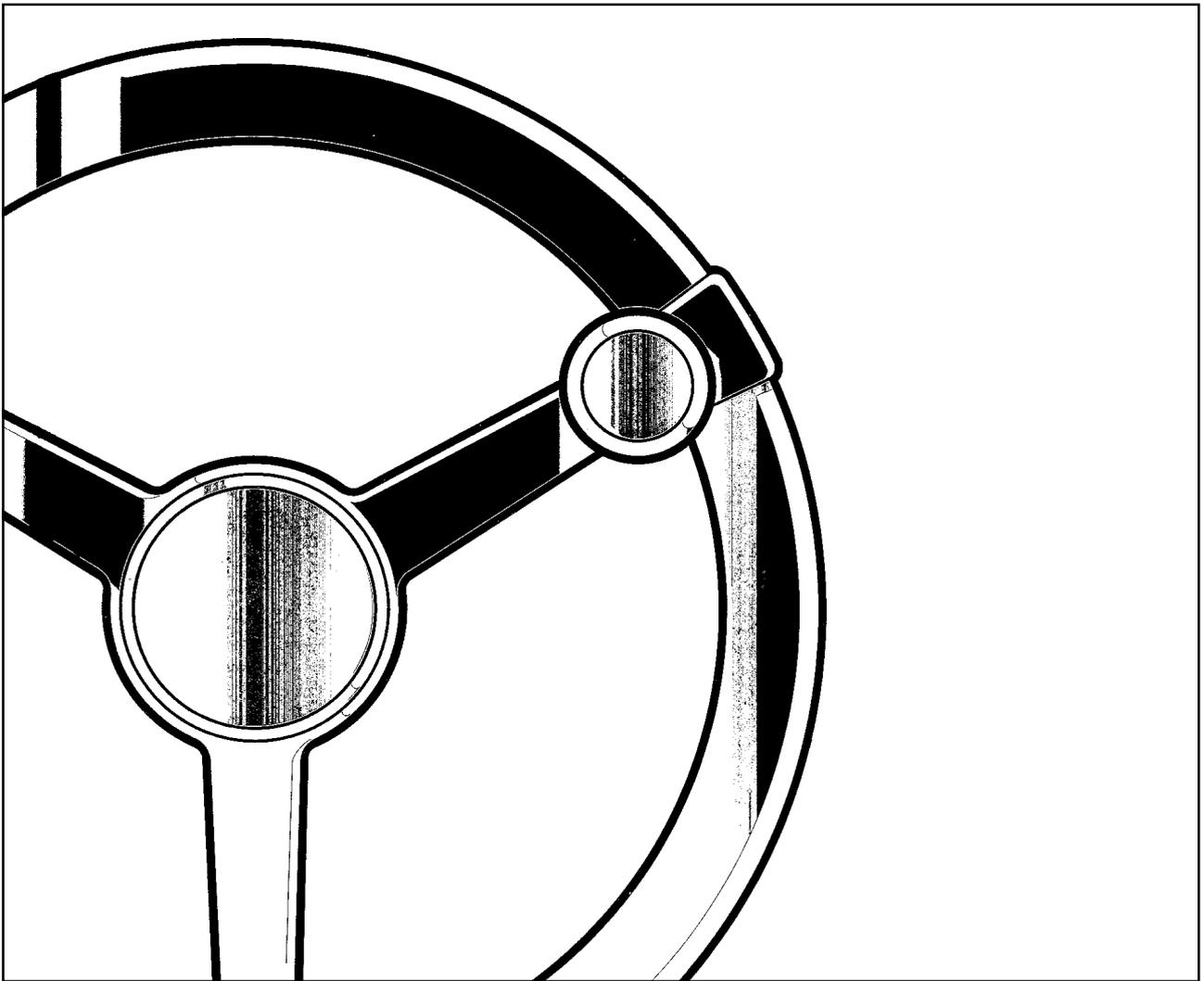


SVEDALA COMPACTION AND PAVING

# DYNAPAC CC100

# OPERATION

O100EN1



SVEDALA



**DYNAPAC**  
Svedala Compaction Equipment AB

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Telephone +46 455 30 60 00

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# Vibratory Roller

## CC100

### Operation O100EN1, 99-10-15

Diesel Engine:

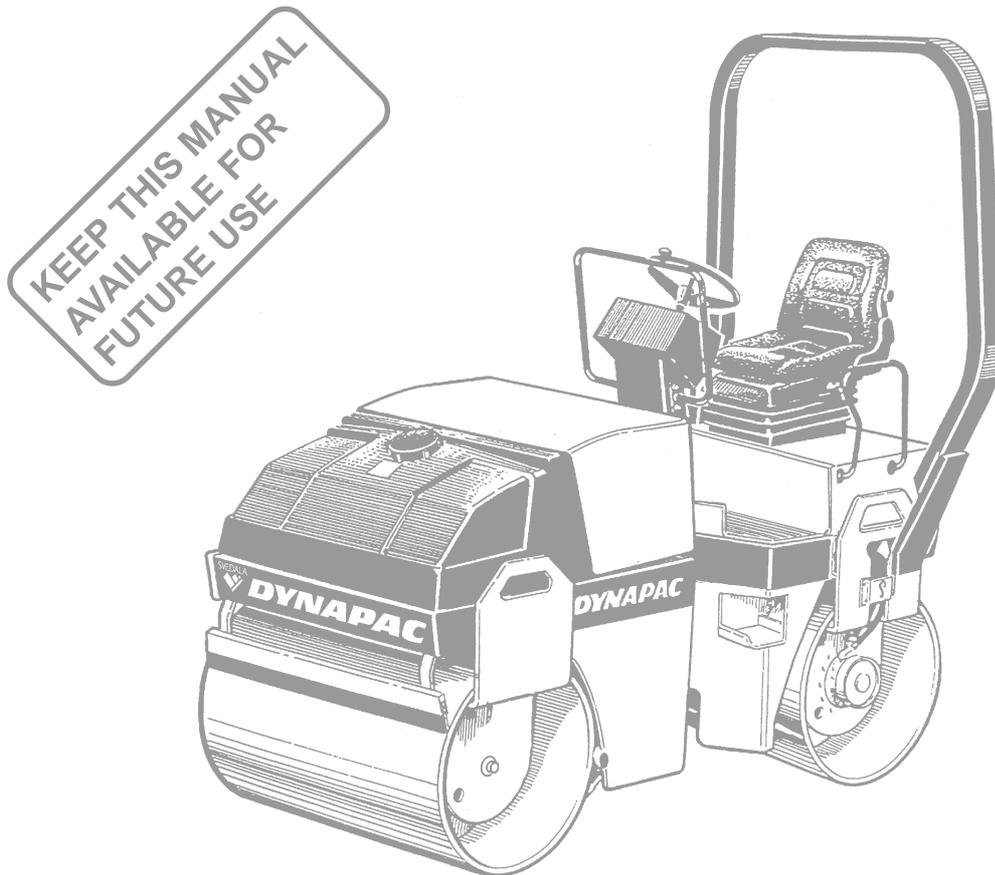
CC100 Deutz F2L 1011F, Isuzu 3 LD1PW-05

These instructions apply from:

CC100

Deutz PIN (S/N) \*60710100\*

Isuzu PIN (S/N) \*60750100\*



*CC 100 are primarily designed for repair work on asphalt but are also ideal for the compaction of new layers on small streets, pavements and cycle tracks. They are frequently used as a complement to larger rollers for the compaction of transverse joints and areas with limited access.*

## CONTENS

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## WARNING SYMBOLS



**WARNING** - Personal safety may be involved.



**CAUTION** - Damage to componente or machine.

## SAFETY MANUAL



**The safety manual that accompanies the machine should be studied by every operator of the roller. Always follow the safety instructions and do not take the manual away from the roller.**

## GENERAL

This manual contains instructions concerning operation of the machine. For information regarding care and maintenance, see "MAINTENANCE, CC 100"



This roller is fitted with an alternator. See the "MAINTENANCE" manual and decal on the machine for instructions with regard to any electric welding.



