLY)	--	--	SBS STANDARD	
BRKT, PSE	SYN7162A	Q6820426	SBS STANDARD	
BRKT, PSE/COMPENSATOR	--	--	SBS STANDARD	
BRKT, ANTENNA SWITCH	SYN7161A	Q6820431	SBS STANDARD	
BRKT, SBS MODULE	SYN7163A	Q6820429	SBS STANDARD	
BRKT, COMPENSATOR	SYN7164A	Q6820427	SBS STANDARD	
BRKT, PSE/COMPENSATOR/SBS	--	--	SBS STANDARD	
BRKT PSE/COMPEN/SBS/ANTSW	--	--	SBS STANDARD	
BRKT PSE/COMPEN/ANTSW	--	--	SBS STANDARD	
BRKT, PLASTIC SHIELD (SL ONLY)	--	--	SBS STANDARD	
BRKT, HOLDER MOUNTING	--	--	SBS STANDARD	
BRKT, v.60 HOLDER MTG PLATE	--	--	SBS STANDARD	
BRKT, CD-CHNGR BASEPLT (SL ONLY)	--	--	SBS STANDARD	
FALSE BOTTOM (CLK ONLY)	--	--	SBS STANDARD	
PTT LEVER	SYN8055A	Q6820512	SBS STANDARD	
ANTENNA SWITCH (DUAL BAND)	SYN8711A	Q6820652	SBS STANDARD	
ANTENNA SPLITTER (SL ONLY)	--	--	SBS STANDARD	
ADPTR, MALE SAP TO MALE MINI-U (SLK only)	--	--	SBS STANDARD	
TEMPLATE, v.60 HOLDER INSTALL	SYN9403A	Q6820755	SBS STANDARD	
TEMPLATE, TIMEPORT HOLDER INSTALL	SJN9088A	Q6820482	SBS STANDARD	
FOAM "U" CHANNEL FOR PSE	--	--	SBS STANDARD	
FOAM "U" CHANNEL FOR PSE/SBS	--	--	SBS STANDARD	
MANUAL, SBS	SJN9882A	S-2765-000	SBS STANDARD	

Vehicle Type MY2002 v.60	S-Class Coupe (C215)			
MBUSA/MOT. SALES MODEL#	Q6820721		N/A	
SALES MODEL TYPE	S-CLASS COUPE (C215) WITH VR VEHICLE COMPLETER KIT		OPTIONAL SBS KIT	
COMPONENT	MOTOROLA P/N	MBUSA P/N	MOTOROLA P/N	MBUSA P/N
SBS MODULE	01000131	Q6820650	SBS STANDARD	
INSTALL HDW, SBS OPTION	--	--	SBS STANDARD	
INSTALL HDW, MISC.	--	--	SBS STANDARD	
CABLE, D2B OPTICAL	SKN4984A	Q6820508	SBS STANDARD	
D2B CABLE CONNECTOR HOUSINGS	--	--	SBS STANDARD	
CABLE, PSE/COMPSTR	SKN4979A	Q6820468	SBS STANDARD	
CABLE, PSE/COMPSTR/D2B OPTICAL	--	--	SBS STANDARD	
CABLE, COAX (S203 ONLY)	--	--	SBS STANDARD	
BRKT, PSE	--	--	SBS STANDARD	
BRKT, PSE/COMPENSATOR	SYN7978A	Q6820510	SBS STANDARD	
BRKT, ANTENNA SWITCH	--	--	SBS STANDARD	
BRKT, SBS MODULE	SYN7977A	Q6820509	SBS STANDARD	
BRKT, COMPENSATOR	--	--	SBS STANDARD	
BRKT, PSE/COMPENSATOR/SBS	--	--	SBS STANDARD	
BRKT PSE/COMPEN/SBS/ANTSW	--	--	SBS STANDARD	
BRKT PSE/COMPEN/ANTSW	--	--	SBS STANDARD	
BRKT, PLASTIC SHIELD (SL ONLY)	--	--	SBS STANDARD	
BRKT, HOLDER MOUNTING	--	--	SBS STANDARD	
BRKT, v.60 HOLDER MTG PLATE	--	--	SBS STANDARD	
BRKT, CD-CHNGR BASEPLT (SL ONLY)	--	--	SBS STANDARD	
FALSE BOTTOM (CLK ONLY)	--	--	SBS STANDARD	
PTT LEVER	SYN8055A	Q6820512	SBS STANDARD	
ANTENNA SWITCH (DUAL BAND)	--	--	SBS STANDARD	
ANTENNA SPLITTER (SL ONLY)	--	--	SBS STANDARD	
ADPTR, MALE SAP TO MALE MINI-U (SLK only)	--	--	SBS STANDARD	
TEMPLATE, v.60 HOLDER INSTALL	SYN9424A	Q6820756	SBS STANDARD	
TEMPLATE, TIMEPORT HOLDER INSTALL	SJN9220A	Q6820511	SBS STANDARD	
FOAM "U" CHANNEL FOR PSE	--	--	SBS STANDARD	
FOAM "U" CHANNEL FOR PSE/SBS	--	--	SBS STANDARD	
MANUAL, SBS	SJN9882A	S-2765-000	SBS STANDARD	

Vehicle Type MY2002 v.60	CLK CABRIO (A208)			
MBUSA/MOT. SALES MODEL#	Q6820711		Q6820573 (for both A208 & C208)	
			N/A	(MY01 carryover)
SALES MODEL TYPE	CLK CABRIO (A208) VEHICLE COMPLETER KIT		OPTIONAL SBS KIT	
COMPONENT	MOTOROLA P/N	MBUSA P/N	MOTOROLA P/N	MBUSA P/N
SBS MODULE	--	--	01000131	Q6820650
INSTALL HDW, SBS OPTION	--	--	SYN8138A	Q6820463
INSTALL HDW, MISC.	--	--	--	--
CABLE, D2B OPTICAL	NONE REQUIRED- TEL & SBS PREWIRED			--
D2B CABLE CONNECTOR HOUSINGS	--	--	--	--
CABLE, PSE/COMPSTR	SKN4979A	Q6820468	--	--
CABLE, PSE/COMPSTR/D2B OPTICAL	--	--	--	--
CABLE, COAX (S203 ONLY)	--	--	--	--
BRKT, PSE	--	--	--	--
BRKT, PSE/COMPENSATOR	--	--	--	--
BRKT, ANTENNA SWITCH	--	--	--	--
BRKT, SBS MODULE	--	--	--	--
BRKT, COMPENSATOR	--	--	--	--
BRKT, PSE/COMPENSATOR/SBS	--	--	--	--
BRKT PSE/COMPEN/SBS/ANTSW	SYN7974A	Q6820476	--	--
BRKT PSE/COMPEN/ANTSW	--	--	--	--
BRKT, PLASTIC SHIELD (SL ONLY)	--	--	--	--
BRKT, HOLDER MOUNTING	--	--	--	--
BRKT, v.60 HOLDER MTG PLATE	--	--	--	--
BRKT, CD-CHNGR BASEPLT (SL ONLY)	--	--	--	--
FALSE BOTTOM (CLK ONLY)	SYN6754A	Q6820322	--	--
PTT LEVER	--	--	SYN8014A	Q6820479
ANTENNA SWITCH (DUAL BAND)	SYN8711A	Q6820652	--	--
ANTENNA SPLITTER (SL ONLY)	--	--	--	--
ADPTR, MALE SAP TO MALE MINI-U (SLK only)	--	--	--	--
TEMPLATE, v.60 HOLDER INSTALL	SYN9404A	Q6820757	--	--
TEMPLATE, TIMEPORT HOLDER INSTALL	--	--	--	--
FOAM "U" CHANNEL FOR PSE	--	--	--	--
FOAM "U" CHANNEL FOR PSE/SBS	--	--	--	--
MANUAL, SBS	--	--	SJN9882A	S-2765-000

