



GLOBAL CRANE TRAINING

AC200-1 OPERATION

Crane Chassis & Cab



Crane Chasis & Cab Content



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Crane Chassis

The AC 200-1 is available in different versions depending on customer wishes / regulations in force in the country where the crane is to be operated.

Figure 1 shows the 5-axle standard version.

Figure 2 shows the AC 200-1 L with long wheel base (between axles 3 and 4).

Figure 3 shows the 6-axle version (AC 200-1 P).

Figure 4 shows the 6-axle version with additional axle (AC 200-1 PT).

Dimensions, Weights

Total length of the crane vehicle

- * A1 = 14.46 m (47.4 ft)
- * A2 = 14.47 m (47.5 ft)
- * A3 = 14.47 m (47.5 ft)
- * A4 = 15.97 m (52.4 ft)

Total height of the crane vehicle

- * Height B = 4.00 m (13.1 ft)

Width of the crane vehicle

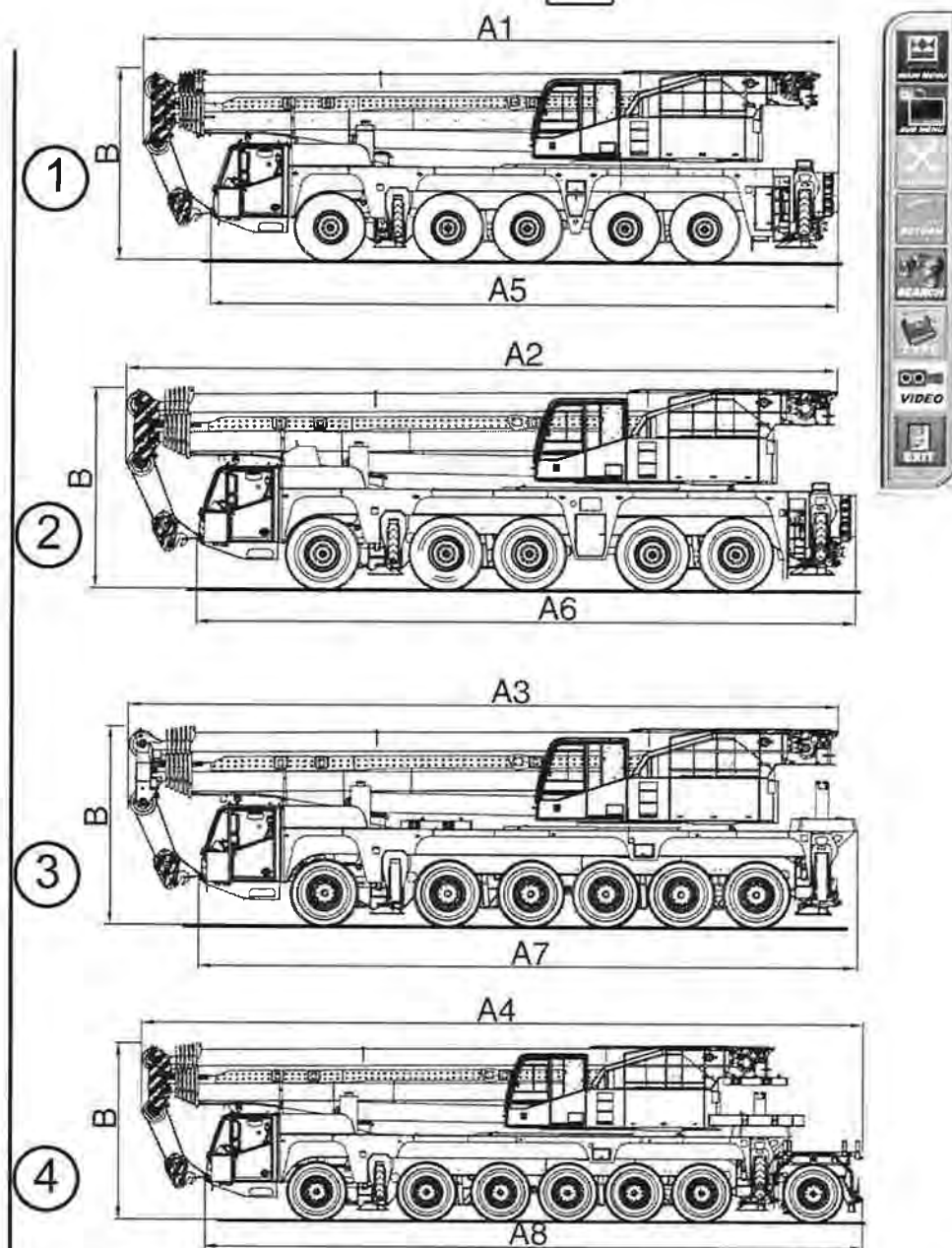
- * Width = 3.00 m (9.8 ft)

Length of the crane chassis

- * A5 = 13.0 m (42.7 ft)
- * A6 = 13.0 m (42.7 ft)
- * A7 = 13.0 m (42.7 ft)
- * A8 = 14.5 m (47.6 ft)

Angle of gradient (without outrigger plate)

| | front | rear |
|---------------------|-------|------|
| 5-axle (AC200-1) | 20° | 11° |
| 5-axle (AC200-1 L) | 20° | 13° |
| 6-axle (AC200-1 P) | 21° | 17° |
| 7-axle (AC200-1 PT) | 21° | 19° |



Turn radius “5-axle standard version (AC200-1)”

- * Interior: 5.71 m (18.7 ft)
- * Chassis cabin, exterior: 11.05 m (36.3 ft)
- * Boom head, exterior: 11.31 m (37.1 ft)

Turn radius “5-axle version with long wheel base (AC 200-1 L)”

- * Interior: 6.13 m (20.1 ft)
- * Chassis cabin, exterior: 11.55 m (37.9 ft)
- * Boom head, exterior: 11.71 m (38.4 ft)

Turn radius “6-axle version (AC 200-1 P)”

- * Interior: 6.60 m (21.7 ft)
- * Chassis cabin, exterior: 12.10 m (39.7 ft)
- * Boom head, exterior: 12.24 m (40.2 ft)

Turn radius “6-axle version with additional axle (AC 200-1 PT)”

- * Interior: 6.90 m (22.6 ft)
- * Chassis cabin, exterior: 12.35 m (40.5 ft)
- * Boom head, exterior: 12.51 m (41.0 ft)

Total weight

Road travel condition

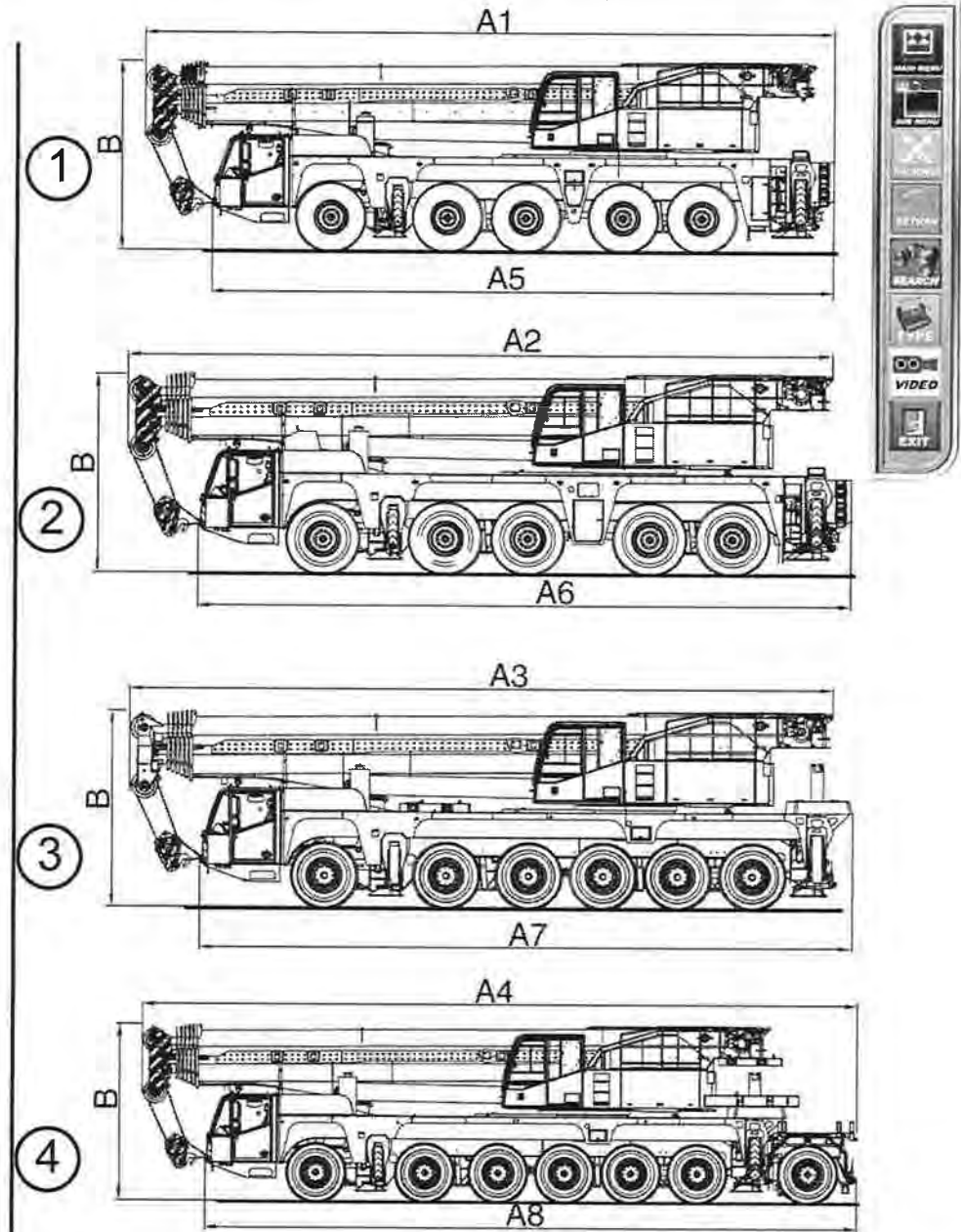
5-axle (AC200-1 / AC200-1 L) 60 t (132.3 kip)

6-axle (AC200-1 P) 72 t (158.7 kip)

7-axle (AC200-1 PT) 84 t (185.2 kip)

Axle loads

- * in road travel condition: each 12 t (26.4 kip)



Road Performance

Speed

* highest speed technically possible (due to design): 80 km/h (50 mph)

* Permitted speed:

Depending on the axle load and tires, various permitted maximum speeds result.

