

Owner's  
Manual

300 TD

Mercedes-Benz

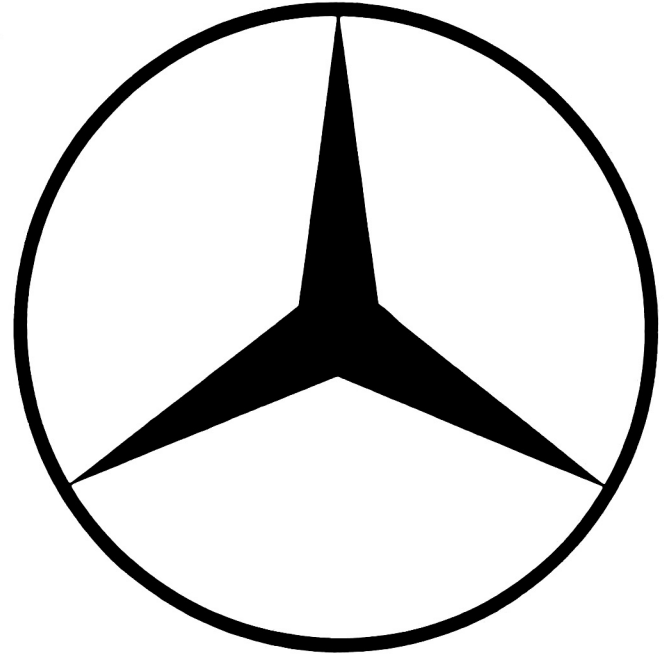


1979

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Manual

300 TD

Mercedes-Benz



Type 123 T

1979



You have chosen to drive a MERCEDES-BENZ, a car in whose construction and production we have taken great pains because we believe that quality is not a matter of chance.

Perhaps you have already had experience with a MERCEDES, maybe this is your first car from the DAIMLER-BENZ company.

In both cases — for your own benefit — please read this owner's manual before putting it away. Even though you have been driving a car for years, some things in this car may be new to you, and this manual certainly contains a few hints which will help you to make the most of your new car.

We wish you safe and pleasant motoring.

DAIMLER-BENZ Aktiengesellschaft

## Contents

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*This Owner's Manual also describes optional extras as far as an introduction on their handling is required. As these extras need to be ordered separately, the equipment of your vehicle may deviate from the descriptions and illustrations to some extent.*

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What you should know at the gas station

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**Vehicle Operation** ▶

**Driving** ▶

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**Technical Data — Fuels, Coolants, Lubricants, etc.** ▶



# Vehicle Operation

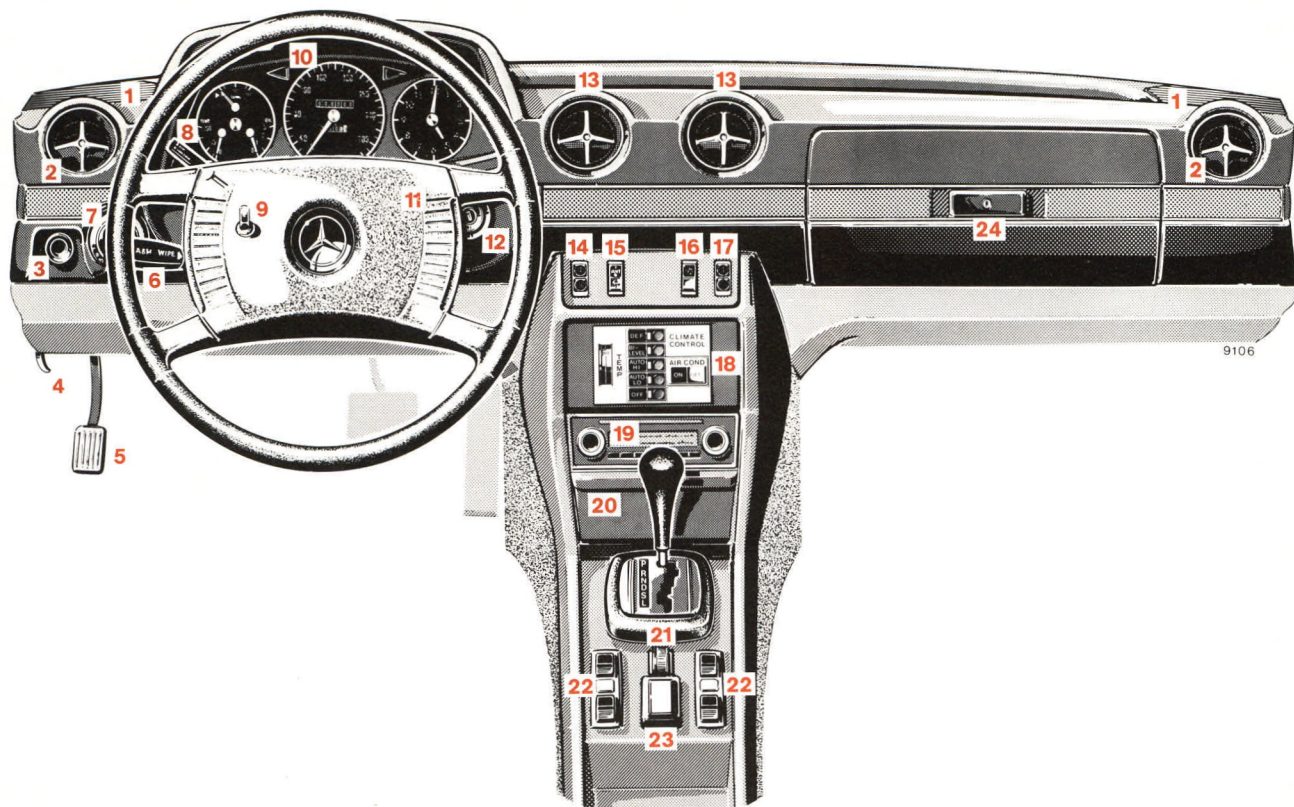


## Instruments and Controls

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*For more detailed descriptions see quoted pages.*

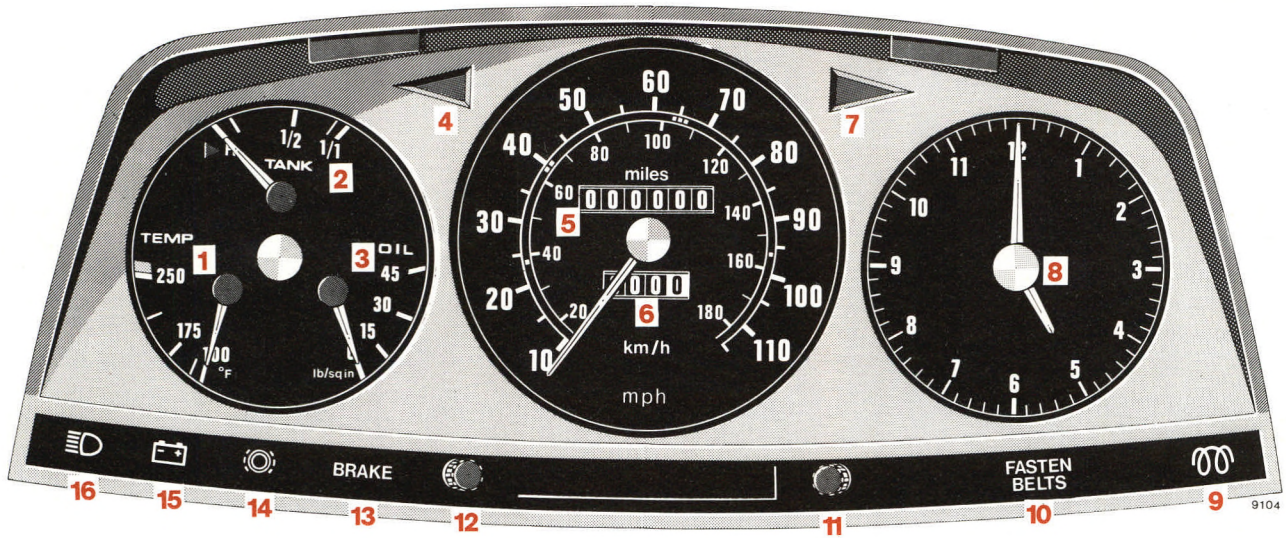
- 1 Speaker grilles
- 2 Swivelling side ventilation outlets (page 27)
- 3 Parking brake release knob (page 42)
- 4 Hood lock release handle (page 40)
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- 12 Steering lock (page 22)  
Steering lock with preglow/starter switch
- 13 Swivelling outlets for cooled air (page 27)
- 14 Switch for rear passenger compartment lamp (page 30)
- 15 Switch for automatic antenna (page 37)
- 16 Switch for heated rear window (page 32)
- 17 Switch for rear window wiper (page 25)
- 18 Automatic climate control (page 27)
- 19 Radio (page 35)
- 20 Ash tray with electric lighter (page 32, 60)
- 21 Speaker — fader control (page 36)
- 22 Switch group for window lifters (page 33)
- 23 Hazard warning flasher switch  
Push switch = hazard warning flasher system switched on  
Push switch once more = hazard warning flasher system switched off
- 24 Glove compartment, illuminated (only if steering lock is in position “1” or “2”)  
To open, move handle sideways

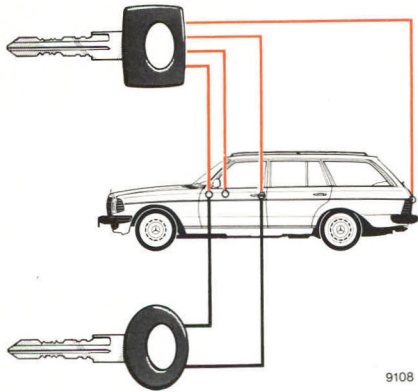


## Instrument Cluster

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- 1** Coolant temperature gauge (° F)  
Up to red marking: Maximum permissible temperature for an antifreeze-blended fill protecting down to -22° F (-30° C)
- 2** Fuel gauge with reserve warning lamp (red)  
Fuel reserve for approx. 35 miles (55 km)  
For capacity, refer to page 82 and last page
- 3** Oil pressure gauge
- 4** Turn signal indicator lamp, left (green)
- 5** Main odometer
- 6** Trip odometer
- 7** Turn signal indicator lamp, right (green)
- 8** Electric clock
- 9** Preglowing indicator lamp (orange)
- 10** Seat belt warning lamp (red)
- 11** Knob for clock adjustment  
(press in for adjustments)
- 12** Knob for instrument lamps and trip odometer  
Rotate knob: instrument lamps are infinitely variable  
Depress knob: trip odometer is turned back
- 13** Brake warning lamp (red) comes on if
  - the parking brake is engaged
  - too little brake fluid is in the reservoir
- 14** Brake pad wear indicator lamp (red):  
Lamp comes on while braking and driving if the front wheel brake pads are worn down.  
Refer to page 48
- 15** Charge indicator lamp (red):  
Comes on when the steering lock key is moved to driving position "2" and must go out when the engine is idling
- 16** High beam indicator lamp (blue)

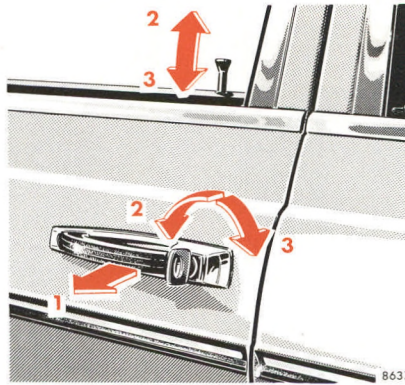




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**Master Key** — square-headed — fits all locks on the car.

**Supplementary Key** — rounded head — fits only the door locks and the steering lock. This key is intended to be used whenever the car is left with an attendant. Be sure to lock glove compartment and tailgate with the master key.



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### Opening the Doors

#### Side door

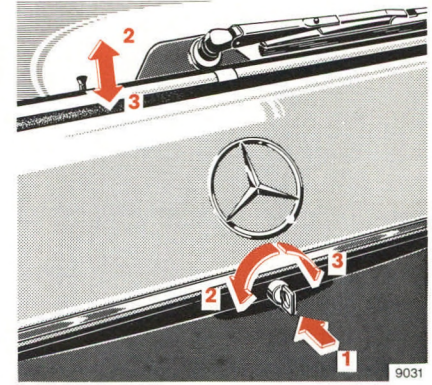
From outside: pull handle (1).  
From inside: pull handle in door trim panel.

#### Tailgate

From outside: push button (1).  
From inside: pull handle in door trim panel.

### Locking and Unlocking of Doors

From the outside: turn key.  
From the inside: actuate safety plunger.



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- 2 Unlocking
- 3 Locking

The rear doors and the tailgate cannot be opened from the outside or the inside when the plungers are pushed down. They can be opened after pulling plungers up.

One cannot lock:

- the driver's door if it is open
- any door if the door lock has not engaged fully. In this case open the door and close it again.

### **Tailgate**

Only drive with the tailgate closed as otherwise exhaust fumes may enter the vehicle interior.

The rear license plate can be seen correctly only when the tailgate is closed.

To close the tailgate, take hold of grabstrip and press down.

The rear compartment light will be switched off by the contact switch only if the tailgate is fully closed.

Note:

Lock tailgate prior to washing the vehicle in an automatic car wash. The washing brush could otherwise cause it to open.

### Master Lock System

The master lock system will lock or unlock the vehicle doors and the tank filler flap whenever the driver's door is locked or unlocked.

As the driver's door plunger is moved, the plungers of all other doors must move at the same time. If this is not the case, the lock of the corresponding door has not engaged fully. Open the door once more and close it correctly.

With the master lock system engaged the safety plungers of the front passenger door, the rear doors and the tailgate can also be actuated manually. The front passenger door and the tailgate can in addition be locked and unlocked with the key.

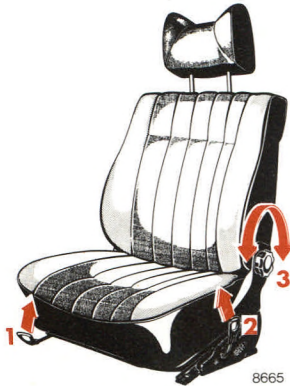
The master lock system can only be applied by depressing the plunger on the driver's door. Lock plungers of the other doors cannot be depressed individually.

The master lock system operates on vacuum generated by the engine. A reservoir allows the master lock system to be actuated about five times after the engine is turned off. If the system can then no longer be engaged, idle engine for a short period.

If no vacuum is available, doors and tailgate have to be locked individually in the normal manner. The fuel tank filler flap, however, remains unlocked.

#### Note:

If the filler flap cannot be opened when the master lock system is unlocked, refer to "Unlocking of the Filler Flap" (page 75).



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### Adjustment of Driver's Seat and Front Passenger Seat

Forward and backward adjustment: lift handle (1); slide seat to desired position and allow handle to reengage.

Height of seat: raise lever (2); to raise seat, move seat forward; to lower seat, move seat backward; allow lever to reengage.

Seat back position: turn handwheel (3) forward or backward. For full reclining of backrest, seat should be moved to one of the forwardmost positions and headrest removed. For

driving, return backrest to upright position and push seat back. Replace headrest.

