KRAMER

Operator's manual

Telehandlers

4407
5507 / 5007



Machine model	**416-22 / 416-24 / 416-28**
Version	**3.0**
Document number	**1000377162**
Language	**[en]**

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EC / EU Declaration of Conformity

according to directive 2006/42/EC, EU official register L157 from June 09, 2006
according to directive 2000/14/EC, EU official register L162 from 7/3/2000
according to directive 2014/30/EU, EU official register L96 from March 29, 2014

Manufacturer

Kramer-Werke GmbH, Wacker-Neuson-Str. 1, D-88630 Pfullendorf

Product description

Designation	Telehandlers
Type	416
Version/variant	416-22 / 416-24 / 416-28
Trade name	4407 / 5507 / 5007
Serial number	WNK4162 _ xxxxx _ _ _ _
Output in kW	100 / 115
Measured sound power level dB(A)	105
Guaranteed sound power level dB(A)	106

We hereby declare that the abovementioned product meets all relevant clauses of the harmonization laws listed.

The manufacturer bears sole responsibility for issuing this compliance statement.

Compliance assessment procedure used

The compliance assessment procedure in accordance with Schedule VIII to EC directive 2000/14 was employed to determine the environmentally polluting noise emissions for use of the machines in question in the open air.

Notified body involved in procedure

DGUV Test Prüf- und Zertifizierungsstelle [DGUV testing and certification center] (EU identification number: 0515, Building Trade Department)
Landsberger Straße 309, D-80687 Munich

Applicable harmonized standards

EN 13309:2010, EN 1459-1:2017, EN 1459-5:2015

Other applicable standards and technical regulations

ISO/TR 25398:2006

Authorized representative for the compilation of technical documentation

Kramer-Werke GmbH, Wacker Neuson Straße 1, D-88630 Pfullendorf

Pfullendorf, the _ _._ _._ _ _ _



M. Arndt
Head of product development
Kramer-Werke GmbH

Original declaration of conformity

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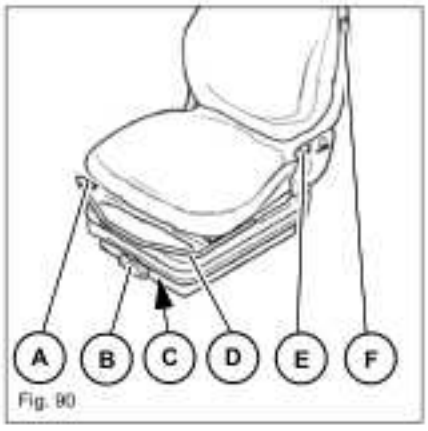


Fig. 90

Seat adjustment (overview)

A Length adjustment without joystick console
B Weight adjustment
C Weight indicator
D Length adjustment with joystick console
E Backrest adjustment
F Heated seat

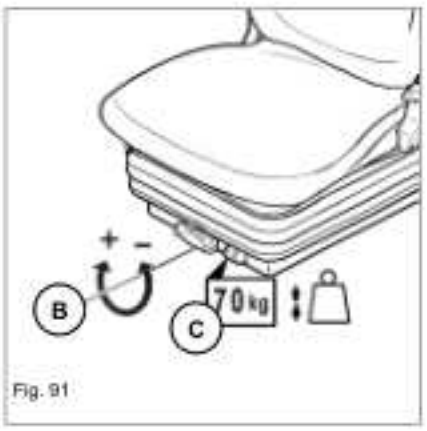


Fig. 91

Weight setting for heavy operator weight

1. Sit down on the operator seat.
2. Turn the lever **B** clockwise and read the weight on the display **C**.

Weight setting for low operator weight

3. Turn the lever **B** counter-clockwise.
4. Read the weight on the display **C**.

Information

The weight indicator **C** shows the set operator weight [kg].



Fig. 92

Tilt adjustment - backrest

1. Sit down on the operator seat.
2. Pull lever **E** upward and at the same time, lean back to push the backrest into the required position.
3. Allow the lever **E** to lock into place.

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Lock / unlock the joystick

WARNING

Accident hazard due to uncontrolled movements of the control lever!

Uncontrolled movements of the control lever
can cause serious injury or death.