Vehicle Type MY2002 v.60	CLK COUPE (C208)			
MBUSA/MOT. SALES MODEL#	Q6820710		Q6820573 (for both A208 & C208)	
			N/A	(MY01 carryover)
SALES MODEL TYPE	CLK COUPE (C208) VEHICLE COMPLETER KIT		OPTIONAL SBS KIT	
COMPONENT	MOTOROLA P/N	MBUSA P/N	MOTOROLA P/N	MBUSA P/N
SBS MODULE	--	--	01000131	Q6820650
INSTALL HDW, SBS OPTION	--	--	SYN8138A	Q6820463
INSTALL HDW, MISC.	--	--	--	--
CABLE, D2B OPTICAL	NONE REQUIRED-TEL & SBS PREWIRED			--
D2B CABLE CONNECTOR HOUSINGS	--	--	--	--
CABLE, PSE/COMPSTR	SKN4979A	Q6820468	--	--
CABLE, PSE/COMPSTR/D2B OPTICAL	--	--	--	--
CABLE, COAX (S203 ONLY)	--	--	--	--
BRKT, PSE	--	--	--	--
BRKT, PSE/COMPENSATOR	--	--	--	--
BRKT, ANTENNA SWITCH	--	--	--	--
BRKT, SBS MODULE	--	--	--	--
BRKT, COMPENSATOR	--	--	--	--
BRKT, PSE/COMPENSATOR/SBS	SYN7975A	Q6820474	--	--
BRKT PSE/COMPEN/SBS/ANTSW	--	--	--	--
BRKT PSE/COMPEN/ANTSW	--	--	--	--
BRKT, PLASTIC SHIELD (SL ONLY)	--	--	--	--
BRKT, HOLDER MOUNTING	--	--	--	--
BRKT, v.60 HOLDER MTG PLATE	--	--	--	--
BRKT, CD-CHNGR BASEPLT (SL ONLY)	--	--	--	--
FALSE BOTTOM (CLK ONLY)	SYN6754A	Q6820322	--	--
PIT LEVER	--	--	SYN8014A	Q6820479
ANTENNA SWITCH (DUAL BAND)	--	--	--	--
ANTENNA SPLITTER (SL ONLY)	--	--	--	--
ADPTR, MALE SAP TO MALE MINI-U (SLK only)	--	--	--	--
TEMPLATE, v.60 HOLDER INSTALL	SYN9404A	Q6820757	--	--
TEMPLATE, TIMEPORT HOLDER INSTALL	--	--	--	--
FOAM "U" CHANNEL FOR PSE	--	--	--	--
FOAM "U" CHANNEL FOR PSE/SBS	--	--	--	--
MANUAL, SBS	--	--	SJN9882A	S-2765-000

Vehicle Type MY2002 v.60	E-CLASS SEDAN (W210)			
MBUSA/MOT. SALES MODEL#	Q6820716		Q6820574 (MY01 carryover)	
SALES MODEL TYPE	E-CLASS SEDAN (W210) VEHICLE COMPLETER KIT		OPTIONAL SBS KIT	
COMPONENT	MOTOROLA P/N	MBUSA P/N	MOTOROLA P/N	MBUSA P/N
SBS MODULE	--	--	01000131	Q6820650
INSTALL HDW, SBS OPTION	--	--	SYN8138A	Q6820463
INSTALL HDW, MISC.	--	--	--	--
CABLE, D2B OPTICAL	SKN4981A	Q6820466	SKN4982A	Q6820467
D2B CABLE CONNECTOR HOUSINGS	--	--	--	--
CABLE, PSE/COMPSTR	SKN4979A	Q6820468	--	--
CABLE, PSE/COMPSTR/D2B OPTICAL	--	--	--	--
CABLE, COAX (S203 ONLY)	--	--		
BRKT, PSE	--	--	--	--
BRKT, PSE/COMPENSATOR	--	--	--	--
BRKT, ANTENNA SWITCH	--	--	--	--
BRKT, SBS MODULE	--	--	--	--
BRKT, COMPENSATOR	--	--	--	--
BRKT, PSE/COMPENSATOR/SBS	SYN7983A	Q6820475	--	--
BRKT PSE/COMPEN/SBS/ANTSW	--	--	--	--
BRKT PSE/COMPEN/ANTSW	--	--	--	--
BRKT, PLASTIC SHIELD (SL ONLY)	--	--	--	--
BRKT, HOLDER MOUNTING	--	--	--	--
BRKT, v.60 HOLDER MTG PLATE	--	--	--	--
BRKT, CD-CHNGR BASEPLT (SL ONLY)	--	--	--	--
FALSE BOTTOM (CLK ONLY)	--	--	--	--
PTT LEVER	--	--	SYN8014A	Q6820479
ANTENNA SWITCH (DUAL BAND)	--	--	--	--
ANTENNA SPLITTER (SL ONLY)	--	--	--	--
ADPTR, MALE SAP TO MALE MINI-U (SLK only)	--	--	--	--
TEMPLATE, v.60 HOLDER INSTALL	SYN9405A	Q6820758	--	--
TEMPLATE, TIMEPORT HOLDER INSTALL	--	--	--	--
FOAM "U" CHANNEL FOR PSE	--	--	--	--
FOAM "U" CHANNEL FOR PSE/SBS	--	--	--	--
MANUAL, SBS	--	--	SJN9882A	S-2765-000

5.0 Bill of Materials Section

Vehicle Type MY2002 v.60	E-CLASS WAGON (S210)			
MBUSA/MOT. SALES MODEL#	Q6820717		Q6820575 (MY01 carryover)	
SALES MODEL TYPE	E-CLASS WAGON (S203) VEHICLE COMPLETER KIT		OPTIONAL SBS KIT	
COMPONENT	MOTOROLA P/N	MBUSA P/N	MOTOROLA P/N	MBUSA P/N
SBS MODULE	--	--	01000131	Q6820650
INSTALL HDW, SBS OPTION	--	--	SYN8138A	Q6820463
INSTALL HDW, MISC.	--	--	--	--
CABLE, D2B OPTICAL	SKN4981A	Q6820466	SKN4982A	Q6820467
D2B CABLE CONNECTOR HOUSINGS	--	--	--	--
CABLE, PSE/COMPSTR	SKN4979A	Q6820468	--	--
CABLE, PSE/COMPSTR/D2B OPTICAL	--	--	--	--
CABLE, COAX (S203 ONLY)				
BRKT, PSE	--	--	--	--
BRKT, PSE/COMPENSATOR	--	--	--	--
BRKT, ANTENNA SWITCH	--	--	--	--
BRKT, SBS MODULE	--	--	SYN7984A	Q6820472
BRKT, COMPENSATOR	--	--	--	--
BRKT, PSE/COMPENSATOR/SBS	--	--	--	--
BRKT PSE/COMPEN/SBS/ANTSW	--	--	--	--
BRKT PSE/COMPEN/ANTSW	--	--	--	--
BRKT, PLASTIC SHIELD (SL ONLY)	--	--	--	--
BRKT, HOLDER MOUNTING	--	--	--	--
BRKT, v.60 HOLDER MTG PLATE	--	--	--	--
BRKT, CD-CHNGR BASEPLT (SL ONLY)	--	--	--	--
FALSE BOTTOM (CLK ONLY)	--	--	--	--
PIT LEVER	--	--	SYN8014A	Q6820479
ANTENNA SWITCH (DUAL BAND)	SYN8711A	Q6820652	--	--
ANTENNA SPLITTER (SL ONLY)	--	--	--	--
ADPTR, MALE SAP TO MALE MINI-U (SLK only)	--	--	--	--
TEMPLATE, v.60 HOLDER INSTALL	SYN9405A	Q6820758	--	--
TEMPLATE, TIMEPORT HOLDER INSTALL	--	--	--	--
FOAM "U" CHANNEL FOR PSE	--	--	--	--
FOAM "U" CHANNEL FOR PSE/SBS	--	--	--	--
MANUAL, SBS	--	--	SJN9882A	S-2765-000