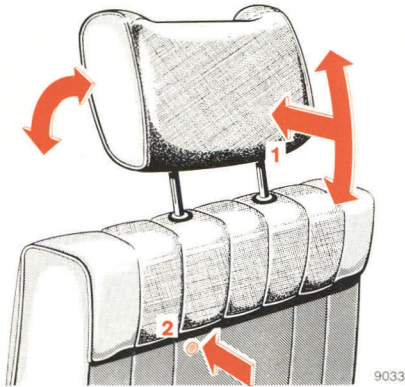
#### Note:

Prior to operating the vehicle, the driver should adjust the seat height for proper vision as well as fore-aft placement and seat back angle to insure adequate control, reach, operation, and comfort. The headrest should also be adjusted for proper height so that when the cushion is tipped completely forward, it should form a

cradle behind the seat occupant's head. Both the inside and outside rear view mirrors should then be adjusted for adequate rearward vision. Fasten seat belts. Children under the age of six or under the weight of 50 lbs. (23 kg) should be seated in the back seat with an approved restraint system properly secured. All seat, headrest, and rear view mirror adjustments as well as fastening of seat belts should be accomplished before the vehicle is put into motion.



## Seats



### Safety Headrest

Adjust headrest to support the back of the head at the level of the upper end of the ear. Rear seat headrests can only be adjusted in height.

### Height adjustment:

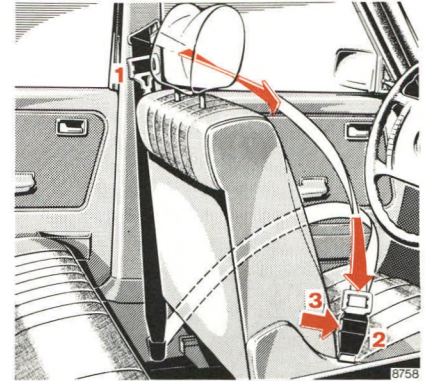
Press headrest slightly forward (1) and reset upward or downward.

### Detaching front seat headrests:

Pull headrests up to the stop. Release arrester by depressing locking knob (2) to be felt under the backrest covering material below the LH headrest post and pull up headrest holding it by the LH headrest post (viewed in driving direction). Finally pull out headrest with both hands.

### Detaching rear seat headrests:

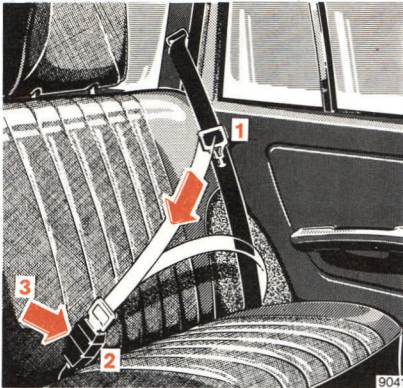
Insert screwdriver into hole located in rear panel of backrest below the LH headrest post (viewed in driving direction), push in, press headrest slightly forward (1) and pull out.



### Safety Belts

#### Warning system:

The indicator marked "FASTEN SEAT BELTS" is illuminated for 4—8 seconds after turning the steering lock key to position "2". If the safety belt of the driver's seat is not fastened a warning buzzer sounds simultaneously.

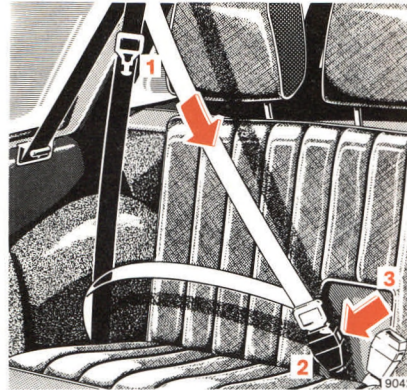


**Fastening of front and rear outer seat belts (with inertia reel):**

- Pull belt with tongue (1) across shoulder and lap. The belt must not be twisted and must be tight.
- Press tongue (1) into buckle (2) and allow to engage audibly.

**Unfastening, front and rear:**

- Depress red button «PRESS» (3) in buckle (2).
- Return tongue (1) to initial position.



**Fastening of rear center belt (without inertia reel):**

- Pull belt across the lap. It must not be twisted and must be tight.
- Press tongue into buckle and allow to engage audibly.

**Adjustment of rear center seat belt:**

To lengthen, turn belt buckle (on LH side of belt) to be at right angles to the belt and pull the tongue.  
To shorten, pull loose end of belt.

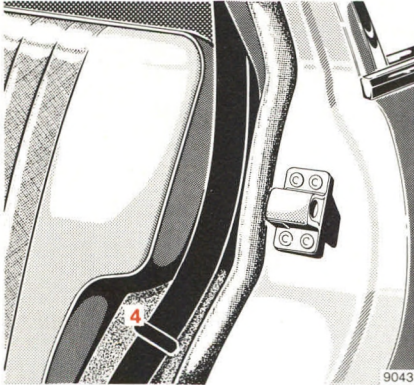
**Operation of belts with inertia reel:**

The safety belt inertia reel stops the belt from unwinding further in case of vehicle deceleration in any direction or if the belt is pulled out quickly.

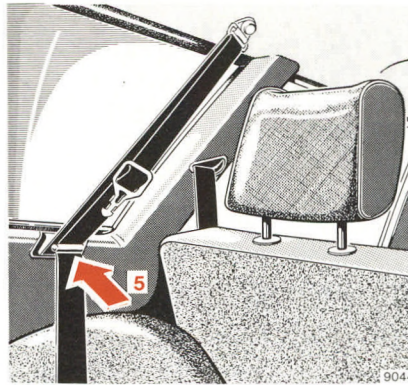
**Functional test:**

The locking function of the inertia reel can be tested by braking, driving around a bend or by pulling the belt out quickly.

## Seats



Before folding down the rear seat backrest, slip belt webbing into belt retainers (4) and return tongue of buckle upward to belt webbing outlet.



If the folding seats are not being used, engage belt webbing into brackets (5).

### Note:

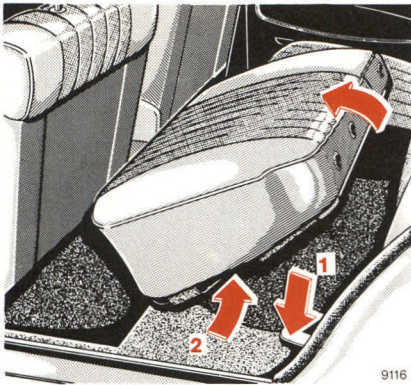
No safety belt can be used for more than one person. Belts are not intended for children.

After an accident, inspect the safety belts and replace them, if required. The belt anchors in the vehicle should also be checked.

Belt webbing must not be routed via sharp edges.

No modifications which may affect the efficiency of the belts must be made.

For cleaning and care of belt webbing, refer to page 57.

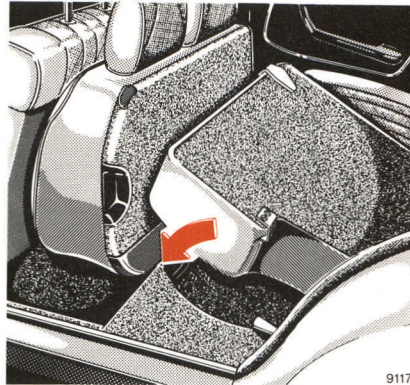


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### Rear Seat Bench

For the enlargement of the cargo space the left or right section, or both sections, of the rear seat bench can be folded down as desired.

To fold down left or right rear seat bench section, proceed as follows: Slip safety belt into belt retainer on the wheelhouse and return belt buckle tongue to the belt outlet opening.



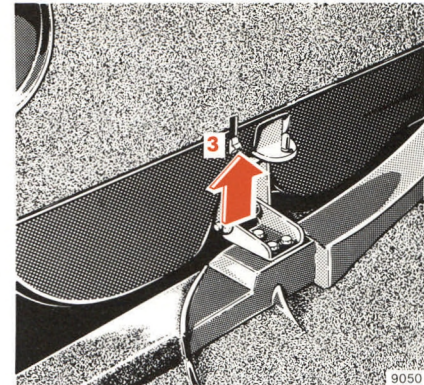
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Detach headrests.

Push button (1), slip your fingers into recess (2) and position seat cushion vertically (push front seat forward a little, if necessary).

Slide headrest into openings provided (in the seat cushions).

Push button (1) once more and fold backrest forward.



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When folding back the backrest and the seat cushion, ensure that they engage in their locks.

Further extension of cargo space:

As required, remove left or right seat cushion or both seat cushions. To do this, push buttons (3) upwards and pull seat cushions out of the hinges.

## Seats

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With the backrest folded down, the hinge pins must engage with the brackets on the backrest.

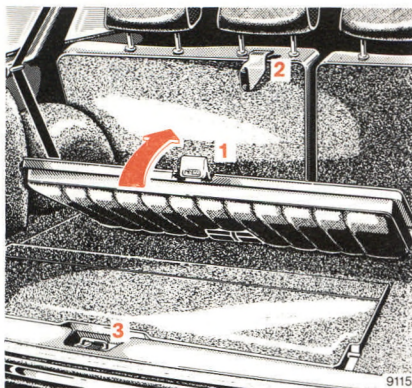
When installing the seat cushion, ensure that both the hinges are engaged.

In addition, when transporting extremely long items, push forward front passenger seat, detach headrest and lower backrest to the rear.

Notes:

It must be ensured that

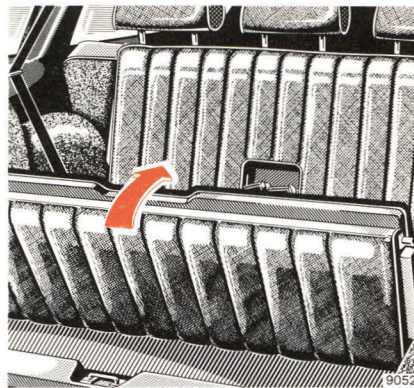
- the cargo cannot endanger driver and front passenger under hard braking or in the case of a head-on collision.
- the heating filaments of the rear window heater will not be damaged by pieces of luggage rubbing against them.



### Folding Seat Bench

To enlarge the seating area the folding seat bench can be unfolded.

For this purpose, engage the safety belts into the brackets provided.



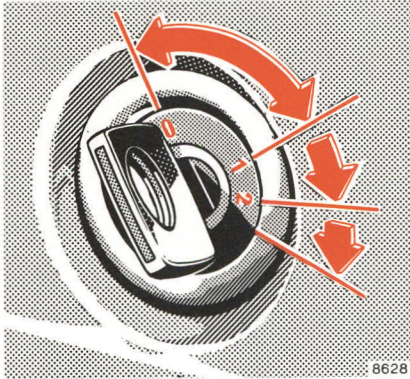
Swing up handle (1) and lift up backrest. The handle must engage above bracket (2).

Slip fingers into recess (3) and fold over seat cushion.

Prior to folding back the backrest, lift handle (1) over bracket (2).

Note:

If the folding seat bench is occupied, the rear seat bench must be equipped with headrests.



### Steering Lock

- 0 Steering is locked when the key is removed. Key can be removed only in this position.  
Note:  
Do not remove key from steering lock while the vehicle is in motion as this will cause the engagement of the steering lock thus rendering the vehicle inoperable.
- 1 Steering is unlocked.  
(If necessary, move steering wheel slightly to turn the key clockwise to position "1".)

- 2 Preglowing and driving position. Starting: continue turning key clockwise to the stop. The starter is engaged when the key is pressed against the stop. The starter nonrepeat unit requires the key to be returned to position "0" prior to a new starting attempt. For starting and turning off the engine, refer to page 42.

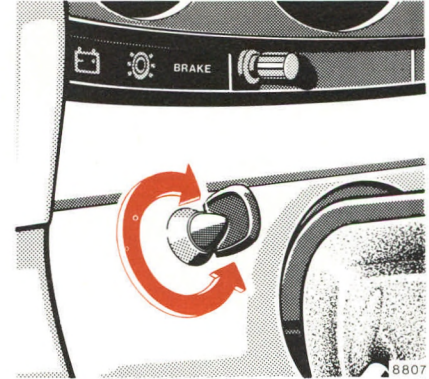
#### Notes:

The following items can be operated with the key in steering lock position "1".

Wiper, windshield washers, head-lamp flasher, electric lighter, glove compartment lamp, radio, electric seat heater for front seats.

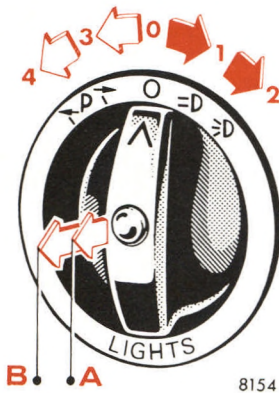
The power supply to the standing lamps is disrupted if the key in the steering lock is in position "2".

A warning buzzer sounds when the key has been left in steering lock positions "1" or "0" and the driver's door is opened.



### Idle Speed Adjuster

To increase idle speed, turn knob counterclockwise.  
To decrease idle speed, turn knob clockwise.



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### Lighting Switch

- 0 Off-position
- 1 Parking lamps (includes side marker lamps, tail lamps, license plate lamps, instrument panel lamps)
- 2 Same as pos. 1 plus headlamps

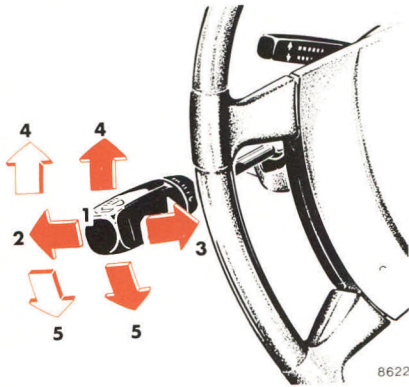
- 3 Standing lamps, right
- 4 Standing lamps, left
- A Turn to position 2 and pull out to first detent = same as position 2 plus fog lamps
- B Available for an option

### Note:

With the steering lock key removed and the driver's door open a signal sounds if the vehicle's exterior lamps are not switched off (standing lamps excepted).

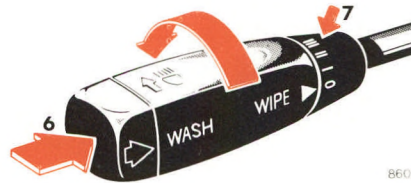


## Controls



### Combination Switch

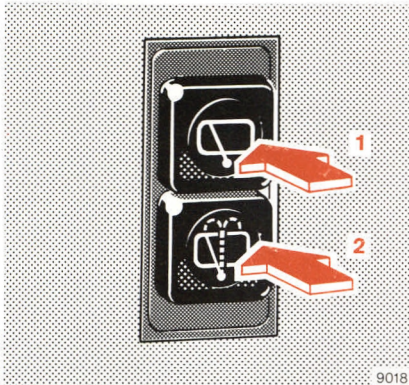
- 1 Low beam (turn lighting switch clockwise two notches)
- 2 High beam (turn lighting switch clockwise two notches)
- 3 Headlamp flasher (high beam available independent of lighting switch position)
- 4 Turn signals, right
- 5 Turn signals, left



- 6 Control for windshield washer system  
When the washer system is switched on, the wipers also operate
- 7 Windshield wiper control
  - 0 Windshield wiper switched off
  - I Intermittent wiping
  - II Normal wiper speed
  - III High wiper speed

### Hints:

If one of the turn signals fails, the turn signal indicator system flashes and sounds at a faster sequence than under normal operating conditions. Fog lamps will only operate together with low beam headlamps. Fog lamps are turned off automatically when lighting switch is returned to off-position.