- ► Operate the machine only from the operator seat.
- ► Work calmly and carefully.
- ► Avoid fast and sudden movements of the control lever.
- ► Always lower the loader unit to the ground during work interruptions or when finishing work.
- ► Secure the control lever before
performing machine travel on public roads.
- ► Secure the control lever before leaving the machine.

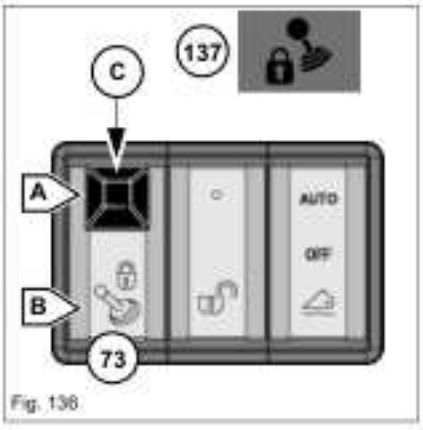


Fig. 136

The rocker switch **73,** joystick lock for road travel for the joystick, is located in the switch console in the front left.

Lock the joystick

1. Slide the lock **C** into the rocker switch **73** in the direction of the arrow and at the same time press the switch into position **B**.
2. Release lock **C**.
   - ➥ The joystick is locked.
   The functions "Raise and lower loader unit" and "Tilt attachment in and out" are locked.
   - ➥ The control light **137** illuminates.

Unlocking the joystick

1. Slide the lock **C** into the rocker switch **73** in the direction of the arrow and at the same time press the switch into position **A**.
2. Release lock **C**.
   - ➥ The joystick is unlocked.
   The functions "Raise and lower loader unit" and "Tilt attachment in and out" are unlocked.
   - ➥ The control light **137** goes out.

Functional check: brakes, steering system, lighting

- *– see chapter 5 " Checking the steering system" on page 5-2,*
- *– see chapter 5 " Brake/inching pedal (service brake)" on page 5-18,*
- *– see chapter 5 " Lighting / signal system" on page 5-37,*
- *– see chapter 5 " Work hydraulics" on page 5-51.*

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Fig. 471

3. Remove fine-dust filter **C** and check for damage.
4. Knock the fine-dust filter on a plate on either side.
5. Blow compressed air from the inside to the outside to clean the fine-dust filter, or wash it with water and dry it. Replace very dirty filters with new filters if necessary.
   ➥ Replace or clean the filter more frequently if the filter is severely dusty.
6. Clean the inside of the filter housing.

NOTICE

Ensure the correct position of filter element **C** as you insert it.

► Filter element **C** must touch all sides evenly.

7. Insert the fine-dust filter **C**.
8. Install cover **B**.

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Rear camera display

If a rear camera is installed and the travel direction "reverse" is selected, the camera image is automatically shown on the display.



Fig. 126

Overview of the pop-up displays

Error display

In the event of an occurring error, a corresponding notification will briefly be shown on the display – *see chapter 8 " Error prioritization" on page 8-8*. A warning will sound simultaneously.