Drive

Engine

DAIMLERCHRYSLER, Type OM 502 LA

8-cylinder diesel engine, water-cooled

Output: 390 kW (523 HP)

Torque: 2400 Nm (1770 lbf-ft)

Certification: EUROMOT 3a, TIER 3, CARB; 94/4/EC (ATAX Directive) and EN1834-2

Transmission

ZF-AS TRONIC type 16 AS 2601 IT

automatic transmission

16 forward gears, 2 reverse gears

Distributor gear

with road travel and terrain driving, fitted emergency steering pump

Axles

All axles have one tire

Axles, Drive: 5-axle version

* Axle A1: not driven, steered

* Axle A2: driven, steered

* Axle A3: drive can be activated, not steered

* Axle A4: driven, independently steered

* Axle A5: driven, independently steered

Axles, Drive: 6-axle version

* Axle A1: not driven, steered

* Axle A2: driven, steered

* Axle A3: drive can be activated, not steered

* Axle A4: not driven, independently steered

* Axle A5: driven, independently steered

* Axle A6: driven, independently steered

Axles, Drive: 7-axle version

* Axle A1: not driven, steered

* Axle A2: driven, steered

* Axle A3: drive can be activated, not steered

* Axle A4: not driven, independently steered



| Tires | 385/95 R 25 (14.00 R 25) | 445/80 R 25 (17.5 R 25) | 445/95 R 25 (16.00 R 25) | 525/80 R 25 (20.50 R 25) |
|-------|-----------------------------|----------------------------|-----------------------------|-----------------------------|
| Rim | 9.50-25/1.7 | 14-25/1.7 CR | 11-25/1.7 | 17-25/1.7 |

steered

Wheels / Tires

Overview of the Crane Chassis

- 1 Driver's cab
- 2 Front frame
- 3 Slew ring
- 4 Rear frame
- 5 Front back stop
- 6 Wheels / tires, axles 1-5 (or 1-6 for 6-axle design)
- 7 Rear back stop
- 8 Spare wheel (optional)
- 9 Additional axle (optional)

Chassis and Construction Number

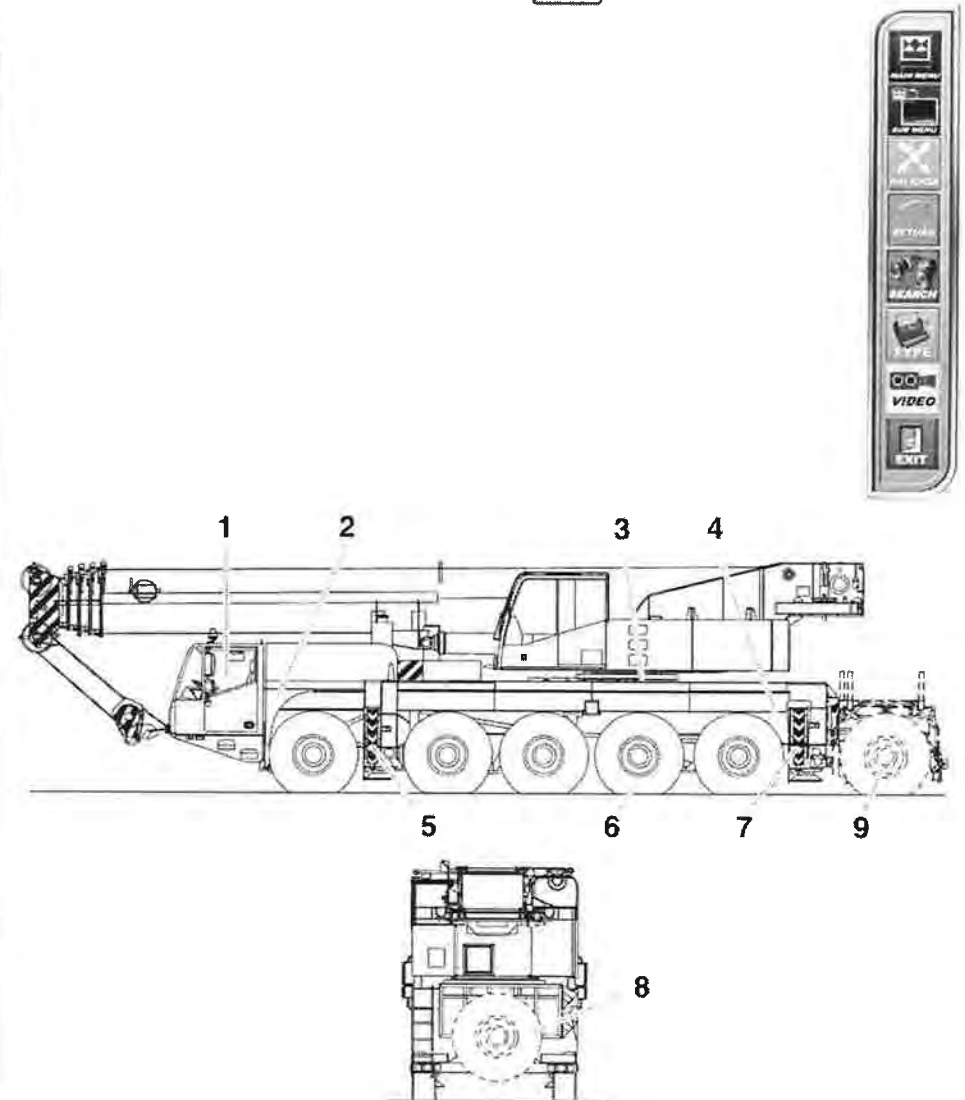
The chassis number is on the chassis frame – in the front on the right – hand side of the crane – in the area of the front outrigger section.

The construction number is to be found (punched):

- on the rear of the vehicle, on the right-hand side.
- on the front bumper brace next to the trailer coupling

The chassis and construction numbers are also engraved on the serial plate.

The serial plate is located inside the driver's cab (driver's / passenger door).



Preparation for Emergency Control, Superstructure

The following hydraulic connections are located on the left side of the chassis between axle 2 and 3:

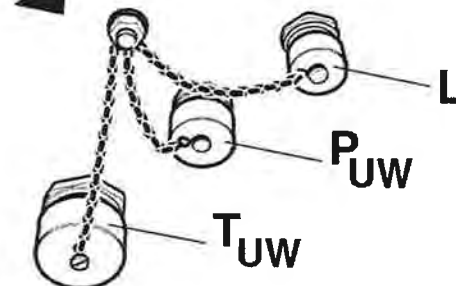
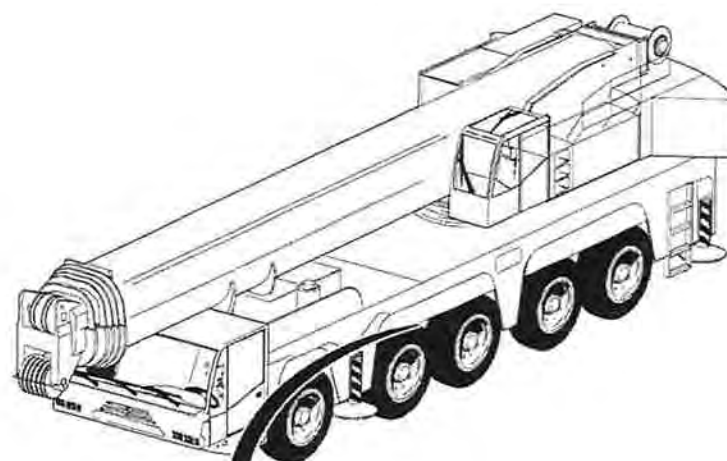
- 1 Connection L_{UW} (leakage)
- 2 Connection T_{UW} (tank)
- 3 Connection P_{UW} (pressure oil)

If the superstructure power units break down, a hydraulic transformer can be connected at these points, which enables limited superstructure functions.

For exact details, see Emergency Operation section.

The hydraulic connections 1 – 3 may only be used with a hydraulic transformer.

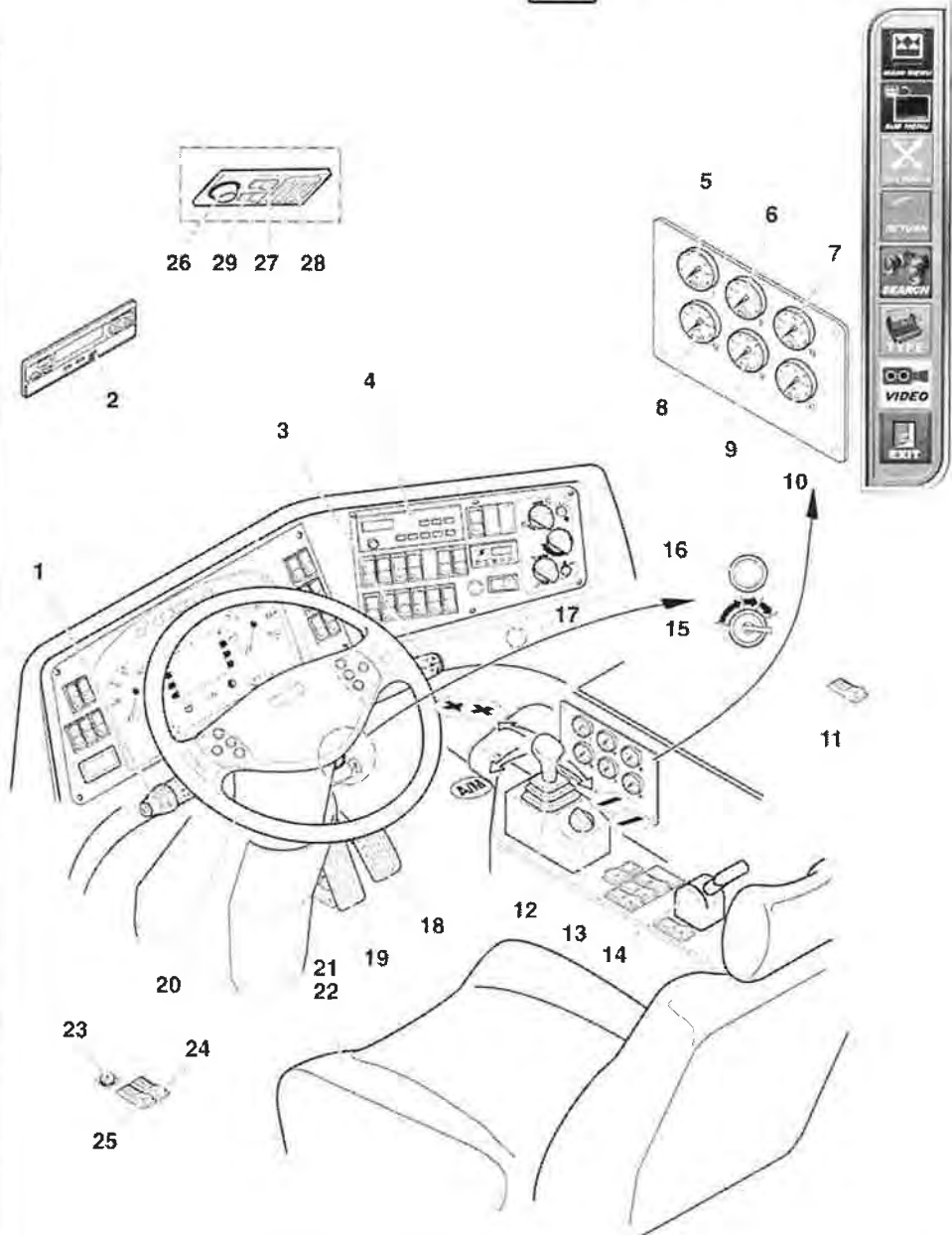
A direct connection to the superstructure hydraulic system is not permitted as there is no capacity for this in the oil tank.



