

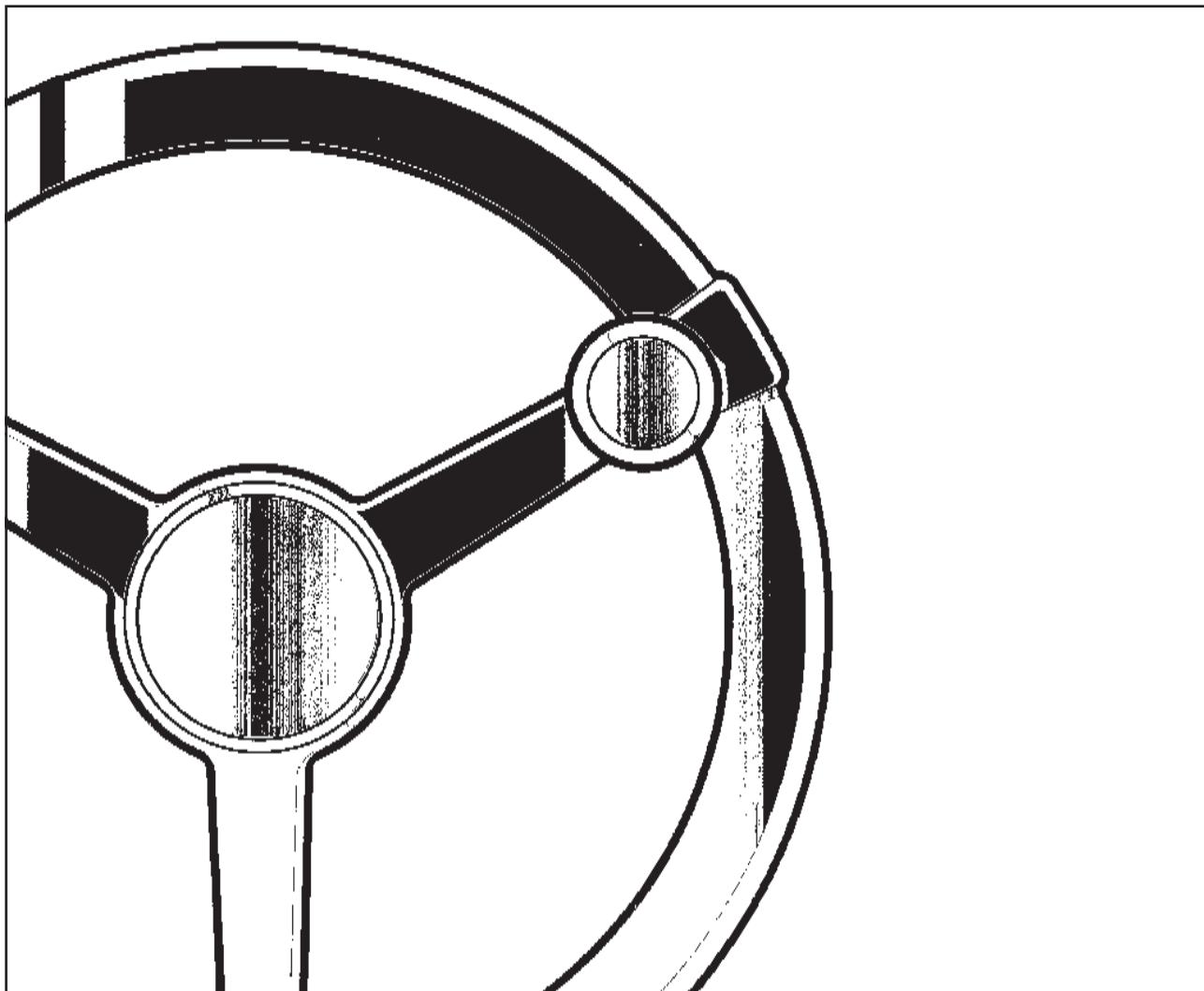
DYNAPAC

CC102, CC122/122C

CC142/142C

OPERATION

O102EN5



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DYNAPAC

Vibratory roller CC102, CC122/122C CC142/142C

Operation O102EN5, January 2007

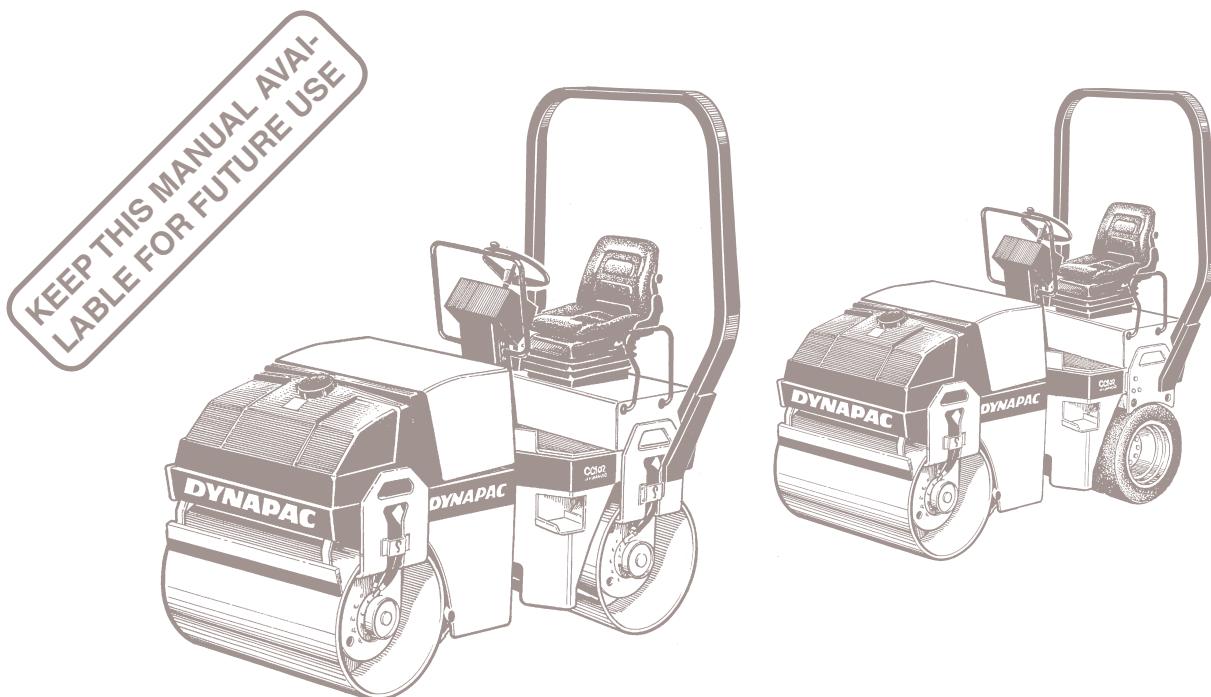
Diesel engine:

**CC102/122/C
CC142/C**

**Deutz F2L 2011, D2011 L02I
Deutz F3L 2011, D2011 L03I**

These instructions apply from:

CC102/122/C	PIN (S/N) *60119200*
CC142/C	PIN (S/N) *60213400*



The CC102/122 are specially designed for repair work on asphalt compounds, but can also be used for paving small streets, sidewalks and bicycle trails. They are often used as a complement to bigger rollers for compacting cross-joints and restricted spaces.

The CC122C is a light combo roller that are used for compacting thin layers and soft asphalt compounds.

The CC142 is a typical "town roller" for compacting asphalt compounds on streets, parking lots and industrial sites. The capacity for this type of work is adequate for following a smaller-size surface finisher.

The CC142C is also intended for minor paving jobs on low-traffic asphalt areas where a level and attractive surface structure is desired. Typical workplaces—in addition to sidewalks and bicycle trails—are therefore parks, golf courses and sports fields.

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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 that accompanies each machine. Always follow the safety rules and do not remove the manual from the roller.

GENERAL

This manual contains instructions for operation and use of the roller. For care and maintenance information, see the MAINTENANCE, CC102/122/C/142/C manual.



Remember that when you start 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 familiar 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. Remain seated during all operation.
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. A "three-point grip" is recommended whenever you board or leave the machine—both feet and one hand, or one foot and both hands in contact with the machine.
6. Always use the Roll Over Protective Structure (ROPS) when the machine is used on risky ground.
7. Drive slowly in sharp bends.
8. Avoid driving at an angle on slopes; drive straight up or down.
9. When driving close to unsafe edges or holes, make sure that at least two thirds of the drum width is firmly on material that has already been compacted.
10. Make sure 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. The seat belt must be worn 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.
 - Don't smoke.
 - 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. Hearing protectors are recommended if the noise level is higher than 85 db(A). The noise level will vary depending on the surface being worked on by the machine.
17. Make no changes or modifications on the roller that could affect safety. Changes may only be made following written consent by 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 WHEN DRIVING

