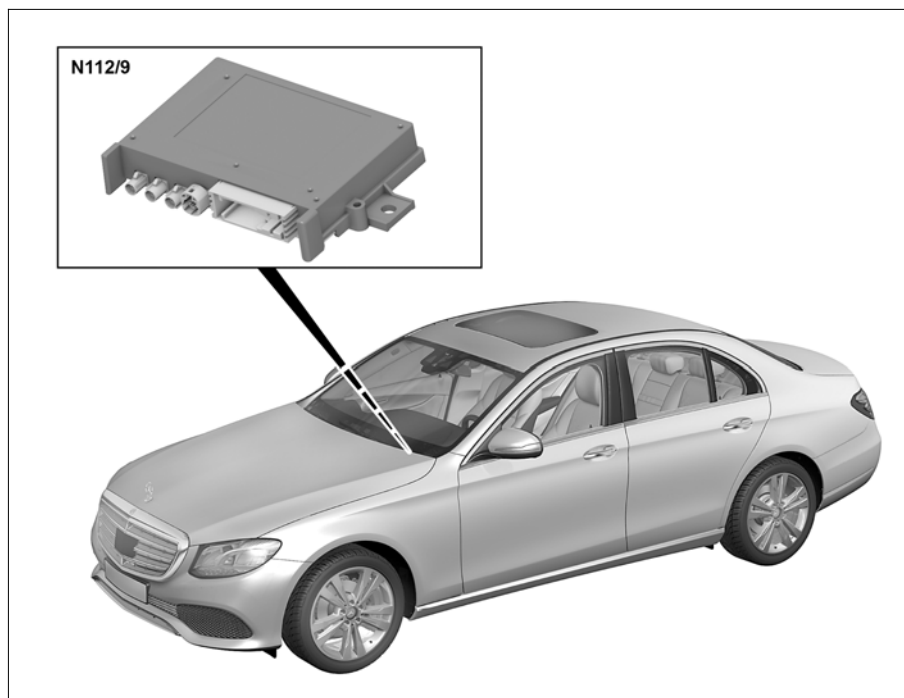


Model 213
with code 360 (HERMES UMTS)

Model 213
with code 362 (HERMES LTE)

Shown on model 213.0 with code 360
(HERMES UMTS)

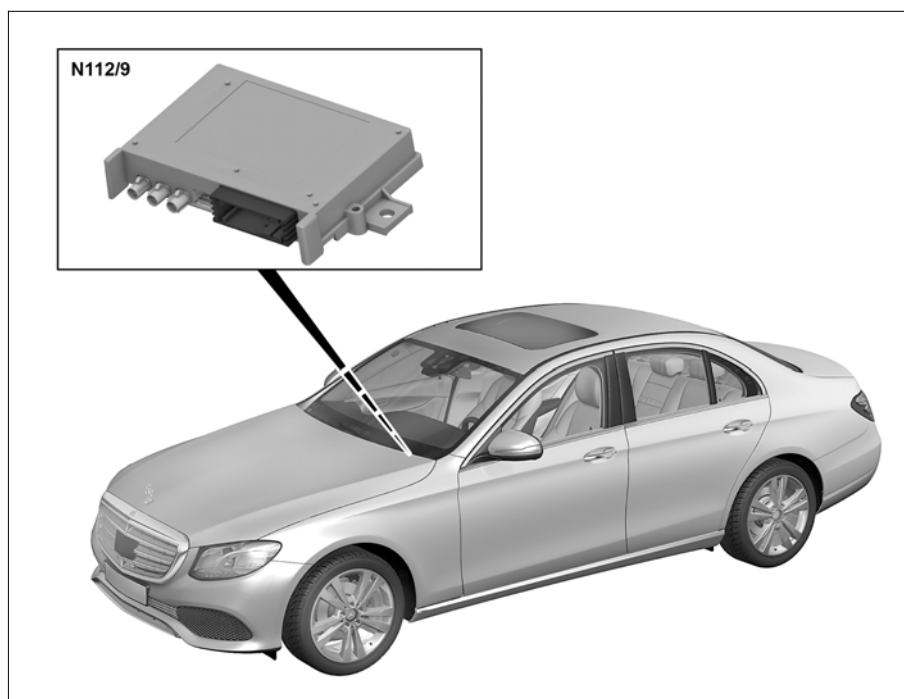
N112/9 HERMES control unit



P82.89-1992-06

Shown on model 213.0 with code 362
(HERMES LTE)