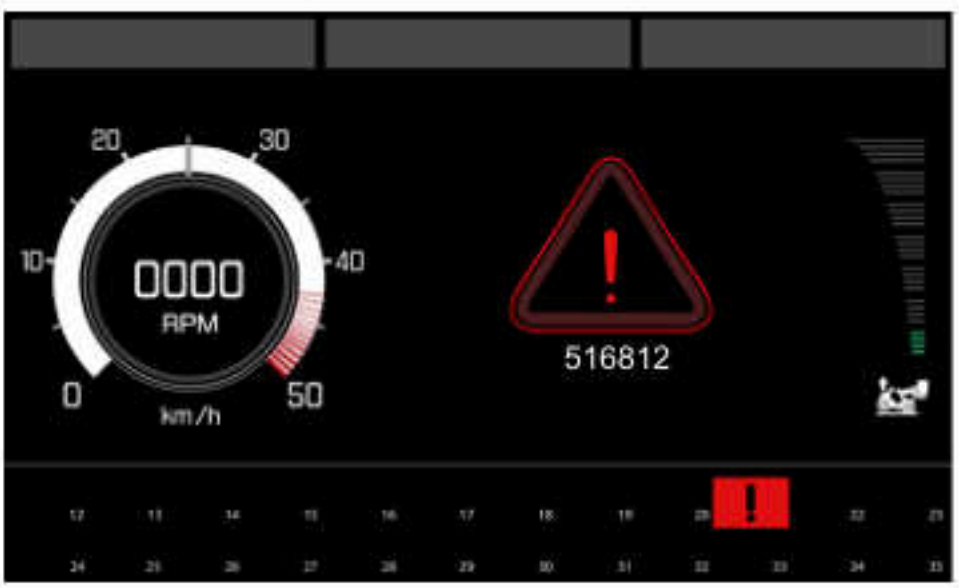


Fig. 127

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SPN	FMI	Symbol	Warning light	Error description
523900	13		1. Yellow 2. Red	N005 Engine control unit - injector control- wrong parameterization IMA correction valve: calibration faulty / not carried out
523912	4		1. Yellow 2. Red	N005- Engine control unit - pressure sensor DV2: Signal range fallen below or short circuit to vehicle ground/ sensor ground
523924	4		1. Yellow 2. Red	N005 Engine control unit - actuator relay - UB2; Relay 2, short circuit to ground: Signal range fallen below or short circuit to vehicle ground/sensor ground
523925	3		1. Yellow 2. Red	N005 Engine control unit - actuator relay - UB3; Relay 3, short circuit to battery: signal range exceeded or short circuit to positive supply voltage
523925	4		1. Yellow 2. Red	N005 Engine control unit - actuator relay - UB3; Relay 3, short circuit to ground: Signal range fallen below or short circuit to vehicle ground/sensor ground
523926	4		1. Yellow 2. Red	N005 Engine control unit - actuator relay - UB4; Relay 4, short circuit to ground: Signal range fallen below or short circuit to vehicle ground/sensor ground
523927	3		1. Yellow 2. Red	N005 Engine control unit - actuator relay - UB6; Relay 6, short circuit to battery: signal range exceeded or short circuit to positive supply voltage
523960	0		1. Yellow 2. Red	N005 Engine control unit - exhaust gas recirculation - temperature sensor after EGR: threshold well exceeded
523982	0		1. Yellow 2. Red	N005 Engine control unit - battery voltage - power end stage diagnostics switched off due to excessively high U_BAT: Threshold well exceeded
523982	1		1. Yellow 2. Red	N005 Engine control unit - battery voltage - power end stage diagnostics switched off due to too low U_BAT: Threshold well fallen below
523984	3		1. Yellow 2. Red	N005 Engine control unit - actuator relay - UB7; Relay 7, short circuit to ground: signal range exceeded or short circuit to positive supply voltage
523987	4		1. Yellow 2. Red	N005 Engine control unit - actuator relay - UB7; Relay 7, short circuit to ground: Signal range fallen below or short circuit to vehicle ground/sensor ground
524025	8		1. Yellow 2. Red	N005 Engine control unit - diesel particulate filter - Max. standstill launch time exceeded: abnormal frequency, pulse width or period duration