Vehicle Type MY2002 v.60	SL ROADSTER (R129)			
MBUSA/MOT. SALES MODEL#	Q6820719		N/A	
SALES MODEL TYPE	SL (R129) WITH VR VEHICLE COMPLETER KIT		OPTIONAL SBS KIT	
COMPONENT	MOTOROLA P/N	MBUSA P/N	MOTOROLA P/N	MBUSA P/N
SBS MODULE	01000131	Q6820650	SBS STANDARD	
INSTALL HDW, SBS OPTION	--	--	SBS STANDARD	
INSTALL HDW, MISC.	--	--	SBS STANDARD	
CABLE, D2B OPTICAL	SKN4949A	Q6820425	SBS STANDARD	
D2B CABLE CONNECTOR HOUSINGS	--	--	SBS STANDARD	
CABLE, PSE/COMPSTR	SKN4979A	Q6820468	SBS STANDARD	
CABLE, PSE/COMPSTR/D2B OPTICAL	--	--	SBS STANDARD	
CABLE, COAX (S203 ONLY)	--	--	SBS STANDARD	
BRKT, PSE	--	--	SBS STANDARD	
BRKT, PSE/COMPENSATOR	--	--	SBS STANDARD	
BRKT, ANTENNA SWITCH	SYN7996A	Q6820471	SBS STANDARD	
BRKT, SBS MODULE	--	--	SBS STANDARD	
BRKT, COMPENSATOR	--	--	SBS STANDARD	
BRKT, PSE/COMPENSATOR/SBS	SYN6974A	Q6820395	SBS STANDARD	
BRKT PSE/COMPEN/SBS/ANTSW	--	--	SBS STANDARD	
BRKT PSE/COMPEN/ANTSW	--	--	SBS STANDARD	
BRKT, PLASTIC SHIELD (SL ONLY)	SYN7190A	Q6820405	SBS STANDARD	
BRKT, HOLDER MOUNTING	SYN9287A	Q6820759	SBS STANDARD	
BRKT, v.60 HOLDER MTG PLATE	SYN9437A	Q6820760	SBS STANDARD	
BRKT, CD-CHNGR BASEPLT (SL ONLY)	NOT IN KIT--DLR ORDERS SYN6975A (Q6820396) ONLY IF NO CD CHANGER INSTALLED			
FALSE BOTTOM (CLK ONLY)	--	--	SBS STANDARD	
PTT LEVER	SYN7104A	Q6820423	SBS STANDARD	
ANTENNA SWITCH (DUAL BAND)	--	--	SBS STANDARD	
ANTENNA SPLITTER (SL ONLY)	SYN8784A	Q6820675	SBS STANDARD	
ADPTR, MALE SAP TO MALE MINI-U (SLK only)	--	--	SBS STANDARD	
TEMPLATE, v.60 HOLDER INSTALL	SJN4491A	Q6820761	SBS STANDARD	
TEMPLATE, TIMEPORT HOLDER INSTALL	SJN9087A	Q6820480	SBS STANDARD	
FOAM "U" CHANNEL FOR PSE	--	--	SBS STANDARD	
FOAM "U" CHANNEL FOR PSE/SBS	--	--	SBS STANDARD	
MANUAL, SBS	SJN9882A	S-2765-000	SBS STANDARD	

Vehicle Type MY2002 v.60	C-CLASS SEDAN (W203)			
MBUSA/MOT. SALES MODEL#	Q6820712		Q6820577 (for W/S/CL 203)	
			(MY01 carryover)	
SALES MODEL TYPE	C-CLASS SEDAN (W203) VEHICLE COMPLETER KIT		OPTIONAL SBS KIT	
COMPONENT	MOTOROLA P/N	MBUSA P/N	MOTOROLA P/N	MBUSA P/N
SBS MODULE	--	--	01000131	Q6820650
INSTALL HDW, SBS OPTION	--	--	--	--
INSTALL HDW, MISC.	--	--	--	--
CABLE, D2B OPTICAL	NONE REQUIRED-PREWIRED FOR PHONE & SBS			--
D2B CABLE CONNECTOR HOUSINGS	--	--	--	--
CABLE, PSE/COMPSTR	SKN4979A	Q6820468	--	--
CABLE, PSE/COMPSTR/D2B OPTICAL	--	--	--	--
CABLE, COAX (S203 ONLY)	--	--	--	--
BRKT, PSE	--	--	--	--
BRKT, PSE/COMPENSATOR	--	--	--	--
BRKT, ANTENNA SWITCH	--	--	--	--
BRKT, SBS MODULE	--	--	SYN8460A	Q6820654
BRKT, COMPENSATOR	--	--	--	--
BRKT, PSE/COMPENSATOR/SBS	--	--	--	--
BRKT PSE/COMPEN/SBS/ANTSW	--	--	--	--
BRKT PSE/COMPEN/ANTSW	SYN8457A	Q6820653	--	--
BRKT, PLASTIC SHIELD (SL ONLY)	--	--	--	--
BRKT, HOLDER MOUNTING	--	--	--	--
BRKT, v.60 HOLDER MTG PLATE	--	--	--	--
BRKT, CD-CHNGR BASEPLT (SL ONLY)	--	--	--	--
FALSE BOTTOM (CLK ONLY)	--	--	--	--
PTT LEVER	--	--	01000154	Q6820651
ANTENNA SWITCH (DUAL BAND)	SYN8711A	Q6820652	--	--
ANTENNA SPLITTER (SL ONLY)	--	--	--	--
ADPTR, MALE SAP TO MALE MINI-U (SLK only)	--	--	--	--
TEMPLATE, v.60 HOLDER INSTALL	SYN9440A	Q6820762	--	--
TEMPLATE, TIMEPORT HOLDER INSTALL	SYN8733A	Q6820763	--	--
FOAM "U" CHANNEL FOR PSE	--	--	--	--
FOAM "U" CHANNEL FOR PSE/SBS	--	--	--	--
MANUAL, SBS	--	--	SJN9882A	S-2765-000

Vehicle Type MY2002 v.60	C-CLASS WAGON (S203)			
MBUSA/MOT. SALES MODEL#	Q6820713		Q6820577 (for W/S/CL 203)	
			(MY01 carryover)	
SALES MODEL TYPE	C-CLASS WAGON (S203) VEHICLE COMPLETER KIT		OPTIONAL SBS KIT	
COMPONENT	MOTOROLA P/N	MBUSA P/N	MOTOROLA P/N	MBUSA P/N
SBS MODULE	--	--	01000131	Q6820650
INSTALL HDW, SBS OPTION	--	--	--	--
INSTALL HDW, MISC.	--	--	--	--
CABLE, D2B OPTICAL	NONE REQUIRED-PREWired FOR PHONE &			--
D2B CABLE CONNECTOR HOUSINGS	--	--	--	--
CABLE, PSE/COMPSTR	SKN4979A	Q6820468	--	--
CABLE, PSE/COMPSTR/D2B OPTICAL	--	--	--	--
CABLE, COAX (S203 ONLY)	SKN6358A	Q6820702	--	--
BRKT, PSE	--	--	--	--
BRKT, PSE/COMPENSATOR	--	--	--	--
BRKT, ANTENNA SWITCH	--	--	--	--
BRKT, SBS MODULE	--	--	SYN8460A	Q6820654
BRKT, COMPENSATOR	--	--	--	--
BRKT, PSE/COMPENSATOR/SBS	--	--	--	--
BRKT PSE/COMPEN/SBS/ANTSW	--	--	--	--
BRKT PSE/COMPEN/ANTSW	SYN8458A	Q6820656	--	--
BRKT, PLASTIC SHIELD (SL ONLY)	--	--	--	--
BRKT, HOLDER MOUNTING	--	--	--	--
BRKT, v.60 HOLDER MTG PLATE	--	--	--	--
BRKT, CD-CHNGR BASEPLT (SL ONLY)	--	--	--	--
FALSE BOTTOM (CLK ONLY)	--	--	--	--
PTT LEVER	--	--	01000154	Q6820651
ANTENNA SWITCH (DUAL BAND)	SYN8711A	Q6820652	--	--
ANTENNA SPLITTER (SL ONLY)	--	--	--	--
ADPTR, MALE SAP TO MALE MINI-U (SLK only)	--	--	--	--
TEMPLATE, v.60 HOLDER INSTALL	SYN9440A	Q6820762	--	--
TEMPLATE, TIMEPORT HOLDER INSTALL	SYN8733A	Q6820763	--	--
FOAM "U" CHANNEL FOR PSE	--	--	--	--
FOAM "U" CHANNEL FOR PSE/SBS	--	--	--	--
MANUAL, SBS	--	--	SJN9882A	S-2765-000

