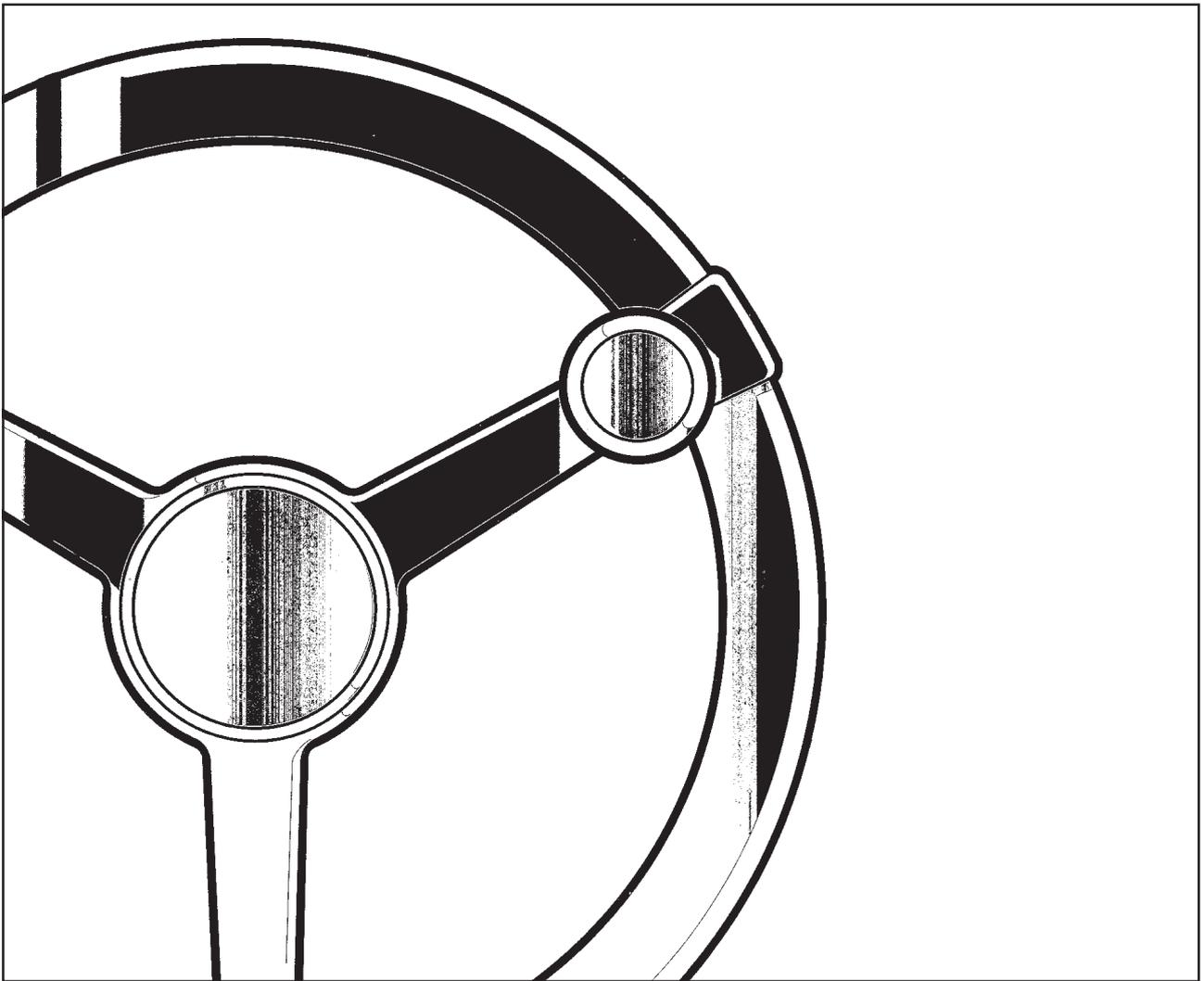


DYNAPAC CC 501/501C OPERATION

0501EN3



SVEDALA

 **DYNAPAC**
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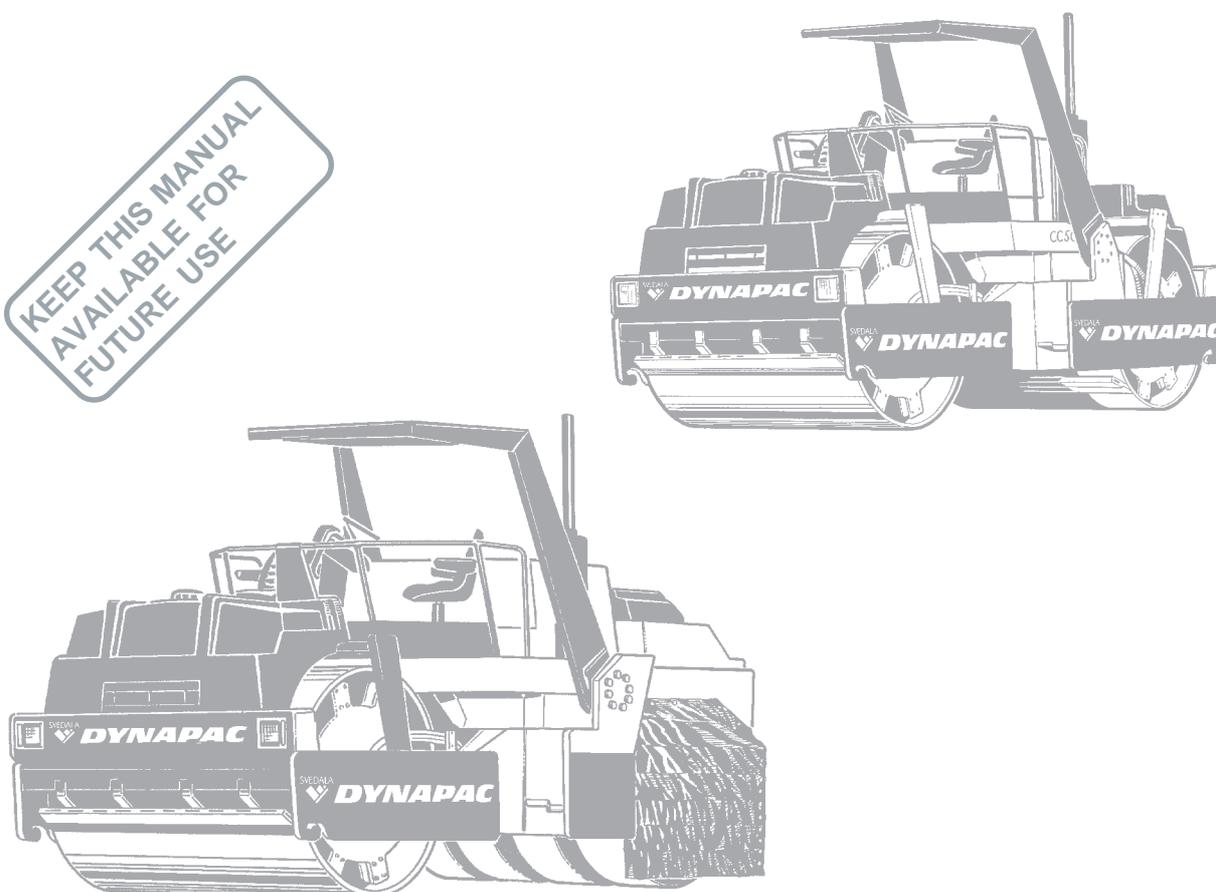
Vibration and Combination roller CC 501/501C

Operation 0501EN3, June 1999

Diesel engine:
Cummins 6CT 8.3

These instructions apply from
CC 501: PIN (S/N) *60910502*
CC 501C: PIN (S/N) *60010501*

KEEP THIS MANUAL
AVAILABLE FOR
FUTURE USE



CC 501 and CC 501C are two rollers in the CC 50 family in the heavier category.

The CC 501 features articulated steering and propulsion on both drums compared to the CC 501C, which has propulsion on one drum and all of its rubber wheels.

The CC 501 and CC 501C feature high power, high capacity and high quality in major demanding applications, such as highway and airfield construction involving compaction of various drybound macadam compounds.

Separate information about accessories is available on request.

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WARNING SYMBOLS



Safety instructions - Personal safety



Special caution - Machine or component damage.

SAFETY MANUAL



Each operator of the roller must study the safety manual, which accompanies each machine. Always follow the safety rules and do not remove the manual from the roller.

GENERAL

This manual contains instructions for the operation and use of the roller. For care and maintenance information, see the MAINTENANCE, CC 501/501C manual.



When you start up and drive a cold machine, the hydraulic fluid is cold, and the braking distance will be longer than normal until the machine reaches normal working temperature.

CALIFORNIA

Proposition 65 Warning

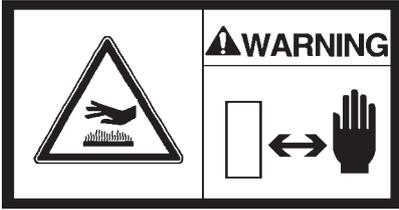
Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects, and other reproductive harm.