**When starting up and driving with a cold roller (cold hydraulic fluid) the braking distance will be longer than when the machine has reached normal operating 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 (Read the Safety Manual also)

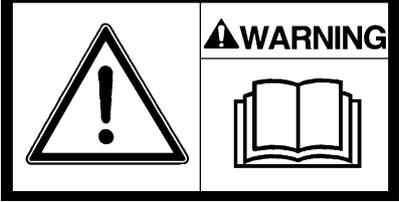


1. Read and clearly understand **OPERATING MANUAL** before starting and operating the machine.
2. Observe and follow all maintenance and service instructions.
3. Do not operate machine unless qualified by training or experience. Do not allow passengers on the roller.
4. Do not operate machine if in need of repair or adjustment.
5. Do not get on or off moving machine. Always use proper steps and hand rails.
6. Roll Over Protective Structures (ROPS) is recommended when stability conditions are questionable. Always use seat belt with ROPS.
7. Drive slowly when turning corners.
8. Avoid sidehill travel. Operate up and down the slope.
9. Ensure that at least two thirds of the drum width rests on already compacted ground when driving close to edges or holes.
10. Be alert to overhead obstacles. Look up as well as down.
11. Use special caution when operating on rough or uneven ground. Always maintain a speed consistent with working conditions.
12. Obey all safety rules and use safety equipment provided for the job.
13. Keep machine clean. Avoid dirt and grease on operator platform. Keep all instructions signs and decals clean and fully legible.
14. Exercise caution when refueling machine:
  - Shut down engine.
  - No smoking allowed.
  - Use no open flames.
  - Ground filler nozzle against tank neck to avoid a spark.
15. Block drums and/or tires and apply steering lock before servicing or repairing machine.
16. If noise levels on machine without cabs are over 85 db(A):
  - Ear protection is recommended.
17. Do not modify the machine in any way which will affect safety. Any modification on this machine requires prior written approval from Svedala Dynapac.
18. Do not operate machine until hydraulic oil has reached operating temperature. Braking distance can be extended when oil is cold. See starting instruction in **OPERATING MANUAL**.

# SAFETY DECALS, LOCATION/DESCRIPTION

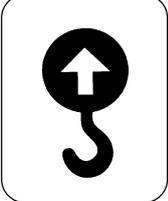


**DO NOT LEAVE DRIVER'S PLATFORM WHILE THE ENGINE IS RUNNING WITHOUT DEPRESSING THE EMERGENCY STOP SWITCH**

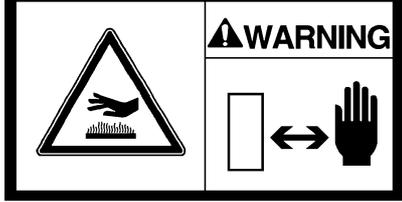


**WARNING**

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

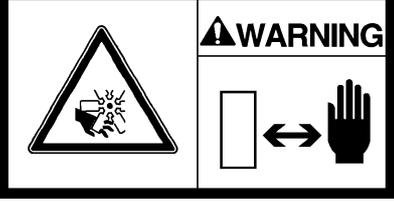


**Lifting point**



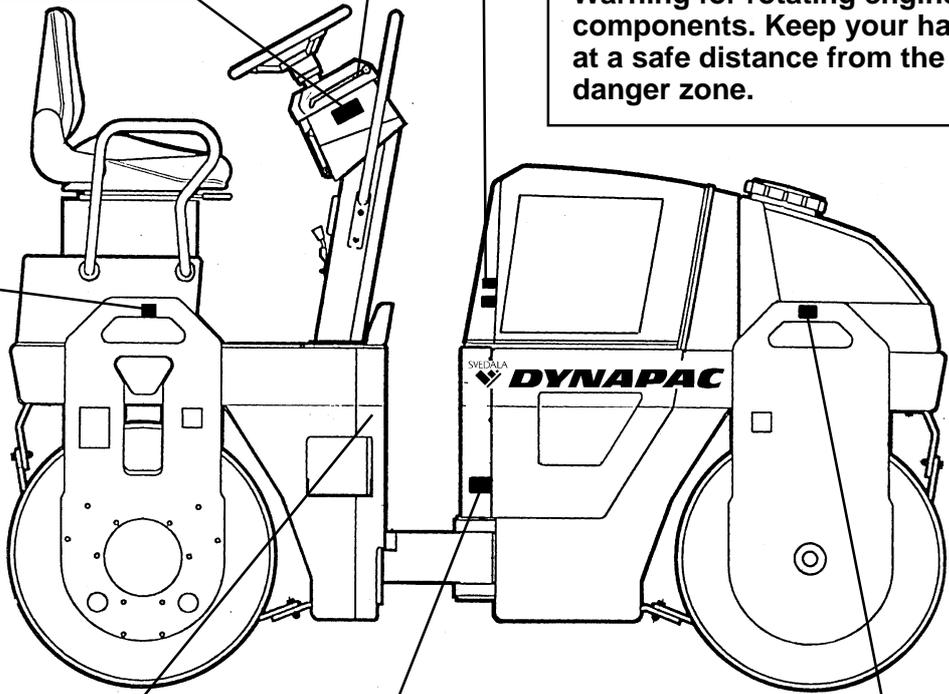
**WARNING**

Warning for hot surface. The surface must not be touched.



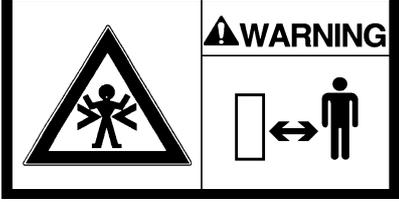
**WARNING**

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



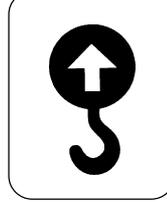

**DIESEL**

Diesel fuel



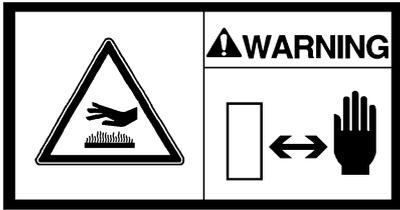
**WARNING**

Crush zone, articulated steering. Maintain a safe distance from the crush zone.

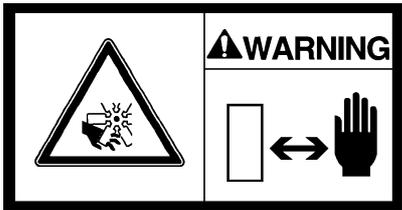


**Lifting point**

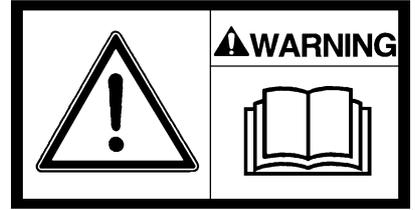
# SAFETY DECALS, LOCATION/DESCRIPTION



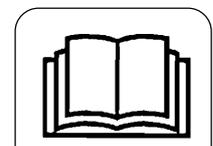
Warning for hot surface. The surface must not be touched.



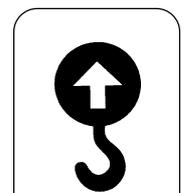
Warning for rotating engine components. Keep your hands at a safe distance from the danger zone.



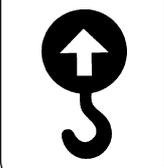
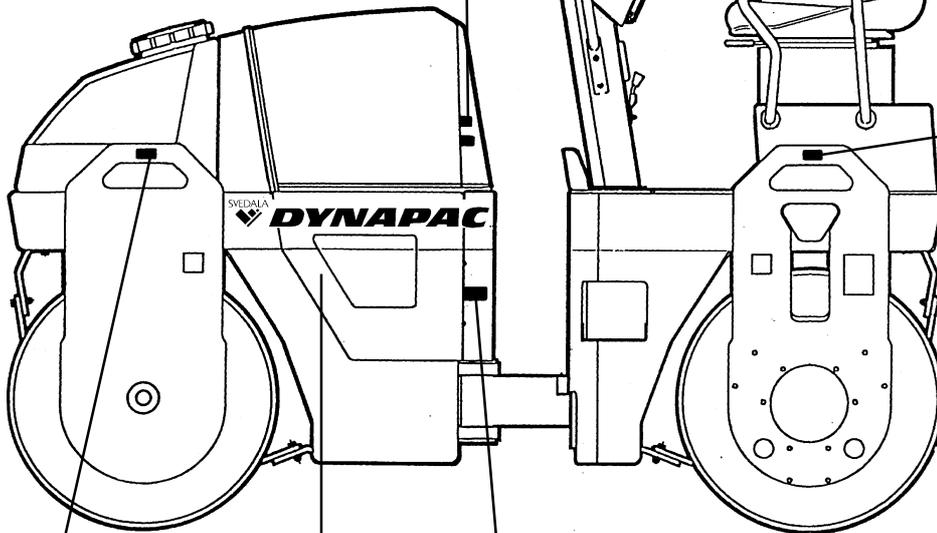
The operator is urgently requested to read the safety manual, and the operation and maintenance instructions before using the machine.



