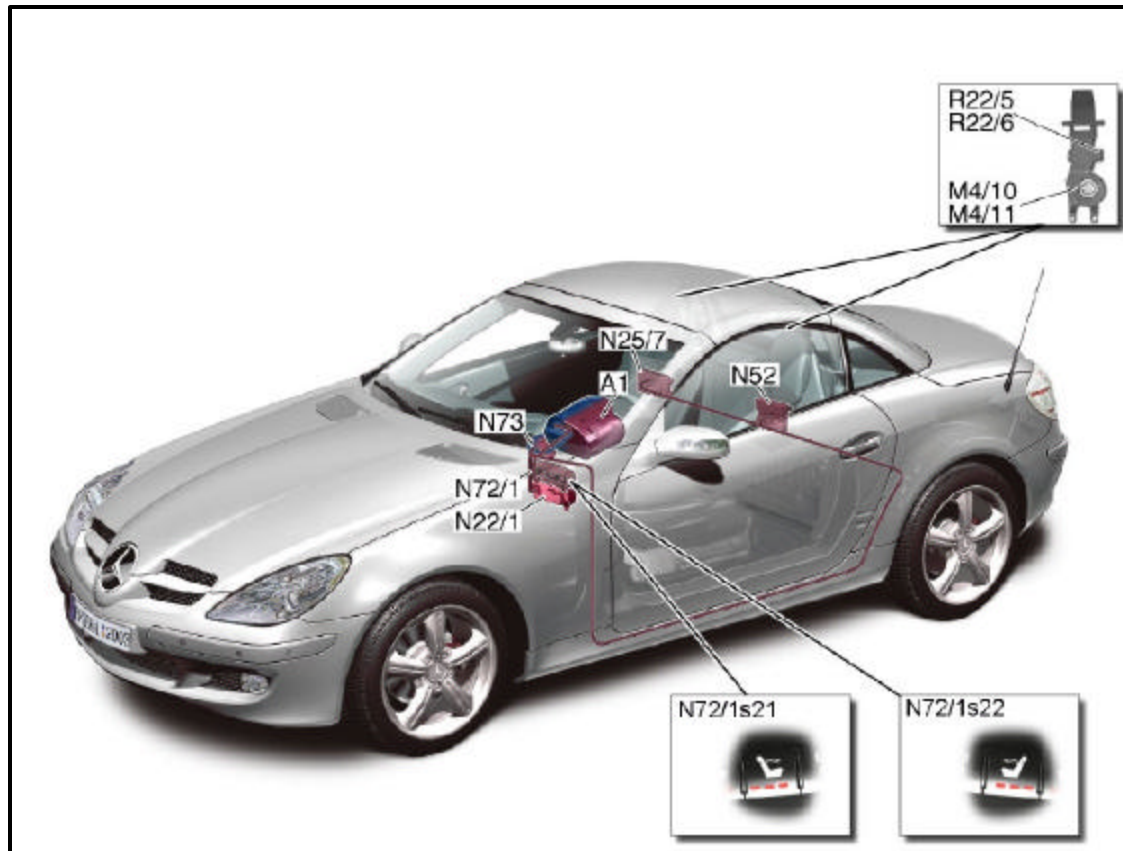


AIRSCARF Components



R22/5 R22/6 – Left, Right AIRSCARF heating element

M4/10 M4/11 – Left, Right AIRSCARF blower

N25/7 – Seat heater and ventilation control module

N22/1 – Control and operator module comfort (AAC)