SAFETY INSTRUCTIONS (Also read the safety manual)



1. The operator must be conversant with the contents of the OPERATION MANUAL before starting the roller.
2. Make sure that all instructions in the MAINTENANCE MANUAL are followed.
3. Only trained and/or experienced operators are allowed to drive the roller. Passengers are not allowed on the roller.
4. Never use the roller if it is in need of adjustment or repairs.
5. Board and leave the roller only when it is stationary. Use the grips and railings that are provided.
6. Always use the ROPS (Roll Over Protective Structure) when the machine is used on risky ground.
7. Drive slowly in sharp bends. Keep to the recommended driving speed.
8. Avoid driving at an angle on slopes; drive straight up or down.
9. When driving close to unsafe edges or holes, ensure that at least two-thirds of the drum width is firmly on material that has already been compacted.
10. Ensure that there are no obstacles in the direction of travel, on the ground or overhead.
11. Drive extra carefully on uneven ground.
12. Use the safety equipment provided. Always wear the seat belt on machines fitted with ROPS.
13. Keep the roller clean. Clean dirt and grease from the operator's platform without delay. Keep all signs and decals clean and clearly legible.
14. Safety measures before refueling:
 - Stop the engine.
 - No smoking.
 - No naked flame in the vicinity.
 - Ground the nozzle of the filling device against the tank to prevent sparks.
15. Before repairs or service:
 - Place chocks against the drums/wheels and against the strike-off blade.
 - Lock the articulation if necessary.
16. If the noise level is higher than 85 dB(A) on machines that have no cab:
 - Hearing protectors are recommended.
17. Make no changes or modifications on the roller that could affect safety. Changes may only be made with the written consent of Dynapac.
18. Do not use the roller until the hydraulic fluid has reached its normal working temperature. Braking distance can be longer than usual if the fluid is cold. See starting instructions in the OPERATION MANUAL.

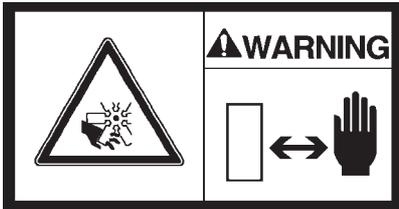
SAFETY DECALS, LOCATION/DESCRIPTION



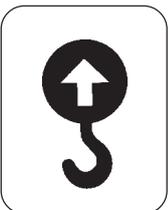
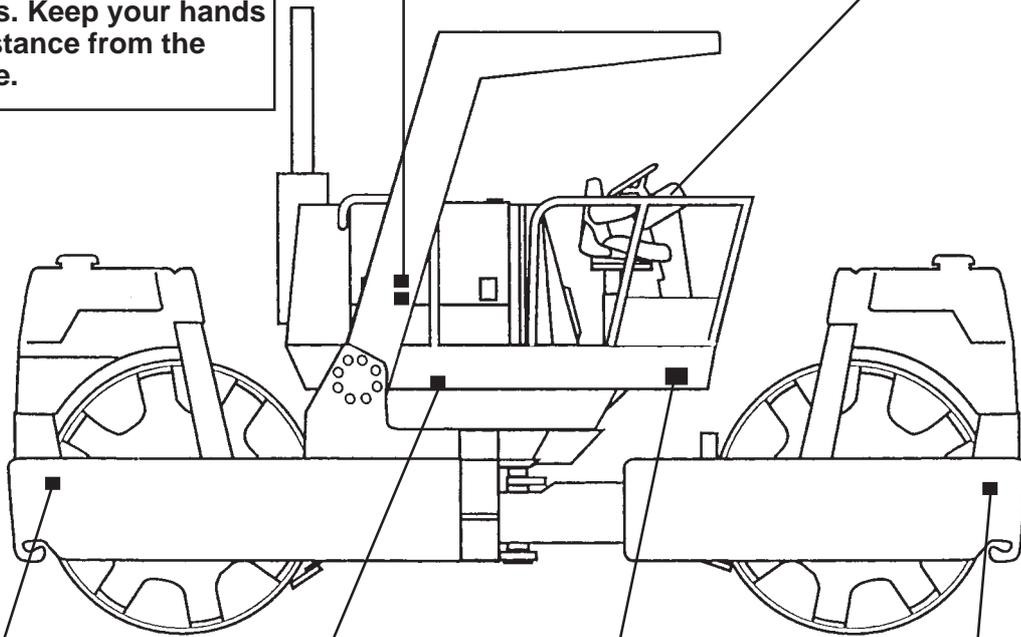
Warning - hot surface.
Do not touch!



The operator is urged to read the safety manual and the operation and maintenance instructions before using the machine.



Warning - rotating engine components. Keep your hands at a safe distance from the danger zone.



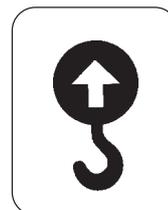
Lifting point



Hydraulic fluid



Crush zone, articulation.
Maintain a safe distance from the crush zone.



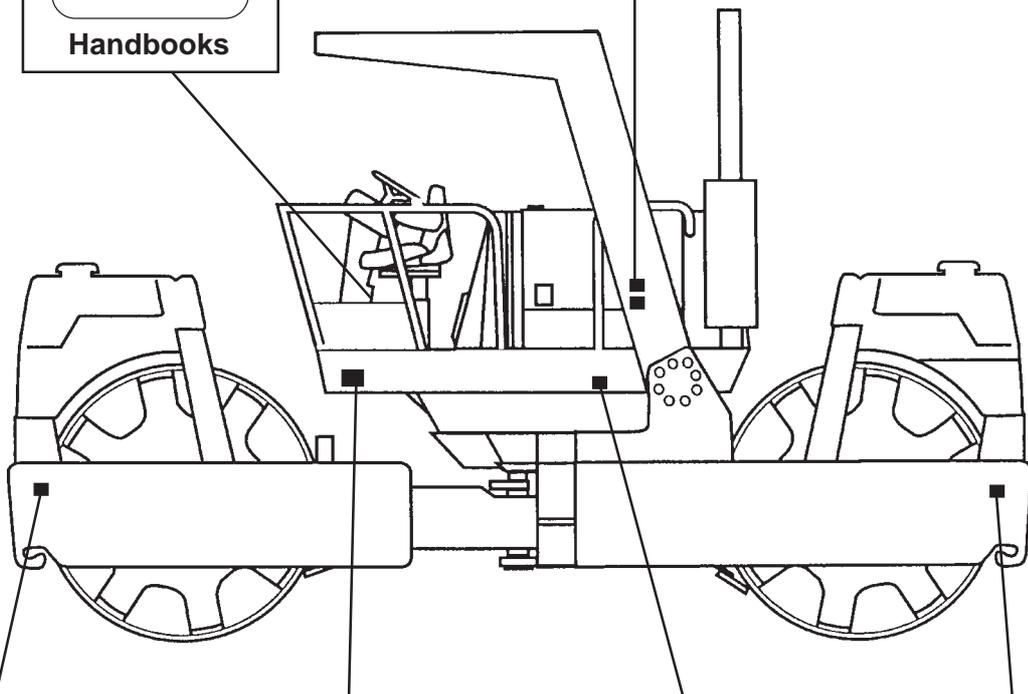
Lifting point

SAFETY DECALS, LOCATION/DESCRIPTION

**Warning - hot surface.
Do not touch!**

**Warning - rotating engine
components. Keep your hands
at a safe distance from the
danger zone.**

Handbooks



Lifting point

**Crush zone, articulation.
Maintain a safe distance
from the crush zone.**

DIESEL

Lifting point

MACHINE AND ENGINE PLATES

Machine plate

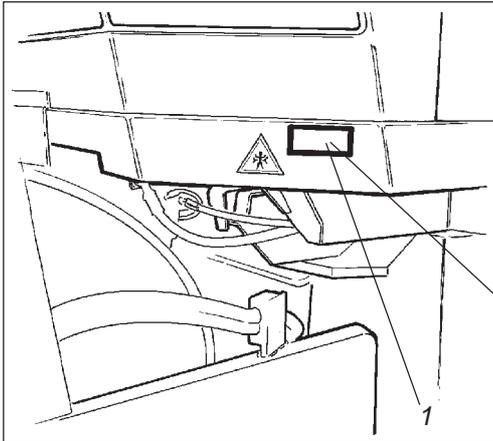


Fig. 1 Operator's platform
1. Type plate

The machine type plate (1) is affixed on the front left edge of the operator's platform. The plate shows the manufacturer's name and address, type of machine, PIN (Part Identification Number = serial number), weight in working order, engine power and year of manufacture. Please state the PIN (serial number) of the roller when ordering spares.

<small>SVEDALA</small> DYNAPAC Svedala Compaction Equipment AB Karlskrona Sweden			
Type	<input type="text"/>	Operating mass	<input type="text"/> kg
Product	<input type="text"/>	Rated power	<input type="text"/> kW
Ident. Number	<input type="text"/>	Year of Mfg	<input type="text"/>

Serial number on frame

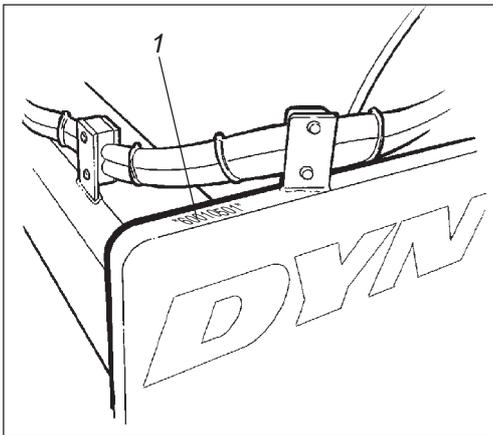


Fig. 2 Front frame
1. Serial number

The serial number of the frame (1) is punched on the right edge of the forward frame. This number is identical with the PIN on the machine data plate.