Driving near an edge

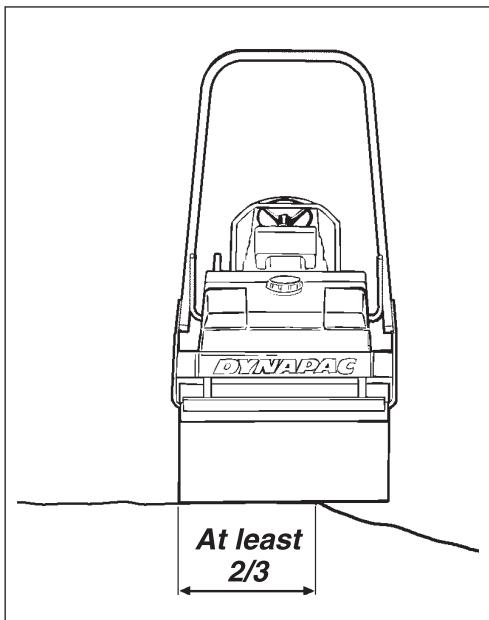


Fig. 1 Position of drum when driving near an edge

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



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

Slopes

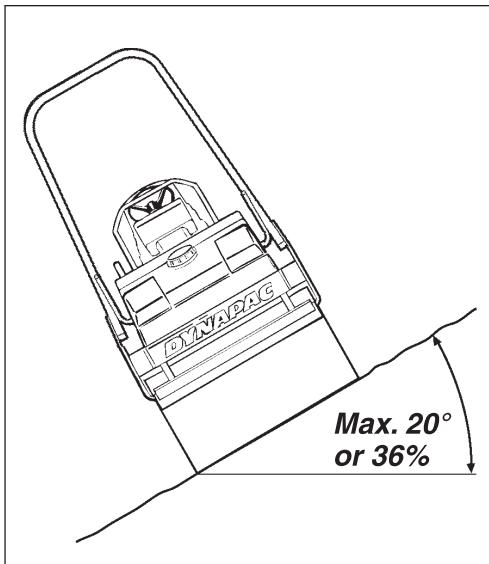


Fig. 2 Tipping angle on side slopes



ROPS is always recommended when driving on slopes or insecure ground.



Where possible, avoid all driving across slopes. Drive up and down on sloping ground.

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



To leave the cab in an emergency, release the hammer located on the rear right post and break the rear window.

SAFETY WHEN DRIVING

Sitting position

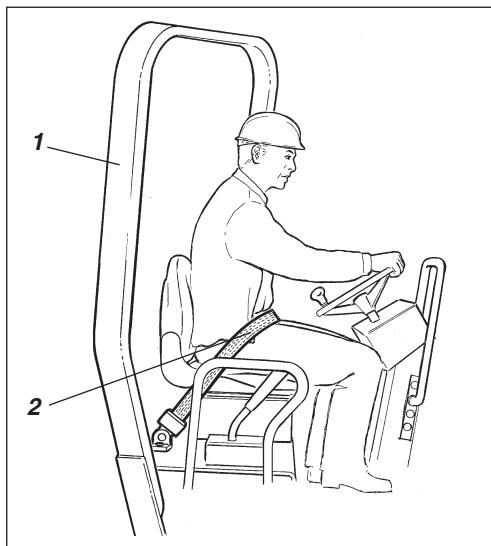


Fig. 3 Operator's station

1. ROPS
2. Seat belt

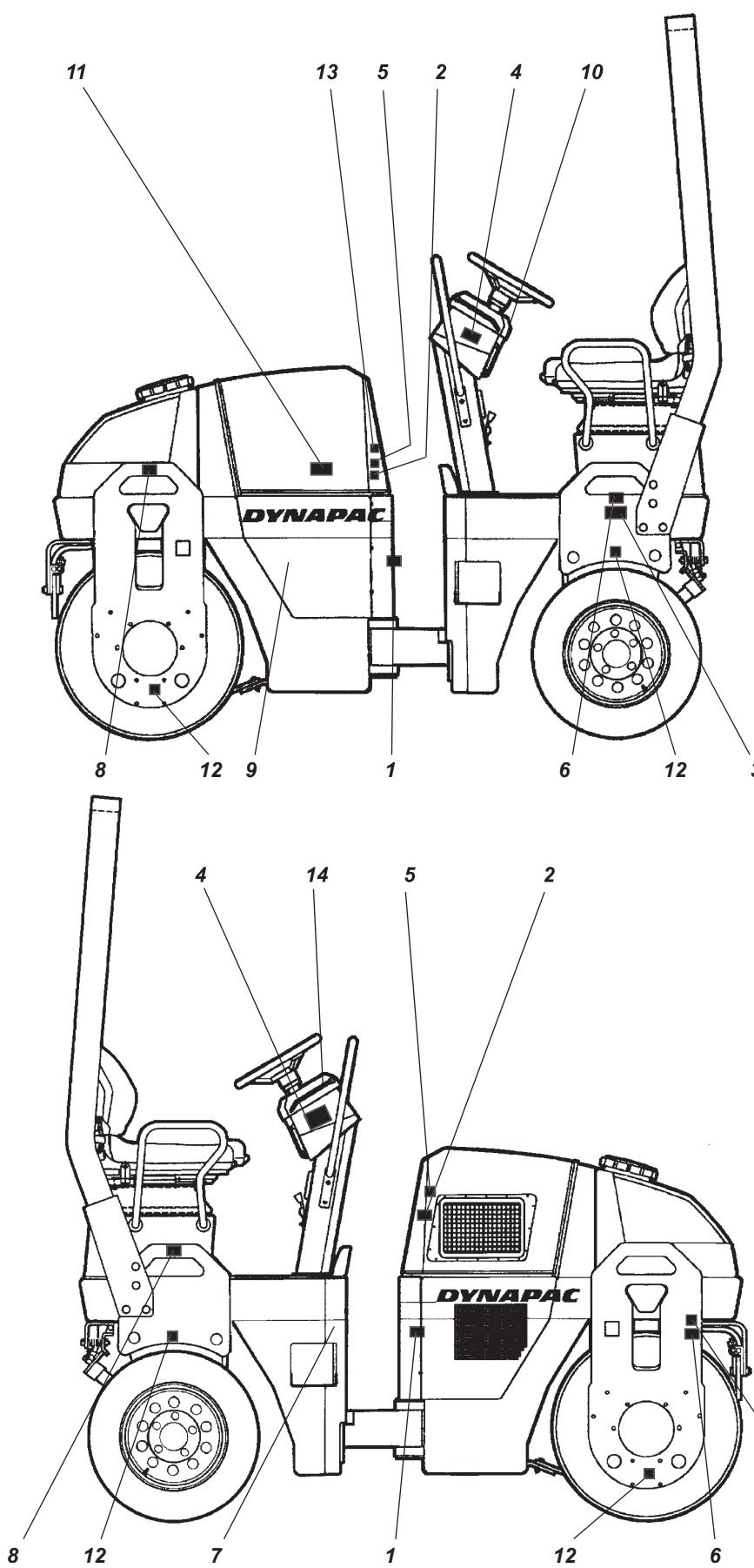
Always remain seated in the operator's seat for all driving. If the operator rises from his seat the horn will sound, or on some versions the brakes will be applied.