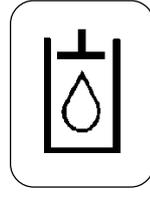
Handbooks



Lifting point



Lifting point



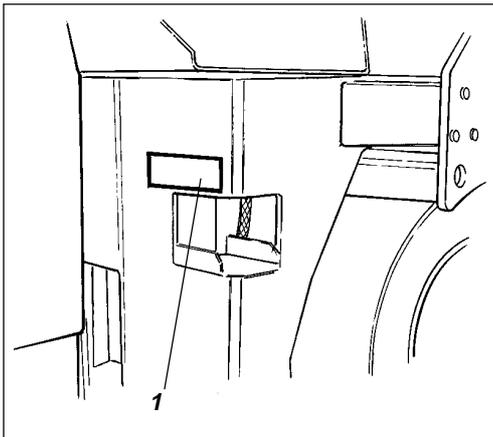
Hydraulic fluid



Crush zone, articulated steering. Maintain a safe distance from the crush zone.

## MACHINE AND ENGINE DATA PLATES

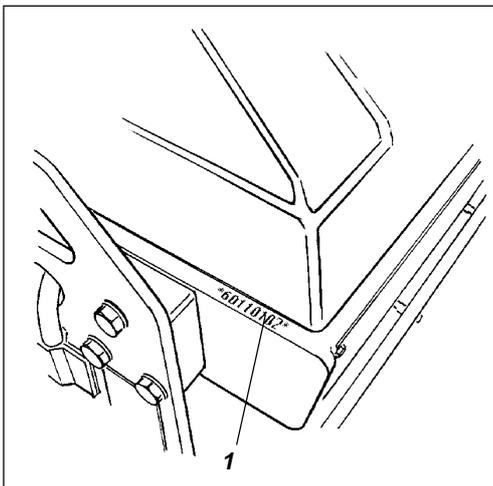
### Machine plate



**Fig. 1 Left step**  
1. Machine plate

The machine type plate (1) is affixed above the left footstep. The plate shows the manufacturer's name and address, type of machine, PIN, ie, 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.

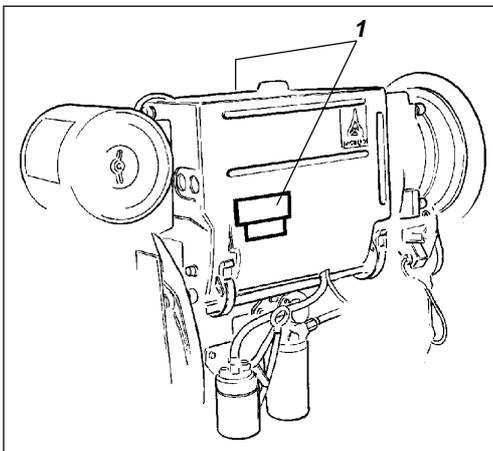
### Serial number on frame



**Fig. 2 Forward frame**  
1. Serial number

The PIN (serial number) of the frame is punched on the right edge of the front frame. This number is the same as the PIN on the machine plate.

### Engine plate



**Fig. 3 Engine (Deutz)**  
1. Type plates

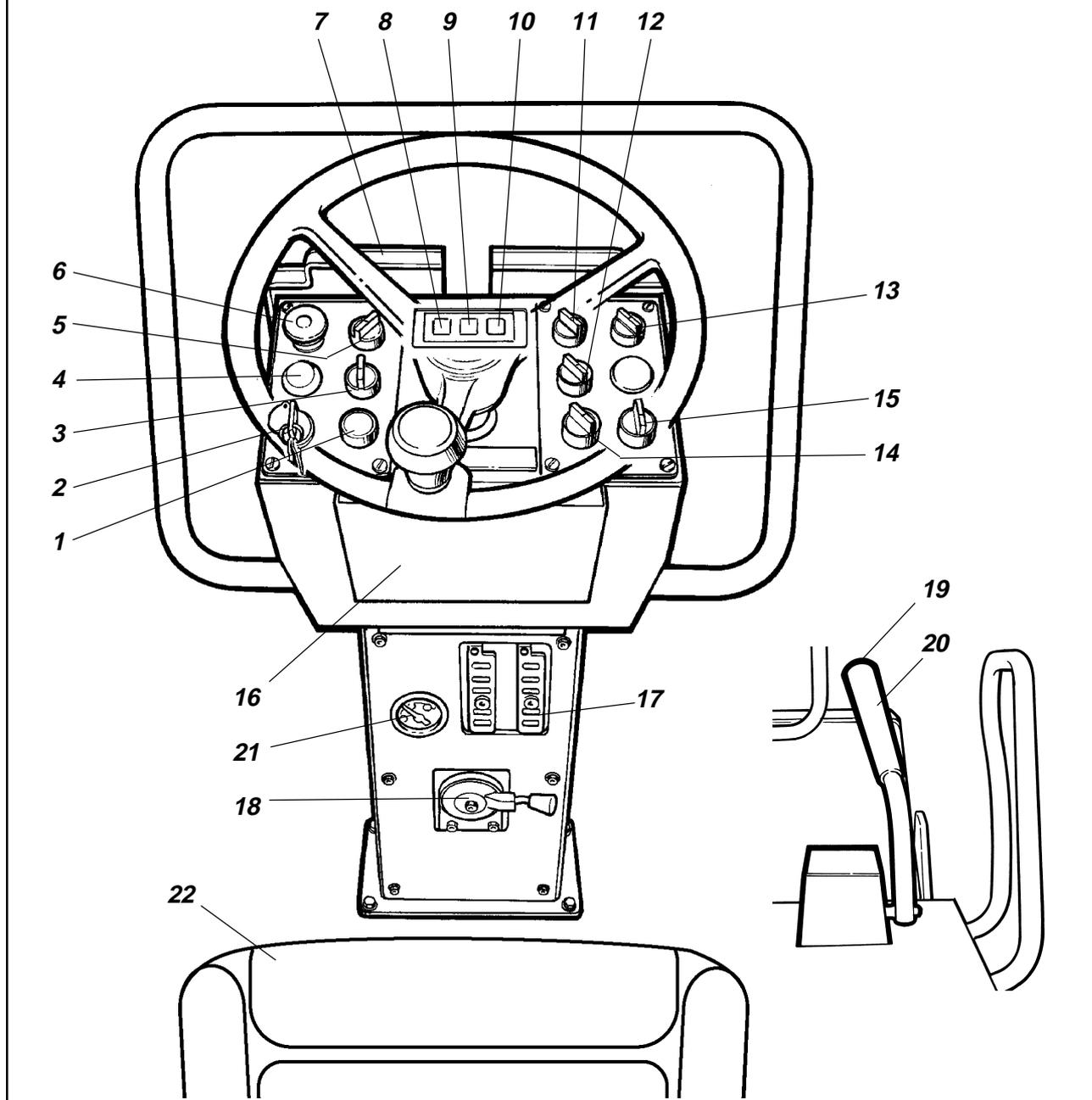
#### DEUTZ:

The engine type plate (1) is located on the crankcase. Depending on the type of engine, a second plate may also be found on the air cover. The plate shows the type of engine, serial number and engine data. Please state the serial number of the engine when ordering spares. See also the Engine Manual.

#### ISUZU:

A decal showing the engine serial number is affixed to the oil sump below the fuel and oil filter. Another decal on top of the valve cover shows the model designation for the engine. See also the engine manual.