Engine plate

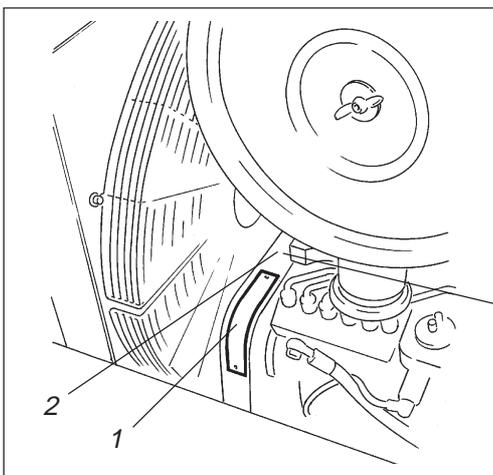


Fig. 3 Engine
1. Type plate
2. EPA sign (USA)

The engine data plate (1) is on the crankcase below the air cleaner on the right side of the engine. The plate indicates the type of engine, serial number and engine data. Please state the engine serial number when ordering spares. See also the engine manual.

IMPORTANT ENGINE INFORMATION

This engine conforms to 1999 U.S. EPA and California regulations for heavy duty non-road compression ignition diesel cycle engines as applicable.

THIS ENGINE IS CERTIFIED TO OPERATE ON DIESEL FUEL

3935108

INSTRUMENTS AND CONTROLS

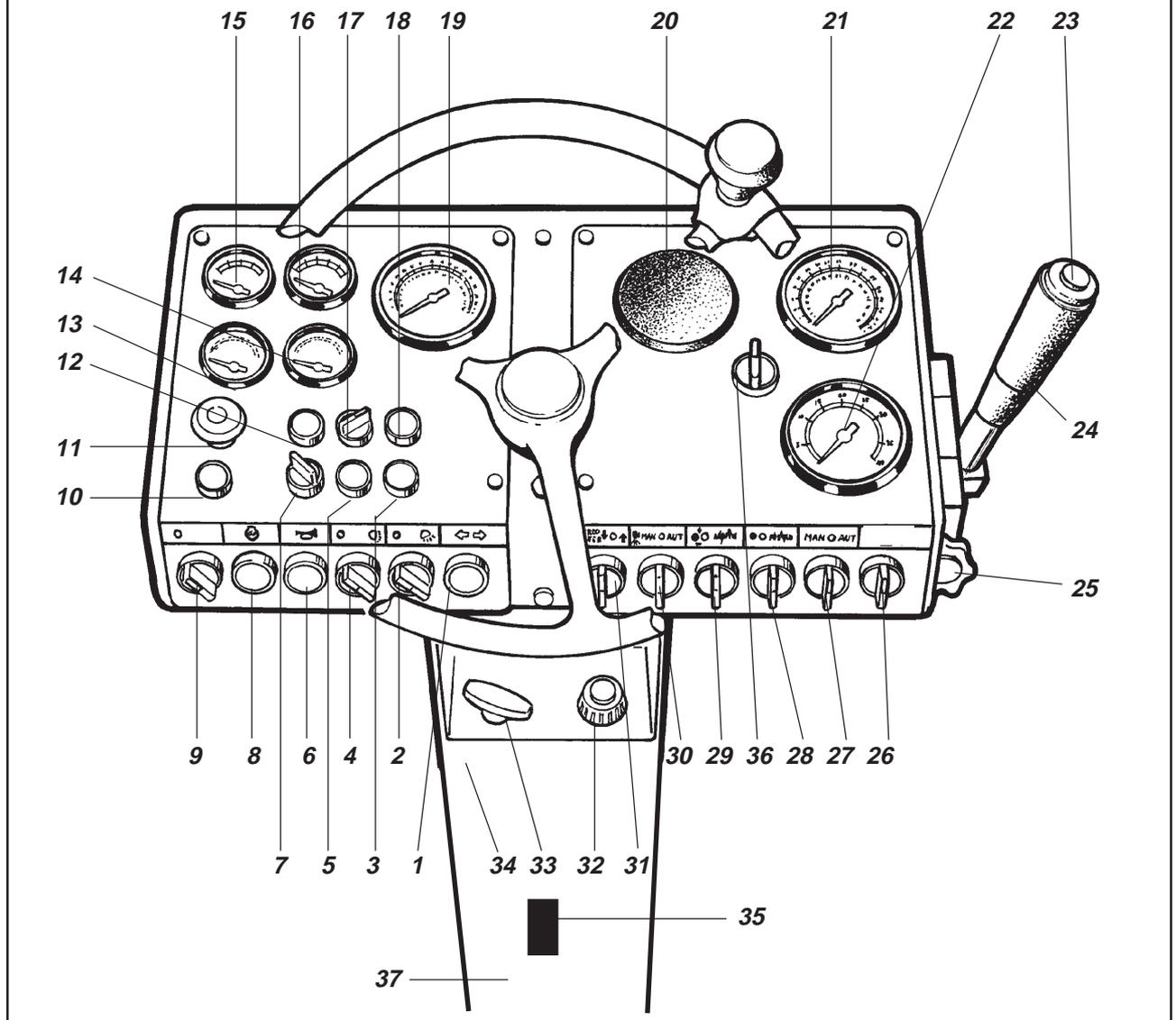


Fig. 4 Instruments and controls

- | | | |
|-------------------------------------|--|--|
| 1. Directional indicator* | 15. Temperature gauge - hydraulic fluid | 27. Vibration switch Man/Aut. |
| 2. Working lights, rear* | 16. Temperature gauge - engine | 28. Amplitude selector, High/Low |
| 3. Hazard beacon* | 17. Main/dipped beam - contact/control lamp* | 29. Amplitude selector, rear |
| 4. Driving lights* | 18. Air filter - warning lamp | 30. Watering Man/Aut. |
| 5. Hazard flashers* | 19. Tachometer/Hourmeter | 31. Frequency/Vibration meter ON/OFF (optional equipment CC 501) |
| 6. Horn | 20. Compaction meter* | 32. Rev control |
| 7. - | 21. Speedometer* | 33. - |
| 8. Startknapp | 22. Vibration/Frequency meter* | 34. Fuse box |
| 9. Switch | 23. Vibration ON/OFF | 35. Locking pedal |
| 10. Warning lamp, brake | 24. Forward/Reverse lever | 36. Sprinkler system (tires) (for CC 501C only) |
| 11. Reserve brake/
Parking brake | 25. Speed control* | 37. Handbook compartment |
| 12. Oil pressure - diesel engine | 26. - | |
| 13. Voltmeter | | |
| 14. Fuel gauge | | |

* Optional equipment

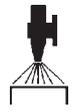
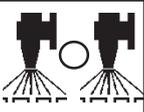
INSTRUMENTS AND CONTROLS, FUNCTIONAL DESCRIPTION

Items in fig. 4	Designation	Symbol	Function
1	Directional indicator, switch (optional)		Turn left to switch on the left directional indicator. The function is OFF in the middle position.
2	Working lights, rear, switch (optional)		Turn left to switch on the rear working lights.
3	Hazard beacon, contact (optional)		Turn right to switch on the hazard beacon.
4	Driving lights, switch (optional)		Switches ON the headlight and taillight.
5	Hazard flashers, contact (optional)		Turn right to switch on the flashing warning lights.
6	Horn, contact		Press to sound the horn.
7	-		
8	Starter contact		Press to run the starter motor.
9	Main power switch		In position O, the electric circuit is broken. In position I, all electric instruments and controls except the starter motor circuit are powered.
10	Brake warning lamp		The warning lamp lights while the reserve/parking brake is applied.
11	Reserve brake/ Parking brake, (Red knob)		OFF (pulled-out mode) is normal during operation. ON (pushed-in mode) applies the brakes and stops the roller. Put the forward/reverse level in neutral before attempting to restart.
12	Warning lamp, oil pressure - diesel engine		The warning lamp lights if lubricating oil pressure is too low. Stop the engine and remedy the cause. See engine manual.
13	Voltmeter		Indicates voltage in the electrical system. Normal indication is 12–15 Volt.
14	Fuel gauge		Indicates the level of the fuel tank.
15	Temperature gauge, hydraulic fluid		Indicates the temperature of the hydraulic fluid. Normal temperature range 65°C–80°C (149°F–176°F). Stop the engine if the meter indicates more than 85°C (185°F) and remedy the cause.

INSTRUMENTS AND CONTROLS, FUNCTIONAL DESCRIPTION, cont'd.

Items in fig. 4	Designation	Symbol	Function
16	Temperature gauge, coolant		Indicates engine working temperature. Normal temperature range 82°C–95°C (180°F–203°F)
17	Main/dipped beam, contact/ control lamp (optional)		Turn right for main beam, knob lights. Turn left for dipped beam, knob light goes out.
18	Warning lamp, air filter		If the warning lamp lights while the engine is running, the air cleaner needs cleaning or replacement.
19	Tachometer/Hourmeter		Indicates current engine speed in revs per minute. Multiply the meter value by 100. The running time in hours is indicated digitally.
20	Compaction meter (optional)	-	-
21	Speedometer (optional equipment for CC 501)		Indicates roller speed in km/h.
22	Vibration/Frequency meter (optional equipment for CC 501)		Indicates current frequency of the drum. Contact (31) in correct position.
23	Vibration ON/OFF		Press to switch vibration on. Press again to switch vibration off. Applies when (27) is in the MAN mode.
24	Forward/Reverse lever (F/R lever)		Move the lever to the desired direction of travel. Driving speed is proportional to the movement of the lever. The roller is braked via the hydrostatic transmission as you move the lever toward neutral. The engine can only be started with the lever in neutral.
25	Speed control (optional equipment for CC 501)		Limits movement of the F/R lever and thus the speed. The speed control can be bypassed.
26	-	-	-
27	Vibration switch MAN/AUT.	MAN O AUT 	In MAN mode, the vibration is switched ON/OFF with (23). Vibration is OFF in the O mode. The AUT mode gives automatic switching of vibration ON/OFF when driving forward or reverse.