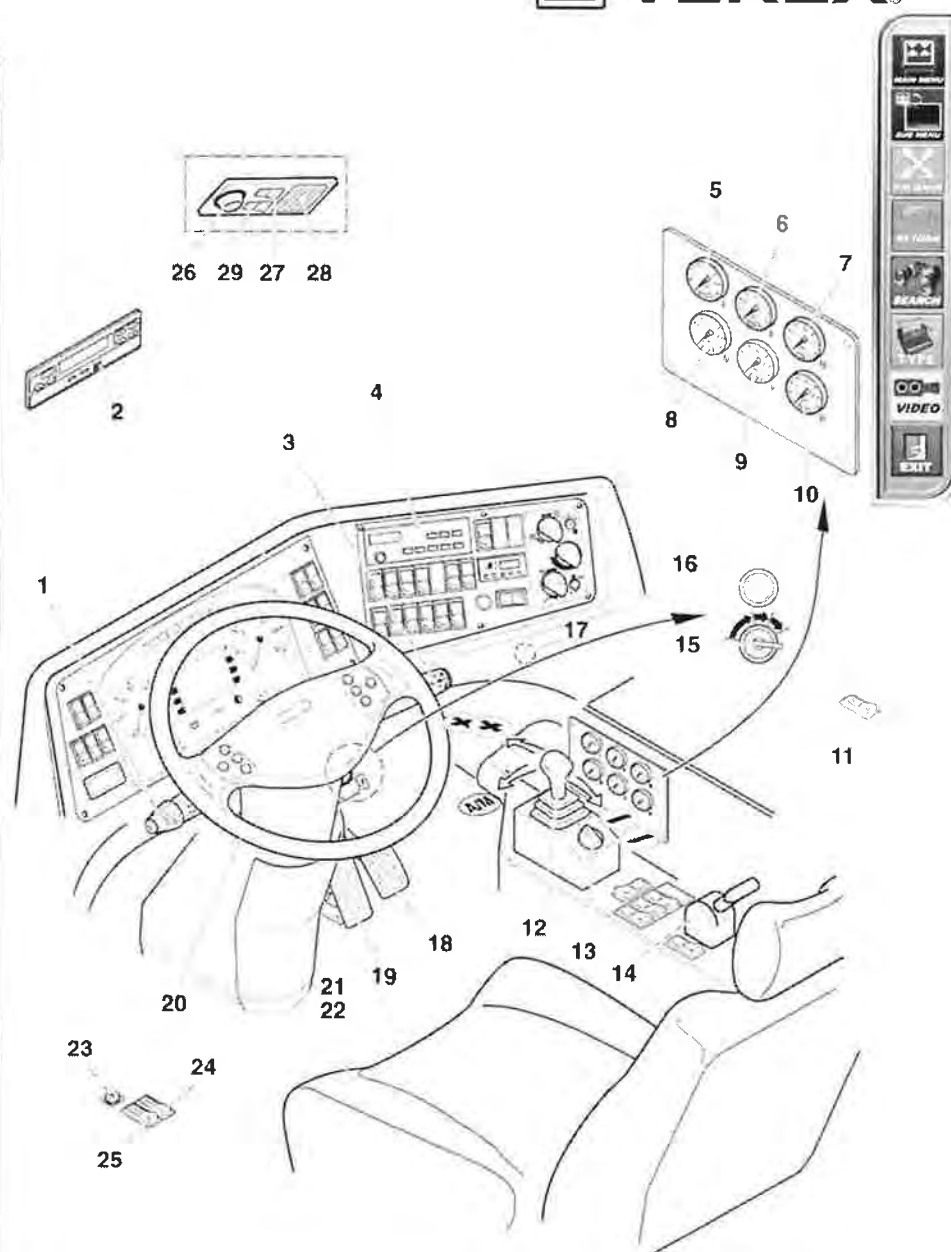
Driver's Cab

| No. | Designation | Function |
|-----|--|---|
| 1 | Combination switch, on the left of the steering column (S 6115) | Lower beam, upper beam, headlamp flash, indicators, wipers, windscreen washer, horn |
| 2 | EU Tachograph (A 5320) | Tachograph Display basic with time, speed, mileage. (Observe the operating instructions of the manufacturer.) |
| 3 | Combination switch, on the right of the steering column (S 4120) | Engine control (engine idle speed, cruise control, limiter) Retarder (engine brake, retarder, retarder cruise control) |
| 4 | Autoradio (A 5511) | |
| 5 | Pressure gauge | Pressure display axles 1 and 2, right |
| 6 | Pressure gauge | Pressure display* axle 3, right |
| 7 | Pressure gauge | Pressure display* axles 4, 5, (6), right |
| 8 | Pressure gauge | Pressure display axles 1 and 2, left |
| 9 | Pressure gauge | Pressure display* axle 3, left |
| 10 | Pressure gauge | Pressure display* axles 4, 5, (6), left |
| 11 | Dual button (S 5192) | Window passenger side (controls in passenger door trim) |
| 12 | Switch lever (toggle) (A 2211) | Gear shifting high / back Manual / automatic operating mode |
| 13 | Rotary switch (A 2211) | F = Forwards / B = Backwards / N = Neutral (in position "N" = switch lever without function) |

* Separate (different) pressure display, when axle 3 is in its raised condition; otherwise the same display values with axle 4 and 5 (5-axle basic unit) or axle 4, 5 and 6 (6-axle basic unit).



| No. | Designation | Function |
|-----|------------------------------------|--|
| 14 | Lever | Parking Brake |
| 15 | Ignition-starter switch (S 1271) | Ignition on / off Engine start / engine stop Standby start external |
| 16 | Push button, pneumatic | Steering wheel control Steering wheel unlocking / locking |
| 17 | Alarm buzzer (H 1336) | one-time warning signal = malfunction ("Caution" (36) lights up) repeating warning signals = serious malfunction ("STOP" (35) lights up) |
| 18 | Accelerator pedal | Speed adjustment |
| 19 | Brake pedal | Foot brake |
| 20 | Steering wheel | |
| 21 | Driver's seat | |
| 22 | Safety belt | |
| 23 | Rotary / rocker switch (S 5435) | Outside mirror adjustment Driver's side / passenger side |
| 24 | Dual button (S 5192) | Window passenger side (Controls in driver's door trim) |
| 25 | Dual button (S 5191) | Window driver's side (controls in driver's door trim) |
| 26 | Reading light | |
| 27 | Switch for reading light (E 6614) | push forward = reading light off push back = reading light on |
| 28 | Interior light | |
| 29 | Switch for interior light (E 6614) | push forward = interior light off push back = interior light on (lights up when door is opened, goes out when door is closed) |



Ignition starter switch (15)

Position "1": All users are separated from the battery, except: tachograph, radio. Engine stop after external starting procedure. Removable key.

Position "2": Ignition standby for external starting procedure. Removable key.

Position "3": Driving position

The ignition is switched on. Blower can be switched on.

Position "4": Starting position The engine starts.

- **Only remove the key when the vehicle is stationary.**
- **Even if you are leaving the vehicle for a short time remove the key to prevent unauthorized persons starting the vehicle.**
- **When stowing/parking the vehicle, only remove the key in position "2".**

Steering wheel setting

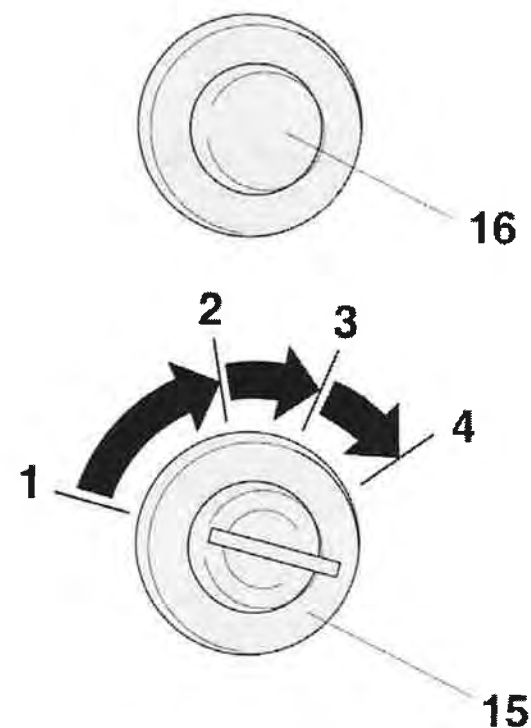
Both the height and tilt of the steering wheel can be adjusted. The steering wheel is pneumatically released (or locked according to the setting).

Steering wheel is set as follows:

- Stop the vehicle and engage the parking brake.
- Hold the steering wheel and press the push button (16).
- Hold the push button (16) down and set the steering wheel.
- After the steering wheel has been set, release the push button (16).

Only set when the vehicle is standing still and the parking brake is set.

Always hold the steering wheel when making settings, since otherwise the seat will rebound when pressing the push button (16) and you could be caught between the steering wheel and the seat.



Instrument controls (assignment overview)

Driver information system

The operator's platform is equipped with a driver information system. This provides the driver with important information on the vehicle when it is in driving mode.

The driver information system consists of the instrument panel (with the pos. **31 – 58**) and the function buttons **60 – 67** on the steering wheel.

The "Driver information" system (**43**) display is in the middle of the instrument panel.

To the left of the instrument panel, there is another display "Transmission information" (**75**) which displays the transmission functions / gear display / error messages).

Self test

The electrical system performs a self test when the ignition is switched on; the most important signal connections are checked. At the same time, a control signal sounds twice and all indicator lights (**31–40** and **50.1**) flash.

The function control is ended after the control signals go out.

The "CH" display appears on the "Transmission information" (**75**) display.