## SWITCHES, WARNING LAMPS AND CONTROLS



**Fig. 4 Operator's station**

- |                                     |                                    |
|-------------------------------------|------------------------------------|
| 1. Horn                             | 12. *Hazard beacon                 |
| 2. Starter power switch             | 13. *Driving lights                |
| 3. Sprinkler Drum                   | 14. *Hazard flashers               |
| 4. Glow                             | 15. *Direction indicator           |
| 5. Vibration selector               | 16. Safety and instruction manuals |
| 6. Reserve/parking brake            | 17. Fuse boxes                     |
| 7. Instrument guard                 | 18. Revs control                   |
| 8. Charging lamp                    | 19. Vibration ON/OFF               |
| 9. Brake warning lamp               | 20. Forward/Revers                 |
| 10. Oil pressure/engine temperature | 21. *Fuel gauge                    |
| 11. *Working lights                 | 22. Seat switch                    |

\* Accessory

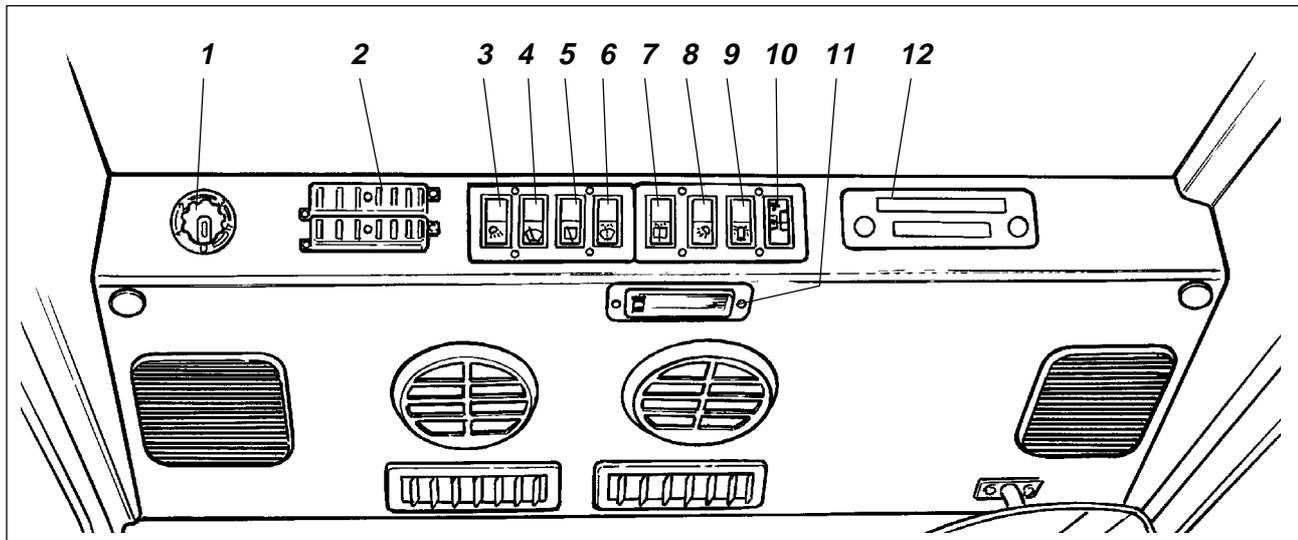
## SWITCHES AND WARNING LAMPS

Item in fig. 4	Designation	Symbol	Function
1	Horn, button		Press to sound the horn
2	Starter power switch		Electric starter circuit is broken in mode O. All electric switches and lamps are powered in mode   with the exception of the starter circuit.
3	Sprinkler system, drum	<p style="margin: 0;">MAN O AUTO</p> 	Regulates the flow of water to the drum. MAN mode, continuous watering. O mode, watering turned OFF. AUT mode, automatic switching of water ON/OFF on driving forward and reverse.
4	Starter button		Press to energize starter motor.
5	Vibration switch		Middle position = Vibration OFF. Right position = Vibration rear drum ON.
6	Reserve brake knob/ (parking brake (Red knob))	 <b>STOP</b>	OFF (pulled out) is the normal mode while driving. ON (pushed in) applies the brakes and stops the roller. The Forward/Reverse selector must be put in neutral before restarting.
7	Instrument shield		Folds over instruments to protect against weather and sabotage.
8	Charging lamp		Warning lamp lights when alternator is not charging.
9	Brake warning lamp		The brake (reserve brake) is applied when the red lamp lights.
10	Warning lamp, oil pressure, or engine oil temperature too high.		If the warning lamp lights, it is an indication that the lubrication oil pressure is too low or that the oil temperature is too high. Stop the engine and remedy the cause. See engine manual.
11	Working lights switch (Accessory)		Turn to the left to switch rear working light ON.
12	Hazard beacon switch (Accessory)		Turn to the right to switch hazard beacon ON.
13	Driving lights switch (Accessory)		Turn one step to the right = Parking lights. Second step = Front working lights.
14	Hazard flashers switch (Accessory)		Turn to the right to switch hazard flashers ON.

## SWITCHES AND WARNING LAMPS

15	Direction indicator switch (Accessory)		Turn to the left to switch left direction indicator on. Flashing function is off in the middle setting.
16	Compartment for manuals		Pull up and out at the top to gain access to manuals.
17	Fuse box (on front of steering column)		Contains fuses for the electrical system. See heading "Electrical System" for identification of the various fuses.
18	Revs control (Diesel engine)		Turn anticlockwise to increase engine revs.
19	Vibration ON/OFF		Press to switch on vibrator. Press again to switch off. Applies when (5) is in  mode.
20	Forward/Reverse lever (F/R Lever)		Move the lever in desired direction of travel. Driving speed is proportional to movement of the lever. The machine brakes on moving the lever towards neutral. Observe also that the engine can only be started with the lever in neutral.
21	Fuel gauge (Accessory)		Indicates content of fuel tank.
22	Seat switch		Remain seated for all driving. The horn will sound or the brakes will be applied if the operator does not remain seated while driving.

## SWITCHES AND CONTROLS IN THE CAB (ACCESSORIES)



**Fig. 5 Cab**

1 \*Heater control  
2. Fuses  
3. \*Working lights  
4. Front screenwiper

5. Rear screenwiper  
6. Front screenwash  
7. Rear screenwash  
8. \*Working lights

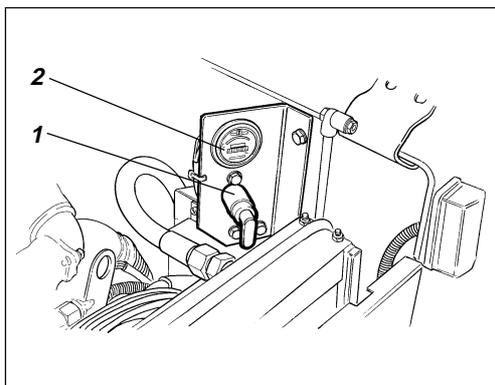
9. \*Hazard beacon  
10. Fan  
11. Interior lighting  
12. \*Radio

\* = Optional equipment

Item in fig. 5	Designation	Symbol	Function
1	Heater control *		Regulates heat in the cab. Turn clockwise to increase heat, turn anticlockwise to reduce heat.
2	Fuses (Cab)		Fuses for the electrical system. See under heading "Electrical system" for description of the various functions.
3	Working lights (front) *		Push to turn on the front working lights.
4	Front screenwiper, switch		Push to start the front wiper.
5	Rear screenwiper, switch		Push to start the rear wiper.
6	Front screenwash, switch		Push to wash the windscreen.
7	Rear screenwash, switch		Push to wash the rear window.
8	Working lights (rear) switch *		Push to turn on the rear working lights.
9	Hazard beacon, switch *		Push to switch on the hazard beacon.
10	Fan, switch		Push to start the fan.
11	Interior lighting, switch		Push forward to turn on the interior lighting.
12	Radio (optional equipment)		

## BEFORE STARTING

### Battery disconnecter - Switching on



**Fig. 6** Left side of engine

1. Battery disconnecter
2. Hour meter

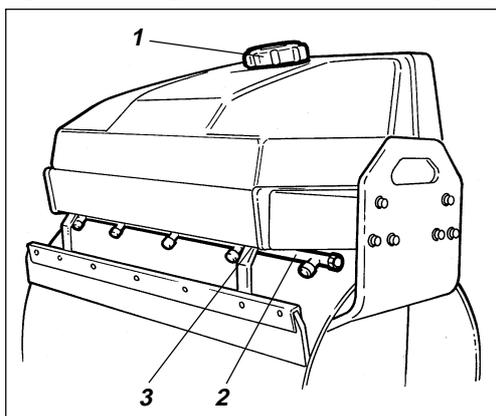
1. Ensure that the daily service has been carried out, see MAINTENANCE Manual.
2. Open the engine cover and set the battery disconnecter (1) to ON.

Item (2) is the engine hourmeter. The number of hours are counted so long as the engine is running.