INSTRUMENTS AND CONTROLS, FUNCTIONAL DESCRIPTION, cont'd.

Items in fig. 4	Designation	Symbol	Function
28	Amplitude selector, front		In HIGH mode, the amplitude is 0.73 mm (0.03 in) and centrifugal force is 187 kN/drum (42,040 lbf).
29	Amplitude selector, rear (CC 501 only)		In LOW mode, the amplitude is 0.37 mm (0.015 in) and centrifugal force is 94 kN/drum (21,130 lbf).
	Sequence selector (CC 501 only)		Applies vibration on drum in relation to direction of travel (on changing F and R).
30	Watering, operating contact MAN/AUT.	MAN O AUT 	Controls the water flow to both the front and rear drums. MAN mode gives continuous watering. Watering is OFF in the O mode. The AUT mode gives automatic switching of watering ON/OFF while driving forward or reverse.
31	Vibration/Frequency meter (optional equipment for CC 501)	FREQ METER 	Switches on the vibration/frequency meter.
32	Rev control (Diesel)		Released/engaged by the center button. Pull out to increase engine revs. Push in to reduce. Turn/screw the handle for fine adjustment. Counterclockwise = increase and clockwise = reduce.
33	-	-	-
34	Fuse box (on side of steering column)		Contains fuses for the electrical system. See under the heading "Electrical system" for description of function for the different fuses.
35	Locking pedal		Disengages the control table to turn to left or right operator's position.
36	Sprinkler system (tires) Continuous/intermittent (CC 501 only)		Controls the flow of water to the tires. Continuous or intermittent watering.
37	Handbook compartment		Pull up and open the top of the compartment for access to handbooks.

CONTROLS IN THE CAB

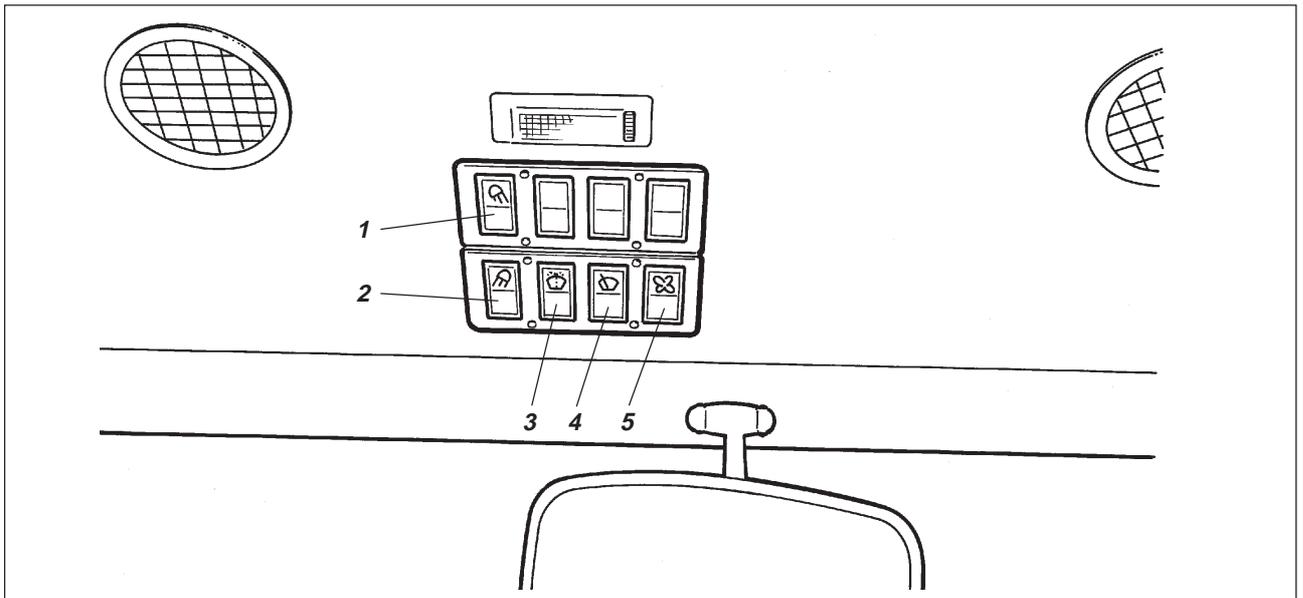


Fig. 5a Cab roof

1. Working lights, rear
2. Working lights, front
3. Windshield wash
4. Windshield wiper
5. Ventilation fan

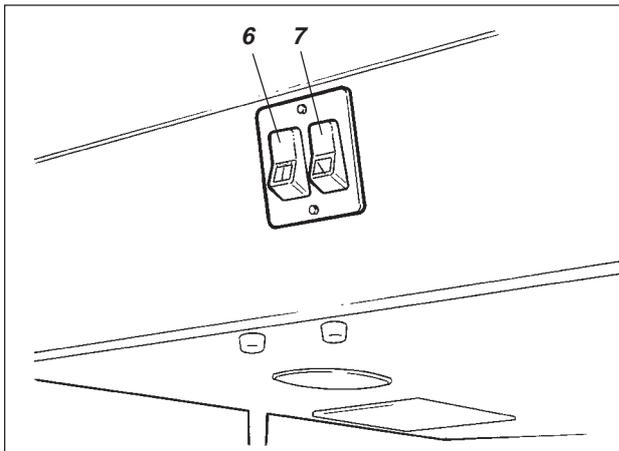


Fig. 5b Cab roof, left side

6. Wash, left side window
7. Wiper, left side window

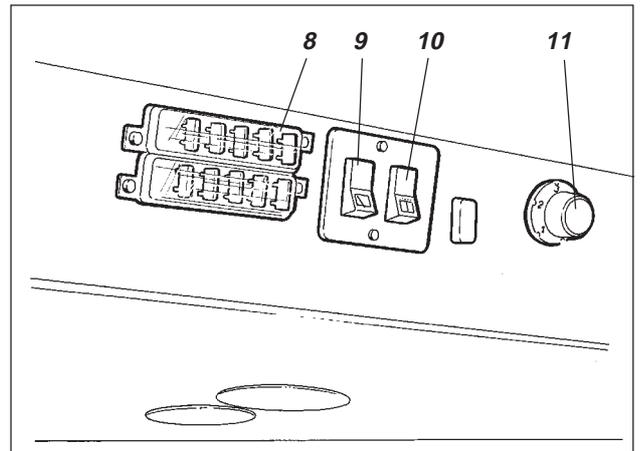
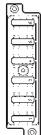


Fig. 5c Cab roof, right side

8. Fuse boxes
9. Wiper, right side window
10. Wash, right side window
11. Heater control

CONTROLS IN THE CAB, FUNCTIONAL DESCRIPTION

Items in fig. 5	Designation	Symbol	Function
1	Working lights, rear, switch		Press to switch on the rear working lights.
2	Working lights, front, switch		Press to switch on the front working lights.
3	Windshield wash, switch		Press to wash the windshield.
4	Windshield wiper, switch		Press to operate the windshield wiper.
5	Ventilation fan, switch		Press to start the cab ventilation fan.
6	Wash, left side window, switch		Press to wash the left side window.
7	Wiper, left side window, switch		Press to operate the left side-window wiper.
8	Fuse boxes (cab)		Contains fuses for the electrical system. See under the heading "Electrical system" in the Maintenance Manual for a description of the functions of the different fuses.
9	Wiper, right side window, switch		Press to operate the right side-window wiper.
10	Wash, right side window, switch		Press to wash the right side window.
11	Heater control, knob		Turn clockwise to increase cab temperature.

BEFORE START

Battery disconnecter - Switching on

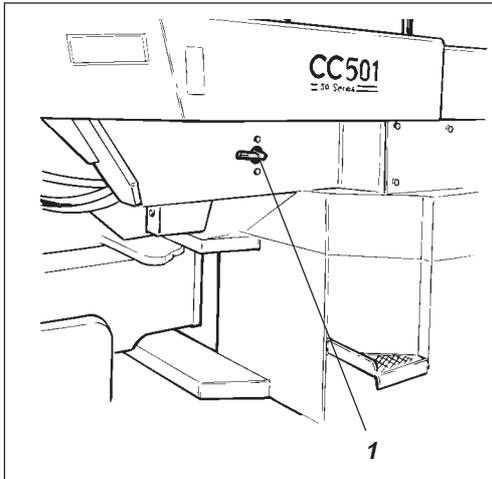


Fig. 6 Battery disconnecter
1. Knob

Ensure that daily service is performed.
See MAINTENANCE MANUAL.

Ensure that the battery disconnecter (1) is switched ON.

Water tanks - Level

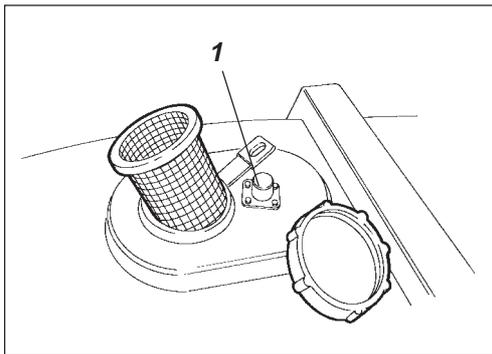


Fig. 7 Water tank
1. Level gauge

Ensure that the water tanks are full before beginning operation on asphalt. See the respective level meter (1).