Function buttons on the steering wheel

The function buttons (**60–67**) are used for navigating in the menu structure of the driver information system and for confirming, acknowledging or hiding messages.

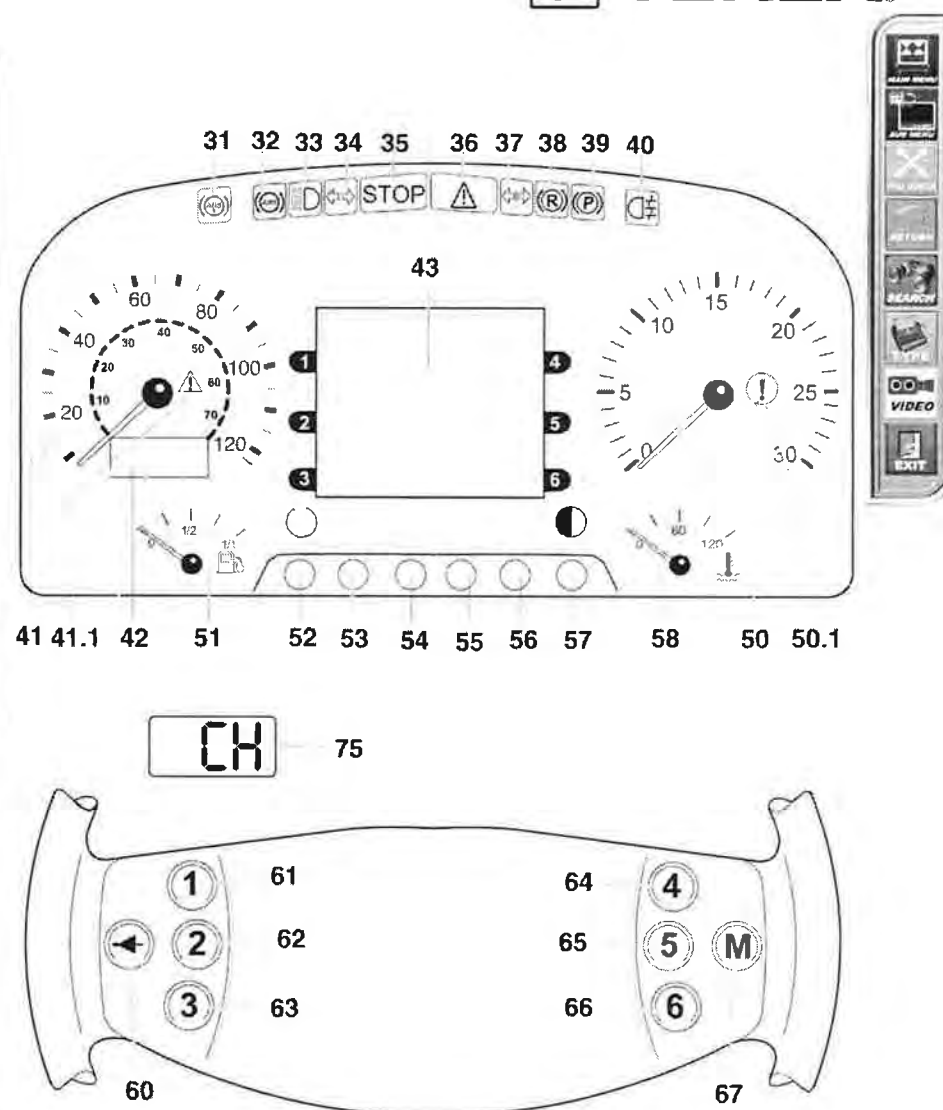
The menus 1–6 can be selected using the "Digit" buttons (**61–66**). At the same time, the digits correspond to the buttons of the segment numbering on the "Driver information system" (**43**) display.

You can scroll upwards in the menu structure with the "Arrow" button (**60**) (leave menu item and go back to previous display).

The main menu can be called up with the "M" button (**67**)

– and

– can be returned directly to the basic display "Indicator lights" from any menu item.



Display fields

A difference is made between permanent and changing displays.

Right field: Date, time

Middle field: Not assigned

Left field: not assigned

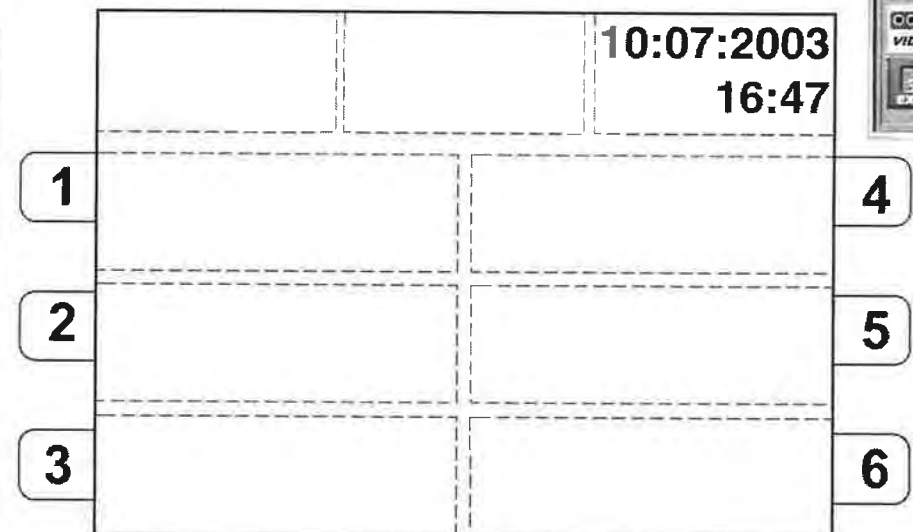
In the **changing displays**, the **previously used display field** **can** be used for other display functions according to certain criteria.

The display is divided into segments 1–6 and is laterally marked with these digits.

The brightness of the display can be changed with the button (57).

All possible displays are assigned certain display priorities.

These control the urgency of each message. By setting these priorities, you can automatically change from the current display into a new display with higher priority, if needed.



Basic display / explanation of colors

After switching on the ignition, the basic message "Indicator lights" always appears – after the company logo and control signal.

In the basic display, the selected functions that are activated by the corresponding switch settings are shown as symbols; e.g. differential lock, off-road gear.

The display of the selected functions or subsequently occurring malfunction / warning messages have different colors. The colors are used as indicators for the influence of the messages on the operation/traffic safety of the vehicle and determine the order of the displayed indicator lights (from upper left to lower right) depending on their (color) priority. The colors have the following meanings:

Pink: No function display possible

There is an error in the corresponding connection e.g. short circuit, interruption. The displayed function can therefore not be monitored.

If there is a pink-colored message, the "Caution" (36) display also lights up automatically.

White: Function (e. g. steering programmed) is

- selected, but not yet active or
- still selected, but axles not yet synchronized.

Yellow: Function is active

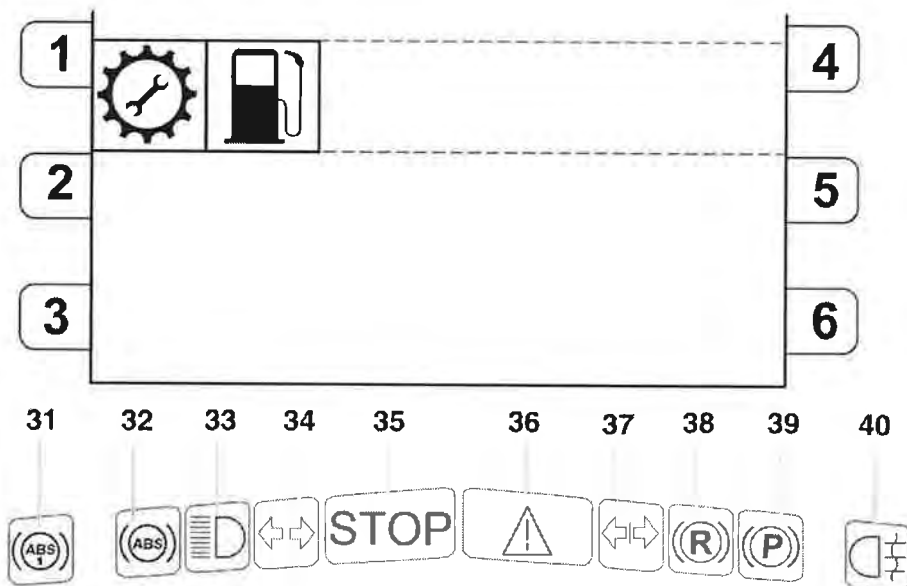
The system has recognized the error when the "Caution" (36) warning light lights up at the same time. The vehicle can still be operated; however, determine the cause.

Red: Malfunction

* There is a malfunction when the "Caution" (36) warning light lights up at the same time. Determine the cause of the malfunction and remedy the problem as quickly as possible.

* There is a serious malfunction when the "STOP" (35) warning light lights up at the same time. Switch off the vehicle immediately. Continued operation is not permitted.