N72/1 – Upper control panel

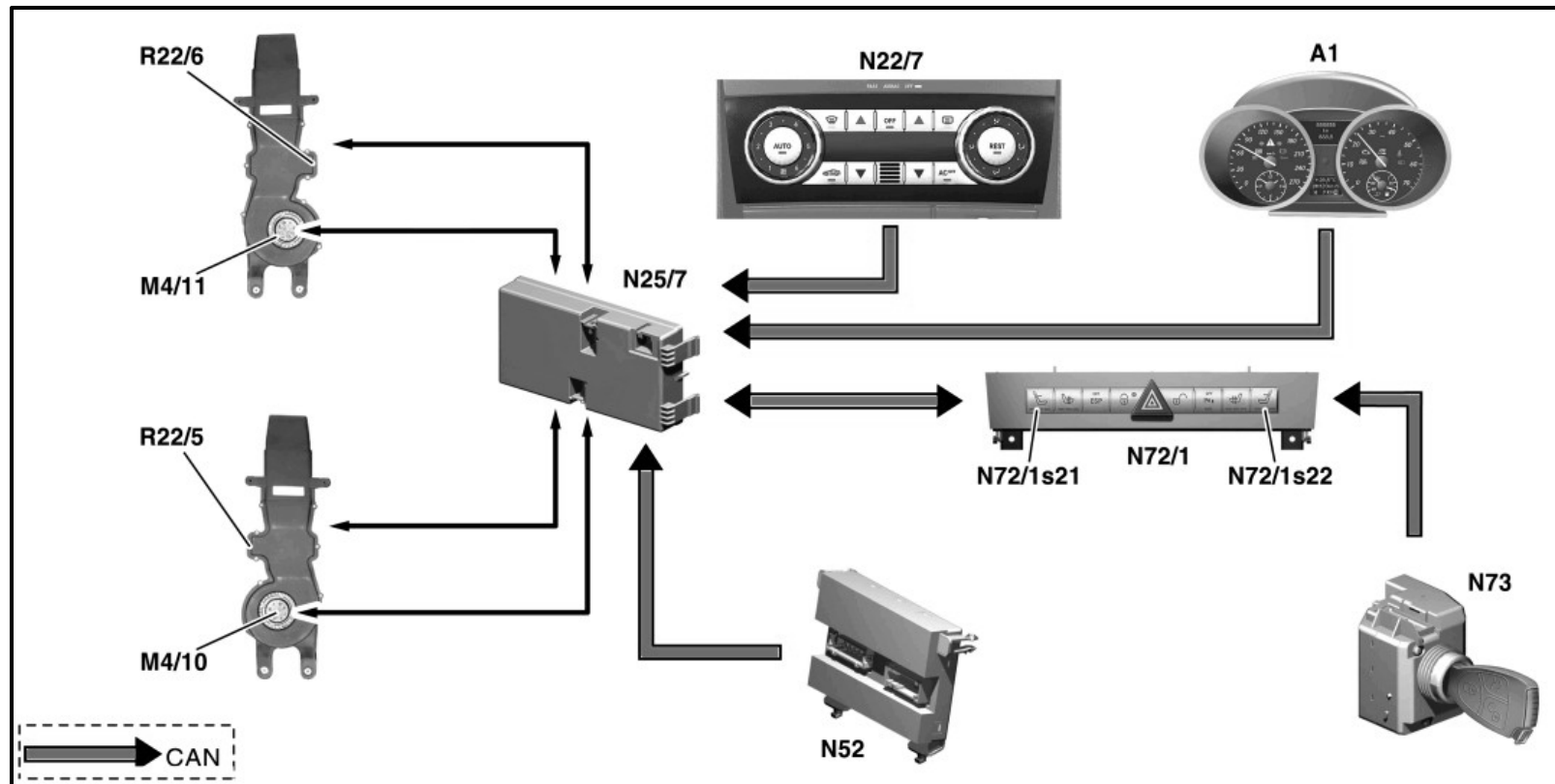
N72/1s21 N72/1s22 – Driver, passenger AIRSCARF switch