Operator's table - Setting

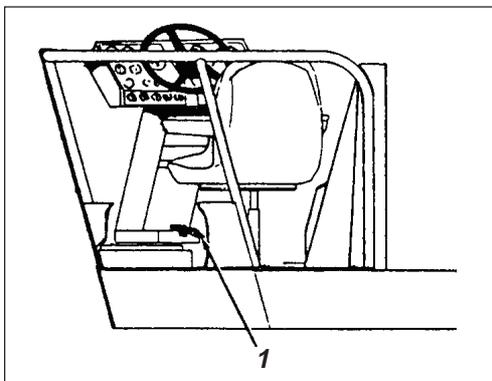


Fig. 8 Operator's platform
1. Locking pedal

Press down the locking pedal (1) for the control table and set to the desired position. Release the pedal and ensure that the control table is latched before driving.

Operator's seat - Setting

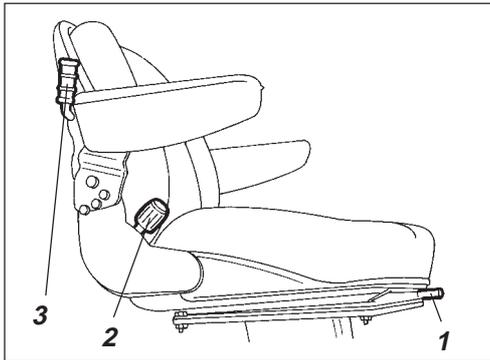


Fig. 9 Operator's seat

1. Length adjustment
2. Seat-back setting
3. Cushioning adjustment

Position the operator's seat so that the controls are easily accessible.

The seat can be adjusted as follows:

- Lengthwise (1)
- Seat-back slope (2)
- Cushioning in relation to the operator's weight (3)

Instruments and controls - Check

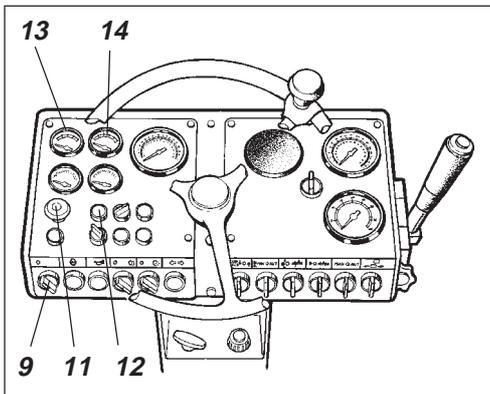


Fig. 10 Instrument panel

9. Starter switch
11. Parking brake knob
12. Oil pressure lamp
13. Voltmeter
14. Fuel gauge

Ensure that the parking brake knob (11) is pulled out.

Turn the starter switch (9) to position I.

Check that the voltmeter (13) goes up to at least 12 volt.

Check that the fuel gauge (14) gives a reading.

Check that the oil pressure lamp (12) lights.

Speed control

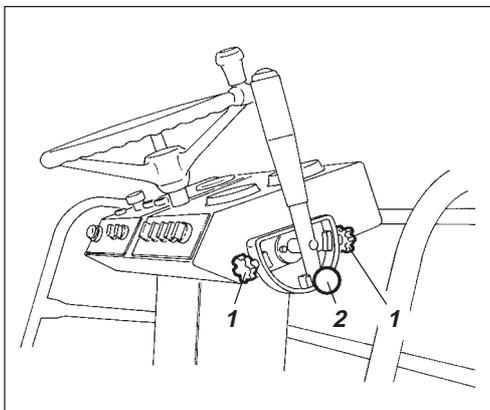


Fig. 11 Speed limiting device

1. Setting knob
2. Disengagement device

The machine is provided with a speed control device that can be disengaged for transportation driving.

Loosen the knob (1) on the speed control device. Set the forward/reverse lever to the desired speed and tighten the knob.

You can use the forward/reverse lever to bypass the speed control by pulling out the speed control knob (2).

BEFORE START, cont'd.

Emergency stop - Check

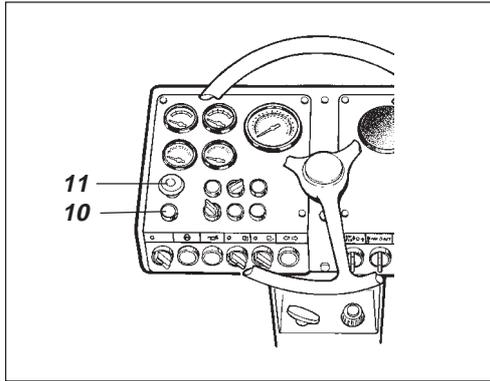


Fig. 12 Instrument panel

11. Parking brake knob
10. Brake warning lamp

Pull up the parking brake knob (11) and check that the brake warning lamp (10) is out.

Field of view

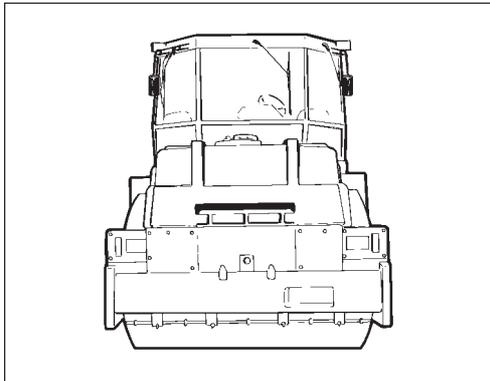


Fig. 13a Field of view

Before starting, make sure that the field of view is unobstructed, both in front and behind. All cab windows must be clean and rearview mirrors properly adjusted.

Operator's station

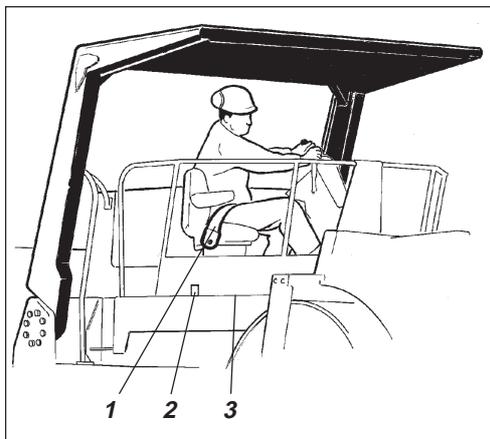


Fig. 13b Operator's station

1. Seat belt
2. Rubber element
3. Anti-slip

Fasten the seat belt (1) provided if ROPS or a cab is fitted on the roller and wear a protective helmet.



Always replace the seat belt with a new one if it is worn or has been subjected to a heavy load.



Check that the rubber elements on the platform are intact. Worn elements will impair comfort.



Ensure that the anti-slip on the platform is in good condition; replace with new anti-slip if friction is poor.

STARTING

Starting the engine

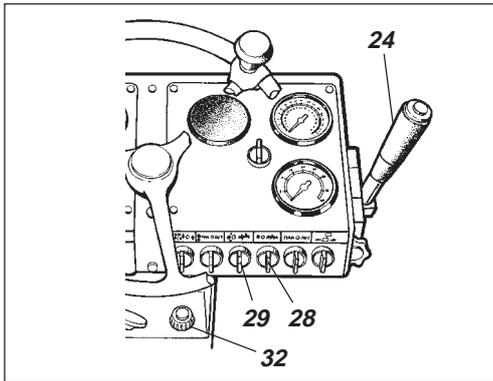


Fig. 14a Instrument panel, right

- 24. Forward/reverse lever
- 28. Amplitude selector, front
- 29. Amplitude selector, rear
- 32. Rev control

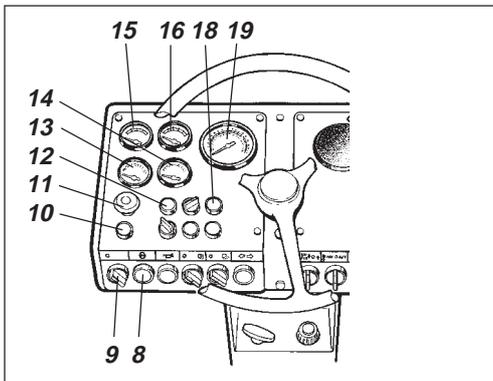


Fig. 14b Instrument panel, left

- 8. Starter contact
- 9. Switch
- 10. Warning lamp, brake
- 11. Parking brake knob
- 12. Warning lamp, oil pressure
- 13. Voltmeter
- 14. Fuel gauge
- 15. Temperature gauge, hydraulic fluid
- 16. Temperature gauge, engine
- 18. Warning lamp, air filter
- 19. Tachometer/hourmeter

Set the forward/reverse lever (24) in neutral. The engine cannot be started if the lever is in any other position.

Set the amplitude selectors (28 and 29) to the O mode.

Press the button on the rev control (32) and increase to $\frac{1}{4}$ throttle. Check that the starter switch (9) is at position I.

Press the starter contact (8). Release the starter contact as soon as the engine fires.



If the engine does not start immediately, wait a while before making a new attempt.

Run the engine warm at about 1000 rpm for 5 to 10 minutes depending on the ambient temperature. Check that the tachometer/hourmeter (19) gives a reading.

Check while warming up that the voltmeter (13) indicates 13–15 volt, and that the warning lamps (12) and (18) are out.

The filter must be washed or replaced if the air filter warning lamp (18) lights. See MAINTENANCE MANUAL.