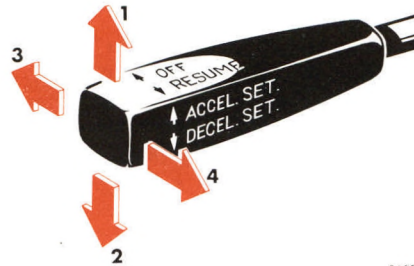
9018

**Rear Window Wiper**

Push button 1 (engages) = wiper switched on.

Push button 1 once more = wiper switched off.

Push button 2 (will not engage) = operation of window washing system. The wiper is actuated with the washing system.



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**Cruise Control**

Any given speed above a range of approximately 10—25 mph (16—40 km/h), depending on model, can be maintained with the cruise control by operating the switch.

1 = Setting (touch switch)  
Accelerating (hold switch)

2 = Setting (touch switch)  
Decelerating (hold switch)

Normally the vehicle is accelerated to the desired speed with

the accelerator. Speed is set by briefly pushing the switch to position "1" or "2", and the accelerator can be released. The speed can be increased (e.g. for passing) by using the accelerator. As soon as the accelerator is released, the previously set speed will be resumed automatically.

If the set speed is to be increased or decreased slightly (e.g. for adaptation to the flow of traffic), hold switch in position "1" or "2" until the desired speed is reached. When the switch is released, the newly set speed remains constant.

3 = Cancelling

To cancel the cruise control, briefly push lever to position "3".

The cruise control will also be cancelled if the brake pedal is actuated or if the vehicle speed drops on steep grades by more than 20 % below the set speed.

## Controls

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### 4 = Resume

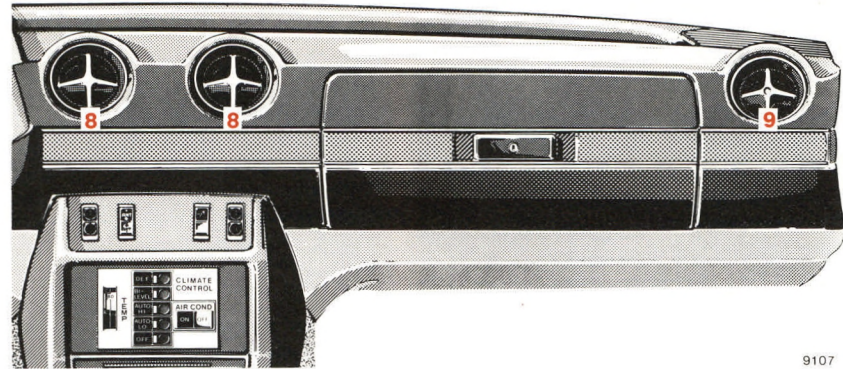
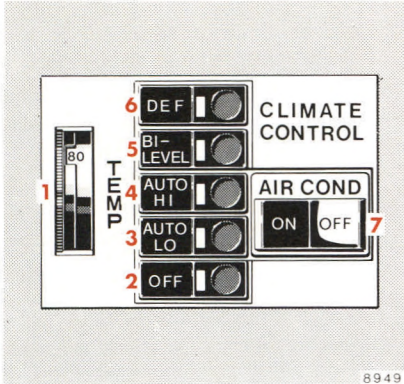
If the lever is briefly pushed to position "4" when driving at a speed exceeding approximately 10—25 mph (16—40 km/h), depending on model, that speed is resumed which was set prior to the cancellation of the cruise control. The last memorized speed is cancelled when the key in the steering lock is turned to position "1" or "0".

### Important:

Please do not use the cruise control if traffic conditions do not make it advisable to maintain a steady speed, i.e. in heavy traffic or on twisting or slick and muddy roads.

Position "Resume" should be engaged only if the driver is fully aware of the previously set speed and wishes to resume this particular pre-set speed.

When driving with the cruise control, the selector lever must not be shifted to position "N" as otherwise the engine will overrev.



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- 1 Temperature selector wheel
- 2 "OFF" button
- 3 "AUTO-LO" button
- 4 "AUTO-HI" button
- 5 "BI-LEVEL" button

- 6 "DEF" button
- 7 Refrigerant compressor switch
- 8 Swivelling outlets for cooled air  
Turn right = open  
Turn left = closed

- 9 Swivelling outlets for side ventilation  
Turn right = open  
Turn left = closed

## Automatic Climate Control

The automatic climate control is designed to maintain the desired temperature in the vehicle interior. Heating, cooling and air distribution (top, center, bottom) are controlled automatically. The blower speeds will be varied automatically depending on the push button setting, operating and temperature conditions.

The automatic climate control is operational only if the engine is running.

For adaptation to the weather conditions various functions can be selected with the pushbuttons. Air outlets 8—9 must then be adjusted as required. Buttons 2—6 can be pressed only individually. The indicator lamps in the individual buttons come on if the buttons are pressed and the vehicle lamps are switched on.

### 1 Temperature selector wheel

The desired temperature in the vehicle interior can be set with the selector wheel.

Normally only one adjustment is necessary for the entire year. If required to be altered, only slight adjustments should be made to this temperature setting.

### 2 “OFF” button:

Switching off the automatic climate control.

Simultaneously the fresh air supply to the vehicle interior is cut off. This position can be briefly selected in the case of odorous or dust annoyances or when passing through an automatic car wash.

### 3 “AUTO-LO” button:

Normal vehicle operation.

This setting will provide heating or cooling of the vehicle's interior depending on the selector wheel setting and the outside temperature. If heating is required, the fresh air supply and the blower will remain in the off position until the

engine cooling water is slightly warmed up. Only then will warm air enter the interior of the vehicle and be distributed mainly to the footwell outlets. A small amount of air is directed to the windshield to ensure defogging under normal weather conditions. For the defogging of the side windows, air can be diverted from the side outlets 9. The center outlets 8 remain closed during heating operation.

If cooling of the interior is required, the blower will start immediately regardless of engine temperature. The air is routed via center outlets 8 into the vehicle's interior and additionally via the side outlets 9. No air is allowed to flow to the windshield and to the footwell. The blower speed will be automatically reduced in several steps in the heating or cooling cycle as the interior temperature approaches the preselected temperature on the temperature wheel 1.

4 "AUTO-HI" button:

Fast heating or cooling of vehicle interior.

Air conditioning, air distribution and blower control are the same as in position "3" "AUTO-LO". The blower, however, operates at a higher speed.

5 "BI-LEVEL" button:

For fogged-up windows.

During heating and cooling operations air is channelled to the windshield and to the footwell. During the cooling operation air also enters via the center swivelling outlets 8.

The vehicle interior is cooled practically free of draft with more air being blown into the footwell. The blower then operates at a higher speed than "AUTO-LO".

We recommend this position at low ambient temperatures.

6 "DEF" button:

For iced-up windows.

Independent of the position of the temperature selector wheel air heated to maximum temperature is channelled to the windshield.

For the side windows, open swivelling outlets 9.

7 Refrigerant compressor switch:

Switching the air conditioning compressor on and off.

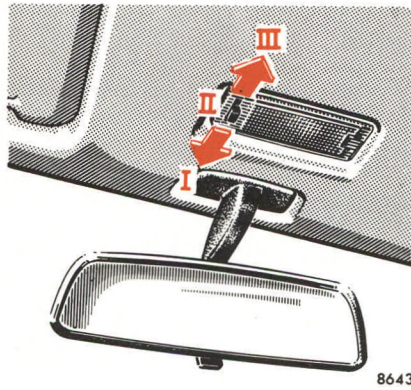
The compressor can be switched off completely in the positions "AUTO-LO" and "AUTO-HI", e.g. if no cooling is required because of low ambient temperatures (fuel economy).

Fresh air is supplied to the footwell if the refrigerant compressor is switched off while the system is working in the cooling mode.

Fresh air enters the vehicle through the openings in front of the windshield (keep free of snow) and is emitted through the ventilation openings in the cargo space if the windows are closed.

### Important!

In order to keep the air conditioning section of the climate control system in good working condition at all times, it is necessary to operate the A/C compressor briefly at least once a month even during the seasons it is normally not required. Switch compressor switch to "ON" and depress "AUTO-LO" or "AUTO-HI" button. Make sure that the ambient temperature is above 36° F (2° C) since the A/C compressor will not operate below this temperature.



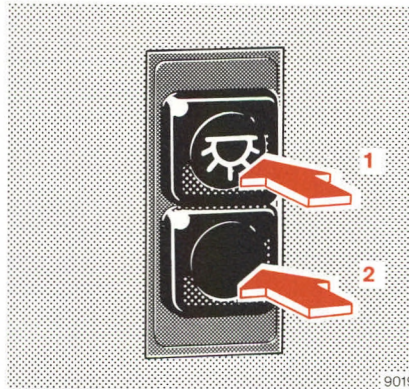
### Interior Lamps

The switch for the front lamp has 3 positions.

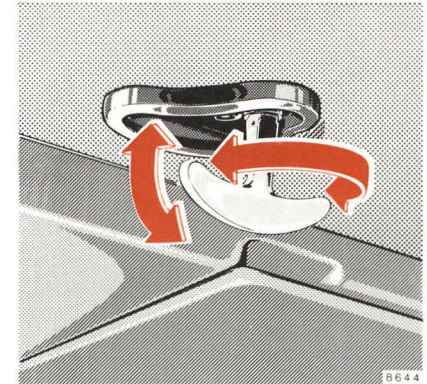
Position I: lamp is switched on and off by the front door contact switches.

Position II: lamp is continuously switched off.

Position III: lamp is continuously switched on.



Rear passenger compartment lamp:  
Push button 1 = lamp is switched on.  
Push button 1 once more = lamp is switched off.  
Push button 2 = lamp switched on and off by the door contact switches of rear doors and tailgate.  
Push button 2 once more = lamp is switched off.

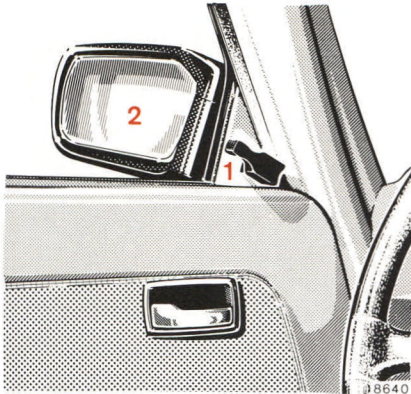


### Sliding Roof

To release, swing down locking lever and turn by half a revolution to the stop. Slide roof to the desired position. To secure, turn back the locking lever to the stop and swing up.

Note:

For safety reasons the locking lever must be swung up every time the sliding roof was moved.



### Outside Rear View Mirror

Outside rear view mirror (2) can be randomly adjusted from inside by means of lever (1).

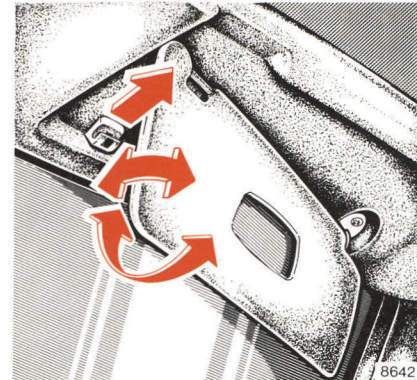
If the mirror housing has been forcibly removed from its safety catch, it must be repositioned by applying firm pressure.



### Inside Rear View Mirror

The mirror can be tilted to the anti-dazzle position by means of the lever at its lower edge.

- 1 = Normal position
- 2 = Anti-dazzle position



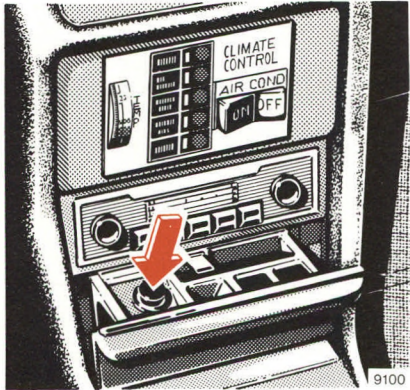
### Sun Visor

To protect against sunlight from ahead, fold the sun visor downwards.

In the event of strong sunlight through the side windows, remove the sun visor from its inner fixture and swing it sideways.



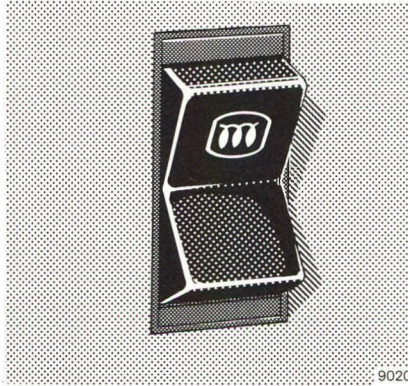
## Various Equipment



### Electric Lighter

Key in steering lock position "1" or "2".

Press in electric lighter; it will pop out automatically when hot.

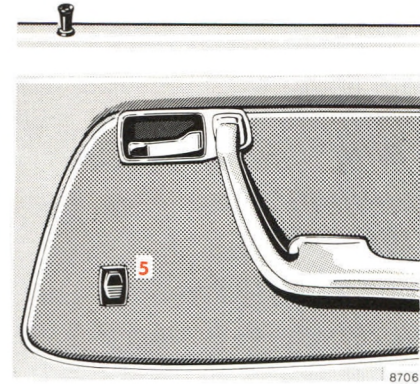
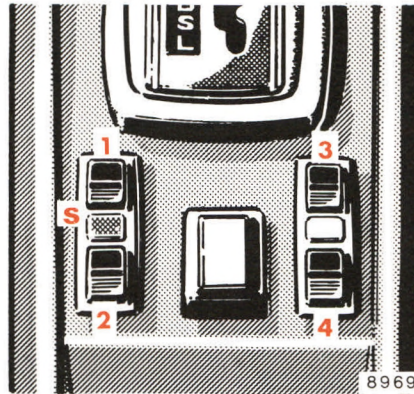


### Heated Rear Window

Turn key in steering lock to position "2".

When the rear window heater is turned on, the white indicator lamp in the switch comes on.

A heavy load is imposed on the battery due to the high power requirement. For this reason, switch off the heated rear window as soon as it is demisted or defrosted. It is shut off automatically after a maximum of 30 minutes. Always remove heavy layers of ice and snow first.



### Electric Window Lifters

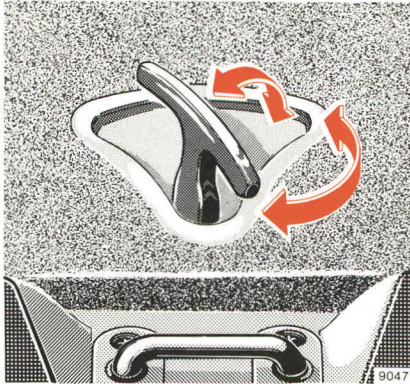
Switch group for window lifters:

- 1 front, left
- 2 rear, left
- 3 front, right
- 4 rear, right
- S Safety switch

The electric window lifters can only be operated with the steering lock in position "2". All four windows can then be operated using the switches in the center console. The rear door windows can also be operated using the switches (5) in each rear door

panel as long as the safety switch "S" in the center console is depressed. If the safety switch is not depressed, inadvertent operation of the rear door windows (for instance, by children) is prevented.