A1 – Instrument cluster

N73 – EIS

N52 – Vario roof control module

AIRSCARF Networking

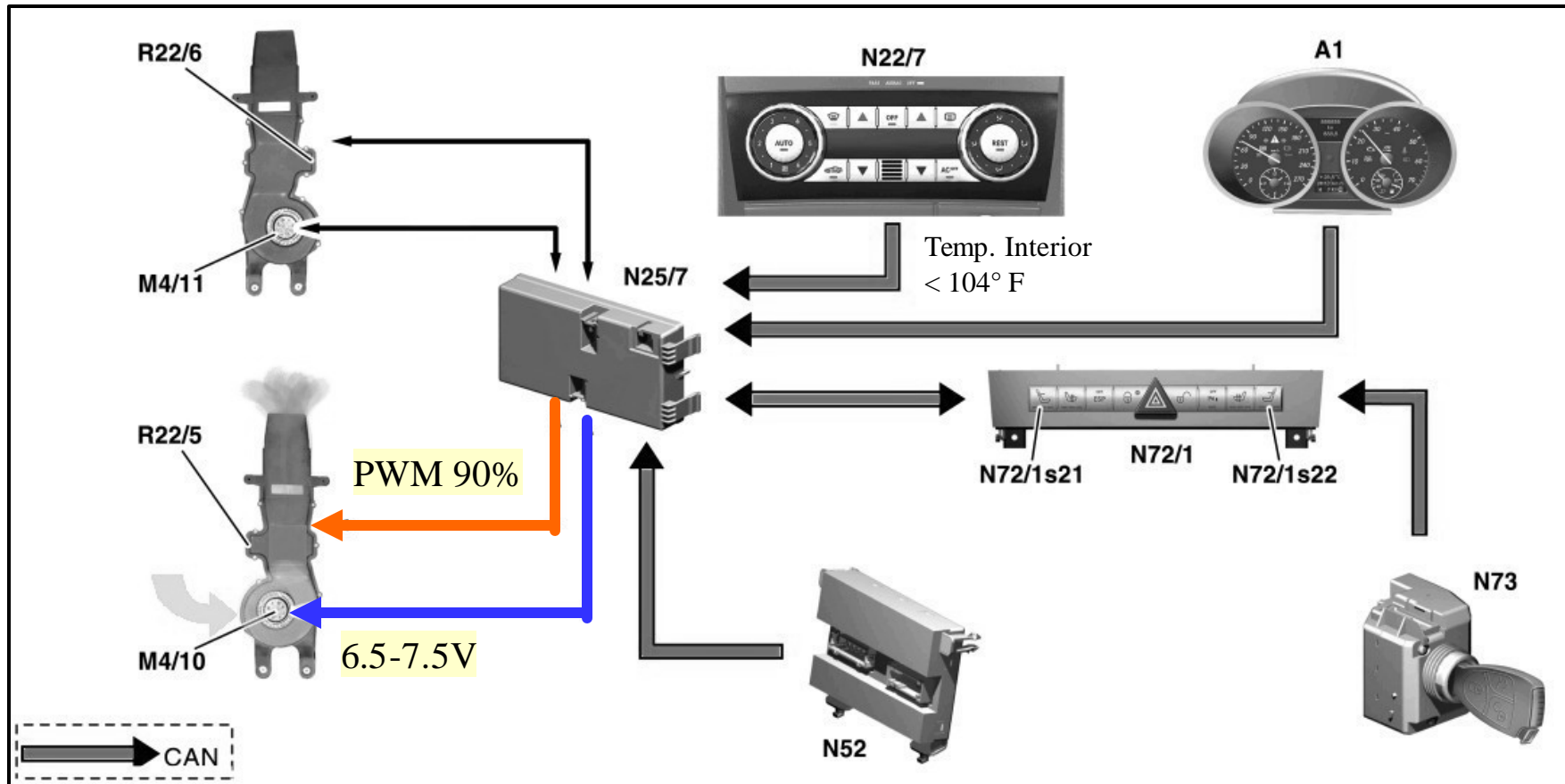


System off



- R22/5,6 – Left, Right AIRSCARF heating element
- M4/10,11 – Left, Right AIRSCARF blower
- N25/7 – Seat heater and ventilation control module
- N22/7 – Control and operator module comfort AAC (CAAC)
- N72/1 – Upper control panel
- N72/1s21,s22 – Driver, passenger AIRSCARF switch
- A1 – Instrument cluster
- N73 – EIS
- N52 – Vario roof control module

AIRSCARF Networking (High)