Check that the temperature gauges for engine coolant (16) and hydraulic fluid (15) indicate suitable readings.



When you start up and drive a cold machine, the hydraulic fluid is cold, and the braking distance will be longer than normal until the machine reaches normal working temperature.



Ensure that ventilation (extraction) is adequate if the engine is run indoors. (Risk of carbon monoxide poisoning.)

OPERATION

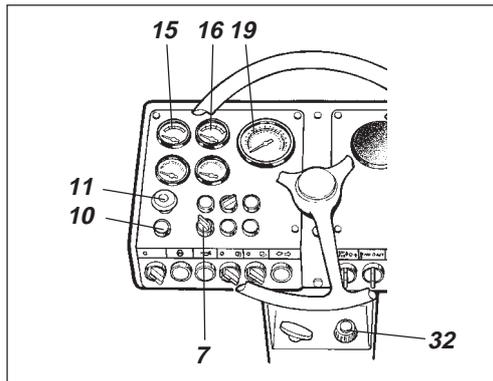


Fig. 15a Instrument panel, left

- 7. Switch, main/dipped beam
- 10. Warning lamp, brake
- 11. Parking brake knob
- 15. Temperature gauge, hydraulic fluid
- 16. Temperature gauge, engine
- 19. Tachometer/Hourmeter
- 32. Rev control

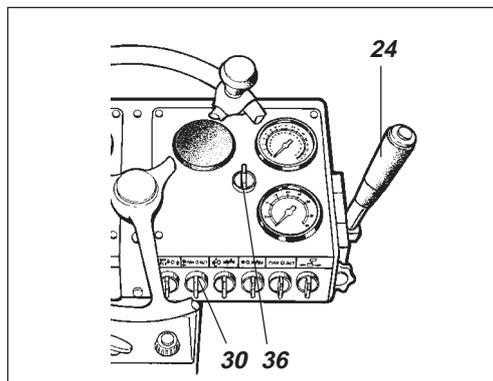


Fig. 15b Instrument panel, right

- 24. Forward/Reverse lever
- 30. Watering MAN/AUT
- 36. Watering, tires

Open the throttle (32) until engine speed is 2200 rpm on the tachometer (19). Turn the control knob (32) to finely adjust:

Counterclockwise = increase and clockwise = reduce.

Check that the steering is working by turning the steering wheel once to the left and once to the right, while the roller is stationary. The steering should work smoothly and without jerks or interruption.



Ensure that the area in front of and behind the roller is clear.

For operation on asphalt, turn on the watering system (30) for the drum (36) for the tires (Combi). Use the AUT mode to save water.

The parking brake knob (11) is to be pulled out and the lamp (10) out.

Carefully move the forward/reverse lever (24) in the desired direction of travel. Speed increases as the lever is moved farther from the neutral position.



Speed must always be regulated with the forward/reverse lever and not by changing the engine speed.

Push the emergency stop button to check for proper operation.

Parking brake knob (11) while the roller is running **slowly** forward or reverse.

The roller should then slow down and come to a standstill as the control lamp (10) lights.

The forward/reverse lever (24) must be restored to neutral before operation can continue.

As you drive, check that the gauges show normal readings and that the warning lamps do not light.

Max. temperature of hydraulic fluid (15): 85°C (185°F).

Max. coolant temperature (16), diesel engine: 100°C (212°F).

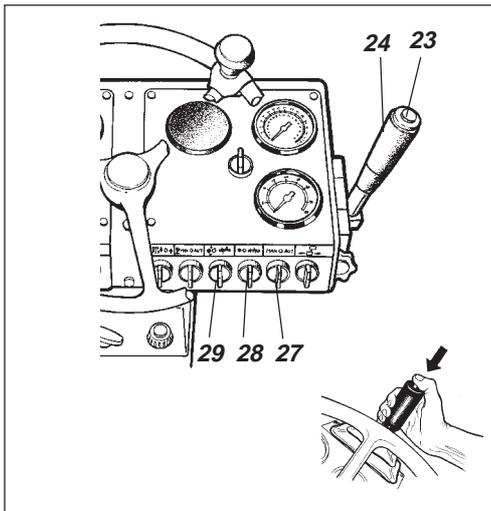


Fig. 16 Instrument panel

- 23. Vibration ON/OFF
- 24. Forward/Reverse lever
- 27. Vibration switch (MAN/AUT)
- 28. Amplitude selector (High/Low)
(CC 501 only)
- Amplitude selector, front (High/Low)
- 29. Amplitude selector, rear (High/Low)



Vibration may not be applied while the roller is stationary.

1. Set normal operating speed of the engine (2200 rpm) so that maximum rate of vibration 2700 VPM (45 Hz) is obtained.

2. Set the desired amplitude (high or low) on the front and rear drum with (28) and (29). Set the vibration selector (27) to MAN or AUT.

In AUT mode: Vibration is automatically switched ON and OFF by the forward/reverse lever during operation.

In MAN mode: Vibration is switched ON and OFF with the button (23) on the forward/reverse lever.

Manual vibration

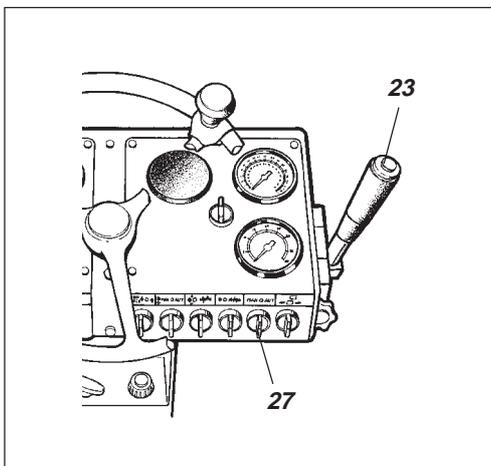


Fig. 17 Amplitude setting

- 23. Vibration ON/OFF
- 27. Vibration setting
MAN-O-AUT



The amplitude setting may not be altered while the vibration motor is running. Wait until vibration stops before resetting.

Set the vibration selector (27) to MAN.

Move the forward/reverse lever forward or back.

Switch the vibration ON with the button (23) on the forward/reverse lever. Both drums are activated.

The roller can be run with vibration in one drum only by setting the respective amplitude selector to the O position.



Wait until the roller is moving before switching on the vibration.

DRIVING/VIBRATION, cont'd.

Automatic vibration

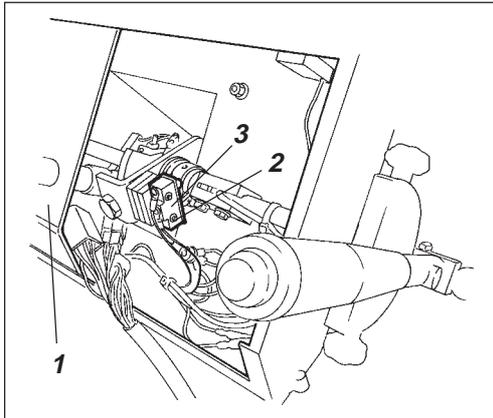


Fig. 18 Engaging the vibration

1. Instrument plate
2. Adjustment
3. Microswitch

With the vibration switch (27) in the AUT mode, the vibration is automatically switched ON and OFF by the forward/reverse lever at the pre-set speed.

Vibration is connected via two microswitches that are each activated by a cam on the axle of the forward/reverse lever. The connecting position and thus the speed is adjustable.

- *Cams close together.* Connection of vibration at low speed.
- *Cams apart.* Connection of vibration at higher speed. Ensure that vibration is engaged at the same speed front and rear.

SAFETY WHEN DRIVING

Driving near edge

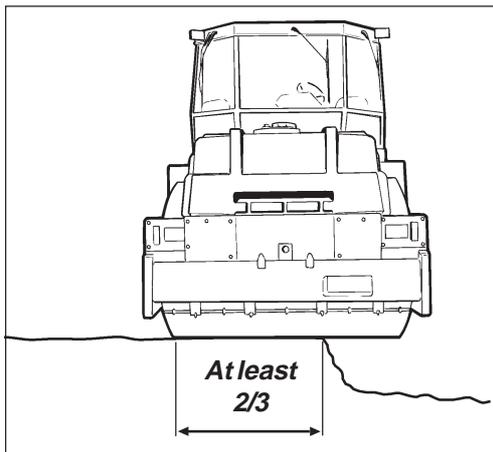


Fig. 19 Position of drum when driving near an edge

When driving near an edge, keep at least two-thirds of the drum width on solid ground.



Remember that the machine's center of gravity is displaced outward when you steer to one side. For example, it moves to the right when you steer to the left.

Slopes

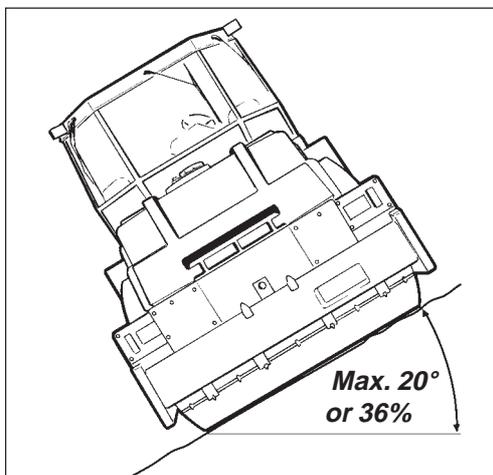


Fig. 20 Tipping angle on side slopes



ROPS, (Roll Over Protective Structure), is always recommended when driving on slopes or insecure ground.