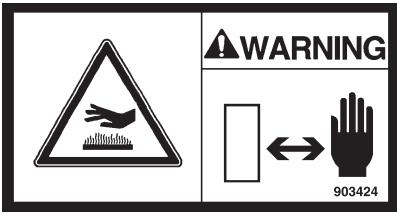
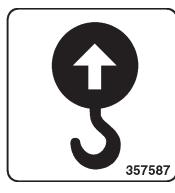
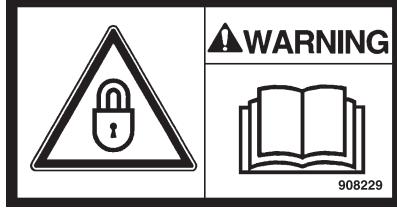
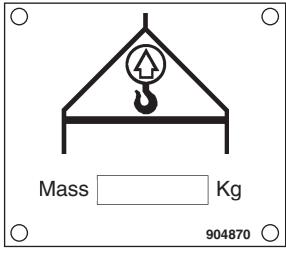
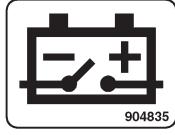
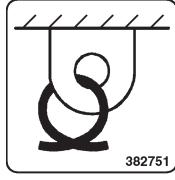
WARNING
Always fasten the seat belt if the machine is equipped with one. Should the machine turn over there is a serious risk that the operator will fall out with the machine on top of him if he has not fastened the seat belt.

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

SAFETY DECALS, LOCATION AND DESCRIPTION



SAFETY DECALS, LOCATION AND DESCRIPTION

1.  
- Crush zone, articulation/drum. Maintain a safe distance from the crush zone.**
4. 
- The operator is urgently requested to read the safety manual, and the operation and maintenance instructions, before using the machine.**
7. 
- Diesel fuel**
2. 
- Warning—rotating engine components. Keep your hands at a safe distance from the danger zone.**
5. 
- Warning—very hot surfaces in the engine compartment. Do not touch.**
8. 
- Lifting point**
3. 
- The articulation joint must be locked while lifting. Read the instruction manual.**
6. 
- Hoisting plate**
9. 
- Alt. 1**
Hydraulic fluid
- 
- Alt. 2**
Bio-Hydraulic fluid
10. 
- Handbook compartment**
11. 
- Battery discon- nector**
12. 
- Securing point**
13. 
- Sound Power level**
14. 
- ACTIVATE THE PARKING BRAKE BEFORE LEAVING THE OPERATOR'S PLATFORM**

MACHINE AND ENGINE PLATES

Machine plate

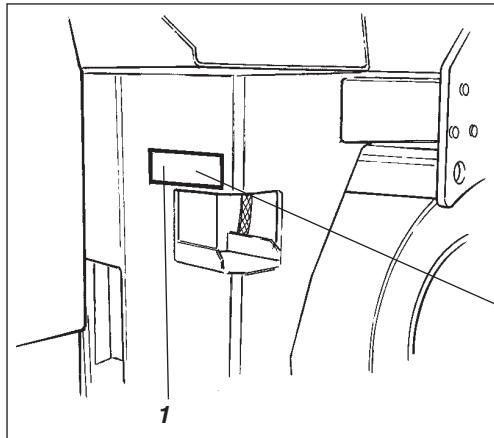


Fig. 4 Left step

1. Machine plate

The machine plate (1) is attached to the front left side of the rear frame, by the steering joint.

The plate specifies the manufacturers name and address, the type of machine, the PIN, Product Identification Number (serial number), operating weight, engine power and year of manufacture. CE markings and the year of manufacture may be omitted on machines supplied to markets outside the EU.