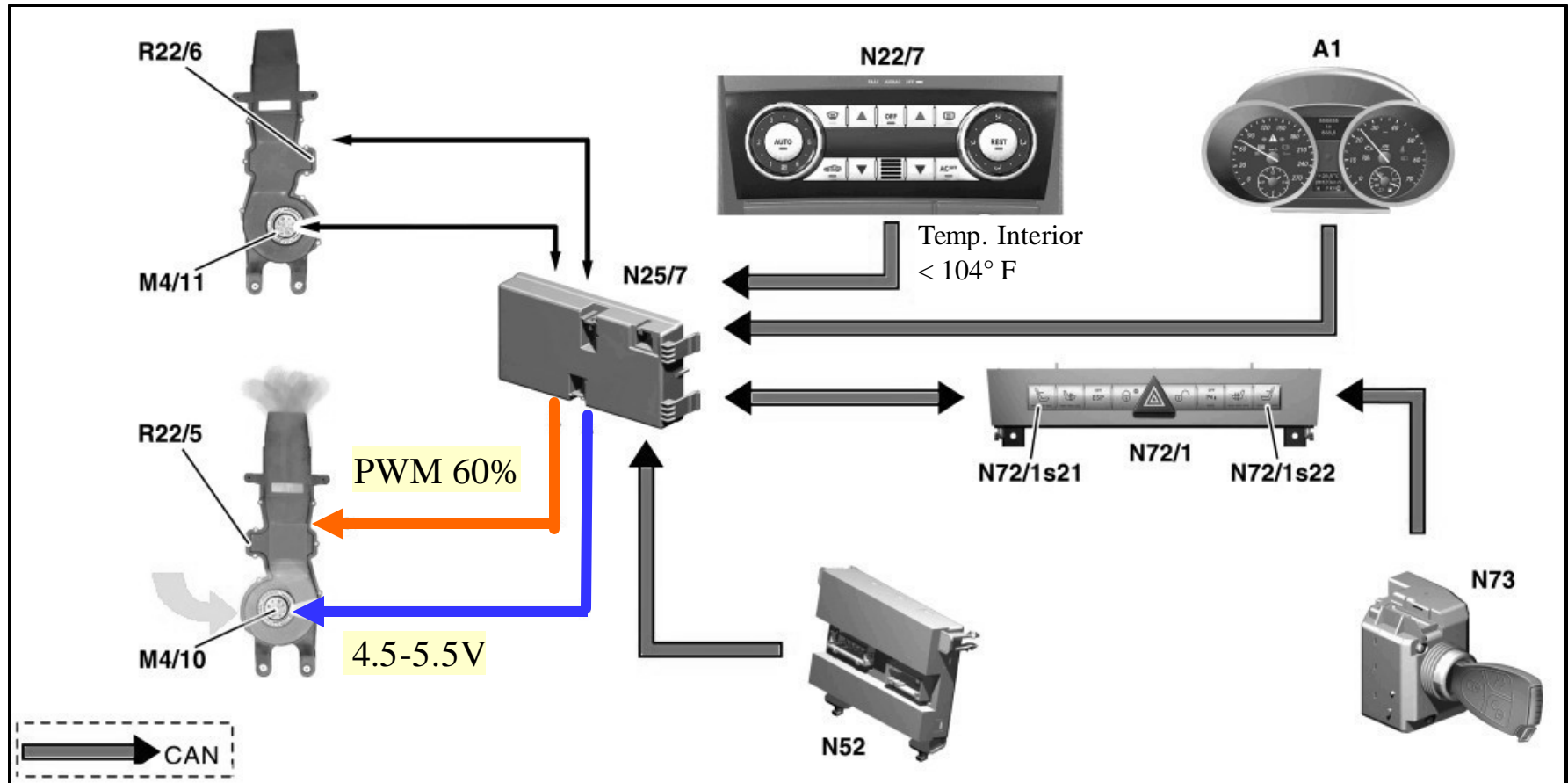


Level 3 - High



Stays on this level until button is pressed, no time out

AIRSCARF Networking (Medium)