Where possible, avoid all driving transversely across a slope. Instead, drive up and down on sloping ground. The machine will topple on side slopes greater than 20° or 36%, to the right or left.

The tipping angle given here applies to smooth, hard ground and a stationary machine. Steering angle zero, vibration switched OFF and water tanks full. Remember that loose ground, steering of the machine, vibration switched ON, driving speed and increase in height of the center of gravity (such as accessories) may cause the machine to topple even on a smaller slope than that stated here.

BRAKING

Normal and EMERGENCY STOP

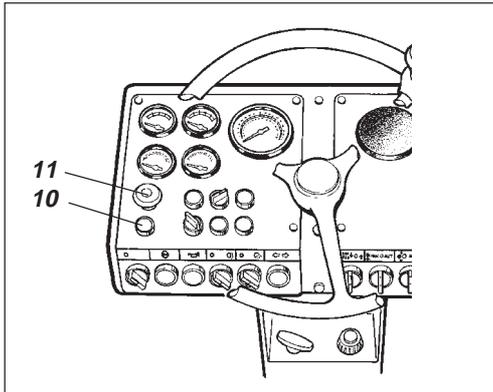


Fig. 21 Instrument panel

- 10. Indicator lamp, brakes
- 11. Reserve brake knob

Braking is normally done with the forward/reverse lever. The hydrostatic transmission brakes the roller when the lever is moved toward neutral. In addition, a disc brake in each gearbox is applied when the reserve brake knob (11) is pressed in. Lamp (10) lights.

EMERGENCY BRAKING



In an emergency, press the reserve brake knob (11). Hold the steering wheel firmly as the roller brakes.

After emergency braking: Set the forward/reverse lever in neutral. Pull out the reserve brake knob (11).



The disc brake is automatically applied to stop the roller if the engine stops or if hydraulic pressure is insufficient for any other reason.

STOPPING

Stopping the engine

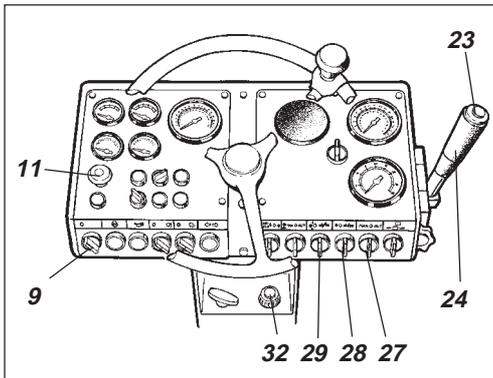


Fig. 22 Instrument panel

- 9. Switch
- 11. Parking brake knob
- 23. Vibration ON/OFF
- 24. Forward/Reverse lever
- 27. Vibration selector
- 28. Amplitude selector, front (CC 501C only)
- 29. Amplitude selector, rear
- 32. Rev control

Press (23) to switch vibration off if the vibration selector (27) is in the MAN mode. Set (27) and the amplitude selectors (28, 29) to the O mode.

Move the forward/reverse lever to neutral to stop the roller.

Set the engine speed to about 1000 rpm (32) and allow it to run for a few minutes to even out the temperature.

Press the parking brake knob (11).

Turn the switch (9) to the O position to stop the engine.

Place the protective cover over the control table. Lock as required.

Switch the battery disconnecter OFF and remove the handle from the switch.



When you start up and drive a cold machine, the hydraulic fluid is cold, and the braking distance will be longer than normal until the machine reaches normal working temperature.

PARKING

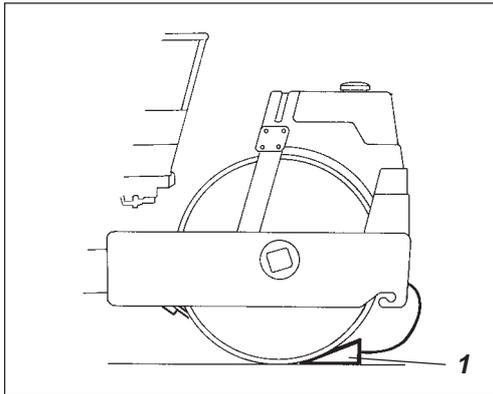


Fig. 23 Chocking the drum
1. Chock



Never leave the roller with the engine running unless the parking brake knob is pressed in.



Ensure that the roller is parked in a safe place out of the way of traffic. Chock the drums if the roller is parked on sloping ground.



Remember the risk of freezing during the winter. Check antifreeze in the engine coolant and empty the water tanks and its pumps and leads.

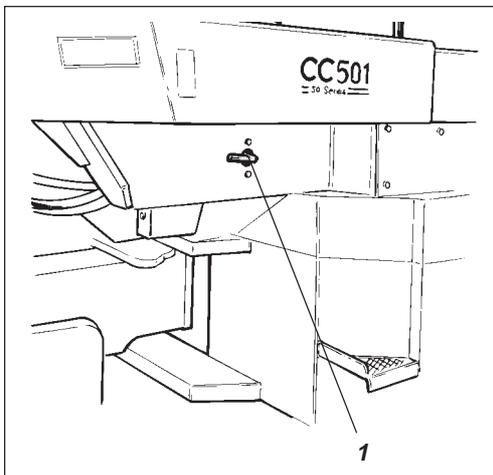


Fig. 24 Battery disconnect
1. Handle

Turn off the battery disconnecter and remove the switch handle (1) before leaving the roller.

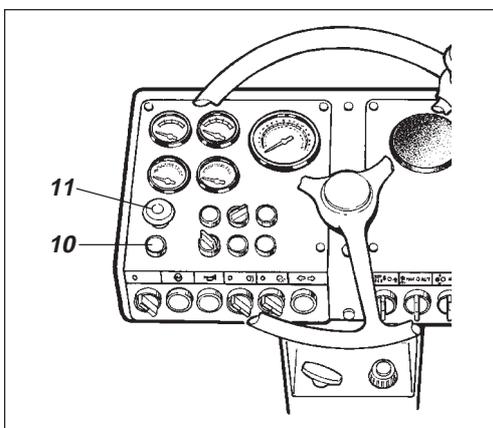


Fig. 25 Left instrument panel
10. Brake warning lamp
11. Parking brake knob

The parking brake knob (11) must always be pressed if the operator has to leave his seat for any reason while the engine is running. The brake warning lamp (10) should then light.

PARKING, cont'd.

Long-term parking

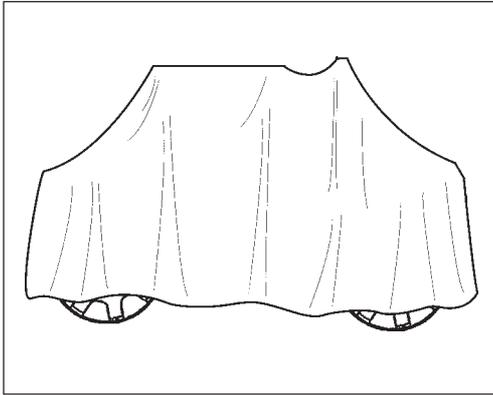


Fig. 26 Long-term parking



In the case of parking for longer than one month, please refer to the “Engine inhibition” chapter in engine manual and the “Long-term storage” chapter in the roller maintenance manual.

A suitable alternative to inhibition is to start the engine once a month and run the roller for about half an hour while operating all of the hydraulic functions, then lubricate all of the nipples and fill the fuel tank. Remember to empty the water tank and the sprinkler system.

HOISTING

Locking the articulation joint

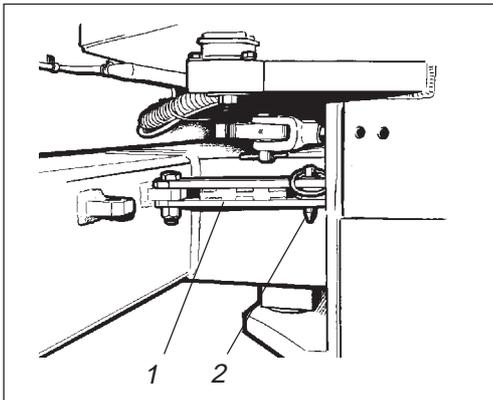


Fig. 27 Left side of articulation
1. Articulation in interlocked mode
2. Locking pin



The articulation must be locked before you lift the roller. Fold out the arm (1) and secure it to the rear machine frame with the cotter (2). Attach the lifting chains and ensure that no parts will be crushed when hoisting.



Check the weight of the machine by reading the data punched on the hoisting plate.



Steel wires, chains, etc. must be dimensioned in conformance with current regulations.

Releasing the articulation joint

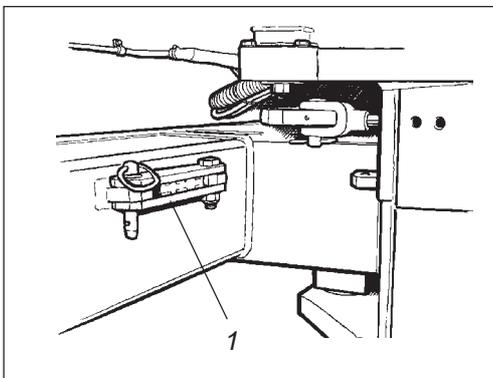


Fig. 28 Left side of articulation
1. Articulation lock in open mode

Weight: See data plate on the roller

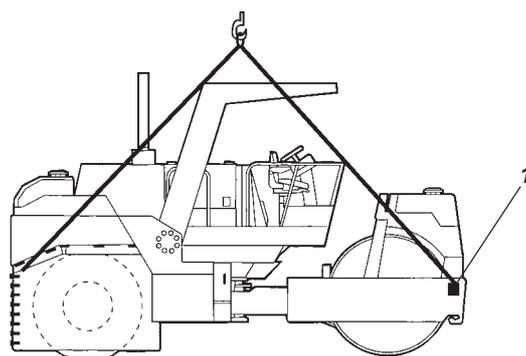


Fig. 29 Lifting the roller
1. Hoisting plate



Keep well clear of the hoisted machine. Ensure that hoisting hooks are securely anchored.