Serial number on frame

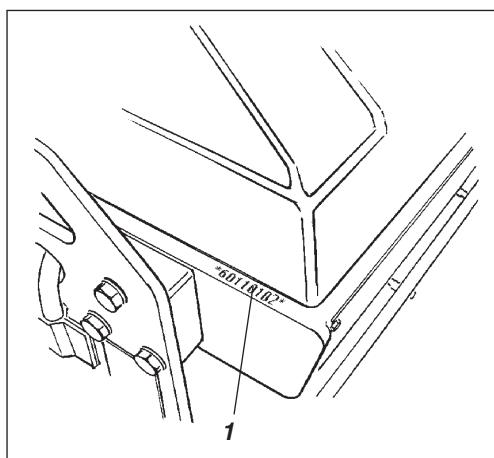


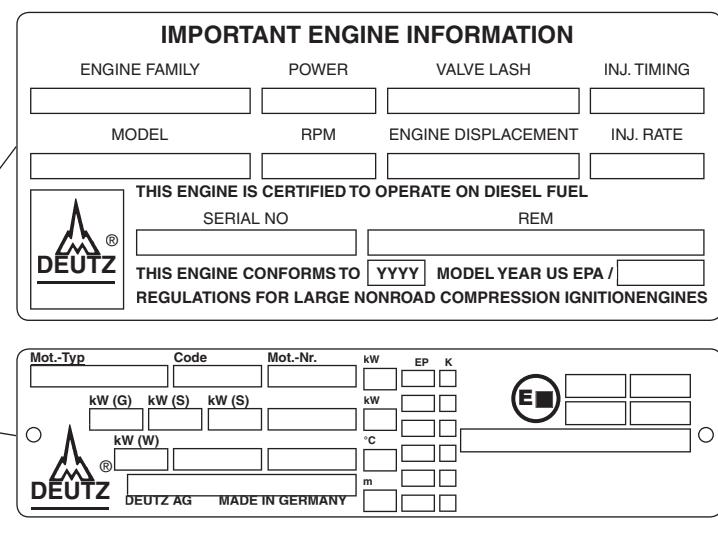
Fig. 5 Front frame

1. Serial number

Please state the machine's PIN when ordering spares.

The machine's PIN (1) is punched on the right edge of the forward frame.

The machine type plate (1) is affixed on top of the engine. The plate indicates the type of engine, serial number and engine data. Please specify the engine serial number when ordering spares. See also the engine manual.



Engine plate

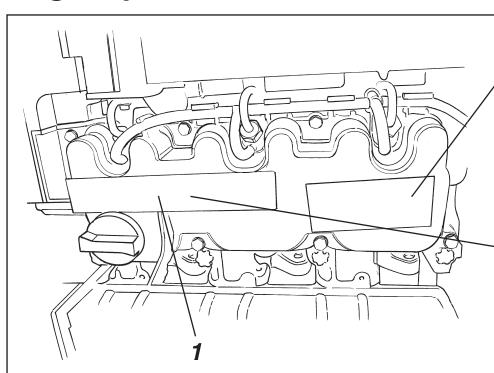


Fig. 6 Engine

1. Type plates

INSTRUMENTS AND CONTROLS

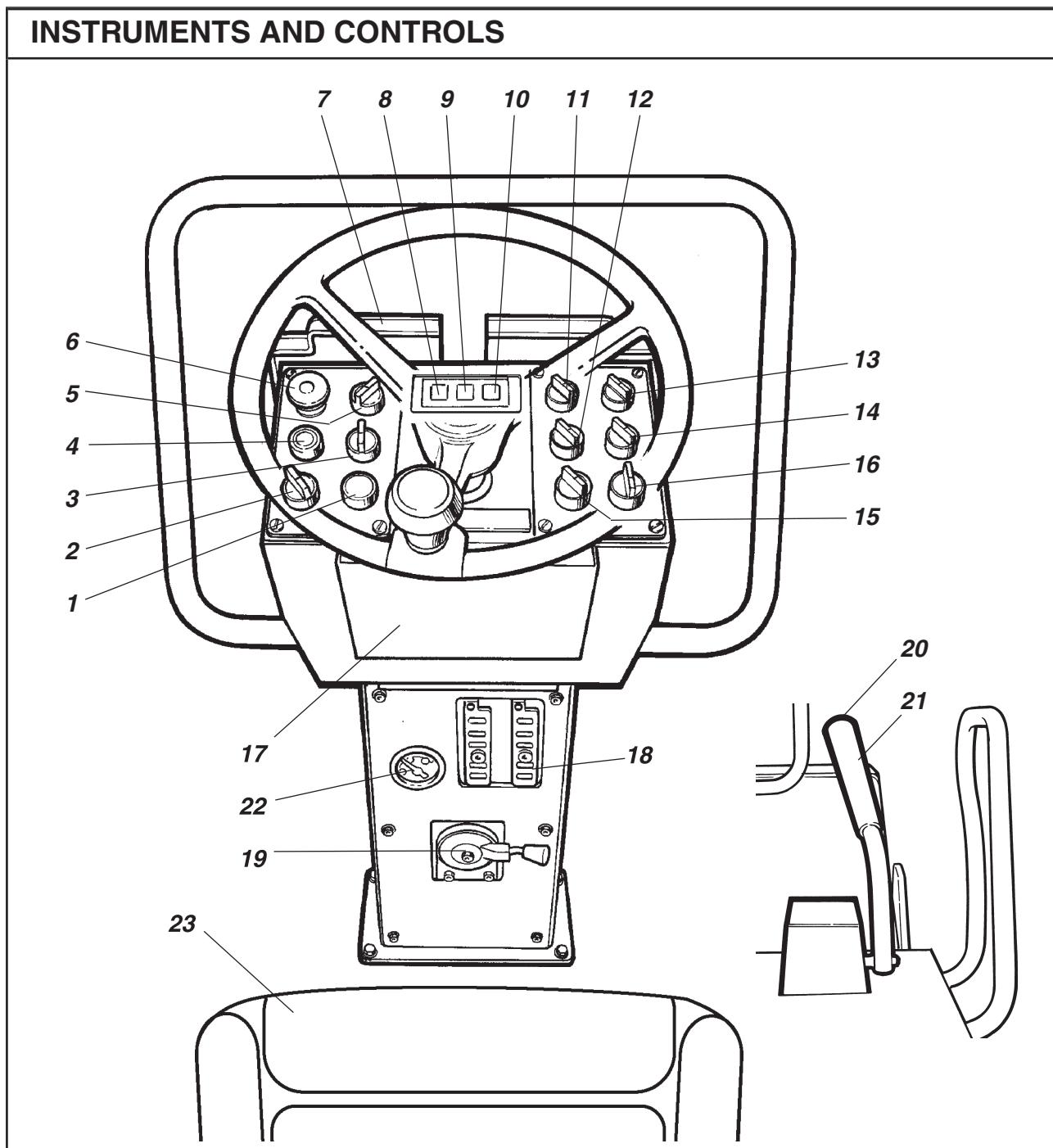
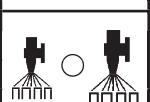