Vehicle Type MY2002 v.60	C-CLASS COUPE (CL203) WITHOUT TELEAID			
MBUSA/MOT. SALES MODEL#	Q6820715		Q6820577 (for W/S/CL 203)	
			(MY01 carryover)	
SALES MODEL TYPE	C-CLASS COUPE (CL203) WITHOUT TELEAID VEHICLE COMPLETER KIT		OPTIONAL SBS KIT	
COMPONENT	MOTOROLA P/N	MBUSA P/N	MOTOROLA P/N	MBUSA P/N
SBS MODULE	--	--	01000131	Q6820650
INSTALL HDW, SBS OPTION	--	--	--	--
INSTALL HDW, MISC.	--	--	--	--
CABLE, D2B OPTICAL	NONE REQUIRED-PREWIRED FOR PHONE & SBS			--
D2B CABLE CONNECTOR HOUSINGS	--	--	--	--
CABLE, PSE/COMPSTR	SKN4979A	Q6820468	--	--
CABLE, PSE/COMPSTR/D2B OPTICAL	--	--	--	--
CABLE, COAX (S203 ONLY)	--	--	--	--
BRKT, PSE	--	--	--	--
BRKT, PSE/COMPENSATOR	--	--	--	--
BRKT, ANTENNA SWITCH	--	--	--	--
BRKT, SBS MODULE	--	--	SYN8460A	Q6820654
BRKT, COMPENSATOR	--	--	--	--
BRKT, PSE/COMPENSATOR/SBS	--	--	--	--
BRKT PSE/COMPEN/SBS/ANTSW	--	--	--	--
BRKT PSE/COMPEN/ANTSW	SYN8459A	Q6820655	--	--
BRKT, PLASTIC SHIELD (SL ONLY)		--	--	--
BRKT, HOLDER MOUNTING	--	--	--	--
BRKT, v.60 HOLDER MTG PLATE	--	--	--	--
BRKT, CD-CHNGR BASEPLT (SL ONLY)	--	--	--	--
FALSE BOTTOM (CLK ONLY)	--	--	--	--
PTT LEVER	--	--	01000154	Q6820651
ANTENNA SWITCH (DUAL BAND)	--	--	--	--
ANTENNA SPLITTER (SL ONLY)	--	--	--	--
ADPTR, MALE SAP TO MALE MINI-U (SLK only)	--	--	--	--
TEMPLATE, v.60 HOLDER INSTALL	SYN9440A	Q6820762	--	--
TEMPLATE, TIMEPORT HOLDER INSTALL	SYN8733A	Q6820763	--	--
FOAM "U" CHANNEL FOR PSE	--	--	--	--
FOAM "U" CHANNEL FOR PSE/SBS	--	--	--	--
MANUAL, SBS	--	--	SJN9882A	S-2765-000

Vehicle Type MY2002 v.60	C-CLASS COUPE (CL203) WITH TELEAID			
MBUSA/MOT. SALES MODEL#	Q6820714		Q6820577 (for W/S/CL 203)	
			(MY01 carryover)	
SALES MODEL TYPE	C-CLASS COUPE (CL203) VEHICLE COMPLETER KIT		OPTIONAL SBS KIT	
COMPONENT	MOTOROLA P/N	MBUSA P/N	MOTOROLA P/N	MBUSA P/N
SBS MODULE	--	--	01000131	Q6820650
INSTALL HDW, SBS OPTION	--	--	--	--
INSTALL HDW, MISC.	--	--	--	--
CABLE, D2B OPTICAL	NONE REQUIRED-PREWIRED FOR PHONE & SBS			
D2B CABLE CONNECTOR HOUSINGS	--	--	--	--
CABLE, PSE/COMPSTR	SKN4979A	Q6820468	--	--
CABLE, PSE/COMPSTR/D2B OPTICAL	--	--	--	--
CABLE, COAX (S203 ONLY)	--	--	--	--
BRKT, PSE	--	--	--	--
BRKT, PSE/COMPENSATOR	--	--	--	--
BRKT, ANTENNA SWITCH	--	--	--	--
BRKT, SBS MODULE	--	--	SYN8460A	Q6820654
BRKT, COMPENSATOR	--	--	--	--
BRKT, PSE/COMPENSATOR/SBS	--	--	--	--
BRKT PSE/COMPEN/SBS/ANTSW	--	--	--	--
BRKT PSE/COMPEN/ANTSW	SYN8459A	Q6820655	--	--
BRKT, PLASTIC SHIELD (SL ONLY)	--	--	--	--
BRKT, HOLDER MOUNTING	--	--	--	--
BRKT, v.60 HOLDER MTG PLATE	--	--	--	--
BRKT, CD-CHNGR BASEPLT (SL ONLY)	--	--	--	--
FALSE BOTTOM (CLK ONLY)	--	--	--	--
PTT LEVER	--	--	01000154	Q6820651
ANTENNA SWITCH (DUAL BAND)	SYN8711A	Q6820652	--	--
ANTENNA SPLITTER (SL ONLY)	--	--	--	--
ADPTR, MALE SAP TO MALE MINI-U (SLK only)	--	--	--	--
TEMPLATE, v.60 HOLDER INSTALL	SYN9440A	Q6820762	--	--
TEMPLATE, TIMEPORT HOLDER INSTALL	SYN8733A	Q6820763	--	--
FOAM "U" CHANNEL FOR PSE	--	--	--	--
FOAM "U" CHANNEL FOR PSE/SBS	--	--	--	--
MANUAL, SBS	--	--	SJN9882A	S-2765-000

Vehicle Type MY2002 v.60	SLK ROADSTER (R170)			
MBUSA/MOT. SALES MODEL#	Q6820718		Q6820576 (MY01 carryover)	
SALES MODEL TYPE	SLK (R170) VEHICLE COMPLETER KIT		OPTIONAL SBS KIT	
COMPONENT	MOTOROLA P/N	MBUSA P/N	MOTOROLA P/N	MBUSA P/N
SBS MODULE	--	--	01000131	Q6820650
INSTALL HDW, SBS OPTION	--	--	--	--
INSTALL HDW, MISC.	SYN5859A	Q6820278	--	--
CABLE, D2B OPTICAL	NONE REQUIRED-PREWIRED		SKN6117A	Q6820549
D2B CABLE CONNECTOR HOUSINGS	--	--	--	--
CABLE, PSE/COMPSTR	SKN4979A	Q6820468	--	--
CABLE, PSE/COMPSTR/D2B OPTICAL	--	--	--	--
CABLE, COAX (S203 ONLY)			--	--
BRKT, PSE	--	--	--	--
BRKT, PSE/COMPENSATOR	--	--	--	--
BRKT, ANTENNA SWITCH	--	--	--	--
BRKT, SBS MODULE	--	--	SYN8339A	Q6820548
BRKT, COMPENSATOR	SYN8338A	Q6820547	--	--
BRKT, PSE/COMPENSATOR/SBS	--	--	--	--
BRKT PSE/COMPEN/SBS/ANTSW	--	--	--	--
BRKT PSE/COMPEN/ANTSW	--	--	--	--
BRKT, PLASTIC SHIELD (SL ONLY)	--	--	--	--
BRKT, HOLDER MOUNTING	SYN9286A	Q6820764	--	--
BRKT, v.60 HOLDER MTG PLATE	--	--	--	--
BRKT, CD-CHNGR BASEPLT (SL ONLY)	--	--	--	--
FALSE BOTTOM (CLK ONLY)	--	--	--	--
PTT LEVER	--	--	SYN8054A	Q6820551
ANTENNA SWITCH (DUAL BAND)	SYN8711A	Q6820652	--	--
ANTENNA SPLITTER (SL ONLY)	--	--	--	--
ADPTR, MALE SAP TO MALE MINI-U (SLK only)	81161	Q6820274	--	--
TEMPLATE, v.60 HOLDER INSTALL	--	--	--	--
TEMPLATE, TIMEPORT HOLDER INSTALL	--	--	--	--
FOAM "U" CHANNEL FOR PSE	SYN5853B	Q6820390	--	--
FOAM "U" CHANNEL FOR PSE/SBS	--	--	SYN8159A	Q6820550
MANUAL, SBS	--	--	SJN9882A	S-2765-000