Remember to restore the articulation interlock to open mode before driving again.

TOWING

Towing short distances with engine working.

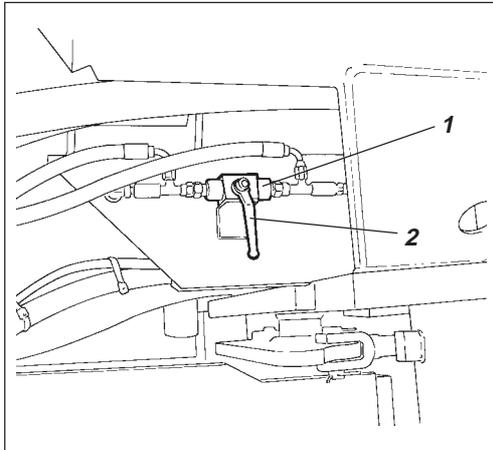


Fig. 30 Towing valve

1. Valve
2. Arm

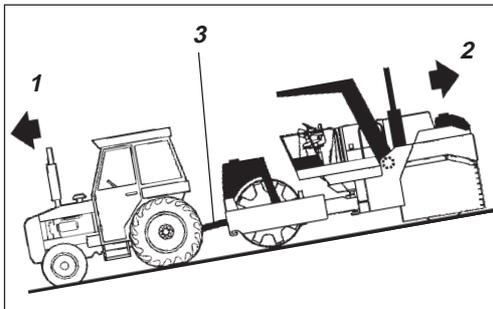


Fig. 31 Towing

1. Direction of travel
2. Counter braking
3. Towbar

Short towing distance when engine is not working (with hand pump, optional equipment for CC 501)

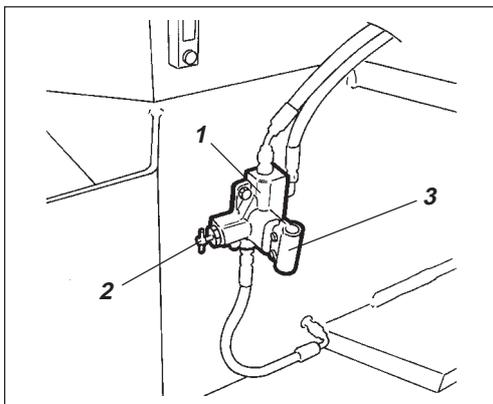


Fig. 32 Hand pump

1. Valve
2. Locking screw
3. Holder for pump arm

The roller may be moved up to 50 m as follows:

Stop the engine. Disc brakes applied.

Turn the arm (2) on the bypass valve (1) 90° to disengage the hydrostatic brake.



Check the drums before doing any work underneath the roller.

Pull out the reserve brake knob to release the disc brakes.

Start the engine and tow the roller.



The roller must always be counter-braked when towing downhill; always use a towbar because the roller will have no ability to brake.

Restore the bypass valve after towing.

Turn the arm on the bypass valve (1) 90° to disengage the hydrostatic brake.



Check the drums before doing any work underneath the roller.

Operate the hand pump (3) to apply hydraulic pressure until the disc brakes release.

The roller can now be towed.

After towing, pull out the valve to apply the brakes again.



Remember to restore the arm on the valve block to its initial position after towing.

**Towing short distances
with engine not working
(no hand pump available)**

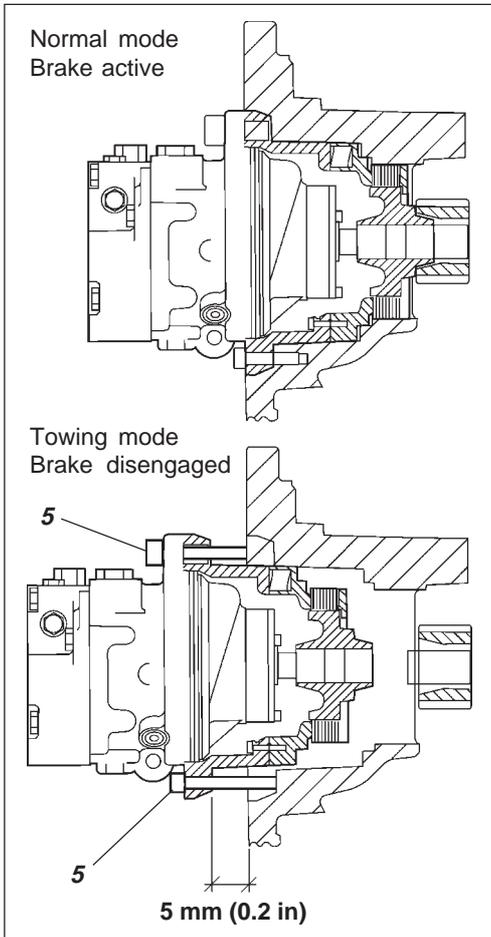


Fig. 33 Drum brake
5. Screw

Disengage the drum brakes by unscrewing the four hexagonal socket screws about 5 mm (0.2 in) and then pulling out the motor adapter against the screw heads.



Chock the drums before doing any work underneath the roller.

Turn the arm (2) on the bypass valve 90° to disengage the hydrostatic brake, see fig. 30.

The roller can now be towed.



Always use a towbar for all towing operations.

Restore all items on completion of the towing operation.

Locking the articulation joint

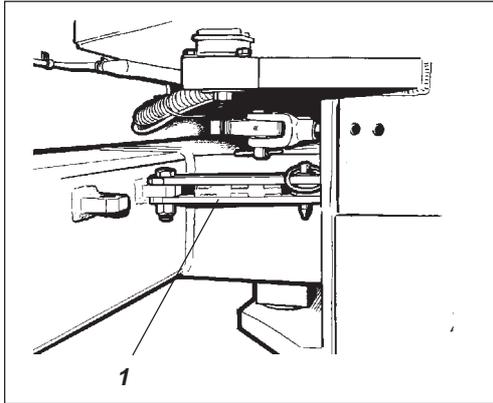


Fig. 34 Articulation joint/locking device
1. Mode for transportation and hoisting



Lock the articulation joint before transportation.

Lock the articulation joint with the interlocking device.

Roller prepared for transportation

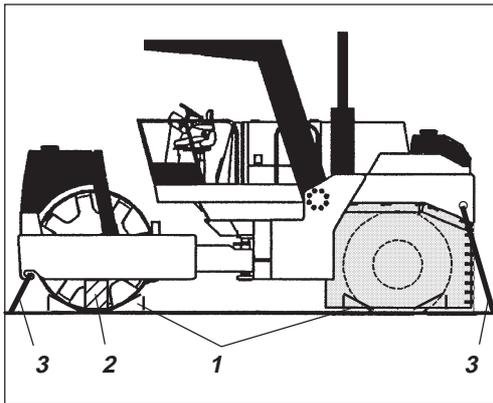


Fig. 35 Chocking the drum/frame
1. Chock
2. Blocking-up timber
3. Lashing wire/chain

Secure the drum and wheels with chocks (1) at the front, rear and sides.

Block up under the drum frame (2) to avoid overload on the rubber suspension of the drum.

Clamp down the frame with lashing wire/chain (3) at all four corners.

Releasing the articulation joint

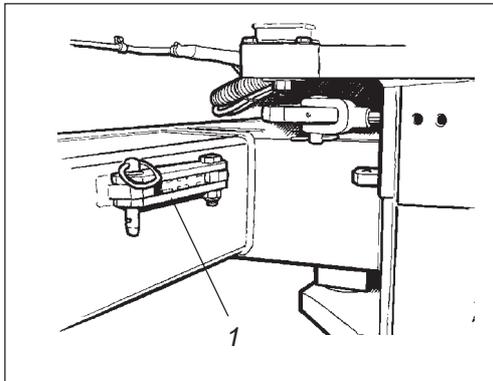


Fig. 36 Left side of articulation
1. Articulation lock in open mode



Remember to restore the articulation interlock to open mode before driving again.

OPERATING INSTRUCTIONS - SUMMARY



1. Follow the **SAFETY INSTRUCTIONS** in the **Safety Manual**.
2. Make sure that all instructions in the **MAINTENANCE MANUAL** are followed.
3. Turn the battery disconnecter switch to the **ON** position.
4. Put the forward/reverse lever in **NEUTRAL**.
5. Set the amplitude selector in **NEUTRAL**.
6. Set the stop knob in the **OFF** mode (pushed in).
7. Start the engine and allow it to warm up.
8. Ensure that the reserve brake knob is in the **OFF** mode (pulled out).



9. **Test the brakes.**
Remember that the braking distance will be longer if the roller is cold.



10. **Drive the roller. Operate the forward/reverse lever with care.**

11. Use the vibration only when the roller is in motion.
12. Ensure that the drums are watered sufficiently when needed.



13. **IN AN EMERGENCY:** - **Press the RESERVE BRAKE KNOB.**
- **Hold the steering wheel firmly.**
- **Brace yourself for a sudden stop.**

14. Parking: - Stop the engine and chock the drums.
15. Towing: - See the **OPERATION MANUAL**.
16. Lifting: - See the **OPERATION MANUAL**.