Fig. 7 Operator's station

1. Horn
2. Ignition switch
3. Manual/Automatic sprinkler
4. Starter button
5. Manual/Automatic vibration
6. Reserve/parking brake
7. Instrument protection
8. Warning lamp, charging
9. Brake warning lamp
10. Warning lamp, oil pressure/
engine temp.
11. Working lights □
12. Hazard beacon □
13. Driving lights □
14. Sprinkler rubber wheel (Combo)/
vibration front/rear drum
15. Hazard flashers □
16. Direction indicator □
17. Safety and instruction manuals
18. Fuse boxes
19. Rev control
20. Vibration ON/OFF
21. Forward/reverse lever
22. Fuel gauge □
23. Seat switch

□ =Optional

INSTRUMENTS AND CONTROLS, FUNCTIONAL DESCRIPTION

Items fig. 7	Designation	Symbol	Function
1	Horn, switch		Press to sound the horn.
2	Main power switch		In position O the electric circuit is broken. In position I all electric switches and lamps except the starter motor circuit are powered.
3	Sprinkler system, drum		Regulates the flow of water to the drum. MAN mode gives continuous watering. Watering is OFF in 0 mode. The AUT mode gives automatic switching of watering ON/OFF while driving forward and reverse.
4	Starter contact		Press to run the starter motor.
5	Vibration switch (Optional)		Middle position=Vibration switched OFF. Left position= Vibration on both drums (not C) Right position=Vibration on one drum.
6	Reserve brake//Parking brake		Press to activate the reserve brake. Press when the machine is stationary to activate the parking brake. Pull out to release both brakes.
7	Instrument protection		Lower over the instrument plate as protection against weather and sabotage.
8	Warning lamp, battery charging		If the lamp lights while the engine is running, the alternator is not charging. Stop the engine and locate the fault.
9	Brake warning lamp		The lamp lights when the parking or reserve brake knob is pushed in and the brakes are applied.
10	Warning lamp, oil pressure, or excessive temperature engine oil.		The warning lamp lights if lubricating oil pressure is too low. Stop the engine and remedy the cause. See engine manual.
11	Working lights backwards, switch (Optional)		Turn right to switch on the working lights.
12	Hazard beacon, switch (optional)		Turn right to switch on the hazard beacon.
13	Working lights forward, switch (Optional)		Turn right to the first position to switch on the parking lights and to the second position to switch on the forward working lights.
14	Sprinkler system, tires (Combo)		Regulates the flow of fluid to the tires Turn left=continual operation. Turn right=intermittent operation.

INSTRUMENTS AND CONTROLS, FUNCTIONAL DESCRIPTION

15	Hazard flasher, switch (optional)		Turn right to switch on the flashing warning lights.
16	Direction indicator, switch (optional)		Turn left to switch on the left direction indicator. The flashing indicator is OFF in the middle position.
17	Pocket for manuals		Pull up and open the top of the compartment for access to handbooks.
18	Fuse box (on front of steering column)		Contains fuses for the electrical system. See under the heading "Electrical system" for a description of the functions of the fuses.
19	Rev control, diesel engine		The right position gives engine idling revs. The left position gives full revs.
20	Vibration ON/OFF, switch		Press once and release to switch vibration ON, press again to switch vibration OFF. The above applies only when switch 5 is in the left position.
21	Forward/Reverse lever		The lever must be in neutral to enable the engine to start; the engine will not start if the forward/reverse lever is in any other position. The forward/reverse lever controls the driving direction and speed of the roller. Move the lever forward to drive the roller forward, etc. The speed of the roller is proportional to the distance of the lever from the neutral position. The further from neutral the higher the speed.
22	Warning lamp, low fuel level (optional)		When the lamp lights, there is only sufficient fuel left for a short distance. Refuel as soon as possible.
23	Seat switch		Remain seated during all operation. If the operator rises from his seat the horn will sound, or the brakes will be applied.