## Various Equipment



### **Twin-reel Spring Blind as Luggage Cover and for Passenger Protection**

The twin-reel spring blind is mounted on the backrest of the rear seat and can also be used with the backrest folded down.

Luggage cover:

Pull out lower blind (cover-up), draw it over the luggage and engage into eyelets on the tailgate. When the tailgate

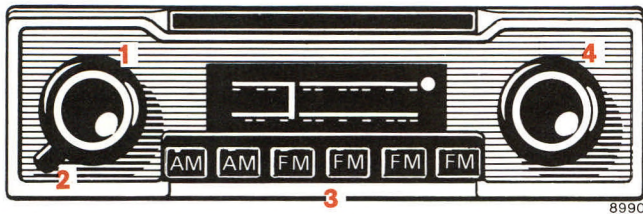
is opened the blind is lifted up with it so that it need not be wound up for loading or unloading the vehicle.

Passenger protection:

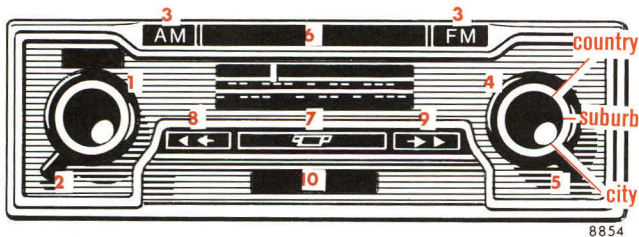
Pull out upper spring blind (safety net) and engage into eyelets on the roof. This is a particularly important safety factor when the vehicle is loaded higher than its waist line.

### **Stowage Space below Cargo Space Floor**

Swing up locking lever, turn to the stop and lift up cover. Stowage space is available only if the folding seat bench is removed.



Europa  
(Radio with Pushbutton Tuning)



Mexico Cassette  
(Radio with Automatic Signal Seeker  
and built-in Cassette Player)

- 1 On-Off/Volume Control
- 2 Tone Control
- 3 Push buttons for band selection and tuning of preset stations (band selection only on radios with built-in cassette player)
- 4 Manual tuning control
- 5 Search sensitivity switch
- 6 Automatic tuning bar (Mexico models only)
- 7 Cassette release
- 8 Fast forward
- 9 Fast rewind
- 10 Cassette slot

For control location, refer to the illustration on the type of radio installed in your MERCEDES-BENZ. The radio can only be operated with the ignition key in the number "1" or "2" position.

### On-Off/Volume

Turn knob (1) clockwise to switch radio on and to increase volume. Green control lamp on the dial will light up.

### Tone

Turn lever (2) clockwise to increase treble range and counterclockwise to increase bass range.

### Front-Rear Speaker Balance

This control is installed whenever the vehicle is equipped with rear speakers. Turn rearward to increase volume of rear speakers and forward to increase volume of front speakers.

### Station Tuning

First, select desired band by pressing one of the AM or FM station buttons (3), then tune manually by turning control knob (4). For good reception, accurate manual tuning is important.

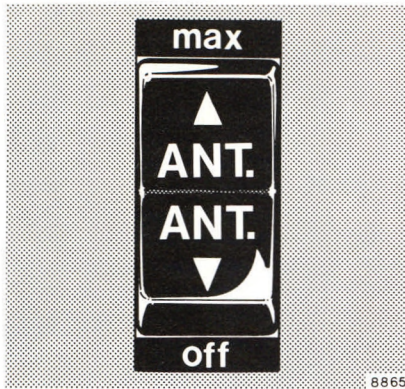
To preset stations on pushbutton tuning radios in either the AM or FM band, pull station buttons (3), carefully tune in the desired station, push button slowly and firmly all the way in, then release.

Automatic station tuning (on signal seeking radios only) is accomplished by momentarily depressing the "Automatic Tuning" bar (6). The tuner moves from the left towards the right side of the dial and stops whenever a useable station is found.

Operating the automatic tuning bar again causes the tuner to resume its search function. When the end of the band is reached, the tuner will automatically return to the beginning of the band and start the search operation again.

The position of the search sensitivity switch (5) determines whether the tuner will stop at many or the most powerful stations only.

Position I "country"	Selector stops at every useable station
Position II "suburb"	Selector stops only at more powerful stations
Position III "city"	Selector stops only at the strongest stations



#### Automatic Antenna

The antenna switch can be actuated with the radio switched on and the key in steering lock positions "1" or "2".

- If the antenna switch is in center position, the antenna extends automatically to a specific height,
  - if the antenna switch is engaged in the "max" position, the antenna extends fully,
  - if the antenna switch is engaged in the "off" position, the antenna will not extend or will retract completely.
- The height of the antenna can furthermore be adjusted continuously by actuating the antenna switch:
- If the antenna switch is in center position, the antenna will extend to the specific height. The antenna can be further extended or retracted to any height by rocking the switch (not engaging it).
  - If the antenna is to be retracted, e.g. for playing cassettes, engage switch in "off" position.

When the key is turned to steering lock position "0" or the radio is turned off, the antenna will retract completely.

#### FM Reception

FM signals travel in a "line-of-sight". Reflections or "dead spots" may cause cancellations or loss of

the signal as well as strong signal overloading or capture.

Lowering the antenna height in strong signal areas may eliminate many of the resulting problems and restore good tone quality. However, fringe area reception requires the full antenna length to capture weak incoming signals. The antenna can be operated by depressing the respective side of the rocker switch.

#### FM Stereo Reception

When tuned to a FM stereo station, the red Stereo Indicator Lamp will light up. Because more information is carried in the FM stereo signal than in FM monoraul broadcasts, flutter, cancellation and capture effects may be even more noticeable. The noise-free broadcast range, therefore, is somewhat less and accurate tuning to the strongest available stereo stations is required, especially for fringe area reception.

## Radio

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Your radio is equipped with a specially designed Stereo Decoder which automatically switches the radio from stereo to mono reception if the signal becomes too weak. However, the Stereo Indicator Lamp remains lit to avoid the distracting flicker at short-time signal changes. The radio will return to the stereo mode automatically when signal strength permits it.

### Tape Playback (Mexico Cassette Model)

This type of radio provides for the playback of prerecorded stereo

music through the unique combination of all the features of an automatic signalseeking stereo radio with a tape player.

To start playback, insert stereo cassette through the swing-away door of the cassette slot and depress until the mechanism engages. (Note: Full reel on the right tape side of cassette first.) The cassette will be automatically released when the tape reaches its end. To play the other side, remove the cassette from the radio, turn it upside down and reinsert through the slot. To manually eject the cassette, push the release bar (7).

When the cassette is ejected, the unit will automatically switch to radio reception.

For fast forward or rewind of the tape, depress button 8 or 9 past point of resistance.

To stop tape winding, depress opposing button to point of resistance only.

### Care of the Tape Player

Use only good quality cassettes with a maximum playing time of 45 minutes per side (C 90).

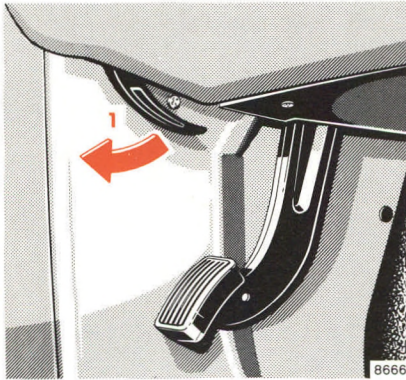
“Unwound” tapes can be fixed by rewinding either reel with a pencil inserted in its hub. The pick-up head and roller should be cleaned occasionally to maintain the original high quality sound reproduction.

# Driving





## Hood



### To open:

Pull lever (1) under the LH side of the instrument panel to unlock the hood. The hood opens to the safety catch stop. At the same time grip (2) will pop out of the radiator grille.



Pull grip (2) out of the radiator grille as far as the stop and lift up hood (windshield wiper arms must not be folded out).

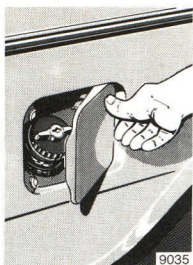
### Closing:

Close hood by depressing it firmly.

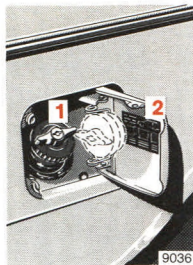
### Note:

There is a risk of injury when the hood is open and the engine is running.

**Have the following items checked regularly and prior to any long trip**



9035



9036

**1 Fuel Supply**

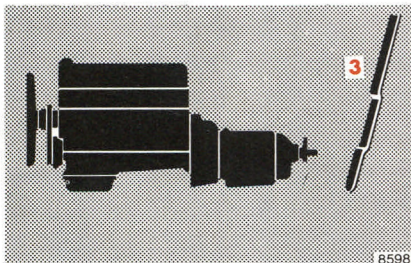
For winter and summer operation diesel fuels refer to "Fuels, Coolants, Lubricants, etc. and last page".

**2 Tire Pressure**

For tire pressure table refer to fuel filler flap or last page. Check at least every other week. For further information see "Wheels, Tires, Changing Wheels".

**3 Oil/Fluid Level: Engine, Automatic Transmission**

See "Checking Fuels, Coolants, Lubricants, etc.", "Fuels, Coolants, Lubricants, etc. and last page".



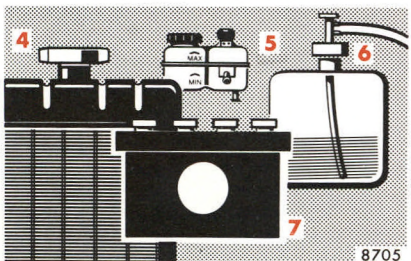
8598

**4 Coolant Level**

See "Checking Fuels, Coolants, Lubricants, etc.", "Fuels, Coolants, Lubricants, etc. and last page".

**5 Brake Fluid**

When the minimum mark on the reservoir is reached, have the system checked (brake lining thickness, leaks).



8705

**6 Windshield Washers**

Replenish with water mixed with windshield washer detergent (see "Checking Fuels, Coolants, Lubricants, etc.").

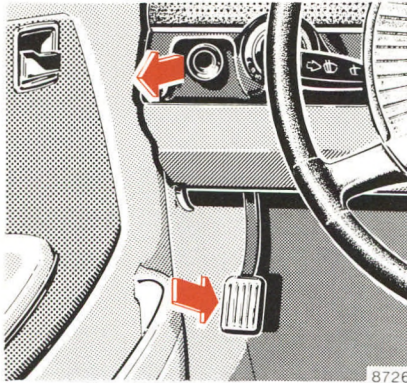
**7 Battery**

Replenish with distilled water only. See "Electrical System".

**Vehicle Lighting**

Check for function and cleanliness.

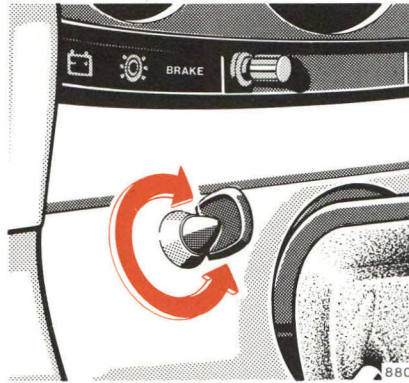
## Parking Brake



Depress parking brake pedal. When the steering lock key is in position "2", the brake warning lamp in the instrument cluster comes on.

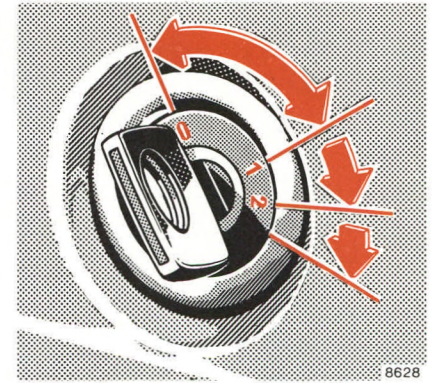
To release, pull release button on the instrument panel. The parking brake releases in one rapid movement. The parking brake warning lamp in the instrument cluster must go out.

## Starting and Turning off the Engine



Engage parking brake or service brake before starting the engine. Place the gear selector lever in either "N" or "P" position before starting the engine.

Depress accelerator halfway and turn idle speed adjuster counterclockwise to the stop. Then release accelerator.



Turn key in steering lock to position "2". Charge indicator and preglowing indicator lamp must come on.

The preglowing process then begins. The engine can be started as soon as the preglowing indicator lamp has gone out. Since the glow plugs continue glowing for up to 1.5 minutes, the engine can be restarted during this period without preglowing again.

When the engine is at operating temperature (coolant temperature above approx. 158° F = 70° C) the preglowing indicator lamp comes on only briefly. The engine can be started immediately.

Turn key clockwise to the stop to start the engine. Release key only when the engine is running smoothly.

At ambient temperatures of less than -4° F (-20° C), depress the accelerator three times prior to starting.

At ambient temperatures below +59° F (+15° C) and with the engine cold, depress accelerator at least half of its travel while starting.

At ambient temperatures below +23° F (-5° C) and with the engine cold, depress the accelerator at least half of its travel while starting.

If the engine has not started after approx. 20 secs, discontinue the starting procedure and return key to position "0".

This need not be done if the engine has started firing. The starter may then be engaged even longer. Do not exhaust battery.

After an unsuccessful starting attempt, repeat the entire starting procedure.

When the engine has started firing, adjust idle speed as follows:

- Ambient temperature below +59° F (+15° C) and engine cold: Turn idle speed adjuster knob clockwise until the engine just runs smoothly.
- Ambient temperature above +59° F (+15° C): After approx. 10 secs, turn idle speed adjuster knob clockwise to the stop.

With the engine at operating temperature the idle speed adjuster knob should be returned clockwise to the stop (normal position).

Observe the oil pressure gauge immediately after starting the engine. In a very cold engine the oil pressure will only rise slowly,

some time after the engine has started. Do not speed up the engine before pressure is registered on the pressure gauge.

The charge indicator lamp must go out as soon as the engine has started.

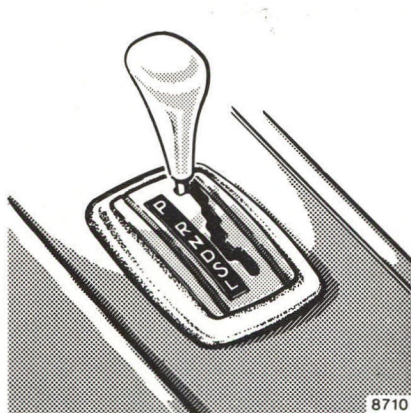
### Turning off

Turn key in steering lock to position "0" and remove only when the vehicle has stopped.

Should the engine continue to operate in steering lock position "0", refer to page 61.