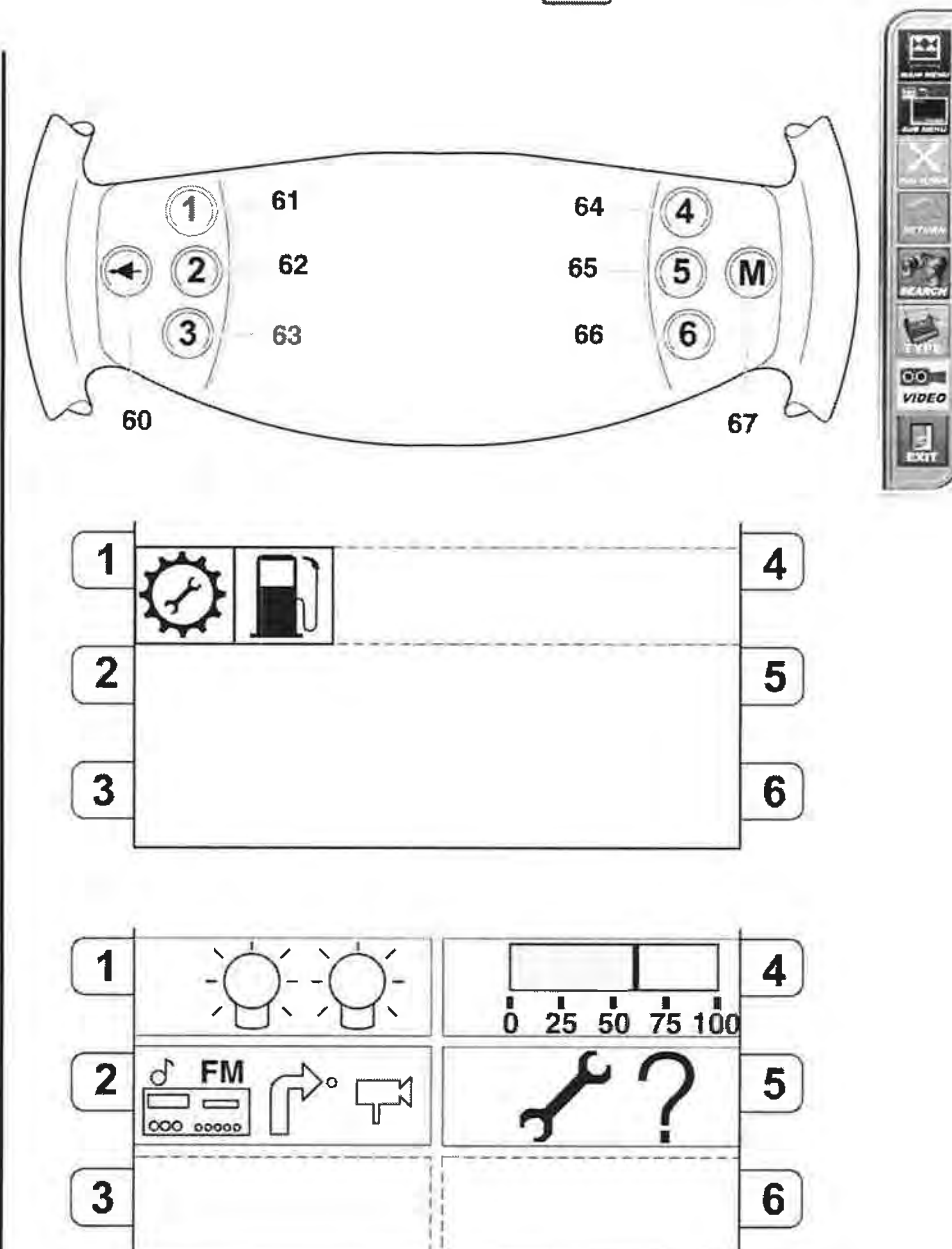
When there is a malfunction / warning display and at the same time the red warning light "STOP" (35) lights up, the operational safety of the vehicle is in danger. Turn off the vehicle immediately and remedy the fault.



Main menu

Pushing the “M” button (67) on the steering wheel brings you from the “Indicator lights” basic display to the main menu.

Pushing the “M” button (67) again brings you back to the basic display.



Menu selection 1 – 2 – 3

Four menus (1, 2, 4, 5) can be selected in the main menu. The menu items 3 and 6 are not assigned:

1 “Indicator lights” menu

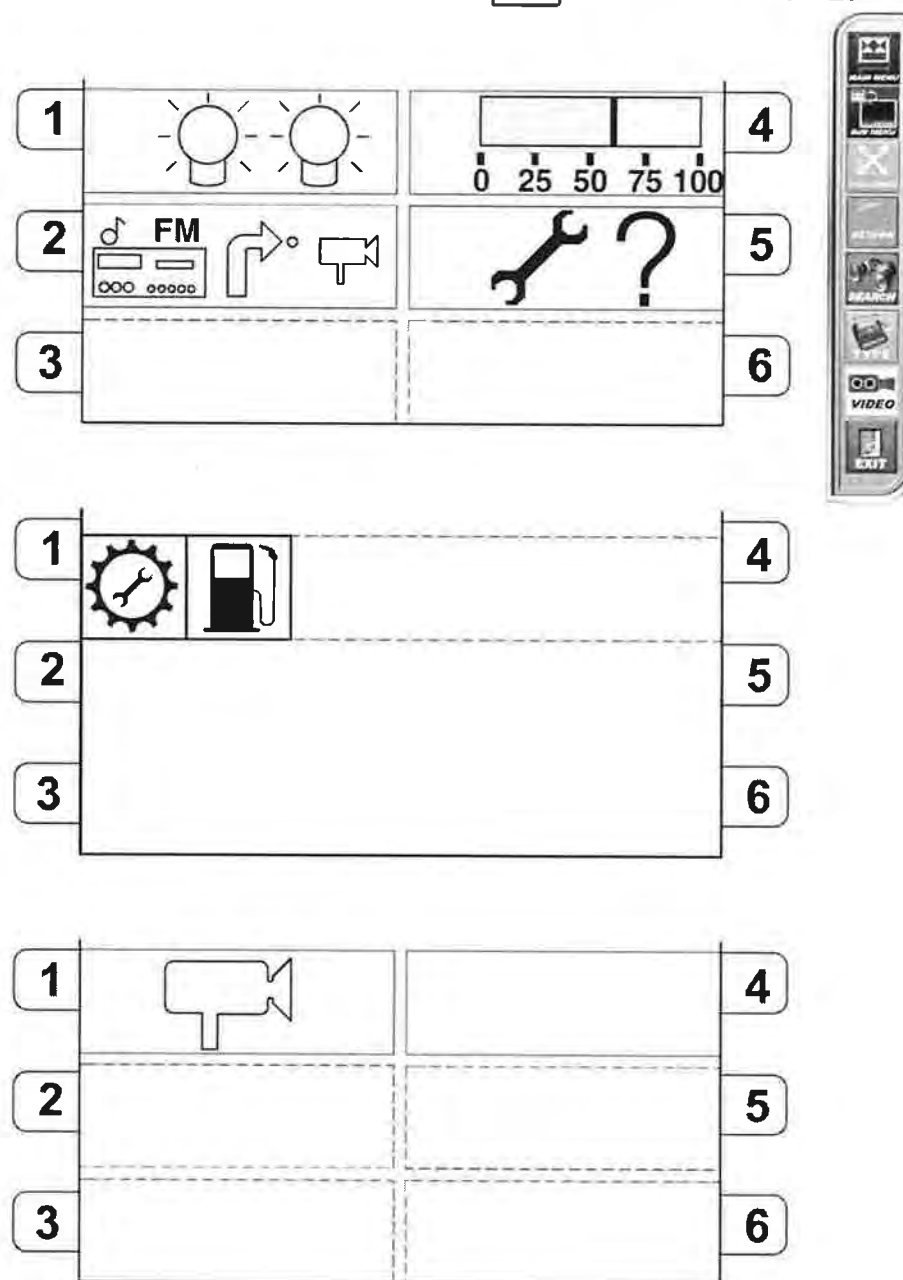
– identical with the basic display after “Ignition on”

Example of a possible display:

2 “Multimedia” menu

– Reversing camera (optional)

3 not assigned



Menu selection 4

Output basis: Main menu

4 "Control info" menu

1 Suspension level

2 Engine data*

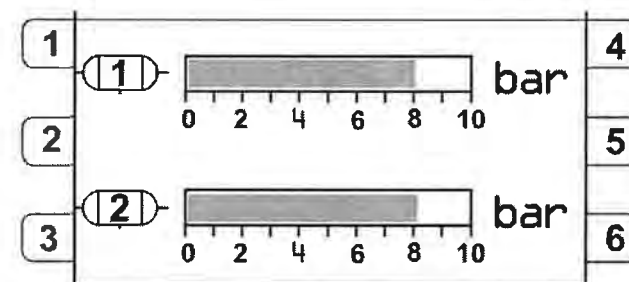
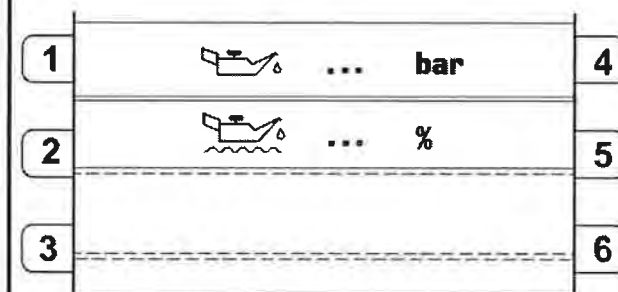
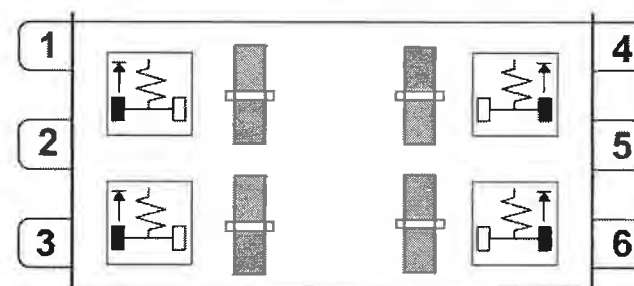
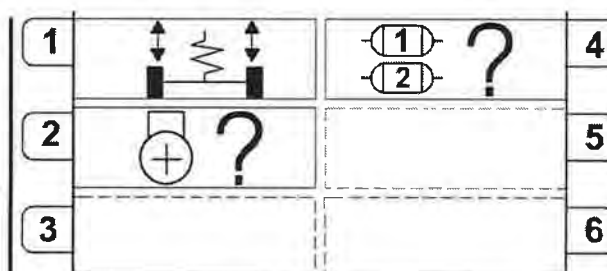
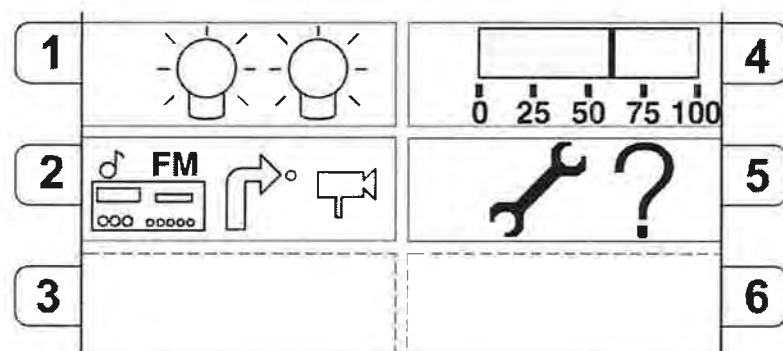
4 Emergency pressure supply in the braking circuits 1 and

2 * This display of the engine oil quantity (%) only serves as additional information. The oil level may only be monitored using the oil measuring stick.

Depending on the design, this display function is not possible for technical reasons. The corresponding display then always indicates 0%.

If this is the case, then B14 indicator light "Engine oil level too low" will also not be displayed.

