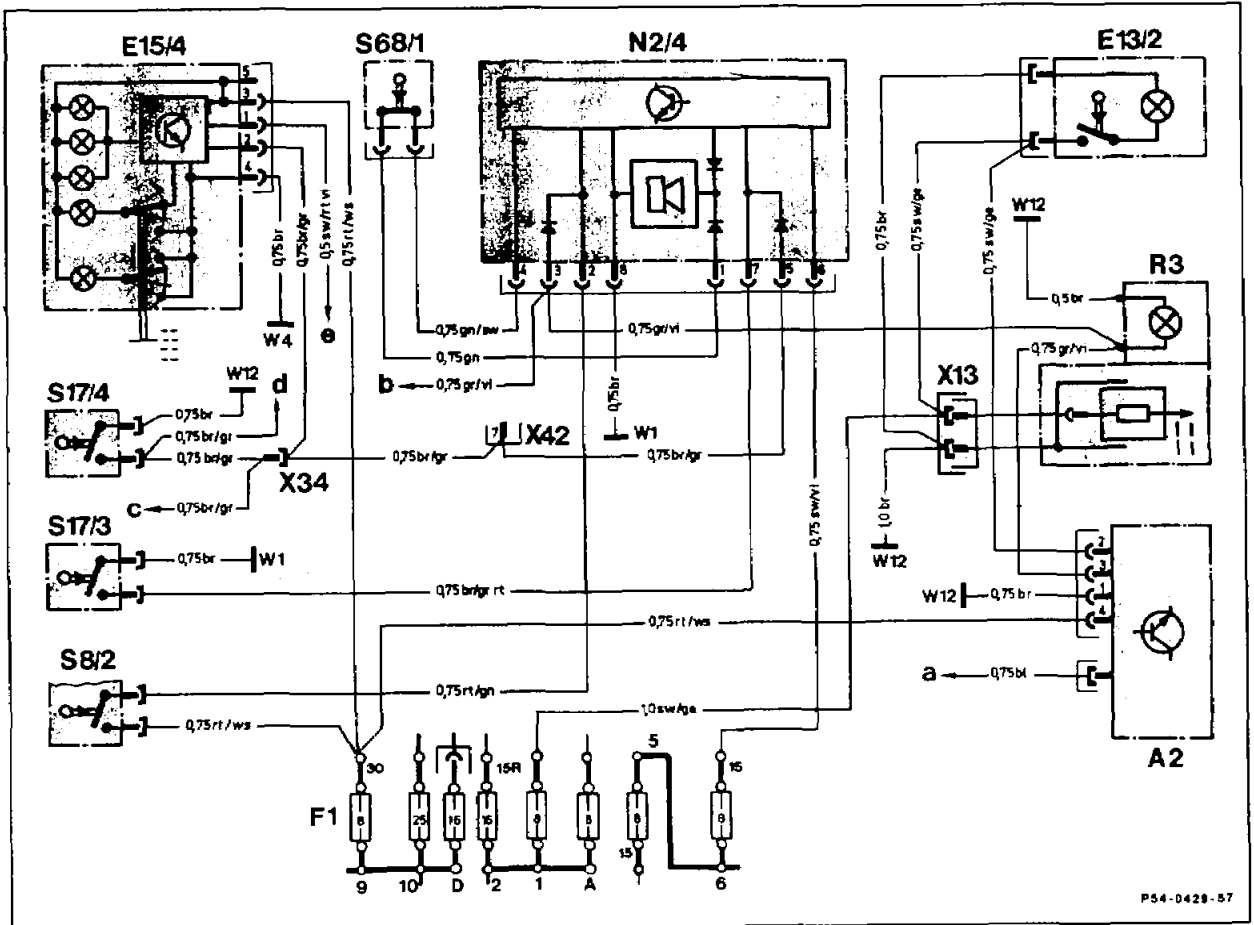


54-2312 Seat belt warning control unit (USA)/seat belt and road speed warning control unit (SA)

Operation no. of operation texts and work units or standard texts and flat rates:

A. Function of seat belt warning control unit N2/4 (USA)




Wiring diagram of seat belt reminder with warning buzzer (USA)

A2	Radio	W12	Ground, center console
E13/2	Glovebox lamp with switch	X13	Plug connection, cigar lighter
E15/4	Dome lamp with reading lamp and seat belt reminder	X34	Intermediate plug connection, right front door contact switch
F1	Fuse and relay box	X42	Plug connection, front/rear anti-theft warning system
N2/4	Seat belt reminder control unit (USA)	a	To illuminated automatic antenna switch S61/1
R3	Cigar lighter with front ashtray illumination	b	To 15-pin instrument cluster connector, contact 13
S8/2	Warning buzzer contact lighting/central locking system	c	To front right entrance/exit lamp E17/4
S17/3	Left front door contact switch	d	To front left entrance/exit lamp E17/3
S17/4	Right front door contact switch	e	To terminal block X6, terminal 58d (2-pin)
S68/1	Driver seat belt buckle switch (seat belt reminder)		
W1	Main ground (behind instrument cluster)		
W4	Ground, front dome lamp		

The reminder device performs **3 functions**:

- 1 Reminder when seat belt not fastened.
- 2 Reminder when ignition key not removed.
- 3 Reminder when light not switched off.

### **Description of operation**

1 If the driver does not fasten his seat belt when the ignition is switched on and the driver's door is closed (left door contact switch S17/3 open), the reminder buzzer sounds for 4–8 seconds. Positive voltage is applied by the electronics of the seat belt reminder control unit  (N2/4) from terminal 4 through the closed seat belt switch (terminal 1 of control unit) to the warning buzzer in the control unit.