For compaction operations on asphalt, ensure that the water tank at the front and the emulsion tank at the rear are filled.

### Sprinkler system/drum



**Fig. 7** Water tank

1. Filler cap
2. Sprinkler pipe
3. Fastening screws

Fill the water tank and check that the sprinkler pipe (2) is positioned to distribute a water mist over the surface of the drum. Loosen the fastening screws (3) of the pipe clamps to adjust the pipe.

### Safety belt



**Fig. 8** Operator's seat

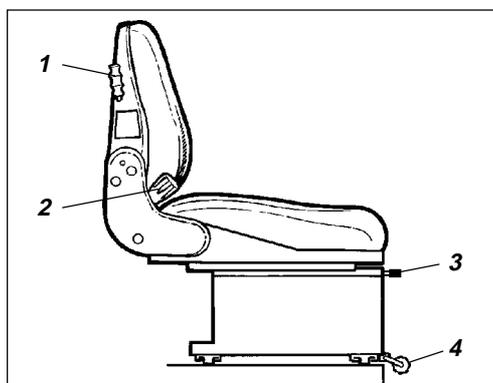
1. Safety belt

Use the safety belt (1) if ROPS or a cab is fitted on the roller.



**Always replace the safety belt with a new one if it is worn or has been subjected to great strain.**

### Operator's seat - Adjustments



**Fig. 9** Operator's seat

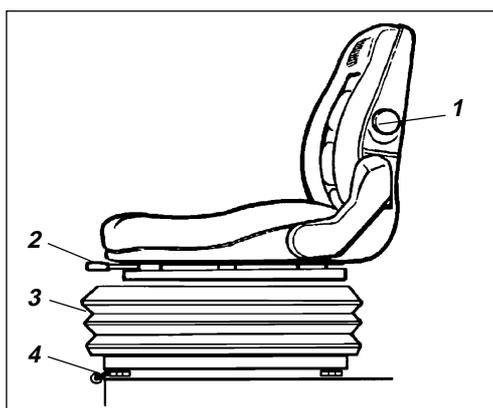
1. Weight adjustment
2. Back support slope
3. Longitudinal adjustment
4. Transverse adjustment (accessory)

1. Adjust the seat so that all the controls are easily reached.
2. The following adjustments are possible:
  - Weight adjustment (1)
  - Back support slope (2)
  - Longitudinal adjustment (3)
  - Transverse adjustment (4)



**Remain seated for all driving. (The horn will sound or the brakes will be applied if the operator does not remain seated while driving).**

### Comfort seat - Adjustments

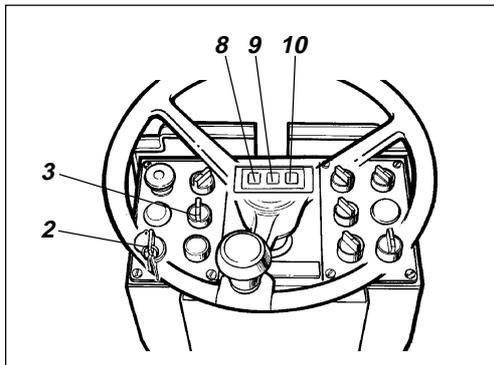


**Fig. 10** Comfort seat (accessory)

1. Back support slope
2. Longitudinal adjustment
3. Weight adjustment
4. Transverse adjustment (accessory)

1. Adjust the seat so that all the controls are easily reached.
2. The following adjustments are possible:
  - Back support slope (1)
  - Longitudinal adjustment (2)
  - Weight adjustment (3)
  - Transverse adjustment (4)

### Switches and Warning lamps – Checking

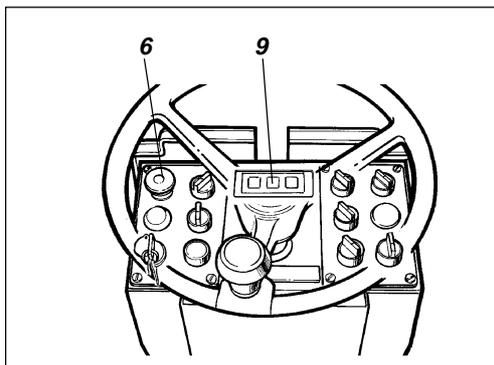


**Fig. 11 Instrument panel**

- 2. Starter power switch
- 3. Sprinkler switch (drum)
- 8,9,10. Warning lamps

1. Turn the starter power switch (2) to the right.
2. Check that warning lamps 8, 9, 10 light.
3. Turn the switch (3) to operating mode and ensure that the system is working.

### Emergency stop – Checking



**Fig. 12 Instrument panel**

- 6. Reserve/parking brake knob
- 9. Brake warning lamp

Pull out the reserve/parking brake knob (6) and check that the brake warning lamp (9) goes out.

## STARTING

### Starting the engine

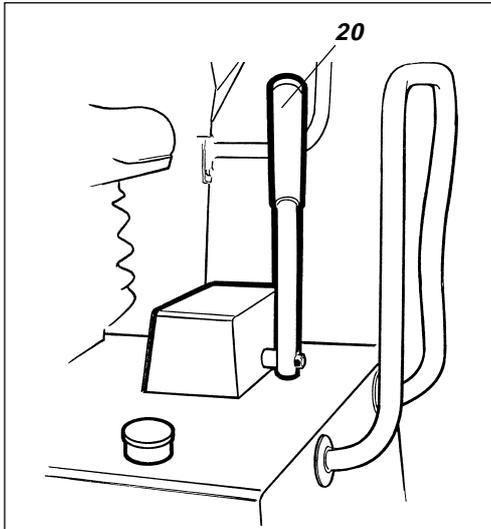


Fig. 13 Forward/Reverse lever

1. Set the forward/reverse lever (20) in neutral. The engine can only be started with the lever in neutral.

On some variants the F/R control is located at the side of the instrument panel, but the function is the same.

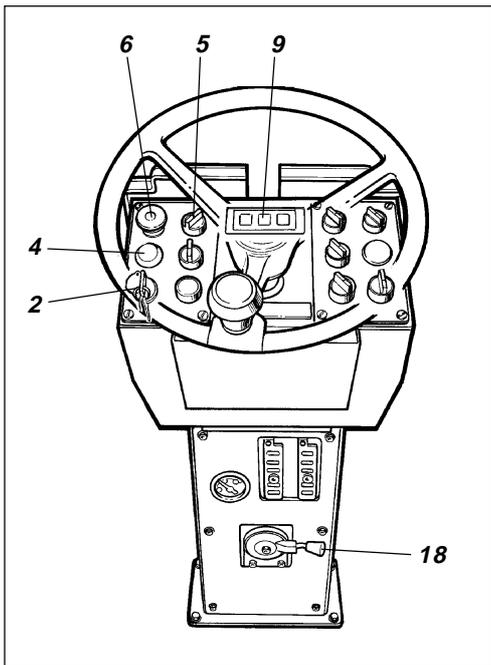


Fig. 14 Instrument column

2. Starter power switch
4. Starter button
5. Vibration switch
6. Reserve/parking brake knob
9. Brake warning lamp
18. Revs control

2. Set the vibration control (5) to O.
3. Put the revs control (18) in the idling mode (far right). On some variants the control is located at the right side of the instrument column.
4. Make sure the starter power switch (2) is set at position |. Press the starter button (4) and release it as soon as the engine starts.



If the engine does not start immediately, wait a few seconds before making another attempt.

5. Run the engine warm at increased idling speed. A longer period at low ambient temperature.
6. Check while warming up that the warning lamps for charging and oil pressure are out. The warning lamp for the brake (9) shall go out when the reserve/parking brake knob (6) is pulled out.
7. The engine stops if the starter power switch (2) is turned to O.