Vehicle Type MY2002 v.60	M-CLASS (W163)					
	Q6820708		Q6820769		Q6820704	
MBUSA/MOT. SALES MODEL#						
SALES MODEL TYPE	M-CLASS (W163) VEHICLE COMPLETER KIT		M-CLASS (W163) SUPPLEMENTAL V.60 COMPLETER KIT		OPTIONAL SBS KIT	
COMPONENT	MOTOROLA P/N	MBUSA P/N	MOTOROLA P/N	MBUSA P/N	MOTOROLA P/N	MBUSA P/N
SBS MODULE	--	--	--	--	01000131	Q6820650
INSTALL HDW, SBS OPTION	--	--	--	--	--	--
INSTALL HDW, MISC.	--	--	--	--	SYN9386A	Q6820705
CABLE, D2B OPTICAL	--	--	--	--	SKN4981A	Q6820466
D2B CABLE CONNECTOR HOUSINGS	--	--	--	--	--	--
CABLE, PSE/COMPSTR	--	--	--	--	--	--
CABLE, PSE/COMPSTR/D2B OPTICAL	SKN6327A	Q6820672	--	--	--	--
CABLE, COAX (S203 ONLY)	--	--	--	--	--	--
BRKT, PSE	--	--	--	--	--	--
BRKT, PSE/COMPENSATOR	--	--	--	--	--	--
BRKT, ANTENNA SWITCH	--	--	--	--	--	--
BRKT, SBS MODULE	--	--	--	--	--	--
BRKT, COMPENSATOR	SYN7986A	Q6820473	--	--	--	--
BRKT, PSE/COMPENSATOR/SBS	--	--	--	--	--	--
BRKT PSE/COMPEN/SBS/ANTSW	--	--	--	--	--	--
BRKT PSE/COMPEN/ANTSW	--	--	--	--	--	--
BRKT, PLASTIC SHIELD (SL ONLY)	--	--	--	--	--	--
BRKT, HOLDER MOUNTING	--	--	SYN9438A	Q6820726	--	--
BRKT, v.60 HOLDER MTG PLATE	--	--	--	--	--	--
BRKT, CD-CHNGR BASEPLT (SL ONLY)	--	--	--	--	--	--
FALSE BOTTOM (CLK ONLY)	--	--	--	--	--	--
PTT LEVER	--	--	--	--	01000155	Q6820706
ANTENNA SWITCH (DUAL BAND)	SYN8711A	Q6820652	--	--	--	--
ANTENNA SPLITTER (SL ONLY)	--	--	--	--	--	--
ADPTR, MALE SAP TO MALE MINI-U (SLK only)	--	--	--	--	--	--
TEMPLATE, v.60 HOLDER INSTALL	--	--	SJJN4501A	Q6820765	--	--
TEMPLATE, TIMEPORT HOLDER INSTALL	SYN9387A	Q6820703	--	--	--	--
FOAM "U" CHANNEL FOR PSE	--	--	--	--	--	--
FOAM "U" CHANNEL FOR PSE/SBS	--	--	--	--	--	--
MANUAL, SBS	--	--	--	--	SJN9882A	S-2765-000

Vehicle Type MY2002 v.60	G-Class			
MBUSA/MOT. SALES MODEL#	Q6820709		N/A	
SALES MODEL TYPE	G-CLASS VEHICLE COMPLETER KIT		OPTIONAL SBS KIT	
COMPONENT	MOTOROLA P/N	MBUSA P/N	MOTOROLA P/N	MBUSA P/N
SBS MODULE	01000131	Q6820650	SBS STANDARD	
INSTALL HDW, SBS OPTION	--	--	SBS STANDARD	
INSTALL HDW, MISC.	--	--	SBS STANDARD	
CABLE, D2B OPTICAL	--	--	SBS STANDARD	
D2B CABLE CONNECTOR HOUSINGS	SYN9388A	Q6820766	SBS STANDARD	
CABLE, PSE/COMPSTR	SKN4979A	Q6820468	SBS STANDARD	
CABLE, PSE/COMPSTR/D2B OPTICAL	--	--	SBS STANDARD	
CABLE, COAX (S203 ONLY)	--	--	SBS STANDARD	
BRKT, PSE	--	--	SBS STANDARD	
BRKT, PSE/COMPENSATOR	--	--	SBS STANDARD	
BRKT, ANTENNA SWITCH	--	--	SBS STANDARD	
BRKT, SBS MODULE	--	--	SBS STANDARD	
BRKT, COMPENSATOR	--	--	SBS STANDARD	
BRKT, PSE/COMPENSATOR/SBS	--	--	SBS STANDARD	
BRKT PSE/COMPEN/SBS/ANTSW	--	--	SBS STANDARD	
BRKT PSE/COMPEN/ANTSW	--	--	SBS STANDARD	
BRKT, PLASTIC SHIELD (SL ONLY)	--	--	SBS STANDARD	
BRKT, HOLDER MOUNTING	--	--	SBS STANDARD	
BRKT, v.60 HOLDER MTG PLATE	--	--	SBS STANDARD	
BRKT, CD-CHNGR BASEPLT (SL ONLY)	--	--	SBS STANDARD	
FALSE BOTTOM (CLK ONLY)	--	--	SBS STANDARD	
PTT LEVER	01000154	Q6820651	SBS STANDARD	
ANTENNA SWITCH (DUAL BAND)	SYN8711A	Q6820652	SBS STANDARD	
ANTENNA SPLITTER (SL ONLY)	--	--	SBS STANDARD	
ADPTR, MALE SAP TO MALE MINI-U (SLK only)	--	--	SBS STANDARD	
TEMPLATE, v.60 HOLDER INSTALL	TBD	TBD	SBS STANDARD	
TEMPLATE, TIMEPORT HOLDER INSTALL	--	--	SBS STANDARD	
FOAM "U" CHANNEL FOR PSE	--	--	SBS STANDARD	
FOAM "U" CHANNEL FOR PSE/SBS	--	--	SBS STANDARD	
MANUAL, SBS	SJN9882A	S-2765-000	SBS STANDARD	