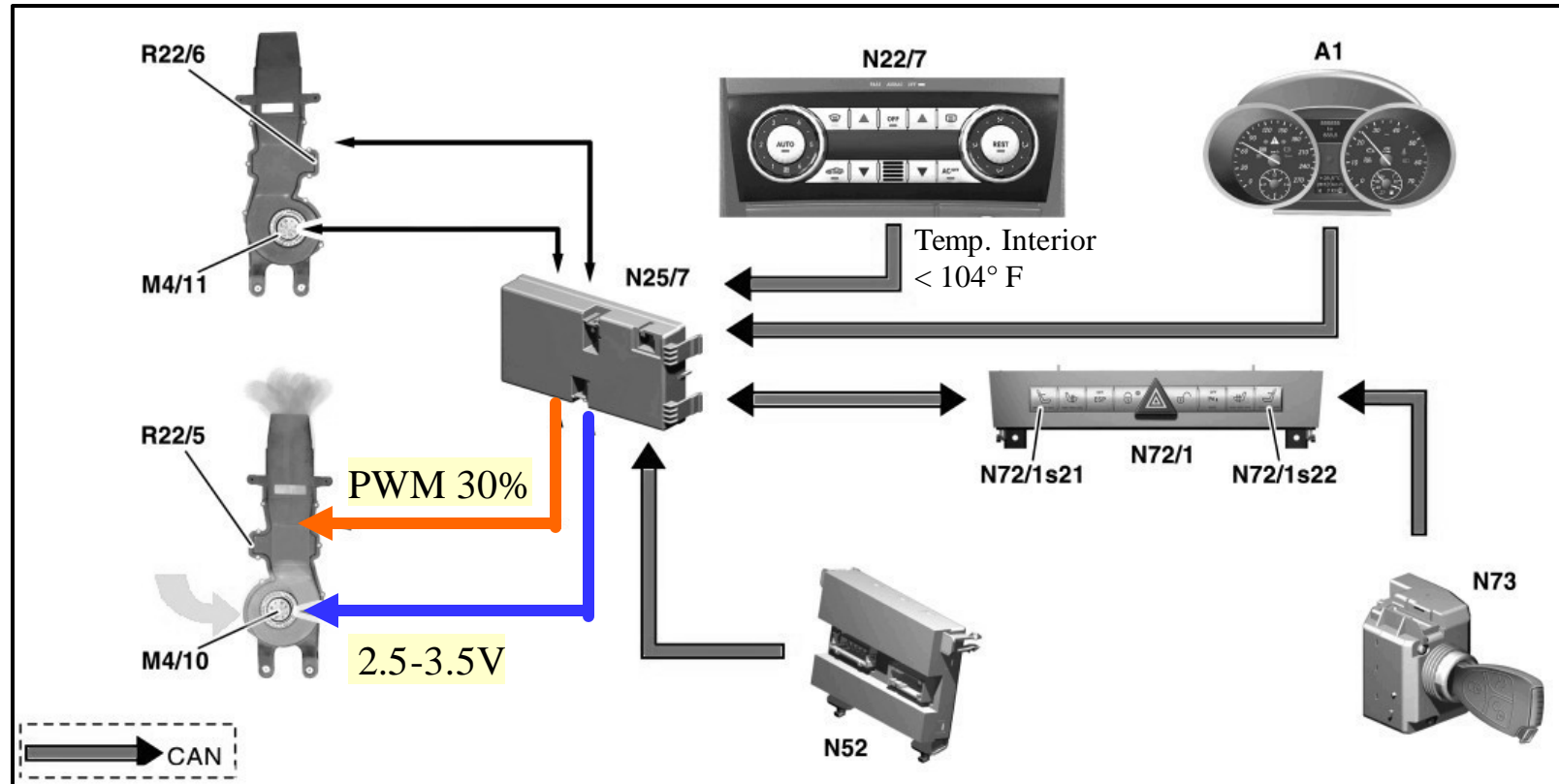


Level 2 - Medium



Stays on this level until button is pressed, no time out

AIRSCARF Networking (Low)

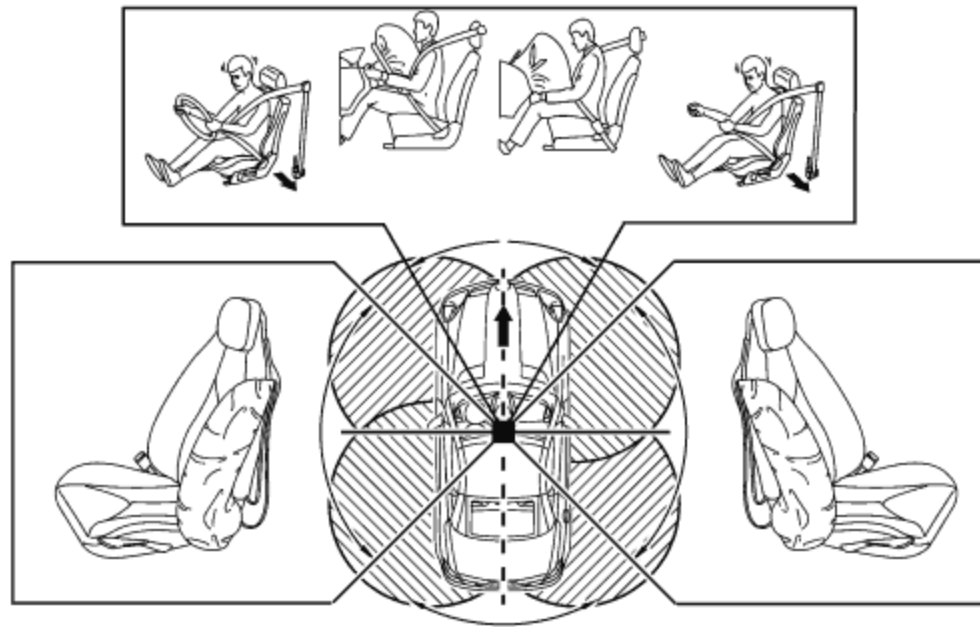


Level 1 - Low



Stays on this level until button is pressed, no time out

Supplemental Restraint System (SRS)