N112/9 HERMES control unit



P82.89-1993-06

Tasks

The HERMES control unit is responsible for the following tasks:

- Self-diagnosis for circuit 15 ON, secures operational readiness of emergency call system by checking the following facts:
 - Reception of cyclic readiness signal from Supplemental Restraint System (SRS) control unit (N2/10)
 - Connection for muting audio sources

Location

The HERMES control unit is located in the center console close to the head unit (A26/17).

The HERMES control unit receives, e.g. the following signals over the diagnostics CAN:

- Circuit 15 status from electronic ignition lock control unit (N73)
- Readiness signal from Supplemental Restraint System control unit
- Crash information from Supplemental Restraint System control unit (redundant)
- Status button SOS (N70s11) from the overhead control panel

- Connection to driver hands-free system microphone (B25/20) through head unit (A26/17)
- Connection to emergency call system antenna 1 (A2/140) or emergency call system antenna 2 (A2/141) (with code 362 (HERMES LTE))
- Reception of crash signals from the supplemental restraint system control unit (trigger signal for automatic emergency call)
- Set-up of voice or data connections to service provider
- For voice connections:
 - Sending a mute signal to the audio sources
 - Receiving signals from driver hands-free system microphone via head unit (input)
 - Sending audio signals to the center instrument panel speaker (H4/27) (with code 810 (Sound system), or to the center instrument panel midrange speaker (H4/78), and to the center instrument panel tweeter (H4/76) (with code 811 (Advanced sound system))
- Receiving global navigation system (GPS) signals for position finding (with code 520 (Audio 20 USB), code 522 (Radio Audio 20), and except code 355 (Preinstallation for navigation retrofit))
- Reception of position-related data from audio equipment for position finding (with code 360 (HERMES UMTS) and code 367 (Live Traffic Information))
- Forwarding of real-time traffic data from the service provider to the head unit (with code 531 (COMAND APS), code 360 (HERMES UMTS), and code 367 (Live Traffic Information))
- Communication of internet signals to the head unit (with code 522 (Radio Audio 20), code 506 (Audio 20 radio NTG 5.5), or code 531 (COMAND APS), and code 494 (USA version))
- CAN communication via diagnostics CAN (CAN D)

Structure

The HERMES control unit contains the following components:

- Internet-compatible communication module with Bluetooth® interface and radio interface for WLAN
- Position finding module

- control unit (N70)
- Status of breakdown assistance button (N70s12) and MB-Info button (N70s13) from the overhead control panel control unit
- Operation signals from control elements on the multifunction steering wheel (e. g. volume control, mute function, connection set-up or interrupt)
- Steering wheel angle from steering column tube module control unit (N80), for position finding (with code 351 (Emergency call system (HERMES)))
- Wheel speed signals, yaw rate signals from Electronic Stability Program control unit (N30/4), for position finding
- Position data from head unit, for position finding

The HERMES control unit sends, e.g. the following signals over the diagnostics CAN:

- Test signal for self-test of emergency call system
- Map data and miscellaneous data transmitted by the Service Center ("Remote Information Feed") to the audio equipment (with code 494 (USA version))
- Status signals to the instrument cluster
- Display messages for showing on the Audio/COMAND display (A40/8) to the head unit

i HERMES stands for: Hardware for Enhanced Remote, Mobility & Emergency Services.

The HERMES control unit calculates the vehicle position and if necessary, it sends a message to the service center.

The HERMES control unit is prepared to send and receive for a period of 30 days. As soon as an SMS is received, the HERMES control unit is also activated (wake-up); after 30 days the emergency call system goes into sleep mode.

- GPS receiver for position finding (date, time, history and last-known location) for the listed vehicle-related services
- Memory for vehicle-specific data
- Buffer for navigation and other data that is transmitted to the vehicle

	Wiring diagram of HERMES control unit		PE82.85-P-2107-97DBA
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