5.5 CP Module Bill of Materials

Vehicle Type MY2003 v.60	E-CLASS SEDAN (BR211)			
MBUSA/MOT. SALES MODEL#	Q6820826		Q6820827	
SALES MODEL TYPE	E-CLASS SEDAN (BR211) VEHICLE COMPLETER KIT		OPTIONAL SBS KIT	
COMPONENT	MOTOROLA P/N	MBUSA P/N	MOTOROLA P/N	MBUSA P/N
SBS MODULE	--	--	SYN0489A	Q6820830
INSTALL HDW, SBS OPTION	--	--	SYN8138A	Q6820463
INSTALL HDW, MISC.	--	--	--	--
CABLE, D2B OPTICAL	--	--	--	--
D2B CABLE CONNECTOR HOUSINGS	--	--	--	--
CABLE, PSE/COMPSTR	SKN6366A	Q6820832	--	--
CABLE, PSE/COMPSTR/D2B OPTICAL	--	--	--	--
CABLE, COAX (S203 ONLY)	--	--	--	--
BRKT, PSE	--	--	--	--
BRKT, PSE/COMPENSATOR	--	--	--	--
BRKT, ANTENNA SWITCH	--	--	--	--
BRKT, SBS MODULE	--	--	--	--
BRKT, COMPENSATOR	--	--	--	--
BRKT, PSE/COMPENSATOR/SBS	--	--	--	--
BRKT PSE/COMPEN/SBS/ANTSW	--	--	--	--
BRKT PSE/COMPEN/ANTSW	--	--	--	--
BRKT, PLASTIC SHIELD (SL ONLY)	--	--	--	--
BRKT, HOLDER MOUNTING	--	--	--	--
BRKT, v.60 HOLDER MTG PLATE	--	--	--	--
BRKT, CD-CHNGR BASEPLT (SL ONLY)	--	--	--	--
FALSE BOTTOM (CLK ONLY)	--	--	--	--
PTT LEVER	--	--	SYN0379A	Q68200820
ANTENNA SWITCH (DUAL BAND)	--	--	--	--
ANTENNA SPLITTER (SL ONLY)	--	--	--	--
ADPTR, MALE SAP TO MALE MINI-U (SLK only)	--	--	--	--
TEMPLATE, v.60 HOLDER INSTALL	--	--	--	--
TEMPLATE, TIMEPORT HOLDER INSTALL	--	--	--	--
FOAM "U" CHANNEL FOR PSE	--	--	--	--
COMPENSATOR, UNIVERSAL FAKRA/MQS	SYN9528A	Q6820829	--	--
MANUAL, SBS	--	--	SJJN6264A	P2799-04A

Vehicle Type MY2004 v.60	S-Class Sedan (BR220)			
MBUSA/MOT. SALES MODEL#	Q6820878		N/A	
SALES MODEL TYPE	S-CLASS SEDAN (BR220) WITH VR VEHICLE COMPLETER KIT		OPTIONAL SBS KIT	
COMPONENT	MOTOROLA P/N	MBUSA P/N	MOTOROLA P/N	MBUSA P/N
SBS MODULE	SYN0814A	Q6820881	SBS STANDARD	
INSTALL HDW, SBS OPTION	--	--	SBS STANDARD	
INSTALL HDW, MISC.	SYN8013A	Q6820462	SBS STANDARD	
CABLE, D2B OPTICAL	--	--	SBS STANDARD	
D2B CABLE CONNECTOR HOUSINGS	--	--	SBS STANDARD	
CABLE, PSE/COMPSTR	--	--	SBS STANDARD	
CABLE, PSE/COMPSTR/D2B OPTICAL	--	--	SBS STANDARD	
CABLE, COAX (S203 ONLY)	--	--	SBS STANDARD	
BRKT, PSE	--	--	SBS STANDARD	
BRKT, PSE/COMPENSATOR	--	--	SBS STANDARD	
BRKT, ANTENNA SWITCH	--	--	SBS STANDARD	
BRKT, SBS MODULE	--	--	SBS STANDARD	
BRKT, COMPENSATOR	SYN7164A	Q6820427	SBS STANDARD	
BRKT, PSE/COMPENSATOR/SBS	--	--	SBS STANDARD	
BRKT PSE/COMPEN/SBS/ANTSW	--	--	SBS STANDARD	
BRKT PSE/COMPEN/ANTSW	--	--	SBS STANDARD	
BRKT, PLASTIC SHIELD (SL ONLY)	--	--	SBS STANDARD	
BRKT, HOLDER MOUNTING	--	--	SBS STANDARD	
BRKT, v.60 HOLDER MTG PLATE	--	--	SBS STANDARD	
BRKT, CD-CHNGR BASEPLT (SL ONLY)	--	--	SBS STANDARD	
FALSE BOTTOM (CLK ONLY)	--	--	SBS STANDARD	
PTT LEVER	SYN0379A	Q6820820	SBS STANDARD	
ANTENNA SWITCH (DUAL BAND)	--	--	SBS STANDARD	
ANTENNA SPLITTER (SL ONLY)	--	--	SBS STANDARD	
ADPTR, MALE SAP TO MALE MINI-U (SLK only)	--	--	SBS STANDARD	
TEMPLATE, v.60 HOLDER INSTALL	--	--	SBS STANDARD	
TEMPLATE, TIMEPORT HOLDER INSTALL	--	--	SBS STANDARD	
FOAM "U" CHANNEL FOR PSE	--	--	SBS STANDARD	
COMPENSATOR, UNIVERSAL FAKRA/MQS	SYN9528A	Q6820829	SBS STANDARD	
MANUAL, SBS	SJN5661A	P2780-04A	SBS STANDARD	

Vehicle Type MY2004 v.60	CL-Class Coupe (BR215)			
MBUSA/MOT. SALES MODEL#	Q6820879		N/A	
SALES MODEL TYPE	CL-CLASS COUPE (BR215) WITH VR VEHICLE COMPLETER KIT		OPTIONAL SBS KIT	
COMPONENT	MOTOROLA P/N	MBUSA P/N	MOTOROLA P/N	MBUSA P/N
SBS MODULE	SYN0814A	Q6820881	SBS STANDARD	
INSTALL HDW, SBS OPTION	--	--	SBS STANDARD	
INSTALL HDW, MISC.	SYN8013A	Q6820462	SBS STANDARD	
CABLE, D2B OPTICAL	--	--	SBS STANDARD	
D2B CABLE CONNECTOR HOUSINGS	--	--	SBS STANDARD	
CABLE, PSE/COMPSTR	--	--	SBS STANDARD	
CABLE, PSE/COMPSTR/D2B OPTICAL	--	--	SBS STANDARD	
CABLE, COAX (S203 ONLY)	--	--	SBS STANDARD	
BRKT, PSE	--	--	SBS STANDARD	
BRKT, PSE/COMPENSATOR	--	--	SBS STANDARD	
BRKT, ANTENNA SWITCH	--	--	SBS STANDARD	
BRKT, SBS MODULE	SYN9779A	Q6820851	SBS STANDARD	
BRKT, COMPENSATOR	SYN7978A	Q6820510	SBS STANDARD	
BRKT, PSE/COMPENSATOR/SBS	--	--	SBS STANDARD	
BRKT PSE/COMPEN/SBS/ANTSW	--	--	SBS STANDARD	
BRKT PSE/COMPEN/ANTSW	--	--	SBS STANDARD	
BRKT, PLASTIC SHIELD (SL ONLY)	--	--	SBS STANDARD	
BRKT, HOLDER MOUNTING	--	--	SBS STANDARD	
BRKT, v.60 HOLDER MTG PLATE	--	--	SBS STANDARD	
BRKT, CD-CHNGR BASEPLT (SL ONLY)	--	--	SBS STANDARD	
FALSE BOTTOM (CLK ONLY)	--	--	SBS STANDARD	
PTT LEVER	SYN0379A	Q6820820	SBS STANDARD	
ANTENNA SWITCH (DUAL BAND)	--	--	SBS STANDARD	
ANTENNA SPLITTER (SL ONLY)	--	--	SBS STANDARD	
ADPTR, MALE SAP TO MALE MINI-U (SLK only)	--	--	SBS STANDARD	
TEMPLATE, v.60 HOLDER INSTALL	SYN9424B	Q6820755	SBS STANDARD	
TEMPLATE, TIMEPORT HOLDER INSTALL	--	--	SBS STANDARD	
FOAM "U" CHANNEL FOR PSE	--	--	SBS STANDARD	
FOAM "U" CHANNEL FOR PSE/SBS	SYN9528A	Q6820829	SBS STANDARD	
MANUAL, SBS	SJN5661A	P2780-04A	SBS STANDARD	