Main Menu



Menu selection 5 – 6

Output basis: Main menu

5 “Service / Diagnosis” menu

– **Operating hours counter: Press submenu 5.1**

Display left row: Partial operating hours

1 = Superstructure (without function)

2 = Chassis

3 = Sum superstructure / chassis (without function)

Display right row: Total operating hours

4 = Superstructure (without function)

5 = Chassis

6 = Sum superstructure / chassis (without function)

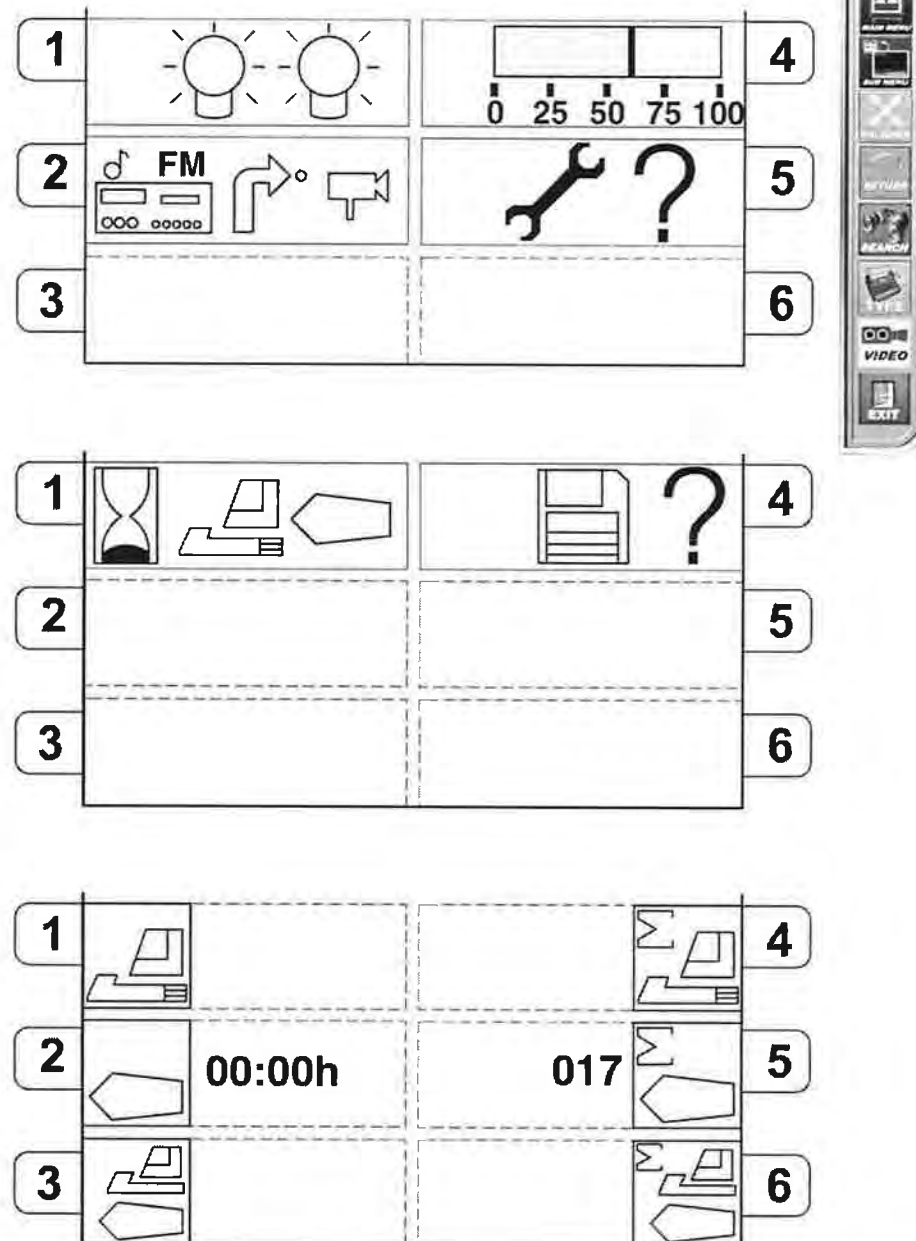
– **Software identification: Press submenu 5.4**

Software display (only for customer service)

The partial operating hours can be deleted by holding down (about 5 sec.) the steering wheel button (61 / 62 / 63).

The total operating hours cannot be changed.

6 not assigned



Indicator lights in the driver information system

The symbols given below as "Indicator lights" on the "Driver information system" (43) display can be displayed.

Signal indicator lights

- the execution of **manually activated functions (A row)**
- or the existence of **Malfunctions (B row)**.

Indicator lights for manually activated functions

A1 Maneuvering operation

A2 "Manual rear axle steering" steering program active

A3 Steering program "Close cornering" active

A4 Steering program "Driving away from the wall" active

A5 Steering program "Diagonal steering" active

A6 Release "Steering program" (for construction site operation)

A7 Off-road distributor gear inserted

A8 Distributor gear in neutral

A9 Longitudinal differential lock actuated

A10 Transverse differential lock actuated

A11 Suspension in the three circuit system

A12 Suspension locked

A13 "Hold axles" actuated

A14 "Raise lift axle" actuated

A15 "Raise all axles" actuated

A16 Emergency operation of the superstructure

A17 Axle that can be engaged in the function

(drive is connected with longitudinal differential lock)

A18 Speed lock effective

A19 Superstructure not locked with carrier

A20 Engine quick stop (optional) actuated

A21 Sustained action brake cruise control activated



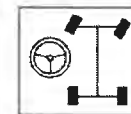
A1



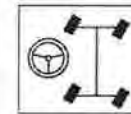
A2



A3



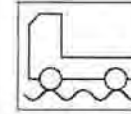
A4



A5



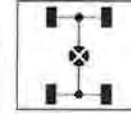
A6



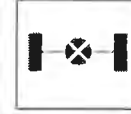
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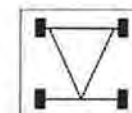
A8