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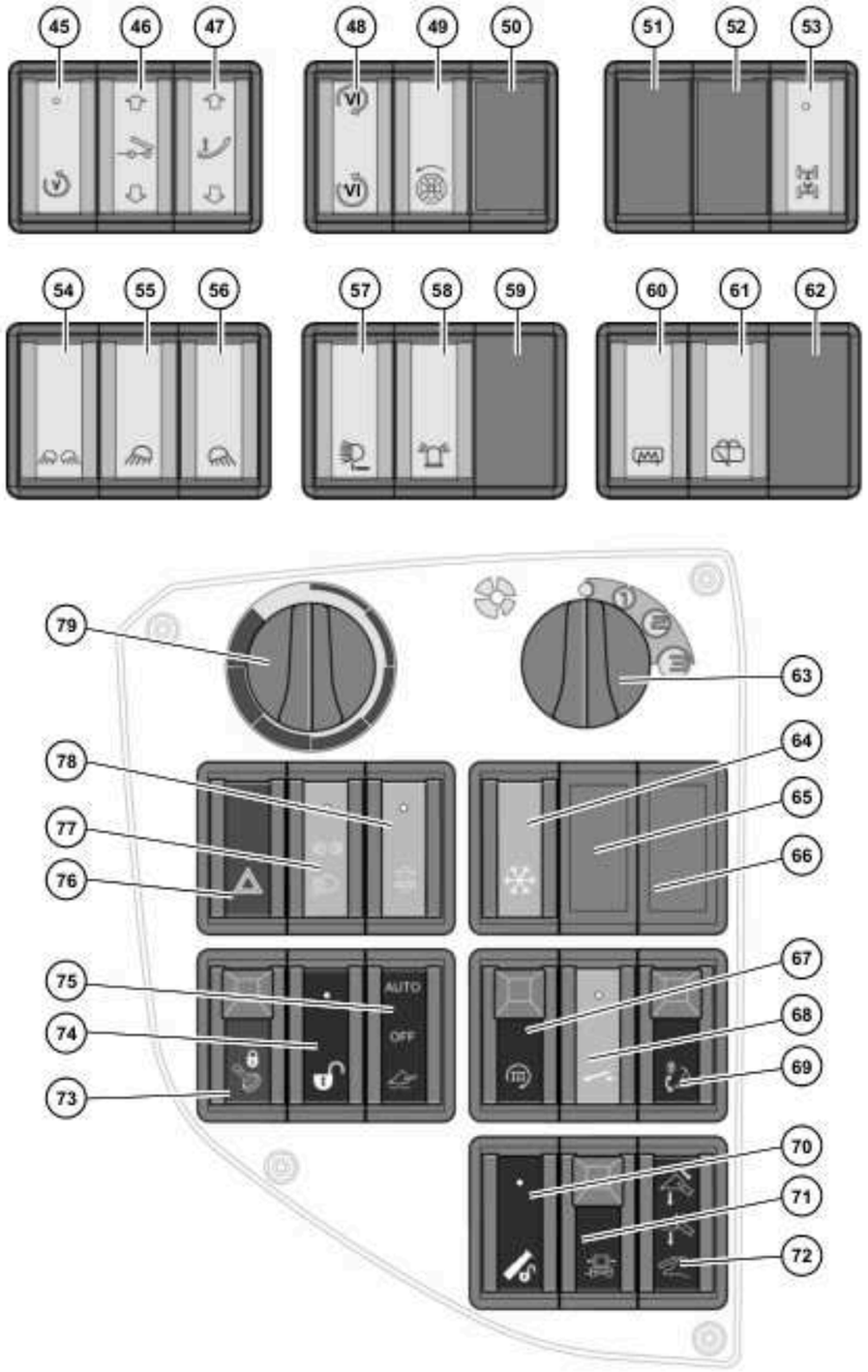


Fig. 112

Switch consoles

Right switch console	page
45 Rocker switch (green) – Hydraulic additional control circuit V front, single-acting (optional)	5-67
46 Button (green) – Hydraulic tipping trailer connection (optional)	5-217
47 Button (green) – Autohitch coupling (optional)	5-207
48 Rocker switch (green) – Hydraulic additional control circuit VI rear, dual-acting (optional)	5-214
49 Button (gray) – Reverse operation of the cooler fan for the engine (optional)	5-179
50 Not assigned	
51 Not assigned	
52 Not assigned	
53 Button (blue) – all-wheel shutdown (optional)	5-30
Cabin roof switch console	**page**
54 Rocker switch (gray) – side working light (option)	5-42
55 Rocker switch (gray) – front working light (partially option)	5-40
56 Rocker switch (gray) – rear working light (partially option)	5-42
57 Rocker switch (gray) – working light on the telescopic boom (option)	5-41
58 Rocker switch (gray) – rotating beacon (option)	5-45
59 Not assigned	
60 Button (gray) – rear window heater, side window heater (optional), rearview mirror heating (optional)	4-23
61 Button (gray) – Wiper and wash system for rear window (side window option)	5-47
62 Not assigned	
Left front switch console	**page**
63 Rotary switch – fan level control for cabin heater	5-49
64 Rocker switch (gray) – air conditioning (option)	5-50
65 Not assigned	
66 Not assigned	
67 Rocker switch with lock (green) – 3rd control circuit continuous operation (optional)	5-64
68 Rocker switch (gray) – front socket (option)	5-178
69 Rocker switch with lock (green) – tilt cylinder lock (optional)	5-148
70 Button (green) – overload shutdown (loader unit)	5-142
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76 Hazard warning system (red)	5-44
77 Rocker switch (gray) – Vehicle lighting (road traffic)	5-37
78 Button (gray) – Regeneration of the exhaust system	7-109
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