BEFORE STARTING

Battery disconnector – Switching on

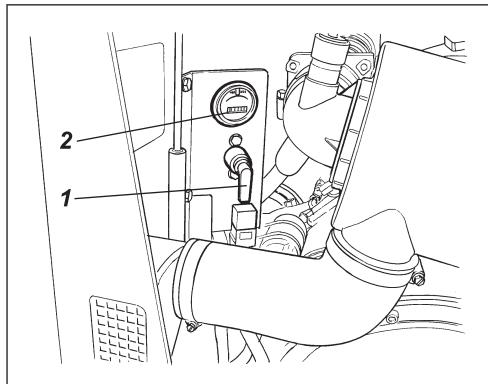


Fig. 8 Left side of engine
1. Battery disconnector
2. Hourmeter

Remember to perform daily service. See the operation manual.

The battery disconnector is located in the engine compartment. Turn the key (1) to the ON position. The entire roller is now powered.

Item (2) is the engine hour meter. The number of hours is counted as long as the engine is running.



The engine hood must be unlocked during operation, so the battery power can be disconnected quickly if necessary.

Sprinkler system/drum

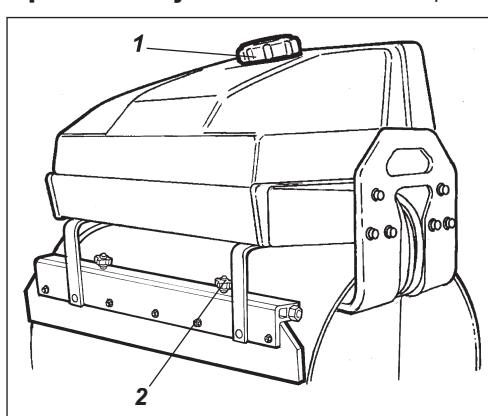


Fig. 9 Water tank
1. Filler cap
2. Sprinkler pipe

Fill the front water tank, and check that the sprinkler pipe (2) is in position to distribute water mist over the whole surface of the drum.

Sprinkler system/tires

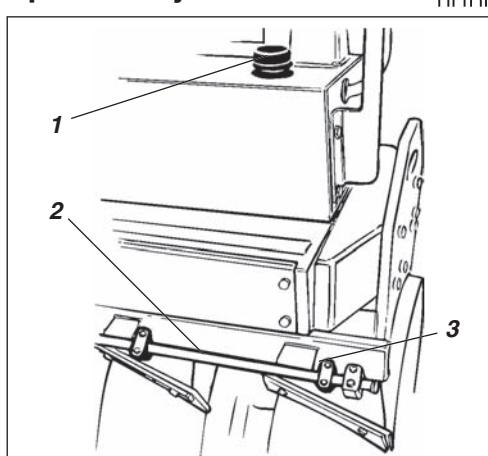


Fig. 10 Emulsion tank
1. Filler cap
2. Sprinkler pipe
3. Fastening screws

Fill the rear emulsion tank with water and possibly cutting oil. Mixing 2–4% cutting oil (Fileum) in the sprinkler water for the tires can prevent fastening.

Make sure that the sprinkler pipe (2) is in position to give satisfactory spreading of water mist over the tires. Slacken the fastening screws (3) of the pipe clip to adjust the pipe.

Inspect the tire tread now and then to detect asphalt compound that has fastened. This is likely until the tires are sufficiently warm.

BEFORE STARTING

Operator's seat – Setting

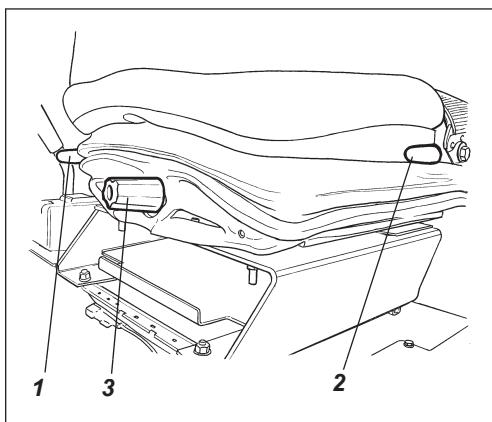


Fig. 11 Operator's seat

1. Lever—length adjustment
2. Lever—backrest slope
3. Lever—weight adjustment

1. Set the operator's seat in a comfortable position and so that the controls are easily accessible.
2. The seat has the following adjustment capabilities:
 - Length adjustment (1)
 - Backrest slope (2)
 - Weight adjustment (3)



Always ensure that the seat is secure before beginning operation.