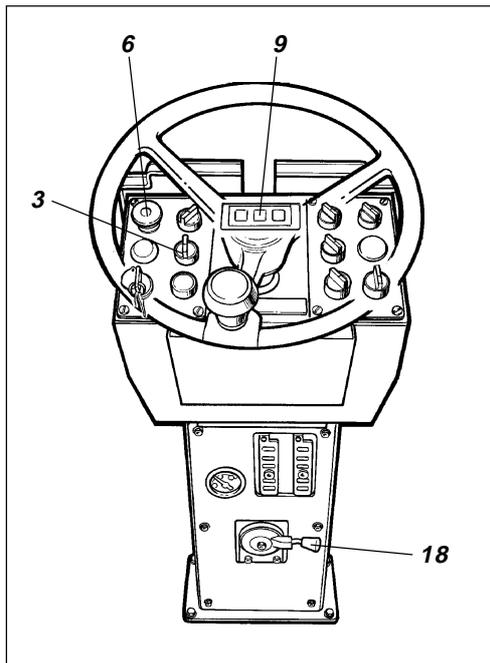


**Braking distance is longer when starting up and driving with a cold engine than when the oil has reached normal working temperature.**



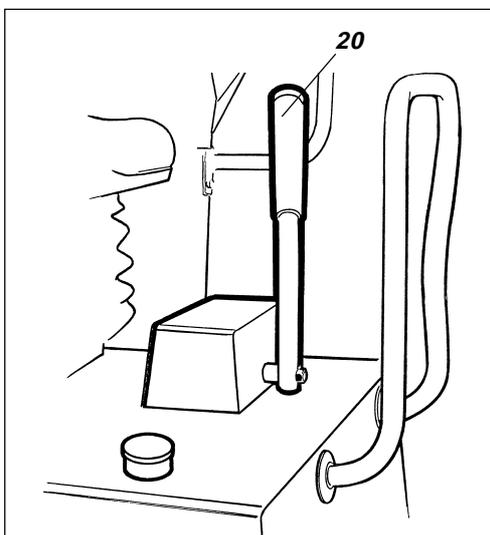
**When starting up and driving with a cold roller (cold hydraulic fluid) the braking distance will be longer than when the machine has reached normal operating temperature.**

## Driving the roller



**Fig. 15 Instrument column**

- 3. Sprinkler switch (drum)
- 6. Reserve/parking brake knob
- 9. Brake warning lamp
- 18. Revs control



**Fig. 16 Forward/Reverse lever**

1. Set the revs control lever (18) to the full revs mode, ie, fully to the left, to give maximum engine speed.
2. Ensure that the steering is working properly by turning the steering wheel once to the right and once to the left while the machine is standing still. Steering shall operate smoothly without jerking or interruption.



**Make sure that the area in front and behind the roller is clear.**

3. Before driving on asphalt, turn the switch (3) of the watering system to the right or left, depending on whether you require continuous or automatic watering.
4. The reserve/parking brake knob (6) shall be pulled out and the lamp (9) out.
5. Carefully move the forward/reverse lever (20) in the desired direction of travel. Speed increases as the lever is moved from the neutral position.



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

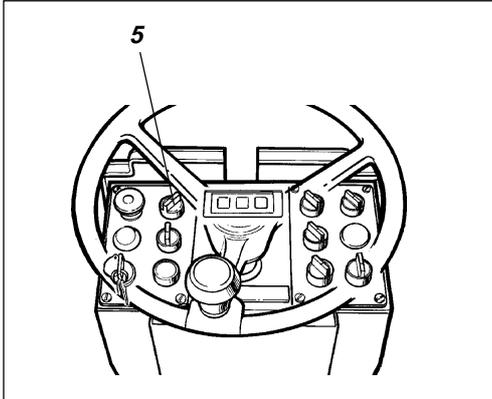


**Check operation of emergency braking by pressing the reserve/parking brake knob (6) while the roller is running slowly forward or reverse.**

The roller should then slow down and stop as the warning lamp (9) lights.

6. The forward/reverse lever (20) must be put in neutral before operation can continue.
7. Check while driving that warning lamps do not light.

### Vibration - Operation

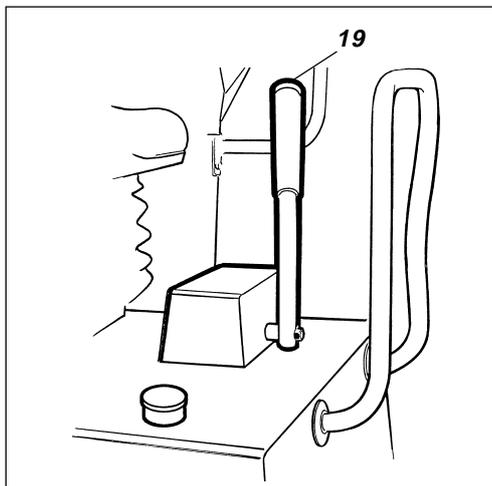


**Fig. 17 Instrument panel**  
5. Vibration switch



Vibration is not permitted while the machine is standing still.

1. Turn the vibrator switch (5) ON to start the vibrator.



**Fig. 18 Forward/Reverse lever**  
19. Vibration ON/OFF

2. Carefully move the forward/reverse lever forward or backward.
3. Turn vibration ON by pressing the button (19) on the tip of the forward/reverse lever. Disengage by pressing once more.



Do not switch vibration ON until the roller is moving. Danger of damage to the machine; never allow vibration on extremely hard surfaces such as concrete, cold asphalt, etc.

## SAFETY WHEN DRIVING

### Close to edges

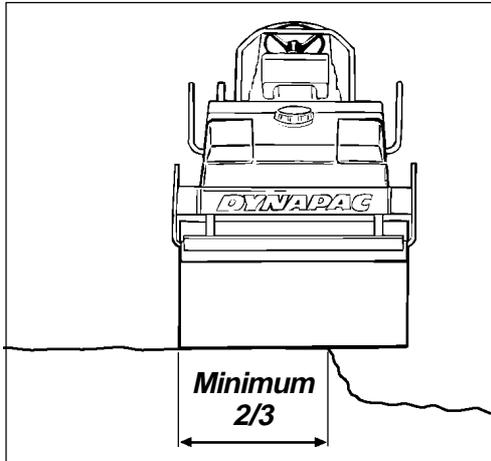


Fig. 19 Location of drum close to cavities

At least two thirds of the drum width must rest on a surface that ensures full support when driving close to cavities.



Remember that the centre of gravity of the machine is displaced outwards on turning the steering wheel. Eg, to the right when steering to the left.



ROPS (Roll Over Protecting Structure) is recommended for all operations on sloping ground and on unreliable ground.

### Slope

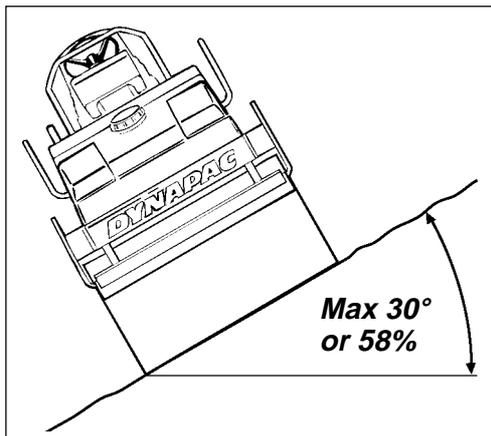


Fig. 20 Tilt angle on side slopes



Avoid all driving across slopes if possible. Instead, drive straight up and down when working on inclines. The machine will topple over on slopes with an angle greater than 30° or 58%, to the right or left.

The toppling angle noted above applies to flat, hard ground and stationary machine. Steering angle zero, vibration switched off and water tanks full. Remember that loose ground, steering of the machine, applied vibration, driving speed and increase in height of the centre of gravity (eg, accessories) may cause the machine to topple even on a smaller slope than that stated above.

### Seated position

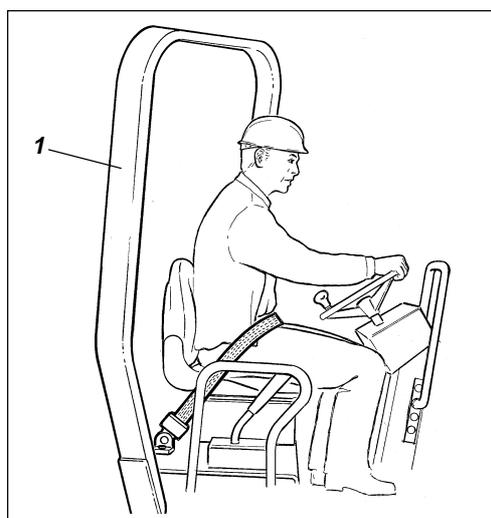


Fig. 21 Operator's station  
1. ROPS arch

Remain seated for all driving. The horn will sound, or for some models the brakes will be applied, if the operator does not remain seated while driving.