With very high coolant temperatures (e.g. after driving on steep inclines), do not shut down the engine immediately but allow to run at slightly increased idle speed for another 1—2 minutes approximately.

## Starting and Shifting Gears



Do not store any objects in the driver's footwell area because they could become lodged under the operator's pedals thus rendering these controls partially or totally inoperative.

Test the service brake shortly after driving off.

Warm up the engine smoothly. Do not place full load on the engine until the operating temperature has been reached.

### Automatic Transmission

The automatic transmission facilitates and simplifies the handling of the vehicle. The individual gears are shifted automatically dependent upon selector lever position, vehicle speed and accelerator position.

#### Hint

When parking the vehicle or if working on the vehicle with the engine running, depress parking brake pedal and move selector lever to position "P".

### Starting

Shift selector lever to the desired driving position only when the engine is idling and the service brake is applied. Do not release the brake before moving off. The vehicle may otherwise start creeping when the selector lever is in a driving position.

#### Accelerator position

Partial throttle = early upshifting = normal acceleration.

Full throttle = retarded upshifting = maximum acceleration.

Depressing the accelerator beyond full throttle to kickdown position means downshifting to the next lower gear and thus maximum acceleration. If you ease up on the accelerator after having attained the desired speed, the transmission will shift up again.

Gearshifting is controlled by the vehicle speed.

### Selector lever positions

The automatic gear shifting process can be adapted to specific operating conditions by means of the selector lever.

- “P” Parking lock. The parking lock is an additional safeguard when parking the vehicle. Engage only when the car is stationary.
- “R” Reverse gear. Shift reverse gear only with the vehicle at halt.
- “N” Neutral. No power is transmitted from the engine to the rear axle. When the brakes are released, the vehicle can be moved freely (pushed, towed or tow-started). Do not engage “N” when driving

except when the vehicle is in danger of skidding (e.g. on icy roads). See page 50.

- “D” Drive. All gears are available. 1st gear can be engaged only by means of kickdown. Position “D” affords optimum driving characteristics under all normal operating conditions.
- “S” Slope. Shifting up to 3rd gear only. 1st gear can be engaged only by means of kickdown. Suitable for moderate ascents and descents. As the transmission is shifted up to 3rd gear only, this position permits the utilization of the engine braking effect.

- “L” Low. Upshifting to 2nd gear only. The vehicle starts out in 1st gear. For driving on steep mountain passes, for trailer operation in mountainous regions, under severe operating conditions and as braking position on extremely steep declines. If the selector lever is briefly shifted to position “S” and then returned to position “L”, 2nd gear is shifted sooner at higher speed.

Do not exceed top speeds corresponding to the individual selector lever positions. Refer to speedometer markings.

## Starting and Shifting Gears

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### Maneuvering

To maneuver in restricted area, e.g. when pulling into a parking space, control the car speed by gradually releasing the service brake. Accelerate gently and do not pump the accelerator. To rock a car out of soft ground (mud or snow), alternately shift one forward gear range and the reverse gear at partial throttle.

### Trailer operation

Do not allow the engine speed to drop too low at uphill gradients to prevent the engine from laboring at low RPMs. Depending on the degree of the incline, shift selector

lever to positions “S” or “L” early enough to maintain engine RPMs within best torque range.

### Stopping

For brief halts, e.g. at traffic lights, leave the selector lever in a driving position and control vehicle with the service brake.

For longer stops with the engine idling, shift selector lever to position “N”.

When stopping the car on a slope, do not hold it by means of the accelerator but use the brake. This avoids unnecessary heat-up of the transmission.

## Safe Driving

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Always drive according to the rule “Safety first”. The comfortable ride of the vehicle may easily tempt you to underestimate the speed you are actually driving at. For this reason you should get used to keeping an eye on the speedometer needle because high speeds demand long stopping distances.

Do not attempt to move or roll the vehicle with the engine not in operation, as engine-driven accessories such as the power steering system or power brakes are not “powered”, therefore, requiring substantially more effort for their operation even though they always remain mechanically operative.

Do not allow your tires to wear down too far. With less than appr.  $\frac{1}{8}$  in. (3 mm) of tread, the anti-skid properties on a wet road fall off sharply.

Depending upon the weather and/or road pavement, the grip of the tires varies widely.

The retention of the specified tire pressure is essential. This applies

particularly if the tires are subjected to high loads (e.g. high speeds, heavy loads, high ambient temperatures).

**Aquaplaning:**

Depending on the depth of the water layer on the road, aquaplaning may occur even with tires still showing the full tread depth, and even at low speeds. Avoid track grooves in the road and apply brakes cautiously in the rain.

**Tire friction:**

Dry road = 100 %

Wet road = from approx. 50 % to approx. 80 % (be particularly cautious on wet and dirty roads)

Icy road = approx. 15 %

A given speed at which a vehicle driven on dry roads can still be fully controlled must be reduced when the same vehicle is to be driven safely on a wet or icy road.

You should pay particular attention to the condition of the road as

soon as the prevailing temperatures fall close to the freezing point. If ice has formed on the road (e.g. due to fog), a thin film of water is then quickly produced on the ice which substantially reduces the grip of the tires. Under such weather conditions, drive, steer and brake particularly carefully.

We recommend M + S radial-ply tires for the cold season. On ice or packed snow, they can reduce your stopping distance as compared with summer tires. Stopping distance, however, is nevertheless considerably greater than when the road is wet or dry.

When driving down long and steep declines, relieve the brakes by engaging selector lever position "S" or "L". This prevents overheating of the brakes and reduces brake pad wear.

After hard braking it is advisable not to switch off the engine right

away but to drive on for some time so the air stream will cool down the brakes faster.

When driving in heavy rain for some time without applying the brakes, the first braking action may be somewhat retarded and increased pedal pressure may be necessary. For this reason, stay further away from vehicle in front.

The condition of the parking brake will be checked during every maintenance service. Furthermore it is recommended to exert once or twice between the regular maintenance services, a maximum pressure of 22 lbs. (10 kp) on the parking brake pedal for 10 seconds while travelling at a speed around 30 mph (50 km/h) on dry road. Pull release knob during this process! Repeat procedure once or twice. Exercise care, the stoplamps do not work.

Have all inspections of and work on the brake system carried out by a MERCEDES-BENZ service station.



If the parking brake is released and the brake warning lamp in the instrument cluster comes on, the brake fluid level in the reservoir is too low. A leak or brake pad wear may cause a shortage of brake fluid in the reservoir.

Have brake system checked in a MERCEDES-BENZ service station as soon as possible.

Install only brake pads recommended by us. If other than recommended brake pads are installed, the braking properties of the vehicle can be affected to an extent that the safety is substantially impaired.

### **Brake Pad Wear Indicator Lamp**

The brake pad wear indicator lamp in the instrument cluster comes on when the key in the steering lock is turned to driving position "2" and it must go out when the engine is running. If the indicator lamp lights up during braking or driving, this shows that the front wheel brake pads are worn down.

Have brake system checked in a MERCEDES-BENZ service station as soon as possible.

### **Brake Fluid**

During the course of the operation of the vehicle, the boiling point of the brake fluid is continuously being reduced through the absorption of moisture from the atmosphere. Under extremely hard operating conditions, this moisture content can lead to the formation of vapor in the system thus reducing the system's efficiency. The brake fluid must therefore be replaced annually, preferably in the spring. It is recommended to use only brake fluid approved by MERCEDES-BENZ.

Your MERCEDES-BENZ dealer will provide you with additional information.

### **Charge Indicator Lamp**

Should the charge indicator lamp fail to come on prior to starting when the ignition key is in position "2" or should it fail to go out after starting or during operation, this indicates a fault which must be repaired at a MERCEDES-BENZ service station as soon as possible.

### **Oil Pressure Gauge**

The oil pressure may drop at idle speed to 7.1 psi (0.5 kp/sq. cm) if the engine is at operating temperature. This will not jeopardize its operational reliability. Pressure must, however, rise immediately upon acceleration.

The oil pressure gauge does not provide any information concerning the oil level in the engine.

### **Coolant Temperature Gauge**

Due to the pressurized cooling system, the coolant only starts boiling at a temperature of approx. 257° F (125° C) with an antifreeze-blended coolant fill protecting down to -22° F (-30° C) (see also "Fuels, Coolants, Lubricants, etc.").

During severe operating conditions and stop-and-go city traffic the coolant temperature must rise to red marking only.

## Safe Driving

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### Emission Control

Certain systems of the engine and/or adjustments serve to keep the toxic components of the exhaust gases within permissible limits required by law. (Nevertheless, we urgently advise you not to let the engine run in a closed garage.) These systems, of course, will function properly only when maintained strictly according to factory specifications. Any adjustments on the engine should, therefore, be carried out only by qualified MERCEDES-BENZ technicians. The adjustments of the engine should not be altered in any way. Moreover, the specified service and maintenance jobs must be carried out regularly according to MERCEDES-BENZ servicing requirements. For details refer to Emission Control and Maintenance Manual.

## Driving Economically

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### Fuel Consumption

Fuel consumption depends to a great extent on driving habits and operating conditions. For economical driving you should

- avoid frequent and quick acceleration
- avoid frequent slowdowns
- avoid high speeds

Driving in low temperature weather, in stop-and-go city traffic and on short hops, and in hilly country as well increases fuel consumption.

### Engine Oil Consumption

Engine oil consumption can only be determined after a certain mileage has been covered. During the break-in period, higher oil consumption may be noticed and is normal.

Frequent high engine speed operation will also cause increased oil consumption.

## The First 1,000 Miles (1,500 km)

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The more cautiously you treat your engine during the break-in period, the more satisfied you will be with its performance later on. Therefore, drive your vehicle during the first 1,000 miles (1,500 km) at moderate vehicle and engine speeds.

During this period, avoid heavy loads (full throttle driving) and high RPMs (no more than  $\frac{2}{3}$  of maximum permissible speed in each gear) and do not force the engine to labor at low engine speed.

Avoid accelerating by kickdown. It is not recommended to brake vehicle by means of manually shifting to a lower gear. We recommend to select positions "S" or "L" only at moderate speeds (for hill driving).

After 1,000 miles (1,500 km) speeds may gradually be increased to the permissible maximum.

### Winter Driving

Have your car winterized in a MERCEDES-BENZ service station before the onset of winter.

- Engine oil change: If no “all-year round” engine oil is used, fill with recommended winter oil. For viscosity and capacity, refer to “Fuels, Coolants, Lubricants, etc. and last page”.
- For diesel fuels, refer to page 84 and last page.
- Antifreeze in the coolant: Check antifreeze protection periodically. For capacity refer to “Fuels, Coolants, Lubricants, etc.”.
- Additive in the windshield washer systems: Add windshield washer solvent to the water in the windshield washer system.
- Test battery: Battery capacity drops with decreasing ambient temperature. A well charged

battery ensures that the engine can always be started, even at low ambient temperatures.

- Tires: For the cold season we recommend mounting M + S radial-ply tires on all wheels. Permissible top speed for M + S radial-ply tires is 100 miles/h (160 km/h).

### Hints for Driving

The most important rule for slippery or icy roads is to drive sensibly and to avoid abrupt acceleration, braking and steering action. Do not use the cruise control system under such conditions.

When the vehicle is in danger of skidding, move selector lever to position “N”. Try to keep the vehicle under control by means of corrective steering action.

Provided the traffic conditions will allow, only brake in a way that the

wheels are locked for no more than fractions of a second as otherwise the steerability of the vehicle is lost.

Thawing salts and water can adversely affect the braking efficiency. Increased pressure on the pedal may be required to achieve the usual braking effect. We therefore recommend you to actuate the brakes repeatedly in order to test their efficiency after driving on salt treated roads for some time. In doing this it must, of course, be made sure that no danger is created for other road users.

If the vehicle is parked after being driven on salt treated roads, the braking efficiency should be tested as soon as possible after driving is resumed while adhering to the safety requirements. Should the braking efficiency have deteriorated considerably it can be improved again by braking several times.

### **Tire Chains**

Tire chains can only be used on the driving wheels. Use only chains tested and recommended by us. Any MERCEDES-BENZ service station will readily advise you. Retighten newly mounted tire chains after a few miles of driving. Do not exceed permissible maximum speed of 30 mph (50 km/h). On clear roads remove the chains as soon as practicable. Adhere to the manufacturer's mounting instructions.

### **High Altitude Correction Device**

The engine is equipped with an automatic high altitude correction device.

### **Traveling Abroad**

Abroad, too, there is a widely-spread MERCEDES-BENZ service network at your disposal. If you travel into areas which are not listed in the index of your service station booklet, you should request pertinent information from your dealer.



# Vehicle Care



## MERCEDES-BENZ Maintenance System

Like any other mechanical equipment, the vehicle requires care and maintenance.

A maintenance booklet is delivered with your car listing all the maintenance jobs that must be carried out after the following mileages.

- Once after 300 to 600 miles (500 — 1,000 km).
- Once after 3,000 miles (5,000 km).
- After 12,500 miles (20,000 km) and thereafter every 12,500 miles (20,000 km), but at least once a year.

We would also like to draw your attention to the hints contained in the maintenance booklet covering necessary lubrication services every 3,000 miles (5,000 km), lubrication and brake inspections every 6,000 miles (10,000 km), additional maintenance jobs every 37,500 miles (60,000 km) and MB individual maintenance as required.

Renew brake fluid once a year, preferably in spring. Use only recommended brake fluids.

The vehicle must receive the prescribed maintenance and/or lubrication work at the specified intervals as listed in the maintenance booklet. Verification of performance of such maintenance/lubrication work should be recorded in the spaces provided in the maintenance booklet.

The maintenance jobs are described in detail in a manual which you can order from your MERCEDES-BENZ service station.

A small sticker attached to the door post of the driver's door by the service station personnel is to remind you when the next maintenance service, lubrication and brake inspection or lubrication service is due.



Maintenance service



Lubrication and  
brake inspection



Lubrication service

### Severe Operating Conditions

In the case of severe operating conditions or heavy use mainly in city traffic or over short distances, frequent mountain driving, poor roads, dusty and muddy conditions, trailer operation, hard and sporty driving, etc., it may be necessary to inspect e.g.

- the front axle brake linings
- the tires

at shorter intervals.

Any MERCEDES-BENZ service station will be pleased to give you expert and individual advice.

### **Engine Oil Change and Filter Change**

To be carried out every 3,000 miles (5,000 km), but at least twice a year (in spring and fall).

Under severe operating conditions or if diesel fuels with high sulphur content (in excess of 0.5 % by weight) are used, the oil should be changed every 1,500 miles (2,500 km). It is not mandatory to change the filter at this oil change.

For regular oil level checks, refer to "Checking Fuels, Coolants, Lubricants, etc."

### **Automatic Transmission — Fluid and Filter Change**

To be carried out every 37,500 miles (60,000 km) according to the maintenance booklet.

Under severe operating conditions, have the automatic transmission fluid changed every 12,500 miles (20,000 km) without filter change.

All MERCEDES-BENZ service stations store the MERCEDES-BENZ original spare parts required for maintenance and repair work. In addition, depots are provided all over the globe intended to ensure the rapid supply of MERCEDES-BENZ original spare parts.