When the seat belt is fastened, the seat belt switch interrupts the circuit and the seat belt reminder buzzer is switched off.

### **Seat belt reminder lamp**

A seat belt reminder lamp is installed as a reminder to fasten seat belts. It flashes irrespective of whether the seat belt is fastened. The seat belt reminder lamp is controlled by the door contact switches and the electronic time delay of the dome lamp. When the front door is open, the seat belt reminder lamp flashes constantly; if the dome lamp switch is in position "0", the seat belt reminder lamp flashes only if the ignition is switched on (key in position 2).

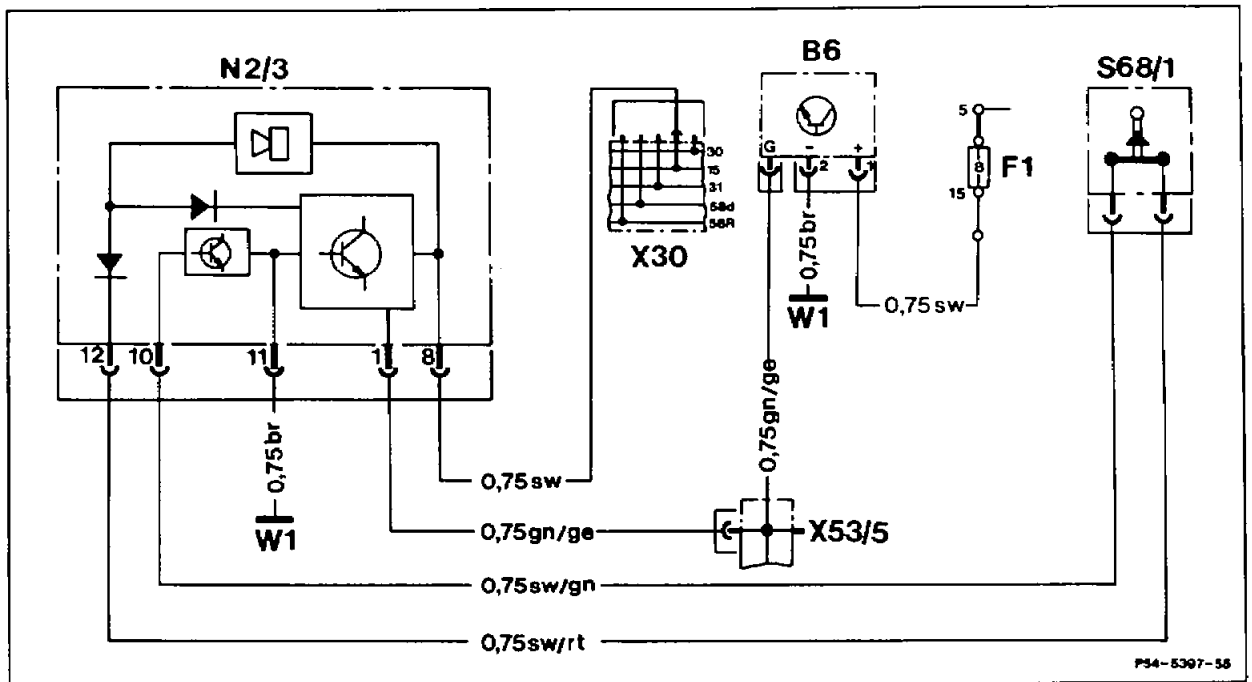
When the front door is closed, the seat belt reminder lamp flashes for  $12 \pm 1$  seconds. This time is reduced to  $6 \pm 1$  seconds if the ignition is switched (key in position 2). If the ignition is switched on again after this time (key in position 2), the seat belt reminder lamp flashes once again for  $6 \pm 1$  seconds.

2 If the driver's door is opened (left door contact switch S17/3 closed), and the ignition key is not withdrawn, the electronic control applies a positive voltage through the closed warning buzzer contact at the ignition lock, terminal 2 at the control unit, to activate the reminder buzzer. The reminder buzzer is switched off by withdrawing the ignition key or after 4–8 seconds.

3 The reminder buzzer is likewise activated if high beam, low beam or parking light is left on when the ignition is switched off (key in position 0) and the driver's door is opened.

The reminder buzzer is activated by terminal K at the exterior light switch through contact 16 at the lamp monitoring unit to contact 13 of the 15-pin connector of the instrument cluster to terminal 3 of the seat belt reminder control unit. When the driver's door is opened, the electronic control applies a negative voltage through the left closed door contact switch (S17/3) to activate the reminder buzzer.

## B. Function of seat belt and road speed warning control unit N2/3 SA



Wiring diagram of seat belt and road speed warning system

B6	Hall sensor, road speed	S68/1	Driver seat belt buckle switch (seat belt reminder)
F1	Fuse and relay box	W1	Main ground (behind instrument cluster)
N2/3	Seat belt and road speed warning system control unit	X30	Plug connection, optional equipment block
		X53/5	Multiple pin connection/Hall sensor

Road speed warning system .....	is controlled by the speedometer.
Warning buzzer .....	sounds as soon as road speed exceeds 120 km/h. This signal is maintained so long as the car is driven at a speed in excess of 120 km/h.
Seat belt reminder system .....	integrated in the same control unit (N2/3) as road speed warning system.
Warning buzzer .....	sounds for about 13 seconds if seat belt not fastened (key in position 2).
Seat belt .....	fastened, warning buzzer stops.