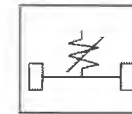
A9



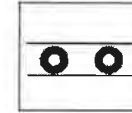
A10



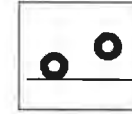
A11



A12



A13



A14



A15



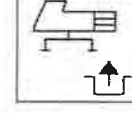
A16



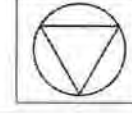
A17



A18



A19



A20

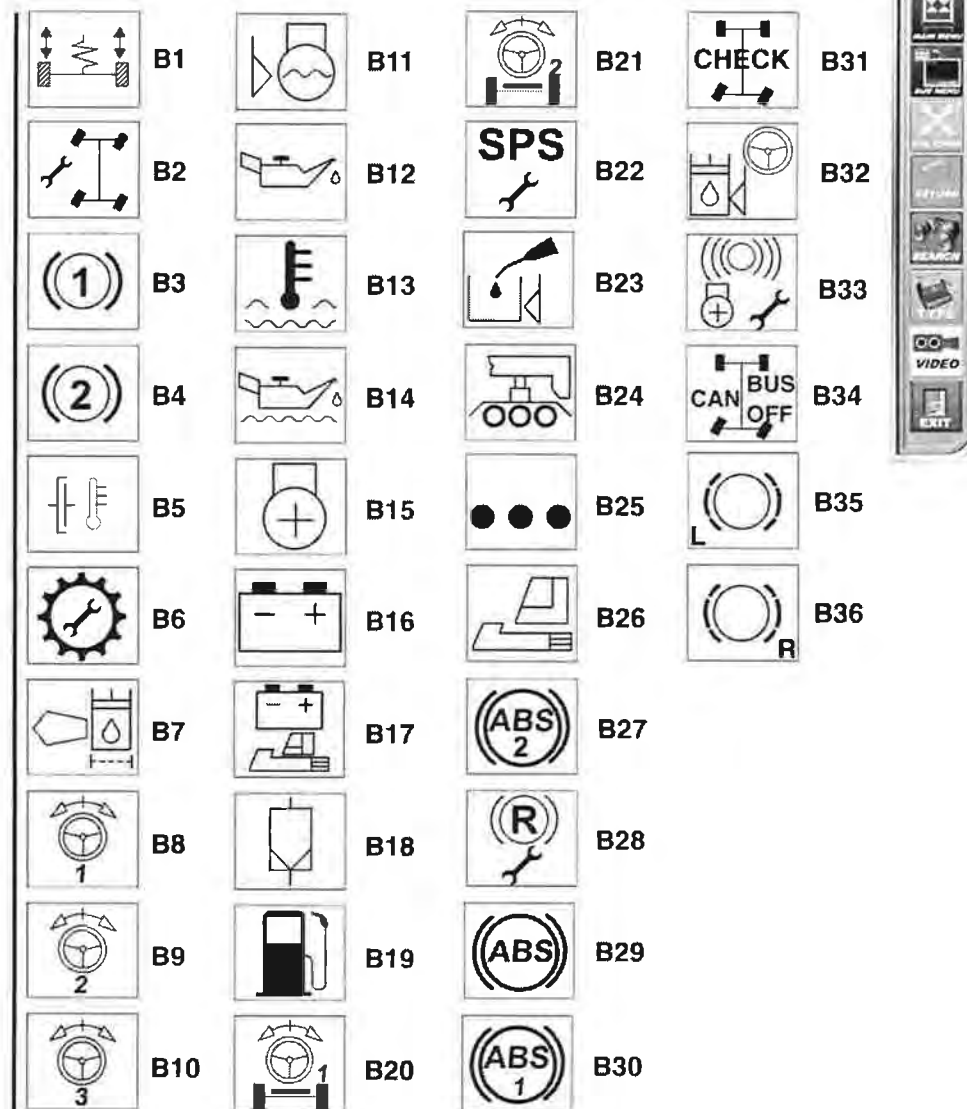


A21

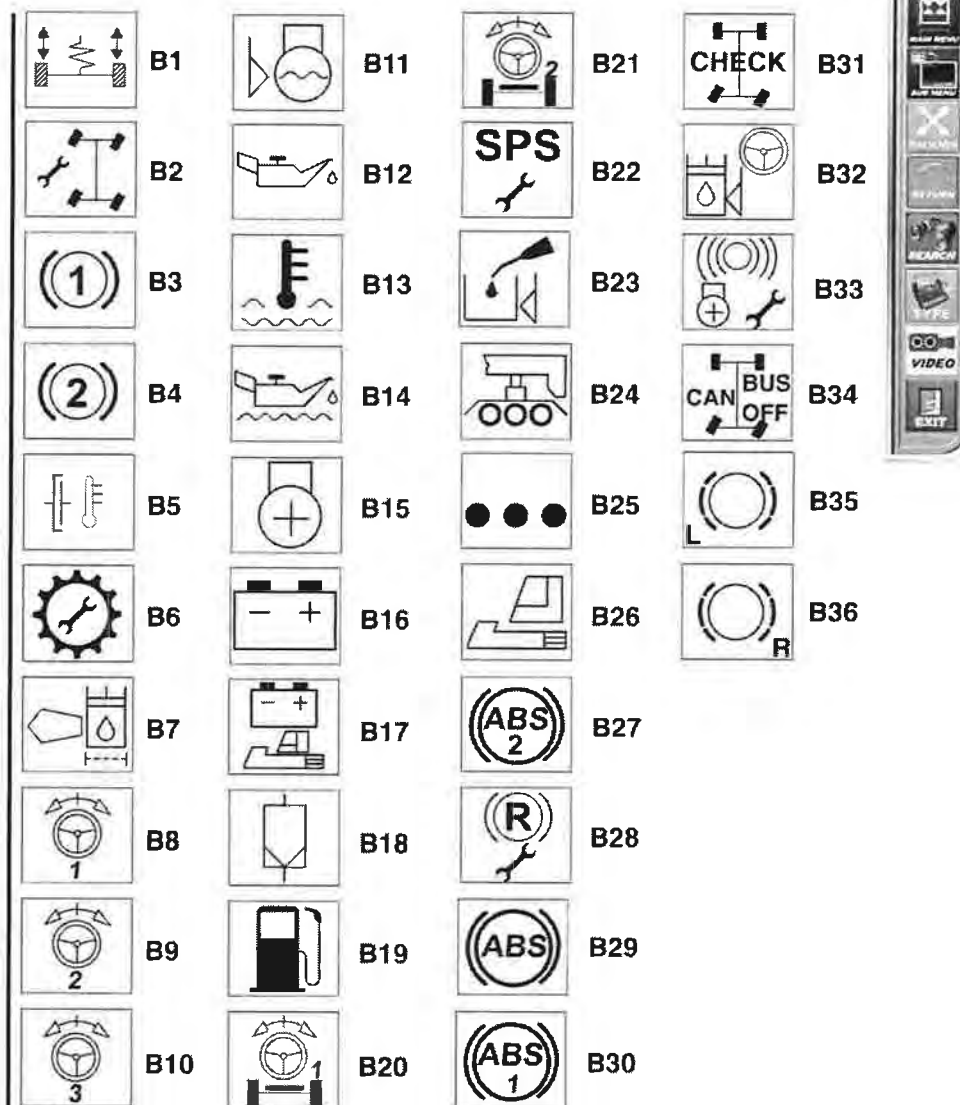


Indicator lights resulting from malfunctions

- B1 Suspension beyond limits
- B2 Error in the electric hydraulic rear axle steering
- B3 Emergency pressure supply in braking circuits 1 below 5.5 bar (79.8 psi)
- B4 Emergency pressure supply in braking circuits 2 below 5,5 bar (79.8 psi)
- B5 Clutch overload (temperature too high)
- B6 Transmission malfunction
- B7 Hydraulic oil filter chassis clogged
- B8 Steering circuit 1 no through flow
- B9 Steering circuit 2 no through flow
- B10 Steering circuit 3 (emergency steering) no through flow
- B11 Engine coolant level too low
- B12 Engine oil pressure too low
- B13 Coolant temperature engine too high
- B14 Engine oil level too low
- B15 Engine malfunction
- B16 Charging current too low
- B17 Charging current in the superstructure too low (not assigned)
- B18 Air filter clogged
- B19 Fuel supply in the reserve
- B20 Dolly steering circuit 1 no through flow
- B21 Dolly steering circuit 3 (emergency steering) no through flow
- B22 Malfunction SPS
- B23 Central lubricating system without grease (not assigned)

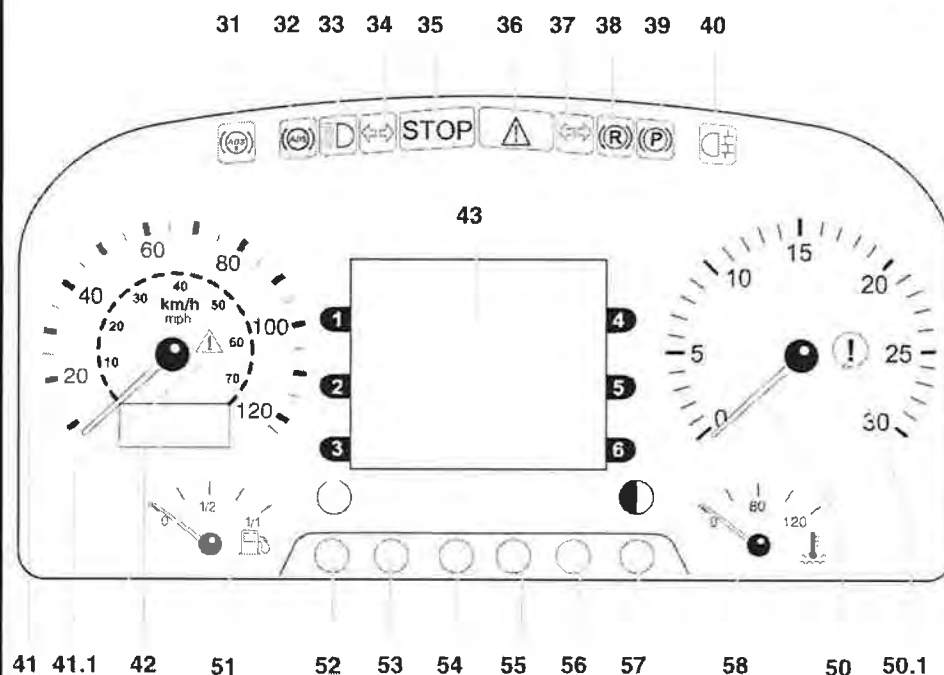


B24 Malfunction on dolly (dolly = optional)
Stroke length exceeded, hydraulic cylinder (if in addition to the indicator light (B24): **One-time** acoustic warning signal and indicator light **“Caution” (36))** or
B24 Malfunction on dolly (dolly = optional) Critical slanted position, hydraulic cylinder (if in addition to indicator light (B24): **Repeating acoustic** warning signal and indicator light **“STOP” (35))**
B25 Scroll down to next mask (if no room on display)
B26 Crane operation active (not assigned)
B27 ABS fault, vehicle, axle 4 (only with 6-axle basic unit)
B28 Malfunction exhaust brake / hydraulic retarder
B29 ABS fault, vehicle,
5-axle basic unit: all axles;
6-axle basic unit: Axles 1, 2, 3, 5 and 6
(together with indicator light (32))
B30 ABS malfunction, dolly or additional axle or trailing axle
(together with indicator light (31))
B31 Malfunction nonreturnable valves (electro hydraulic rear axle steering)
B32 Malfunction oil supply (additional axle)
B33 Warning buzzer engine
B34 No CAN Bus connection (steering computer 1)
B35 Brake wear display (left-hand disc brakes)
B36 Brake wear display (right-hand disc brakes)



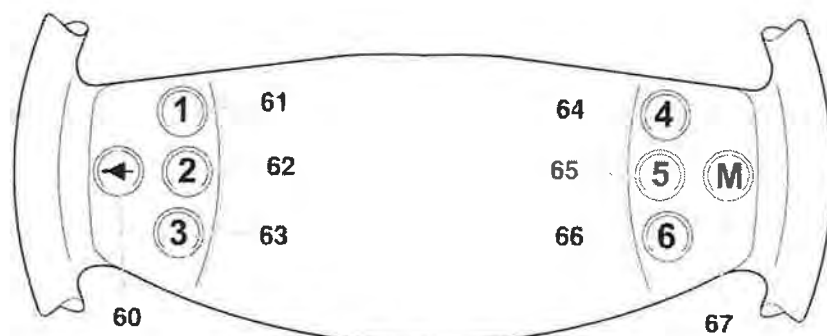
Instrument Panel

| No. | Element | Designation | Function |
|------|--------------------|--|----------|
| 31 | Lamp | ABS control, dolly | |
| 32 | Lamp | ABS control, vehicle, circuit 1 | |
| 33 | Lamp | Upper beam switched on | |
| 34 | Lamp | Flashing light – crane | |
| 35 | Lamp | “STOP” | |
| 36 | Lamp | “Attention” | |
| 37 | Lamp | Flashing light – dolly | |
| 38 | Lamp | Hydraulic retarder / exhaust brake actuated | |
| 39 | Lamp | Parking brake applied | |
| 40 | Lamp | Rear fog lamp actuated | |
| 41 | Speedometer | Speed display Exterior scale: km/h Interior scale: mph | |
| 41.1 | LED | Control tachograph (when lit up, no speedometer dial inserted) | |
| 42 | LCD | (display for ignition on) 7-digit display of the total distance travelled / part distance | |
| 43 | Display | “Driver information system” | |
| 50 | Revolution counter | Engine speed display, | |
| 50.1 | LED | Monitoring the engine speed (with lit up: Excessive engine speed! (> 2350 min ⁻¹ / rpm)) | |
| 51 | Display | Fuel supply | |
| 52 | Reset button | Reset partial mileage. | |
| 53 | | w/o function | |
| 54 | | w/o function | |
| 55 | | w/o function | |
| 56 | | w/o function | |
| 57 | Taste | Change brightness | |
| 58 | Display | Engine / coolant temperature | |