More than 200,000 different spare parts, even for rather old vehicle models, are furthermore stocked in the central plant warehouses.

We warrant maximum operational efficiency and reliability as well as optimum retention of the vehicle value when MERCEDES-BENZ original spare parts are installed, as they are subjected to most severe quality inspections. Each part has been specifically developed, manufactured or selected for and adapted to MERCEDES-BENZ vehicles.

For this reason, only MERCEDES-BENZ original spare parts should be installed.



## Cleaning and Care of the Vehicle

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In operation, your vehicle is subjected to a great amount of varying external influences which, if gone unchecked, can attack the paintwork as well as the underbody and cause lasting damage.

Such damage is caused not only extreme and varying climatic conditions, but also by air pollution, road salt, tar, gravel and stone chipping. Grease and oil, fuel, coolant, brake fluid, bird droppings, tree resins, etc. should be immediately removed to avoid paint damage. Frequent washing, however, reduces and/or eliminates the aggressivity and potency of the above adverse influences.

Special car-care measures may be necessary to deal with unfavorable conditions; for example, near the coast, in industrial areas (smoke,

exhaust emissions), or during winter operation.

You should check over your vehicle from time to time for stone chipping or other damage. Any damage should be repaired as soon as possible.

In doing so, do not neglect the underside of the car. A prerequisite for a thorough check is a washing of the underbody followed by a rustproofing treatment.

Your vehicle has been treated at the factory with a wax-base rustproofing in the body cavities.

After every engine cleaning you should have the engine compartment rustproofed. Before rustproofing, all control linkage bushings have to be lubricated with hydraulic oil (check with your local MERCEDES-BENZ

dealership for recommended brands).

We have selected car-care products and compiled recommendations which are specially matched to our vehicles and which always reflect the newest in technological standing. You can obtain MB car-care products at every MERCEDES-BENZ service center.

Scratches, corrosive deposits, corrosion or damage due to negligent or incorrect care cannot always be removed with the car-care products recommended here. In such cases it is best to seek aid at your MERCEDES-BENZ service center.

The following topics deal with the cleaning and care of your vehicle and give important "how-to" information as well as references to recommended MB car-care products.

### Car Wash

Do not wash the car in the sun. Spray vehicle well with a diffused jet of water. Direct only a weak jet towards the ventilation openings. Use plenty of water and rinse sponge and chamois often. Rinse off vehicle with clear water and wipe dry with chamois.

Do not use solvents (fuels, thinner, etc.) to clean the tail lights.

In the winter, thoroughly remove all traces of road salt as soon as possible.

When washing the car underbody, do not forget to clean the inner sides of the wheels.

### Tar Stains

Quickly remove tar stains before they dry and become more difficult to remove.

### Window Cleaning

Use a window cleaning solution on very dirty or oil-stained windows.

Clean windshield wiper blades with a clean cloth and washing solution. Replace blades once or twice a year.

### Plastic Parts, Rubber Parts and MB-Tex Upholstery Covers

Do not use oil or wax on these parts.

### Seat Belts

The webbing must not be treated with chemical cleaning agents. Use only clear, lukewarm water and soap. Do not dry the webbing at temperatures above 176° F (80° C) or in direct sunlight. Never bleach or re-dye the webbing.

### Steering Wheel and Selector Lever

Use a gentle dish-washing detergent or mild detergent for delicate

fabrics as a washing solution. Wipe with a cloth moistened in lukewarm solution. Do not use scouring agents.

### Upholstery

**Leather:** Wipe leather upholstery with a damp cloth and dry thoroughly. Exercise particular care when cleaning perforated leather as its underside should not become wet.

**Velours:** Pressure marks resulting from dampness and heat may appear to be stains. Such marks can be removed by wiping with a moistened brush, ironing with a wet cloth or by treating with a dry shampoo. Do not sit on damp upholstery. Quick drying is achieved by applying hot air — for example, by using a hair dryer. If in doubt, please consult your MERCEDES-BENZ service station.

## Cleaning and Care of the Vehicle

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### **Paintwork**

Do not apply wax if your car is parked in the sun or if the hood is still hot. For maximum protection, the paintwork should be waxed approximately once every three months. Use the appropriate MERCEDES-BENZ Touch-Up Stick for quick and provisional repairs of minor paint damage.

### **Light Alloy Wheels**

If possible, clean wheels once a week with lukewarm water and auto-shampoo. Use an ample supply of water.

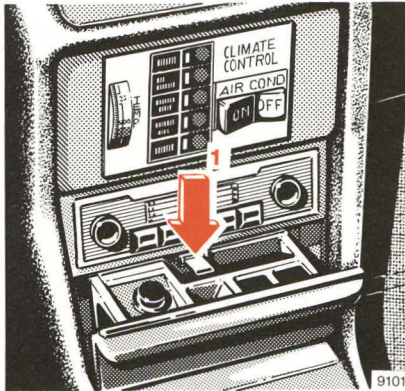
To remove stubborn marks, use polish or paint cleaner and apply with buffing cloth or a soft cloth.

### **Ornamental Moldings (Chrome-Plated, Aluminium)**

For regular cleaning and care of very dirty chrome-plated parts, use a chrome cleaner.

# Practical Hints

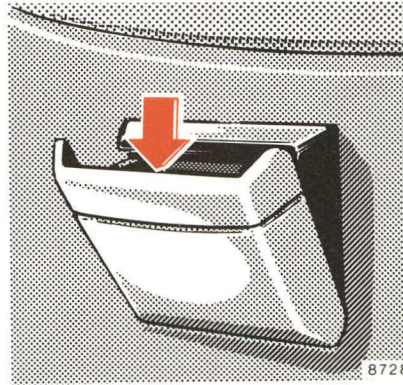
## Practical Hints



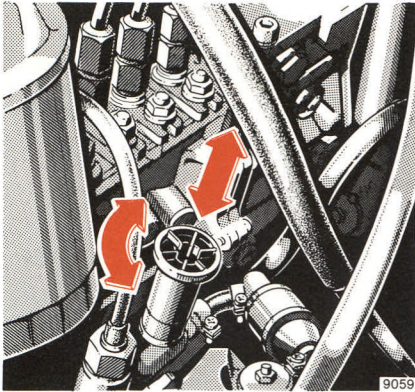
### Ash trays

To remove front ash tray:  
Pull ash tray out as far as possible.  
Push down the spring (1) in the center and remove ash tray.

To install ash tray:  
Position ash tray squarely and push in.



To remove rear ash tray:  
Push the ash tray down while opening and remove.  
To install ash tray:  
Position ash tray squarely and push in.



After refueling, start the engine, engaging the starter for about 20 seconds until all the trapped air has been evacuated.

With a poorly charged battery the system must be bled manually.

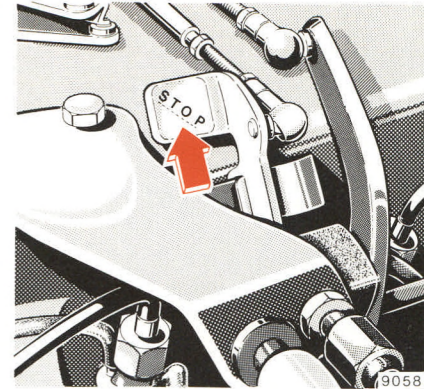
Operate the primer pump until the injection pump overflow valve opens (rattling noise audible).

Disengage primer pump handle prior to operating it (turn counter-clockwise). Retighten after use.

### Bleeding the Fuel System

A completely bled fuel system is imperative for perfect engine operation. During operation, the system is continuously bled via the overflow line.

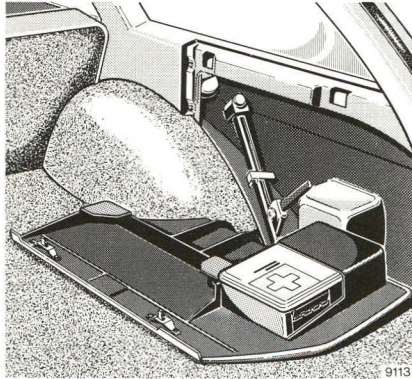
The entire system must be bled when the car has been driven until the fuel tank was completely emptied.



### Turning off Engine Manually

If the engine continues operating in steering lock position "0", open hood and press lever marked "STOP" until the engine stops.

## Practical Hints



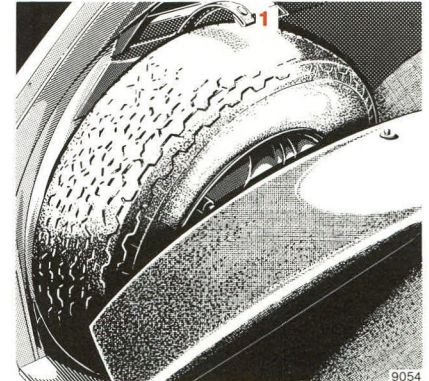
### Jack, Vehicle Tools, First Aid Kit

Jack, vehicle tools and first aid kit are stowed in the cargo space on the RH side behind the panel.

To open the panel, pull handle and fold down panel.

### Note:

The jack is designed exclusively for jacking up the vehicle at the jack tubes provided on either side of the vehicle. Jack stands must be used when working under the vehicle.



### Spare Wheel

The spare wheel is located in the cargo space on the LH side behind the panel.

Open web (1) and lift panel upwards. When attaching the panel, make sure the guide pins engage in the floor of the cargo space.

## **Wheels, Tires**

In case of replacement we recommend you use tires of identical design, version and brand.

See any MERCEDES-BENZ service station for information on tested and recommended wheels and tires for summer and winter operation. They will also offer more advice concerning tire service and purchase.

Mount newly acquired single tires on the front axle. It is advisable to break in new tires over a mileage of approximately 60 miles (100 km) at moderate speeds.

To prevent damage to the valves, vehicles equipped with steel rims must only be driven with the hub caps installed.

For tire specifications, refer to "Technical Data".

### **Rotating wheels:**

The wheels can be rotated according to the degree of tire wear while retaining the same sense of rotation. Rotating, however, should be carried out before the characteristic tire wear pattern (shoulder wear on front wheels and tread center wear on rear wheels) becomes visible at a mileage of 3,000 — 6,000 miles (5,000 — 10,000 km) as otherwise the driving properties deteriorate.

Slowly leaking air (e.g. due to a nail in the tire) may cause damage to the tire such as tread separation.

Regular tire pressure checks at intervals of no more than 14 days are therefore essential. For the tire pressure checks, keep in mind that hot tires show higher pressure than cold tires. See tire pressure chart on last page.

Should the tire pressure decrease constantly, check whether foreign objects have penetrated the tire or if rim or valve allow the air to leak.

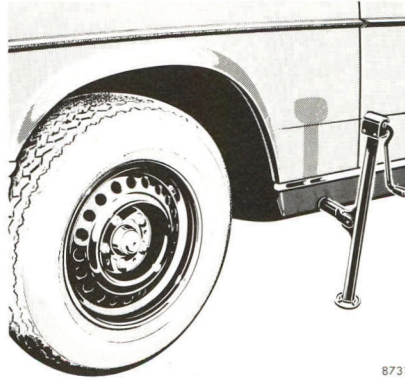
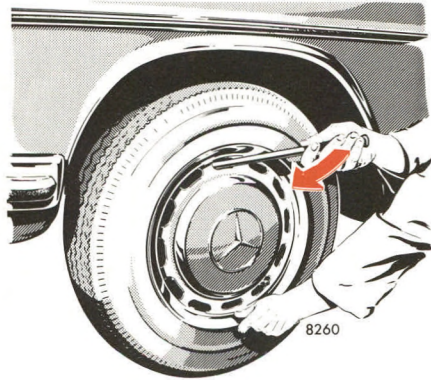
**Caution:** Use longer wheel bolts for light alloy rims than those required for steel rims (see illustration on page 64).

Thoroughly clean the inner side of the wheels any time you rotate the wheels or wash vehicle underside.

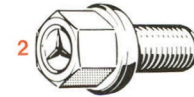
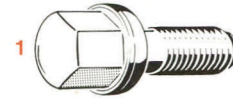
Dented, bent or corroded rims cause tire pressure loss and damage to the tire beads. For this reason, check rims for damage at regular intervals. Derust steel rims and spot paint, if required.

Check rim flanges of light alloy rims for wear prior to mounting a tire. If necessary, remove burrs.





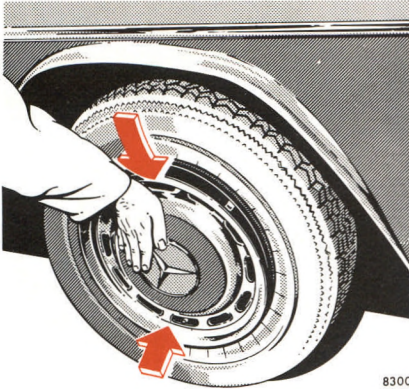
Observe wheel bolts!  
1 For light alloy rims only  
2 For steel rims only



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### Changing Wheels

1. Depress parking brake pedal.
2. Move selector lever to position "P".
3. Safeguard vehicle against rolling off by using chocks or similar. Place chocks under both opposite wheels (on downhill side), on a level road on both sides of the opposite front wheel when changing a rear wheel.
4. Insert the combination wrench in one of the trim ring slots and pry off the hub cap.
5. Using the combination wrench, loosen but do not yet remove the wheel bolts.
6. Clean jack supporting tube, if necessary. (Jack tubes are behind the front wheel housings and in front of the rear wheel housings.)
7. Insert jack arm into the tube hole up to the stop. Position the jack so that it will always be vertical as seen from the side, even on inclines. Jack up the vehicle until the wheel is clear of the ground.
8. Then back out the wheel bolts. Protect bolt threads from dirt and sand. Remove the wheel.
9. Adjust the jack to allow the wheel to be slipped on without being lifted.
10. Slip on wheel (valve down) and press onto the hub plate. Screw in wheel bolts but use only such bolts that suit the particular rim.



11. Lower car and remove jack. Tighten the five bolts evenly by going around the wheel and tightening every other bolt until all the bolts are tight. Observe a tightening torque of 72 ft. lbs. (10 mkp).
12. To install the hub cap, slip the tire valve through one of the slots approx. in the middle between two hub cap mounting clips and press the hub cap

against the wheel flange at this point. Then push the two opposite clips against the rim and seat the hub cap by firmly striking it towards the valve with the flat of the hand.

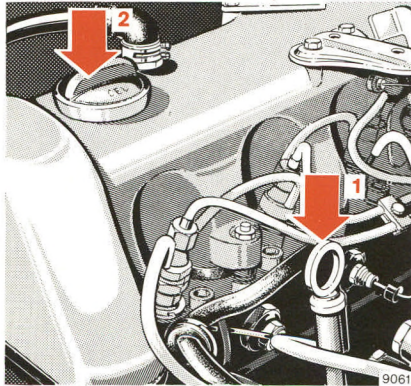
13. Correct tire pressure.

#### **Tire Pressure**

A table (see fuel filler flap or last page) lists the tire inflation pres-

ures specified for summer and winter tires as well as for the varying operating conditions.