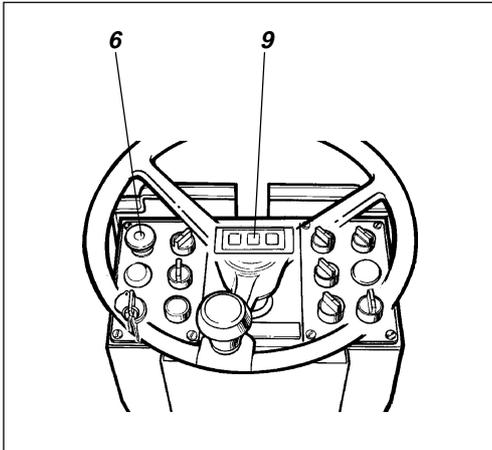


Always use the seat belt if the machine is fitted with one. If the roller topples over there is a big risk that the operator will be thrown off and crushed underneath the machine if the seat belt is not used.

A seat belt is standard equipment on rollers equipped with a cab or with ROPS (Roll Over Protective Structure) (1).

## BRAKING

### Normal and emergency braking



**Fig. 22 Instrument panel**

- 6. Reserve/parking brake knob
- 9. Brake warning lamp

Braking is normally done with the forward/reverse lever. The hydrostatic transmission brakes the roller when the lever is moved to neutral. In addition, a disc brake on the drive motor is applied when the reserve/parking brake knob (6) is pressed in. Lamp (9) lights when the brake is applied.

### EMERGENCY BRAKING



**In an emergency, press the reserve/parking brake knob (6). Hold the steering wheel firmly as the roller brakes.**

After emergency braking: Restore the forward/reverse control lever to neutral. Pull out the reserve/parking brake knob.



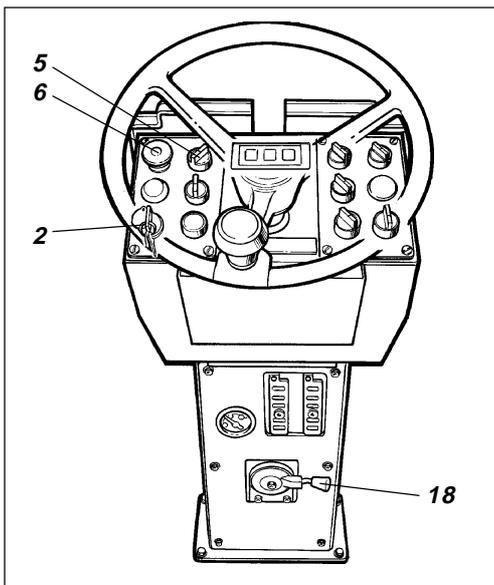
The multi-disc brake is automatically applied and stops the roller if the engine stops or the hydraulic pressure drops for any other reason.



**When starting up and driving with a cold roller (cold hydraulic fluid) the braking distance will be longer than when the machine has reached normal operating temperature.**

## STOPPING

### Switching off the engine



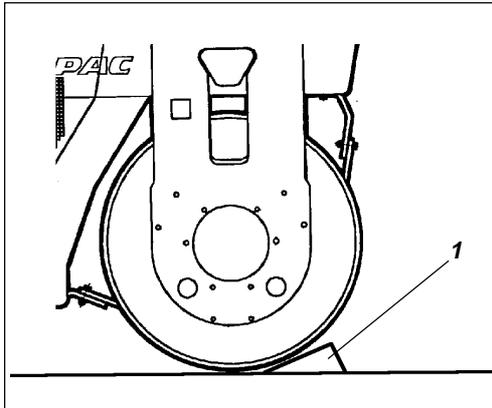
**Fig. 23 Instrument post**

- 2. Starter power switch
- 5. Vibrator ON/OFF
- 6. Emergency stop knob
- 18. Revs control

1. Disengage the vibrator by pressing the button on the forward/reverse lever. Set the vibrator switch (5) to O.
2. Stop the roller by moving the forward/reverse lever to neutral.
3. Turn back the revs control (18) until the engine runs at idling speed. Allow the engine to run for a few minutes to even out the engine temperature.
4. Push the reserve/parking brake knob (6).
5. Stop the engine by turning the switch (2) to position O.
6. Place the protective cover over the control panel. Lock it if required.
7. Turn the battery disconnecter OFF, and remove the handle.

## PARKING

### Chocking the drum



**Fig. 24 Drum**  
1. Brake chock



**Never leave the machine with the engine running unless the emergency stop knob is pressed in.**

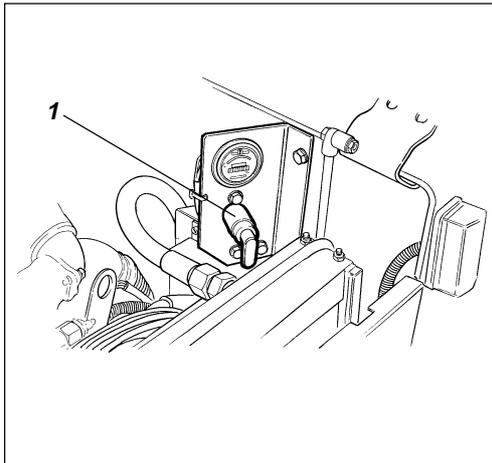


**Make sure the roller is parked safely and is not a traffic hazard. Chock the drum and wheels when parking on a slope.**



**Remember the risk of freezing during the winter. Empty the water tank, pumps and leads.**

### Battery disconnecter



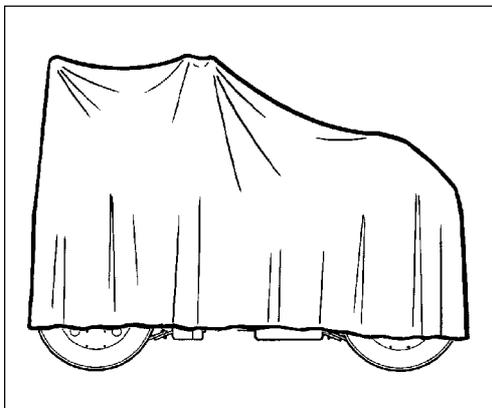
**Fig. 25 Engine compartment**  
1. Battery disconnecter

Before leaving the roller, turn OFF the battery master disconnect switch (1) and remove the handle.



The handle for the battery master disconnect switch should be removed when the operator leaves the machine overnight, during the weekend, etc. This will prevent premature discharging of the battery, and will also make it difficult for unauthorized persons to start and drive the machine. Lock the engine cover also.

### Long-term parking



**Fig. 26 Weather-protected roller**

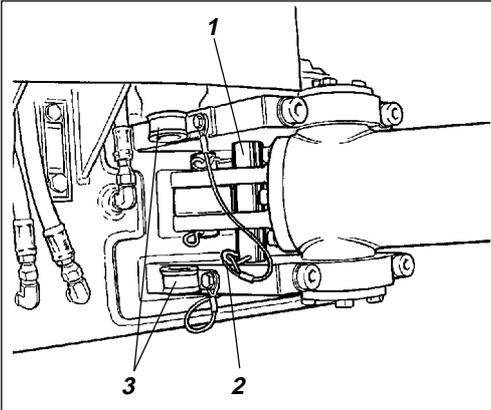


For parking periods longer than one month, see the Engine Manual, and the Maintenance Manual of the roller and study the chapters dealing with preservation of the engine and long-term parking respectively.

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 grease all the nipples and fill the fuel tank. Remember to empty the water tank and the sprinkler system.

# HOISTING

## Locking the articulated joint



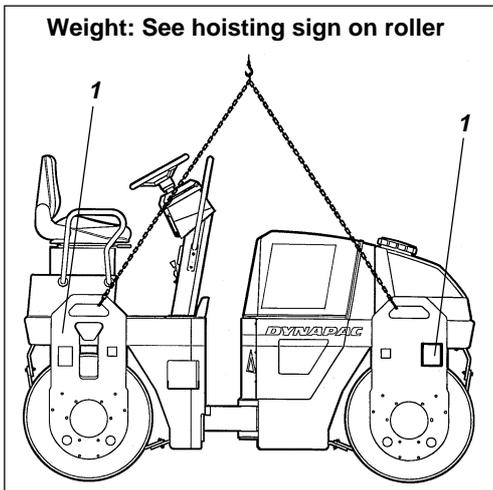
**Fig. 27** Left side of articulated joint

1. Locking bar
2. Locking pin
3. Holder



**The steering link must be locked before hoisting the machine.**

1. Turn the steering wheel until the forward and rear drums are in line with each other.
2. Then pull the bright zinc plated locking bar (1) down from its holder (3), and insert it from below into the hole in the lower steering link mount. Push it through the bar until its upper end is visible in the hole in the upper steering link mount.
3. Secure the bar with the locking pin (2).