Supplemental Restraint System (SRS)

- SRS control unit (N2/7) located on transmission tunnel, in front of the electronic selector lever module control unit (N15/5)
- Via input from crash sensors SRS control unit determines whether the crash criteria for actuation have been reached
- Which restraint devices are enabled for the driver and passenger is dependent on the seat belt buckle switches and child seat recognition



N2/7 SRS control unit

Supplemental Restraint System (SRS)

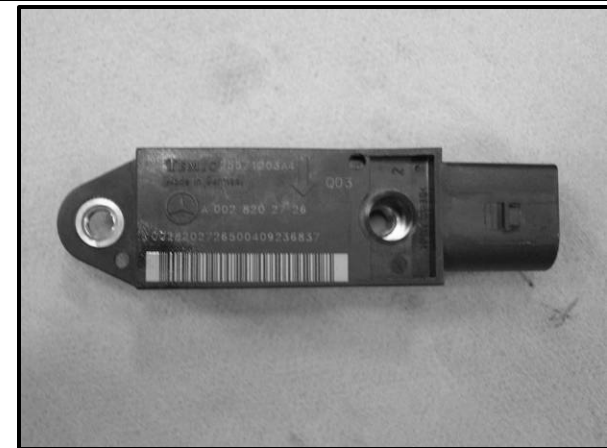
- SRS control module with maximum 12 squibs
 - Two-stage driver airbag
 - Two-stage passenger airbag
 - Head-Thorax bag (HTB) driver and passenger
 - Emergency tensioning device driver and passenger
 - Two-stage belt force limiter driver and passenger
 - Kneebag driver and passenger



SRS Sensors

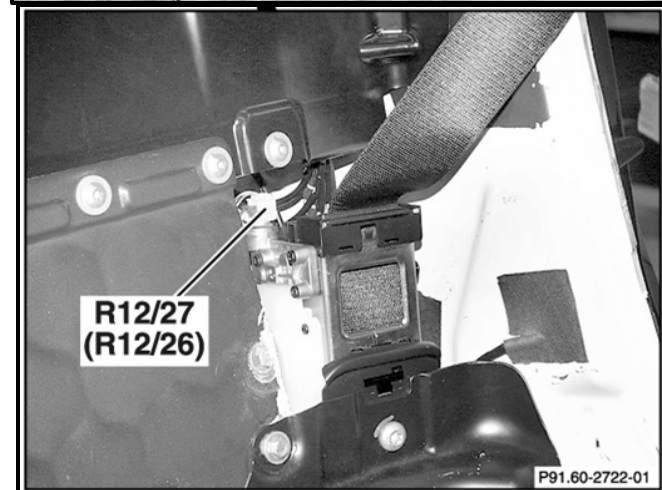
SRS sensors

- Acceleration sensor in SRS control unit
- Roll sensor in SRS control unit (N2/7)
- Passenger seat occupancy recognition and automatic child seat recognition sensor B48 as known from 170 in seat cushion
- Head-Thorax bag side impact sensors at seat cross member
- Upfront sensors under radiator cross member



Emergency Tensioning Device/Belt Force Limiter

- Emergency tensioning device (R46, R46/1)
 - Fitted to seat frame to reduce slack in seat belt
- Belt force limiter (R12/26, R12/27)
 - 1st stage belt force limiter - Ignition squib not deployed
 - 2nd stage belt force limiter - Ignition squib deployed
 - 2nd stage belt force limiter activated in certain severe frontal crashes
 - Can reduce high seat belt forces acting on occupants
 - Only employed if seat belt is latched