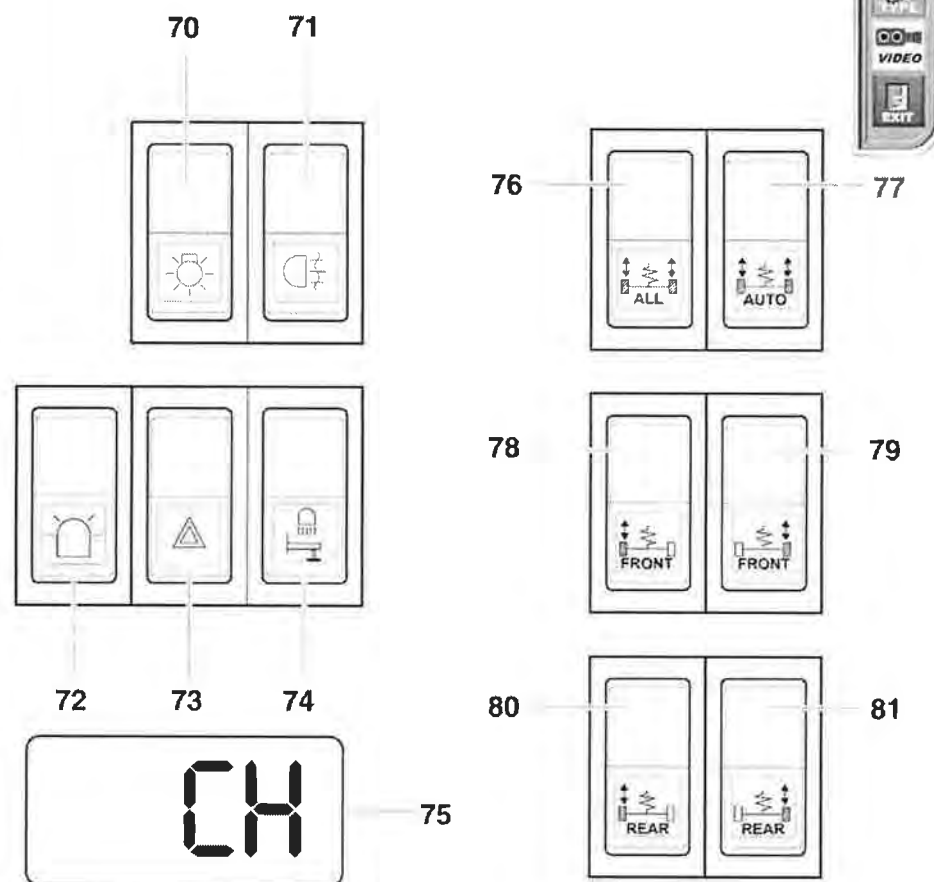
Function buttons on the steering wheel

| No. | Element | Designation | Function |
|-----|----------|----------------|---|
| 60 | (A 4261) | "Arrow" button | back one level |
| 61 | (A 4261) | Button 1 | Menu selection 1 |
| 62 | (A 4261) | Button 2 | Menu selection 2 |
| 63 | (A 4261) | Button 3 | Menu selection 3 |
| 64 | (A 4261) | Button 4 | Menu selection 4 |
| 65 | (A 4261) | Button 5 | Menu selection 5 |
| 66 | (A 4261) | Button 6 | Menu selection 6 |
| 67 | (A 4261) | Button M | to main menu / back to basic display "Indicator lights" |



Switch on the instrument panel

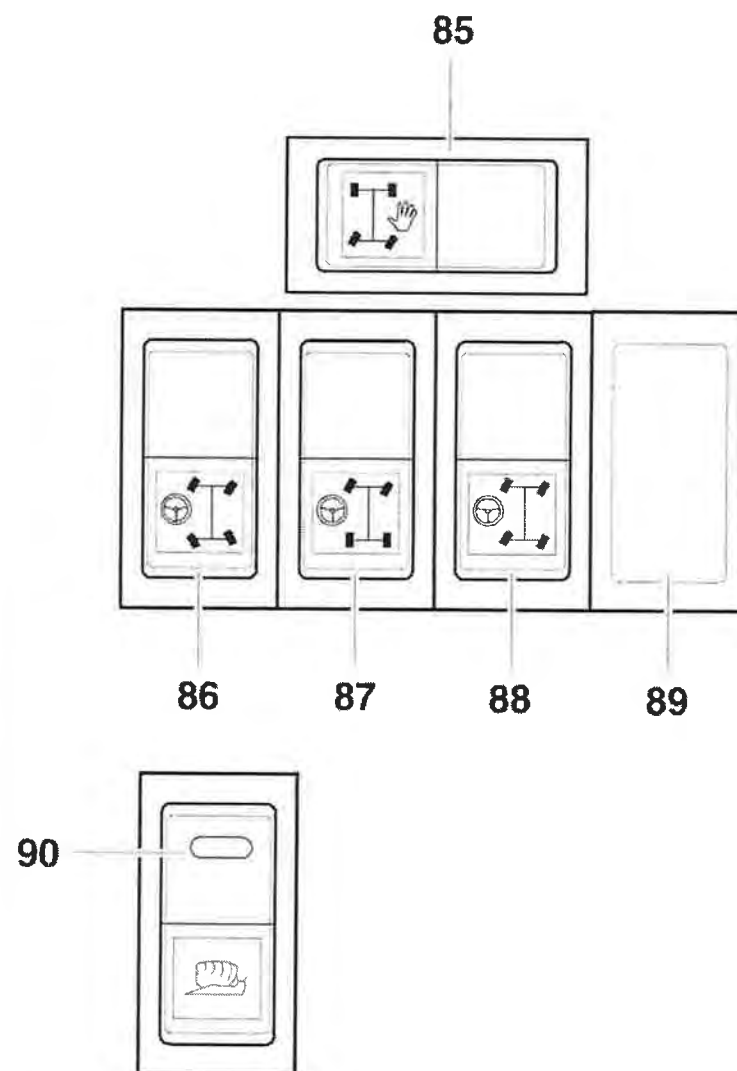
| No. | Element | Designation | Function |
|-----|---------|---------------|--|
| 70 | S 6114 | 2-step switch | Parking light / lower beam |
| 71 | S 6220 | Switch | Rear fog lamp |
| 72 | S 6400 | Switch | Rotaflare light |
| 73 | S 6310 | Switch | Hazard flashers |
| 74 | S 6240 | Switch | Lights in outrigger area |
| 75* | P 2319 | Display | "Transmission information" Gear display / transmission malfunction message |
| 76 | S 4411 | Dual switch | Set total level (raise / lower) |
| 77 | S 4424 | Button | Automatic activation road travel level |
| 78 | S 4413 | Dual switch | Set level, front left (raise / lower) |
| 79 | S 4412 | Dual switch | Set level, front right, (raise / lower) |
| 80 | S 4415 | Dual switch | Adjust level, rear left, (raise / lower) |
| 81 | S 4414 | Dual switch | Set level, rear right, (raise / lower) |



Switch on the instrument panel

| No. | Element | Designation | Function |
|-----|---------|------------------|---|
| 85* | S 4291 | Double key | "Manual rear-axle steering" steering program: Rear wheels swing to the left / right |
| 86 | S 4292 | Button | "Close cornering" steering program: Axle 4,5 (+6; for 6-axle basic unit) electrically steered |
| 87* | S 4299 | Button | Steering program: "Driving away from the wall": |
| 88* | S 4293 | Button | Steering program: "Diagonal steering": All wheel are pointed in the same direction; Steering wheel determines the steering angles |
| 89 | | Visor | not assigned |
| 90 | S 2217 | Switch, lockable | Manoeuvring operation (sensitive driving at distances < 1 m (3.3 ft); with dragging coupling) |

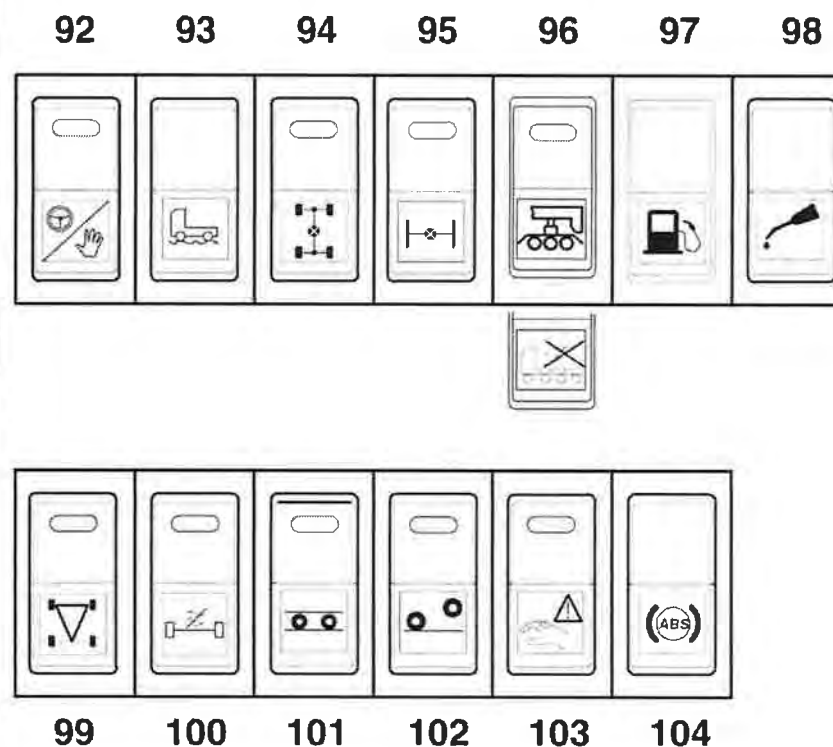
* Function only possible, if the (92) "Steering program" (construction site operation) switch was previously actuated.



| No. | Element | Designation | Function |
|-----|---------|------------------|--|
| 92 | S 4290 | Switch, lockable | Release "Steering program" (for construction-site operation) |
| 93 | S 2216 | Double key | press upwards: On-road gear press downwards: Off-road gear (“Neutral” externally possible) |
| 94 | S 2240 | Switch, lockable | Longitudinal differential lock and lift axle activation |
| 95 | S 2220 | Switch, lockable | Transverse differential locks |
| 96 | | Switch, lockable | Switchover suspension system:(optional): Not actuated: 12 t / 26.4 kip axle load; Actuated: Reduced axle load (see Sect. 11 'Hydraulic Suspension') |
| 97 | S0420 | Double key | Pumping fuel actuating top side: pump ON actuating bottom side: pump OFF actuating top side and keeping pressed: changing display (51) from showing main tank to showing additional tank |
| 98 | S 0913 | Button | Additional lubrication impulse central lubricating system (optional) |
| 99 | S 4425 | Switch, lockable | Suspension on three-circuit system |
| 100 | S 4401 | Switch, lockable | Lock suspension |
| 101 | S 4428 | Switch, lockable | Hold axles |
| 102 | S 4427 | Switch, lockable | Raise lift axle * |
| 103 | S 2430 | Switch, lockable | Emergency operation of the superstructure (optional) |
| 104 | S 4125 | Button | Switch ABS in tractor unit to off-road mode |

* "Raise lift axle" is done by driver in steering programs that can be selected (for construction site operation).

"Raise all axles" is done on the switch panel of the outrigger controls by actuating the "Raise axles" button, after previously actuating the "Raise axles" button (101).



| No. | Element | Designation | Function |
|-----|---------|-------------------|--|
| 105 | S 5431 | Switch | Mirror heater |
| 106 | | Visor | not assigned |
| 107 | | Visor | not assigned |
| 108 | X 5412 | Cigarette lighter | |
| 109 | A 5111 | Operating element | Engine-independent cab heater arrangement (optional) |
| 110 | S 5170 | Switch | Air conditioning equipment on/off |
| 111 | | Control knob | Air flow Footwell / front window |
| 112 | X 5413 | Socket | 24 V, 5 A * |
| 113 | | Control knob | Regulate engine-dependent cab heater arrangement / A/C equipment warm / cold |
| 114 | S 5141 | Rotary switch | Fan levels 0-1-2-3-4 |
| 115 | | Control knob | Air flap fresh air / ventilation |

* Socket is fused with 5 ampere; do not overload!

Voltage is always on – regardless of the ignition starter switch position (danger of battery drain when device is off duty).