**Fig. 28** Hoisting the roller

1. Hoisting plate  
(rear plate on left side)



Steel wires, chains, etc, must comply with current regulations. Make sure that hoisting hooks are securely anchored.

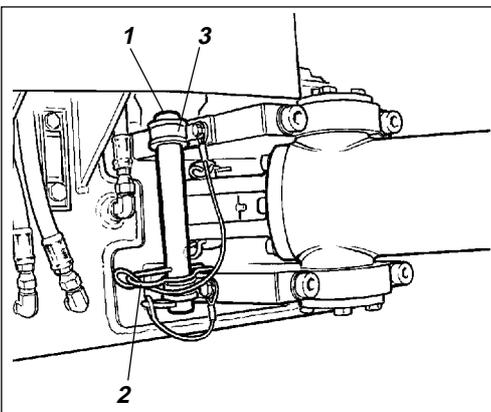


**Keep well clear of the hoisted machine.**



**Check the weight of the machine stamped on the hoisting plate (1).**

## Releasing the articulated joint



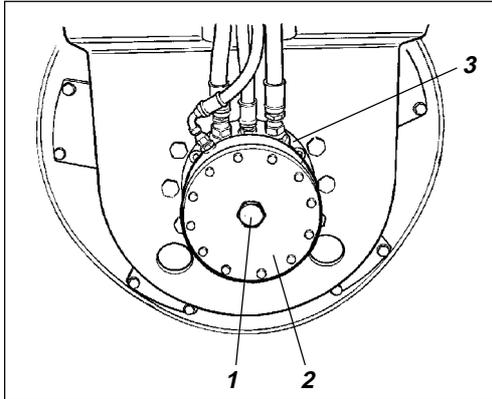
**Fig. 29** Left side of articulated joint

1. Locking bar
2. Locking pin
3. Holder



Remember to release the articulated joint interlock and fit the locking bar (1) back into its holder before driving.

## Disengaging the brakes (Optional)



**Fig. 30 Left side of drum**  
 1. Disengaging bolt  
 2. Brake housing  
 3. Drive motor



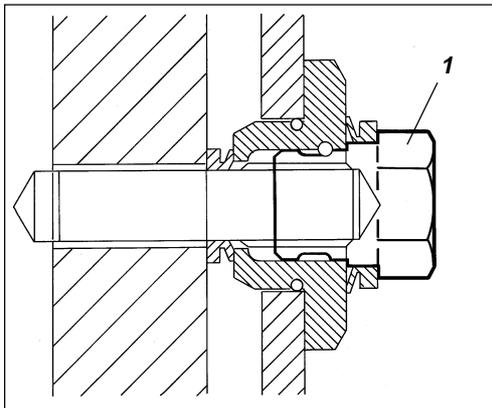
The following instructions apply to the rear wheel motor.



**Push the reserve/parking brake knob, and stop the engine. Chock the drum to prevent the roller from moving when the brakes become disengaged.**



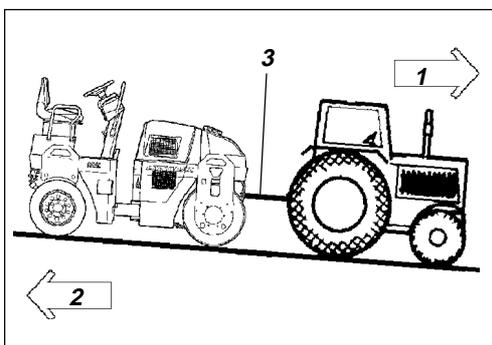
The disc brake on the drive motor must be disengaged mechanically, as described below, before the roller can be towed.



**Fig. 31 Brake housing**  
 1. Disengaging bolt

1. Use an 18 mm socket wrench.
2. To disengage the brake, turn the disengaging bolt (1) 1 1/2 turns clockwise.
3. Disengage the brake on the rear drum.
4. After towing, turn the same screws 1 1/2 turn counter clockwise to activate the brake again.

## Towing the roller



**Fig. 32 Towing**  
 1. Direction of travel  
 2. Counter-braking  
 3. Towbar



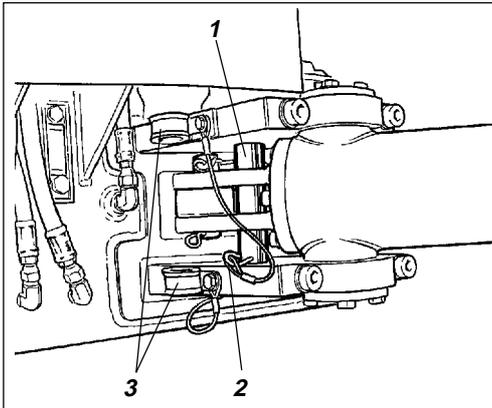
**When towing downhill a towing bar must be used, the roller has no braking power of its own.**



The roller must be towed slowly, and only for a short distance.

Before using the machine after towing, allow the engine to run at idling speed for at least half a minute to ensure correct hydraulic pressure.

## Locking the articulated joint

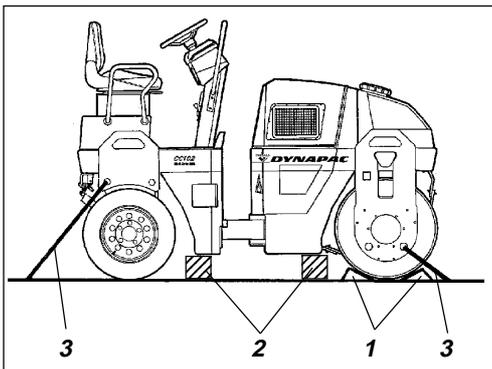


**Fig. 33** Left side of articulated joint

1. Locking bar
2. Locking pin
3. Holder

Lock the articulation prior to transportation.  
See the heading "Lifting" for detailed instructions for locking.

## Roller prepared for transportation

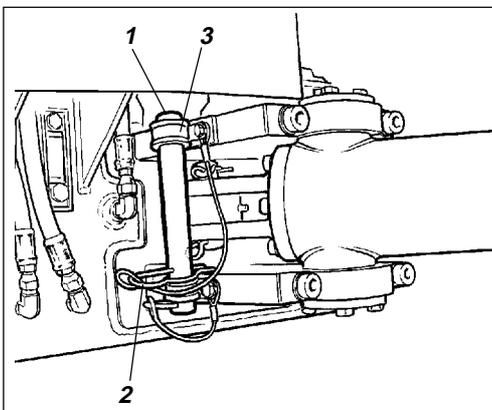


**Fig. 34** Transporting the roller

1. Chocks
2. Supporting blocks
3. Lashing wire

1. Chock the drum securely (1).
2. Support the lower part of the roller frame with blocks (2) to prevent overloading of the rubber suspension when the lashing wires are stretched.
3. Secure the roller tightly at each of the four corners with lashing wire (3).

## Restoring the articulated joint



**Fig. 35** Left side of articulated joint

1. Locking bar
2. Locking pin
3. Holder



Remember to restore the locking bar to its holder before driving.

## OPERATING INSTRUCTIONS - SUMMARY



1. **Follow the SAFETY INSTRUCTIONS for the machine, see the Safety Manual.**
2. Ensure that all instructions in the MAINTENANCE MANUAL are followed.
3. Turn the battery disconnecter to ON.
4. Ensure that the reserve/parking brake knob is in the OFF mode, ie, pulled out.
5. Move the forward/reverse lever to NEUTRAL.
6. Set the vibration switch to position O.
7. Start the engine and allow it to warm up at idling speed.



8. **Test the brakes.**  
**Remember that the braking distance is longer when the roller is cold.**



9. **Drive the roller. Operate the forward/reverse controls with care.**
10. Use the vibration only when the roller is in motion.
11. Check that the drums are watered sufficiently as required.



12. **In an EMERGENCY:**
  - **Push in the reserve/parking brake knob.**
  - **Hold the steering wheel firmly.**
  - **Prepare yourself for a dead stop.**
13. When parking: - Stop the engine and chock the drums.
14. When towing: - See towing instructions in this OPERATION MANUAL.
15. When lifting: - See hoisting instructions in this OPERATION MANUAL.