Tire temperature and pressure increase with the vehicle speed. Tire pressure should therefore only be corrected on cold tires. Correct tire pressure in hot tires only if pressure has dropped below the data listed in the table and the respective operating conditions are taken into consideration.



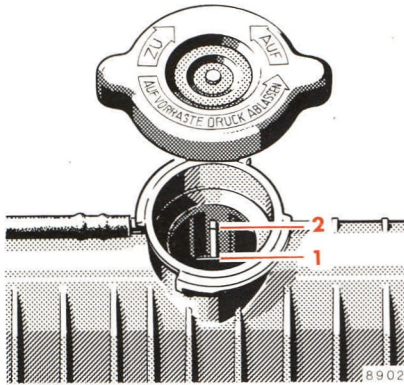
### Engine Oil Level Check

- 1 Dipstick
- 2 Oil filler hole

Check engine oil level at regular intervals, e.g. after refueling, with the engine at operating temperature and shut off.

The vehicle should be parked on level ground and the oil level must be somewhere between the lower and the upper mark on dipstick (1); do not replenish in excess of the upper mark.

For viscosity and capacity, see “Fuels, Coolants, Lubricants, etc., and last page”.



### Replenishing Coolant

The coolant level must reach:

- to marking 1 if the coolant is cold,
- to marking 2 if the coolant is hot.

Do not remove radiator cap if engine temperature is above 194° F (90° C). Allow engine to cool down before removing cap. The radiator contains hot water and is under pressure.

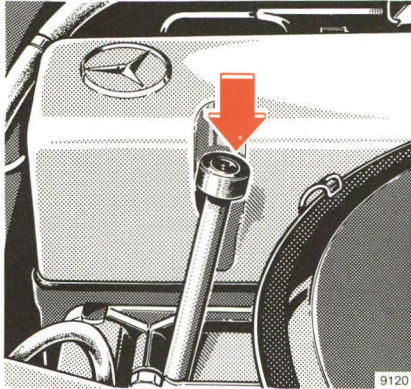
First turn cap to first notch to relieve excess pressure using a rag. If opened immediately, hot scalding fluid and steam will be blown out under pressure.

Add cold water only if engine is running. Both hot and cold engines can be readily filled up with hot water (see also "fuels, coolants, lubricants, etc.", page 85).

If a small amount of coolant has to be added (due to evaporation of water), plain water can be added.

If a larger quantity of coolant has to be added, a 50/50 mixture of water and antifreeze should be used.

The drain plugs are on the RH side of the engine and LH bottom mount of the radiator.



### Fluid Level — Automatic Transmission

At regular intervals, check the fluid level of the automatic transmission together with the engine oil level prior to every long trip, at the latest, however, after every 3,000 miles (5,000 km).

Check transmission fluid level with the engine idling, parking brake engaged and selector lever in position "P". The vehicle must be parked on level ground. Prior to the check, allow engine to idle for approx. 1 to 2 minutes.

Exercise utmost cleanliness! To wipe the dipstick, use a clean and lintless cloth (preferably leather). To fill the transmission with fluid, only pour it through a fine-mesh filter into the dipstick opening. Even the slightest impurity may cause operational troubles.

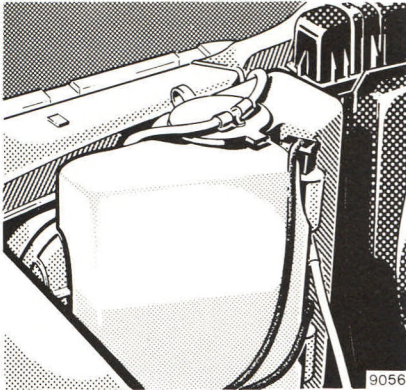
The oil level in the transmission is dependent upon the oil temperature. The maximum and minimum oil level marks on the dipstick are

applicable references only if the transmission fluid has reached its normal operating temperature of 176° F (80° C).

If, however, the transmission fluid cools down to 68 — 86° F (20 — 30° C), which is the normal shop temperature range, then the maximum oil level will be approximately 1.2 in. (30 mm) below the minimum mark on the dipstick.

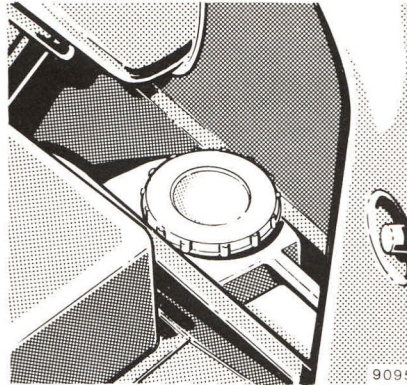
We stress this point because an oil change is normally performed when the transmission oil has cooled down to shop temperature.

The fluid level must not exceed the dipstick maximum mark with the fluid at operating temperature. Drain or siphon off excess fluid, if required.



**Reservoirs for Window Washing Systems**

The reservoir for the windshield washing system is located in the engine compartment.

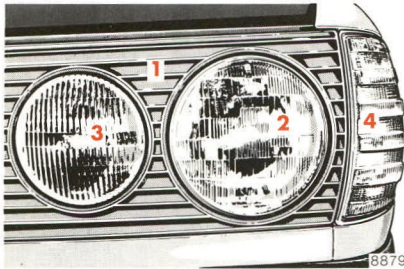


The reservoir for the rear window washing system is located behind the panel on the RH side in the cargo space.

To open the panel, pull handle and fold down panel.

Replenishing reservoir:

Replenish with water blended with windshield detergent. Test function of washing system.

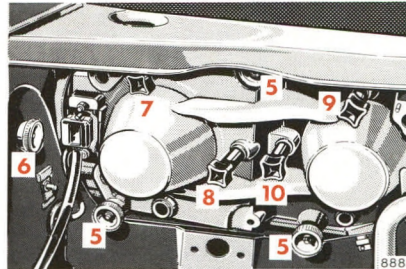


### Replacing Bulbs

To remove, push the bulb in and turn to the left, then lift the bulb out.

To install, grip the bulb with a paper tissue or similar cloth, align the pins on the base of the bulb with the grooves in the bulb socket, push in lightly and turn to the right until the stop is felt.

Install only bulbs of prescribed wattage. Refer to "Technical Data and last page".



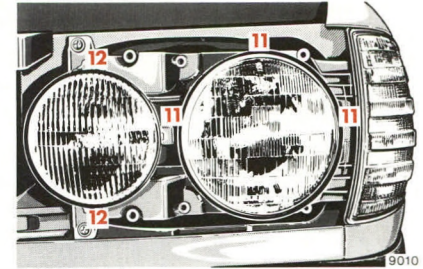
### Headlamp Aiming

Correct headlamp aiming is of paramount importance to the roadworthiness of the car. Check and readjust headlamps at regular intervals and invariably when a lamp has been replaced.

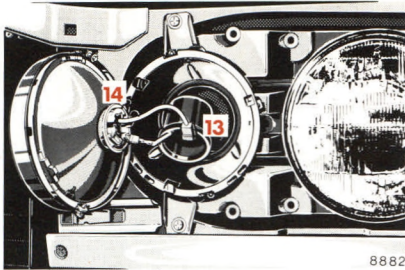
### Front Lamps

(Sealed Beam Version — USA Specifications, Fog Lamp)

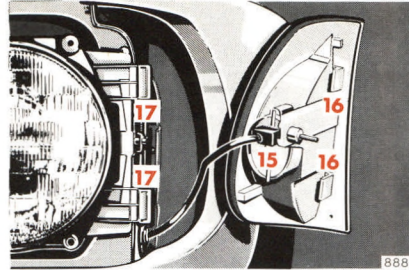
- 1 Cover. Remove cover (1) after backing out knurled plastic nuts located behind headlamps.
- 2 Sealed-beam unit for high and low beam



- 3 Fog lamp
- 4 Turn signal, parking, side marker and standing lamp
- 5 Securing nuts for cover
- 6 Securing nuts for turn signal, parking, side marker and standing lamp
- 7 Vertical aiming screw, sealed-beam unit
- 8 Horizontal aiming screw, sealed-beam unit
- 9 Vertical aiming screw, fog lamp
- 10 Horizontal aiming screw, fog lamp



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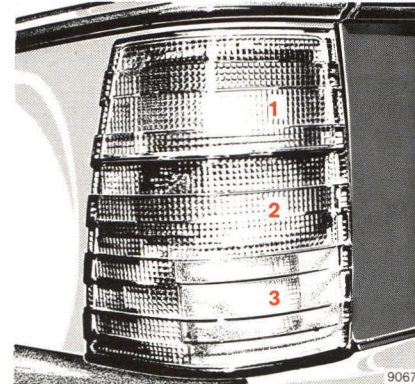
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- 11 Securing screws for sealed-beam unit retaining ring. Loosen securing screws, remove retaining ring and unit. Pull off connector.
- 12 Securing screws for fog lamp retaining ring. Loosen securing screws and take out lamp body. Pull off plug (13). Disengage retaining spring and remove bulb (14).
- 15 Bulb for turn signal, parking, side marker and standing lamp. Loosen fastener (6). Push lamp body forward and detach. Hold lamp holder by

the wide lug and pull out. Depress bulb, turn to the left and take out. When installing the bulb holder, the lugs must engage the lamp body recesses. When installing the lamp body, never fail to engage the locating webs (16) between the retaining springs (17).

#### Tail Lamp Assemblies

- 1 Turn signal lamp
- 2 Stop lamp
- 3 Tail lamp, standing lamp, side marker lamp

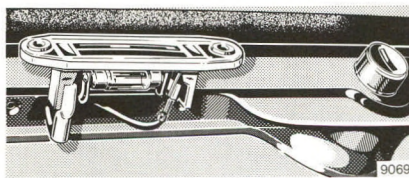
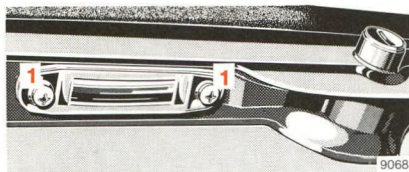


9067

Loosen both securing nuts in the cargo space but do not unscrew completely. Loosen tail lamp assembly by exerting even pressure on both nuts. Unscrew securing screws completely and detach tail lamp assembly. Push up the securing lug of the lamp holder slightly and remove lamp holder. To replace, depress bulb, turn it to the left and pull it out.



## Electrical System

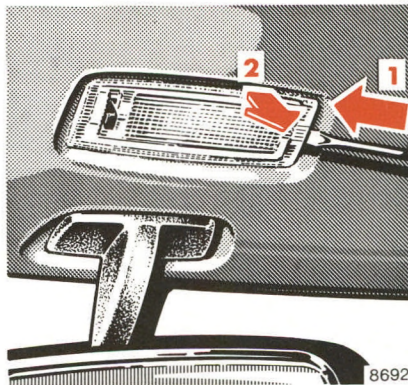


### License Plate Lamps

Loosen both the securing screws (1) and take out lamp.

### Backup Lamps

Loosen securing screws and detach lens. To replace, depress the bulb, turn it to the left and pull it out.



### Courtesy Lamps

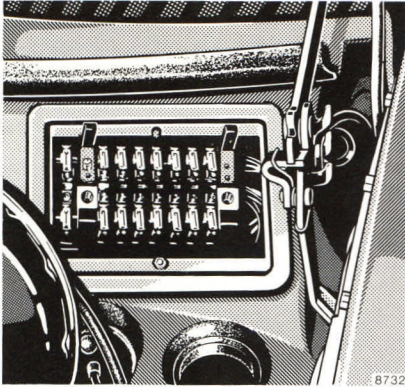
To replace the bulb, press courtesy lamp slightly towards the left (1), lift off at right-hand side (2) and pull out to the right.

The same applies when removing the rear courtesy lamp.



### Glove Compartment Lamp

To replace the bulb, pull out lamp.



### Fuses

The fuse box is located in the engine compartment.

A summary of the protected equipment is printed in the fuse box cover.

Fuse arrangement in the box — starting at engine side, proceeding from inside to outside —

upper row: odd numbers

1, 3, 5 etc. up to 13;

lower row: even numbers

2, 4, 6 etc. up to 14.

Fuses must be replaced, not repaired or bridged.

Spare fuses are stored in the fuse box (observe amperage and color code).

Determine the cause of a short prior to replacing a burned-out fuse.

After replacing a fuse, screw on the fuse box cover firmly.

### Battery

Check the fluid level in the cells from outside approximately every 4 weeks, and more often in summer and in hot zones.

The fluid level must be between the lower and the upper markings.

Only replenish with distilled water. Do not use metal funnels and do not perforate the diaphragm of the battery overflow protection.

The battery is filled to the maximum level when the water level in the cell filling chamber stops going down.

If battery acid is to be extracted for battery diagnosis purposes, perforate the diaphragm with the hydrometer or the tube attached to it.

Coat battery terminal clamps with acidproof grease. Keep battery clean and dry.

Only tow vehicle with the battery connected.

Only charge battery with the rapid charger when it is disconnected from the vehicle circuit.

#### Note:

While the engine is running the battery terminal clamps must not be loosened or detached as otherwise the alternator and other electronic units would be damaged.

## Tow-starting and Towing the Vehicle

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Towing eyes are situated underneath the front and rear end on the RH side.

Use a solid towing link such as a tow-bar.

Tow-start vehicle only with the battery connected.

Caution: Remember, however, that until the engine is running, the power steering and power brakes do not offer assistance and considerable additional effort is required to steer and stop the car.

### **Emergency Engine Start (Tow-starting)**

Turn idle speed adjusting knob counterclockwise to the stop. Shift

selector lever to “N” and turn key in steering lock to position “2”.

Have vehicle towed. Having attained a speed of 18 mph (30 km/h) — cold transmission — or 30 mph (50 km/h) — warm transmission — keep on driving at this speed for approximately 2 minutes to ensure sufficient fluid pressure in the transmission.

To crank the engine, shift selector lever to “S”. Touch the accelerator only when the engine starts firing. As soon as the engine has started, immediately return selector lever to “N”. Adjust idle speed. It is important to allow the engine to idle for at least 3 minutes before starting off because

the preglowing process starts when the key is in steering lock position “2” and is not immediately disrupted after the engine has been tow-started. During this time the preglowing process is cut out automatically.

If the engine has not fired after a few seconds, shift the selector lever from “S” to “N” to protect the transmission from damage.

For a new starting attempt, tow-start the vehicle for some time again with the selector lever in position “N” and repeat the starting procedure.

The same method can be used to start the engine in emergencies when rolling downhill.

## Tow-starting and Towing the Vehicle

### Starting the Engine with Jumper Cable (35 mm<sup>2</sup> Minimum Cable Cross Section) and Auxiliary (Booster) Battery

Connect positive (+) terminal of auxiliary battery to positive terminal of car battery and negative (-) terminal of the auxiliary battery to the negative terminal of the car battery. If the battery of another vehicle is used, the engine of the other car should be run at high idle. After the engine has started, first disconnect the negative terminal and then the positive terminal.