5.6 MHI Module Bill of Materials

				"S" CLASS COMPLETER KIT
				MBUSA # Q6820917
COMPLETER KIT PARTS	MOTOROLA PART #	MBUSA#	DC PART #	V220
CONTACT PLATE	0143211X04		A 220 820 15 11	1
ANTENNA SWITCH WITH FAKRA CONNECTIONS	0143204X01		A220 827 18 42	1
550 mm RF Cable	3088722M04		N/A	1
220 UHI BRACKET	0743333X01		A 220 545 48 40	1
220 COMPENSATOR BRACKET	0704633Z01			1
CLAMPS TO FIX UHI BRACKET TO CD CHANGER	0743334X01		N/A	2
220 MOST CABLE WITH VOICE	3043460X01		N/A	1
TEMIC VOICE REQ. MODULE	0143489X01	Q6820934	A2208206285	1
PTT LEVER	5585978K06		A 000 545 08 44	1
VOICE REQ. MANUAL	6809474A29		P-2780-04A	1

UHI VEHICLE CORE KIT MBUSA #Q6820906			
COMPONENT	MOTOROLA P/N	MBUSA P/N	DC P/N
UHI MODULE	0142208z97	Q6820936	A 211 820 43 85
HARDWARE KIT	0109950J09		
DUAL BAND COMPENSATOR	0187419M01	Q6820829	

CRADLES KITS	MOTOROLA PART #s	CRADLE KIT#
Motorola V600 Cradle	0143213X01	V600 Q6820919
Vehicle Manual	68P40402Z	
Motorola V60i Cradle	0143212X01	V60i Q6820988
Vehicle Manual	68P40402Z	
Motorola V60s Cradle	0143659Z01	V60s Q6820925
Vehicle Manual	68P40402Z	
Motorola V710 Cradle	0143246X01	V710 Q6820920
Vehicle Manual	68P40402Z	

				"SL" CLASS COMPLETER KIT
				MBUSA # Q6820916
COMPLETER KIT PARTS	MOTOROLA PART #	MBUSA#	DC PART #	R230
CONTACT PLATE	0143211X02		A 230 820 05 011	1
ANTENNA SWITCH WITH FAKRA CONNECTIONS	0143204X01		A220 827 18 42	1
230 UHI BRACKET - WITH VOICE	0743335X01		A 230 545 34 40	1
230 MOST CABLE - WITH VOICE	3043462X01		N/A	1
TEMIC VOICE REQ. MODULE	0143489X01	Q6820934	A2208206285	1
PTT LEVER	5585978K06		A 000 545 08 44	1
VOICE REQ. MANUAL	6809474A29		P-2780-04A	1

UHI VEHICLE CORE KIT MBUSA #Q6820906			
COMPONENT	MOTOROLA P/N	MBUSA P/N	DC P/N
UHI MODULE	0142208z97	Q6820936	A 211 820 43 85
HARDWARE KIT	0109950J09		
DUAL BAND COMPENSATOR	0187419M01	Q6820829	

CRADLES KITS	MOTOROLA PART #'s	CRADLE KIT#
Motorola V600 Cradle	0143213X01	V600 Q6820919
Vehicle Manual	68P40402Z	
Motorola V60i Cradle	0143212X01	V60i Q6820988
Vehicle Manual	68P40402Z	
Motorola V60s Cradle	0143659Z01	V60s Q6820925
Vehicle Manual	68P40402Z	
Motorola V710 Cradle	0143246X01	V710 Q6820920
Vehicle Manual	68P40402Z	

				"CL" CLASS COMPLETER KIT
				MBUSA #Q6820918
COMPLETER KIT PARTS	MOTOROLA PART #	MBUSA#	DC PART #	C215
CONTACT PLATE	0143211X03		A 215 820 06 11	1
ANTENNA SWITCH WITH FAKRA CONNECTIONS	0143204X01		A220 827 18 42	1
550 mm RF Cable	3088722M04		N/A	1
215 UHI BRACKET	0743331X01		A 215 545 16 40	1
215 VOICE BRACKET	0743332X01		A 215 545 09 40	1
215 MOST CABLE WITH VOICE	3043460X01		N/A	1
215 COMPENSATOR BRACKET	0785903J02			1
TEMIC VOICE REQ. MODULE	0143489X01	Q6820934	A2208206285	1
PTT LEVER	5585978K06		A 000 545 08 44	1
VOICE REQ. MANUAL	6809474A29		P-2780-04A	1
CLIP TO SECURE CABLES ON MOUNTING PLATE (2 EACH KIT)	0743214X01		A 220 823 03 32	1

UHI VEHICLE CORE KIT			
MBUSA #Q6820906			
COMPONENT	MOTOROLA P/N	MBUSA P/N	DC P/N
UHI MODULE	0142208z97	Q6820936	A 211 820 43 85
HARDWARE KIT	0109950J09		
DUAL BAND COMPENSATOR	0187419M01	Q6820829	

CRADLES KITS	MOTOROLA PART #'s	CRADLE KIT#
Motorola V600 Cradle	0143213X01	V600 Q6820919
Vehicle Manual	68P4040Z	
Motorola V60i Cradle	0143212X01	V60i Q6820988
Vehicle Manual	68P4040Z	
Motorola V60s Cradle	0143659Z01	V60s Q6820925
Vehicle Manual	68P4040Z	
Motorola V710 Cradle	0143246X01	V710 Q6820920
Vehicle Manual	68P4040Z	

			"CLK" CLASS COMPLETER KITS	
			MBUSA # Q6820912	MBUSA # Q6820913
COMPLETER KIT PARTS	MOTOROLA PART #	DC PART #	C209	A209 - CABRIO
CONTACT PLATE	0143211X01	A 203 820 13 11	1	1
ANTENNA SWITCH WITH FAKRA CONNECTIONS	0143204X01	A220 827 18 42	1	1
C209 UHI BRACKET	0743329X01	A 209 545 23 40	1	
A209 CABRIO BRACKET	0743315X01	A 209 000 00 00		1
CLIP TO SECURE CABLES ON MOUNTING PLATE (2 EACH KIT)	0743214X01	A 220 823 03 32	2	2

UHI VEHICLE CORE KIT MBUSA #Q6820906			
COMPONENT	MOTOROLA P/N	MBUSA P/N	DC P/N
UHI MODULE	0142208z97	Q6820936	A 211 820 43 85
HARDWARE KIT	0109950J09		
DUAL BAND COMPENSATOR	0187419M01	Q6820829	

CRADLES KITS	MOTOROLA PART #'s	CRADLE KIT#
Motorola V600 Cradle	0143213X01	V600 Q6820919
Vehicle Manual	68P40402Z	
Motorola V60i Cradle	0143212X01	V60i Q6820988
Vehicle Manual	68P40402Z	
Motorola V60s Cradle	0143659Z01	V60s Q6820925
Vehicle Manual	68P40402Z	
Motorola V710 Cradle	0143246X01	V710 Q6820920
Vehicle Manual	68P40402Z	

			"E" CLASS COMPLETER KIT	
			MBUSA # Q6820914	MBUSA # Q6820930
COMPLETER KIT PARTS	MOTOROLA PART #	DC PART #	W211 W/O VOICE	S211 W/O VOICE
CONTACT PLATE	0143211X01	A 203 820 13 11	1	1
ANTENNA SWITCH WITH FAKRA CONNECTIONS	0143204X01	A220 827 18 42	1	1
211 MOUNTING PANEL	1543684Z01		1	1
211 UHI BRACKET	0743330X01	A 211 545 67 40	1	
211 UHI BRACKET	0743622Z01			1
211 MOST CABLE WITHOUT VOICE	3043459X01	A 211 540 6433	1	1