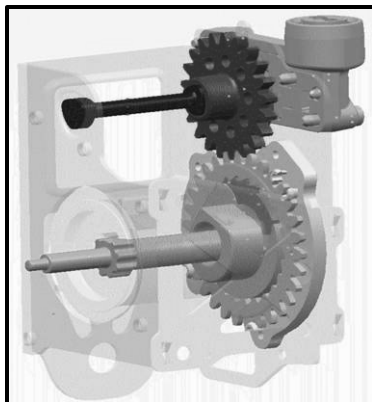


2 – Stage Belt Force Limiter

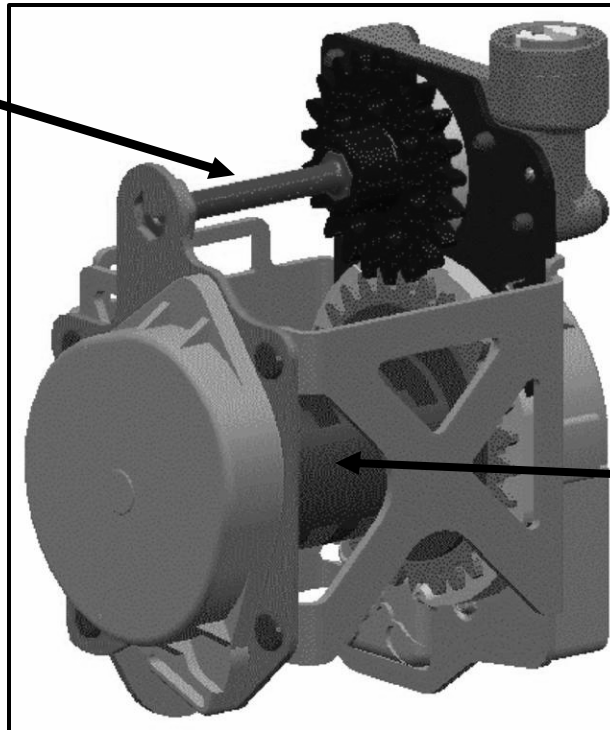
Secondary Torsion Bar

Ignition Squib

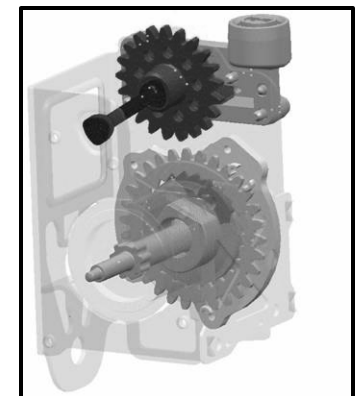
Primary Torsion Bar (in reel)



1st Stage

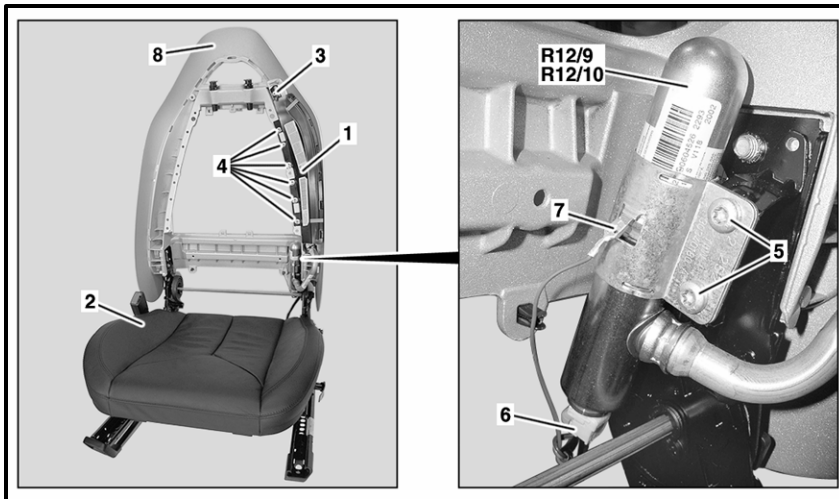


2nd Stage (deployed)



Head Thorax Bag

- Head Thorax Bag
 - Takes over function of sidebag and windowbag
 - Deploys between backrest cushion and magnesium frame
 - Plastic pins hold cushion to frame prior to deployment