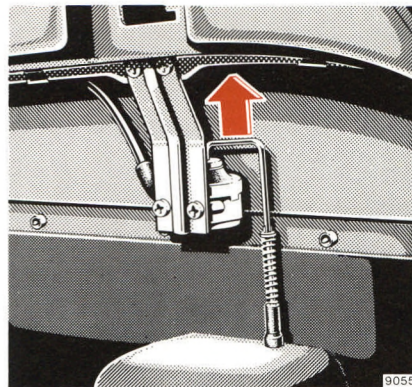
If the engine is started with charging equipment, the battery must be connected.

### Towing a Vehicle

The vehicle may be towed with the driving wheels on the ground and the selector lever in position "N" for distances up to 75 miles (120 km) and at a speed not to exceed 30 mph (50 km/h).

To positively avoid a possibility of damage to the transmission, however, we recommend to disconnect the drive shaft at the rear axle drive flange on any towing beyond a short tow to a nearby garage.

## Unlocking of the Filler Flap



If the fuel filler flap cannot be opened in a vehicle locked with the master lock system, pull handle in panel and fold down panel. Then pull up the linkage rod of the vacuum element.



**Technical Data  
Fuels Coolants  
Lubricants etc.**

## Identification Plates Vehicle Data Cards

When ordering spare parts, please quote chassis and engine numbers.

The vehicle data cards bear all the important data relating to your vehicle.



9121

- 1 Certification Tag (left door pillar)
- 2 Identification Tag (left window post)
- 3 Chassis No.

- 4 Body No. and Paintwork No.
- 5 Engine No.
- 6 Emission Control Tag
- 7 Emission Control Tag Catalyst Information

78

Data card No. 1 bears the key number and should on no account be left in the vehicle. Submit this card to your MERCEDES-BENZ service station to request a replacement key in case of loss.

9073

The production data card bears no key data and is kept in the maintenance booklet. Presenting this card to the service station will facilitate the processing of the order.

9072

Type ..... 300 TD (123 190)<sup>1</sup>

**Engine**

Engine type ..... 617  
 Work cycle ..... Diesel four stroke  
 No. of cylinders ..... 5  
 Bore ..... 3.58 ins. (90.9 mm)  
 Stroke ..... 3.64 ins. (92.4 mm)  
 Total piston displacement ..... 183.0 cu. ins.  
 (2,998 cm<sup>3</sup>)  
 Compression ratio ..... 21  
 Output acc. to SAE ..... 77 net bhp/4,000 rpm  
 Valve clearance } Intake ... 0.004 in. (0.10 mm)  
 (cold engine) } Exhaust .. 0.012 in. (0.30 mm)  
 Injection order ..... 1 - 2 - 4 - 5 - 3

V-belts:

Water pump — fan — alter-  
 nator ..... 9.5 x 980 mm  
 Power steering ..... 12.5 x 1,150 mm  
 Air conditioning ..... 12.5 x 1,350 mm

**Transmission**

Design ..... Automatic four-speed  
 torque-converter  
 transmission

**Steering System**

Design ..... Power steering

**Rims — Tires**

Rims ..... 6 J x 14 H 2  
 Summer tires:  
 Radial-ply tires ..... 195/70 SR 14  
 Winter tires:  
 Radial-ply tires ..... 195/70 SR 14 M + S

**Electrical System**

Alternator ..... 14 V / 55 A  
 Starter motor ..... 12 V / 2.0 kW  
 Battery ..... 12 V / 88 Ah

<sup>1</sup> The quoted data apply only to the standard vehicle. See a MERCEDES-BENZ service station for the corresponding data of all special bodies and special equipment.



## Technical Data

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<b>Bulbs</b> .....	12 V
High and low beams .....	Sealed beam
Fog lamps .....	H 3
Turn signal, clearance and side marker lamps, front ....	21/5 W (32/3 cp)
Stop lamps .....	21 W (32 cp)
Turn signal lamps, rear .....	21 W (32 cp)
Tail, standing and side marker lamps, rear .....	10 W (6 cp)
Backup lamps .....	21 W (32 cp)
License plate lamps .....	5W festoon lamp
Interior lamps .....	10 W festoon lamp
Glove compartment lamp ....	5 W festoon lamp

## Main Dimensions

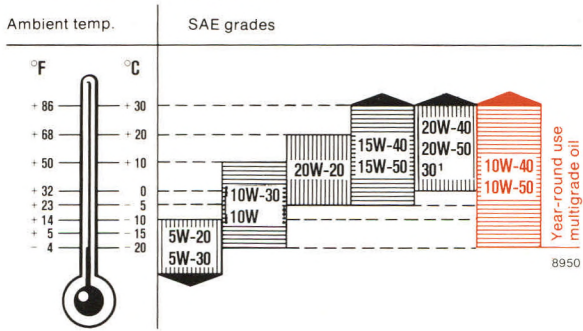
Overall vehicle length .....	190.9 ins. (4,848 mm)
Overall vehicle width .....	70.3 ins. (1,786 mm)
Overall height (curb condition)	57.9 ins. (1,470 mm)
Wheel base .....	110.0 ins. (2,795 mm)
Track, front .....	58.6 ins. (1,488 mm)
Track, rear .....	57.2 ins. (1,453 mm)

**Weights** ..... See certification tag

Vehicle components and their respective lubricants must match.

Therefore use only brands tested and recommended by us.

Enquire at your MERCEDES-BENZ service station.

	Capacity	Fuels, coolants, lubricants, etc.
Total oil capacity in case of engine oil and filter change	7/5.7 US/Imp. qts. (6.5 l)	<p>Recommended engine oil</p>  <p>Ambient temp.   SAE grades</p> <p>°F   °C</p> <p>+86   +30 +68   +20 +50   +10 +32   0 +23   5 +14   10 +5   15 -4   20</p> <p>5W-20, 5W-30, 10W, 10W-30, 20W-20, 15W-50, 15W-40, 20W-40, 20W-50, 30<sup>1</sup>, 10W-40, 10W-50</p> <p>Year-round use multigrade oil</p> <p>8950</p> <p><sup>1</sup> SAE 40 may be used if ambient temperatures constantly exceed +86° F (+30° C).</p>
Total oil capacity in case of engine oil change without filter replacement	5.2/4.4 US/Imp. qts. (5.0 l)	
Automatic transmission	Initial fill: 6.4/5.4 US/Imp. qts. (6.1 l) Fluid change: 5/4.2 US/Imp. qts. (4.8 l)	Automatic transmission fluid (ATF)
Rear axle	2.1/1.8 US/Imp. pts. (1.0 l)	Hypoid gear oil SAE 90
Level control	3.7/3.1 US/Imp. qts. (3.5 l)	Hydraulic oil

**Fuels Coolants Lubricants etc. Capacities**

	Capacity	Fuels, coolants, lubricants, etc.
Accelerator control linkage		Hydraulic fluid
Power steering	3.0/2.5 US/Imp. pts. (1.4 l)	Automatic transmission fluid (ATF)
Front wheel hubs	2.1 oz each approx. (60 g each approx.)	Multipurpose or antifriction bearing grease
Grease nipples		Multipurpose or lubrication grease
Door locks		Special grease
Battery terminals		Bosch special grease
Brake reservoir	1.1/0.9 US/Imp. pts. (0.5 l)	Brake fluid
Windshield washer system	approximately 3.2/2.6 US/Imp. qts. (3.0 l)	Water plus windshield detergent
Rear window washer system	approximately 2.6/2.2 US/Imp. qts. (2.5 l)	
Fuel tank including a reserve of	approximately 18.5/15.4 US/Imp. gal. (70 l) approximately 2.9/2.4 US/Imp. gal. (11 l)	Diesel fuels acc. to ASTM D 975 grades 1 and 2 as well as VV-F-800 a grades 1 and 2
Cooling system	11.6/9.6 US/Imp. qts. (11 l)	Coolant

### **Engine Oils**

Engine oils are specifically tested for their suitability in our engines. Therefore, use only engine oils recommended by us. Information on recommended brands is available at any MERCEDES-BENZ service station.

A new or reconditioned engine is filled with an initial operation oil in

the factory or in a MERCEDES-BENZ service station. This oil is specially developed for the specific operating conditions during the first 300 — 600 miles (500 — 1,000 km).

A recommended engine oil may be used for topping up if the oil level drops of the dipstick minimum mark prior to the first service 300 — 600 miles (500 — 1,000 km).

### **Brake Fluid**

Brake fluid should be changed once a year, preferably in spring. Only use brake fluid recommended by us. For further information, refer to "Safe Driving".

### Diesel Fuels

Use only commercially available vehicular diesel fuels No. 2 or No. 1 (ASTM D 975 No. 2-D or No. 1-D).

Change engine oil in compliance with section "Engine Oil Change and Oil Filter Service" if diesel fuels are used whose sulphur content exceeds 0.5 % by weight. Marine diesel fuel, heating oil or the like must not be used.

At very low temperatures the fluidity of No. 2-D diesel fuel may become insufficient due to paraffin separation.

To avoid malfunctions, No. 2-D diesel fuel of a lowered cloud point are marketed during the cold season.

If winter diesel fuel is used, there will hardly be any malfunctions at outside temperatures reaching as low as +3° F (-16° C).

Varying with the temperature, add a certain quantity of kerosene, if only No. 2-D summer diesel fuels or less cold resistant winter diesel fuels are available or if temperatures drop below +3° F (-16° C).

If regular gasoline does have to be added, its proportion should not exceed 30 %. Premium fuels are not to be used.

Engine power may drop according to the proportion of supplementary fuel.

For this reason, keep percentage of fuel added to the minimum necessitated by the ambient temperature. Even at ambient temperatures of less than -8° F (-22° C) the proportion of supplementary fuel (kerosene) must not exceed 50 %.

The following table can be used as a reference, if it becomes necessary to add kerosene to No. 2-D diesel fuel. The mixing ratios shown refer to the total mixture based on No. 2-D summer diesel fuel. We recommend not to exceed the mixture ratio, dependent on prevailing temperatures.

Ambient temperature	No. 2-D Summer diesel fuel %	Supplementary fuel %
+32° F to +14° F (0° C to -10° C)	70	30
+14° F to +5° F (-10° C to -15° C)	50	50

The adding of supplementary fuel to No. 1-D diesel fuel is not recommended even at low ambient temperatures.

### Coolants

The coolant is a mixture of water and antifreeze. In production, the cooling system is filled with an antifreeze-water mixture offering protection to approx.  $-22^{\circ}\text{F}$  ( $-30^{\circ}\text{C}$ ). The red mark on the temperature gauge in the instrument cluster is matched to this antifreeze-water mixture (approx. boiling point  $257^{\circ}\text{F}/125^{\circ}\text{C}$ ). The protection against corrosion is also ensured by this mixture making it unnecessary to add a corrosion inhibitor.

The coolant remains in the cooling system all year round and must be renewed after 2 years at the latest. This applies also to trailer operation, hard driving and to vehicles driven in tropical countries.

If coolant has leaked from the cooling system, replace the missing quantity with water and a recommended brand of antifreeze. For normal replenish-

ment (due to evaporation of water) plain water will do.

The water should be clean, soft to medium soft and contain the minimum amount of scale forming minerals (potable water quality).

The coolant mixture should always contain enough antifreeze to ensure protection to a minimum of  $-4^{\circ}\text{F}$  ( $-20^{\circ}\text{C}$ ).

If antifreeze is not available, add a corrosion inhibitor to the cooling water to ensure proper protection against corrosion. To treat the cooling water, do not use more than 1 % (10 cu cm/l) of a recommended corrosion inhibitor.

Without antifreeze in the cooling system, the water already starts boiling at approx.  $224^{\circ}\text{F}$  ( $118^{\circ}\text{C}$ ), which means that the pointer of the temperature gauge in the instrument cluster may still be below the red mark.

### Antifreeze

Prior to the onset of the cold season, check the coolant for its resistance to cold. Repeat this check during the cold spell. Regular testing of the antifreeze concentration is carried out only at each MERCEDES-BENZ maintenance service.

To prevent damage to the cooling system, fill only with recommended brands of antifreeze.

Any MERCEDES-BENZ service station will readily advise you on recommended antifreeze brands.

Protection up to	Antifreeze
$-4^{\circ}\text{F}$ ( $-20^{\circ}\text{C}$ )	3.7/3.3 US/Imp. qts. (3.75 l)
$-22^{\circ}\text{F}$ ( $-30^{\circ}\text{C}$ )	5.3/4.4 US/Imp. qts. (5.0 l)
$-40^{\circ}\text{F}$ ( $-40^{\circ}\text{C}$ )	6/5.1 US/Imp. qts. (5.75 l)

## Service Literature

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Customers who are interested in ordering service literature for their vehicles are advised to contact our subsidiaries in the U.S. or Canada at the following addresses, respectively

for U.S.A.: Mercedes-Benz of N.A. Inc.  
One Mercedes Drive  
P.O. Box 350  
Montvale, New Jersey 07645  
Att: Technical Publications  
Tel: (201) 573-0600

for Canada: Mercedes-Benz of Canada  
849 Eglinton Ave., East  
Toronto 17, Ont., Canada  
Att: Service Department  
Tel: 416-425-3550

The above companies will be happy to handle any such requests from customers.

We consider this to be the best way in obtaining accurate information for your vehicle.





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We reserve the right to modify the technical details of the vehicle as given in the data and illustrations of this Owner's Manual (s.e.e.o.). Reprinting, translation and copying, even of excerpts, is not permitted without our prior authorization in writing.

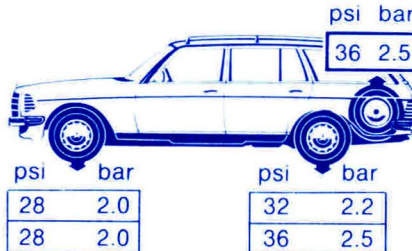
ZKD/IV.79.2./PVL

- **Fuel:** Diesel fuels acc. to ASTM D 975, grades 1 and 2 as well as VV-F-800 a grades 1 and 2. Fuel tank capacity approx. 18.5/15.4 US/Imp. gal. (70 l), this includes a 2.9/2.4 US/Imp. gal. (11 l) reserve.
- **Engine Oil:** Year-round multigrade oils 10 W-40/10 W-50. For further information, refer to page 81.  
Quantity differential between upper and lower dipstick marking level: 3.2/2.6 US/Imp. pts. (1.5 l).
- **Automatic Transmission:** Automatic transmission fluid (ATF). For level checks and replenishment, refer to page 68.
- **Coolant:** For normal replenishment, use water (potable water quality). For further information (e.g. antifreeze), refer to page 85.
- **Bulbs:** High and low beams: Sealed beam, tail and standing lamps 10 W (6 cp), turn signal, clearance and side marker lamps, front 21/5 W (32/3 cp), turn signal lamps, rear 21 W (32 cp), stop lamps 21 W (32 cp). For further information, refer to "Technical Data".

- **Tire Pressure:**  
For driving up to 100 mph (160 km/h)

Cold tires:

Partial load:	psi	bar
	28	2.0
Maximum load:	28	2.0



Warm tires:

- after low-speed operation  
+4 psi (+0.3 bar)
- after high-speed operation  
+8 psi (+0.5 bar)



Mercedes-Benz  
**service**

Daimler-Benz AG Stuttgart-Untertuerkheim Zentralkundendienst  
123 584 02 97 6500 5062 USA-Ausgabe A/1 1979