UHI VEHICLE CORE KIT			
MBUSA #Q6820906			
COMPONENT	MOTOROLA P/N	MBUSA P/N	DC P/N
UHI MODULE	0142208z97	Q6820936	A 211 820 43 85
HARDWARE KIT	0109950J09		
DUAL BAND COMPENSATOR	0187419M01	Q6820829	

CRADLES KITS	MOTOROLA PART #'s	CRADLE KIT#
Motorola V600 Cradle	0143213X01	V600 Q6820919
Vehicle Manual	68P40402Z	
Motorola V60i Cradle	0143212X01	V60i Q6820988
Vehicle Manual	68P40402Z	
Motorola V60s Cradle	0143659Z01	V60s Q6820925
Vehicle Manual	68P40402Z	
Motorola V710 Cradle	0143246X01	V710 Q6820920
Vehicle Manual	68P40402Z	

				"E" CLASS VOICE REQ. KIT
				MBUSA # Q6820928
COMPLETER KIT PARTS	MOTOROLA PART #	MBUSA#	DC PART #	211 VOICE KIT
TEMIC VOICE REQ. MODULE	0143463X01	Q6820929	A2408200885	1
PTT LEVER	5585978K06		A000 545 11 44	1
VOICE REQ. MANUAL?	6840418Z01/ SJJN6264A		P-2799-04A	1
211 MOST CABLE WITH VOICE	3043459X02		?	1

UHI VEHICLE CORE KIT MBUSA #Q6820906			
COMPONENT	MOTOROLA P/N	MBUSA P/N	DC P/N
UHI MODULE	0142208z97	Q6820936	A 211 820 43 85
HARDWARE KIT	0109950J09		
DUAL BAND COMPENSATOR	0187419M01	Q6820829	

CRADLES KITS	MOTOROLA PART #s	CRADLE KIT#
Motorola V600 Cradle	0143213X01	V600 Q6820919
Vehicle Manual	68P40402Z	
Motorola V60i Cradle	0143212X01	V60i Q6820988
Vehicle Manual	68P40402Z	
Motorola V60s Cradle	0143659Z01	V60s Q6820925
Vehicle Manual	68P40402Z	
Motorola V710 Cradle	0143246X01	V710 Q6820920
Vehicle Manual	68P40402Z	

			"C" CLASS COMPLETER KIT PART #'S			
			MBUSA # Q6820909	MBUSA # Q6820910	MBUSA # Q6820907	MBUSA # Q6820908
COMPLETER KIT PARTS	MOTOROLA PART #	DC PART #	CL203 WITH SOUND	CL203 WITHOUT SOUND	W203	S203
CONTACT PLATE	0143211X01	A 203 820 13 11	1	1	1	1
ANTENNA SWITCH WITH FAKRA CONNECTIONS	0143204X01	A220 827 18 42	1	1	1	1
203 - 250 mm LENGTH WITH RIGHT ANGLE FAKRA AT ONE END S203 ONLY	3088722M05	N/A				1
CL203 WITH SOUND BRACKET	0743183X01	A 203 545 74 40	1			
CL203 WITHOUT SOUND BRACKET	0743185X01	A 203 545 59 40		1		
W203 BRACKET	0743186X01	A 203 545 60 40			1	
S203 BRACKET	0743188X01	A 203 545 70 40				1
SPECIAL HARDWARE KIT FOR S203 COMPLETER KIT ONLY. CONTAINS (4) FASTENER CLIPS + (4) SCREWS	0109950J08	N/A				1
CLIP TO SECURE CABLES ON MOUNTING PLATE (2 EACH KIT)	07D43214X	A 220 823 03 32	2	2	2	2

UHI VEHICLE CORE KIT MBUSA #Q6820906			
COMPONENT	MOTOROLA P/N	MBUSA P/N	DC P/N
UHI MODULE	0142208z97	Q6820936	A 211 820 43 85
HARDWARE KIT	0109950J09		
DUAL BAND COMPENSATOR	0187419M01	Q6820829	

CRADLES KITS	MOTOROLA PART #'s	CRADLE KIT#
Motorola V600 Cradle	0143213X01	V600 Q6820919
Vehicle Manual	68P40402Z	
Motorola V60i Cradle	0143212X01	V60i Q6820988
Vehicle Manual	68P40402Z	
Motorola V60s Cradle	0143659Z01	V60s Q6820925
Vehicle Manual	68P40402Z	
Motorola V710 Cradle	0143246X01	V710 Q6820920
Vehicle Manual	68P40402Z	

			"SLK" CLASS COMPLETER KIT W/O VOICE
			MBUSA #Q6820915
COMPLETER KIT PARTS	MOTOROLA PART #	DC PART #	171 W/O VOICE
CONTACT PLATE	0143211X02	A 230 820 05 011	1
ANTENNA SWITCH WITH FAKRA CONNECTIONS	0143204X01	A 220 827 18 42	1
171 UHI BRACKET	0743327X01	A 171 545 26 40	1
171 COMPENSATOR BRACKET	0743328X01	A 171 545 02 40	1
171 MOST CABLE WITHOUT VOICE	3043458X02	N/A	1

UHI VEHICLE CORE KIT MBUSA #Q6820906			
COMPONENT	MOTOROLA P/N	MBUSA P/N	DC P/N
UHI MODULE	0142208z97	Q6820936	A 211 820 43 85
HARDWARE KIT	0109950J09		
DUAL BAND COMPENSATOR	0187419M01	Q6820829	

CRADLES KITS	MOTOROLA PART #s	CRADLE KIT#
Motorola V600 Cradle	0143213X01	V600 Q6820919
Vehicle Manual	68P40402Z	
Motorola V60i Cradle	0143212X01	V60i Q6820988
Vehicle Manual	68P40402Z	
Motorola V60s Cradle	0143659Z01	V60s Q6820925
Vehicle Manual	68P40402Z	
Motorola V710 Cradle	0143246X01	V710 Q6820920
Vehicle Manual	68P40402Z	

6.0 Conclusion

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6.1 For Additional Information

By reviewing the contents of this manual, the service technician can obtain a general understanding of the Telephone package. You may have questions about this new system that were not answered by reading this book; for this reason, other sources are available to assist you in becoming more familiar with this product.

A web site has been developed by Motorola to cover key topics of the K2OPTION package. This web page can be accessed at: <http://www.mbusaphones.com>. The web site is intended for dealer use only and is not accessible to the general public; for this reason it is password protected. Enter "**mbusa**" for the "User Name" entry, and "**safecars**" for the " Password", both entries need to be in lower case letters, and then select "OK".

Additionally, each dealership will receive materials from Motorola describing the Telephone package that can help you to become more familiar with the new system. An installation guide has been generated by Mercedes-Benz and will be a part of the installation kit. The installation guide provides detailed sketches and a step-by-step procedure for installing and programming the Telephone package.

- ~ For all feedback on the technical support manual, please fill-out 'Telephone Technical Feedback Form' and send to Area Technical Specialist or contact Motorola @ 877-668-8600.

- ~ You may also log onto the website and use the 'Contact Us' link, which will allow you to submit feedback and comments directly to Motorola's Technical Support Specialists.

6.3 Key Contacts

A Mercedes-Benz Regional Technical Support Specialist is available, through your service manager, to assist you if you encounter problems with the Telephone package after reviewing all of the material described above.

For the Motorola help line, call 877-668-8600.

Website: www.mbusaphones.com, (log in and password need to be in lower case.)

Log in: mbusa

Password: safecars

— Mercedes-Benz Telephone Manual —

The information presented in this manual is subject to change.
Additional manuals can be ordered from Service Engineering.

Produced by Motorola and Mercedes-Benz USA, LLC

Compiled by Scott Cepolski

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