R12/9 – Driver sidebag squib
R12/10 – Passenger sidebag squib



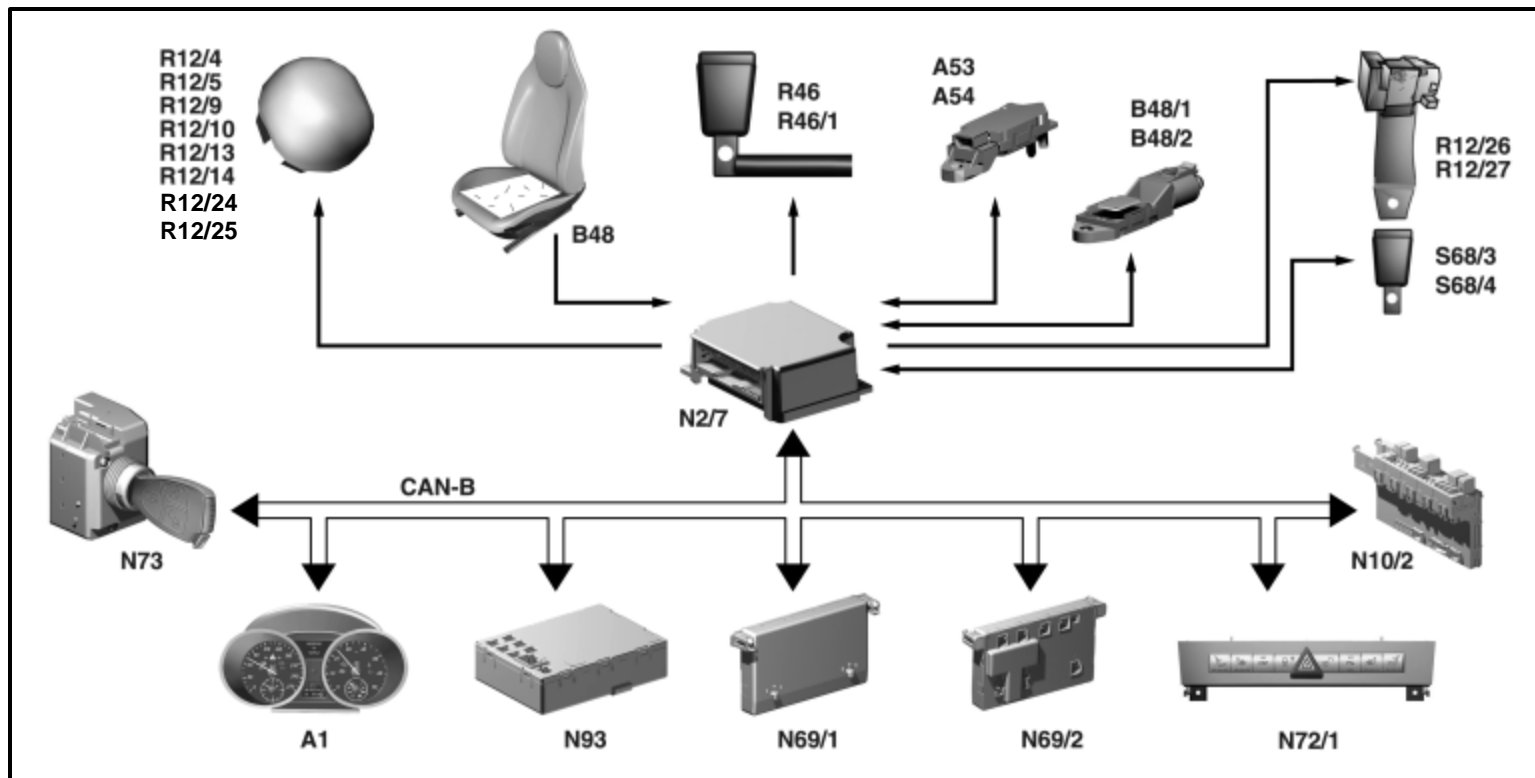
Kneebag

- Kneebag (R12/24, R12/25)
 - Standard equipment for both driver and passenger side
 - Provide additional protection in a frontal crash
 - Triggered in conjunction with front airbags



Location: Attached to inside of lower instrument panel driver and passenger side

SRS Networking



A1 Instrument cluster
A53 Left side airbag sensor
A54 Right side airbag sensor
B48 Front passenger seat occupied and child seat recognition sensor
B48/1 Driver-side frontal acceleration sensor
B48/2 Passenger-side frontal acceleration sensor
N2/7 Restraint systems control unit
N10/2 Rear SAM control unit with fuse and relay module N69/1 Left door control unit
N69/2 Right door control unit
N72/1 Upper control panel control unit
N73 DI control unit
N93 Central gateway control unit
R12/4 Passenger airbag squib 1
R12/5 Passenger airbag squib 2
R12/9 Driver sidebag squib
R12/10 Front passenger sidebag squib
R12/13 Driver airbag squib 1
R12/14 Driver airbag squib 2 R12/26 Front passenger belt force limiter
R12/24 Front passenger kneebag squib
R12/25 Driver kneebag squib
R12/27 Driver belt force limiter
R46 Driver buckle ETR squib
R46/1 Front passenger buckle ETR squib
S68/3 Driver seat belt buckle restraint systems switch
S68/4 Front passenger seat belt buckle restraint systems switch

Questions?