Comfort – Adjusting

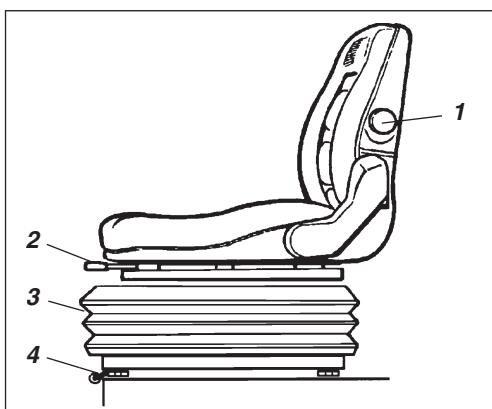


Fig. 12 Comfort seat (optional)

1. Backrest slope
2. Length adjustment
3. Weight adjustment
4. Transverse adjustment (optional)

1. Set the operator's seat in a comfortable position and so that the controls are easily accessible.
2. The seat has the following adjustment facilities:
 - Backrest slope (1)
 - Length adjustment (2)
 - Weight adjustment (3)
 - Crosswise (4)

BEFORE STARTING

Instruments and lamps

– Check

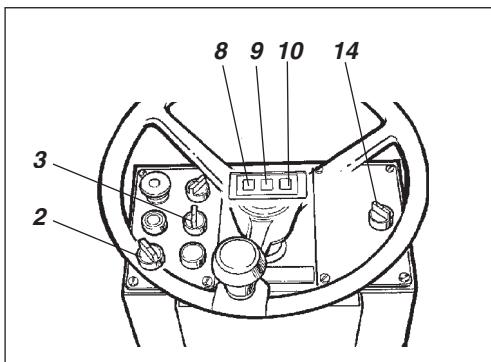


Fig. 13 Instrument panel

- 2. Ignition switch
- 3. Sprinkler switch (drum)
- 8,9,10. Warning lamps
- 14. Sprinkler switch (rubber tires)

Turn the ignition switch (2) to the right position.

Check that the warning lamps 8, 9 and 10 light.

Turn the switches (3) and (14) for sprinklers to operating mode and make sure that the system is working.

Parking brake – Control

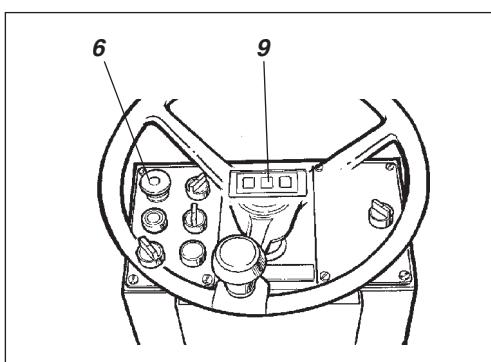


Fig. 14 Instrument panel

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



Make sure that the reserve/parking brake knob (6) is pushed in. If the parking brake is not applied, the roller may start to roll when you start the engine on sloping ground.

Operator's station

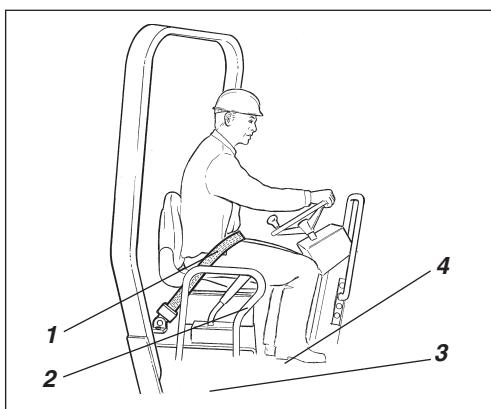


Fig. 15 Operator's station

- 1. Seat belt
- 2. Safety railing
- 3. Rubber element
- 4. Anti-slip

Always fasten the seat belt (1) that is provided if a Roll Over Protective Structure (ROPS) or a cab is fitted on the roller, and wear a protective helmet.



Always replace the seat belt (1) with a new one if it is worn or has been subjected to a heavy load.



Check that rubber elements (3) on the platform are intact. Worn elements will impair comfort.



Make sure that anti-slip (4) on the platform is in good condition; replace with new anti-slip if friction is poor.

STARTING

Starting the engine

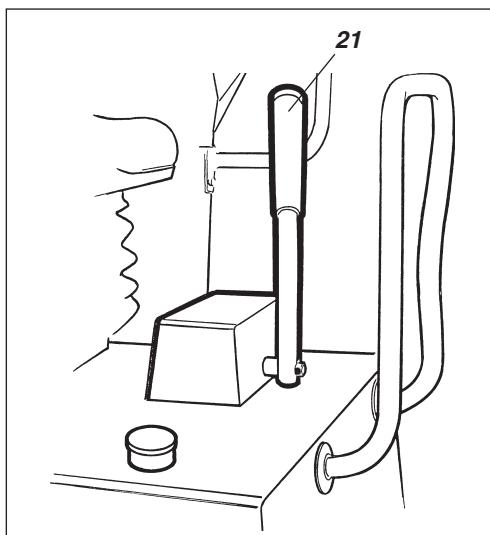


Fig. 16 Forward/reverse lever

Set the forward/reverse lever (21) in neutral. The engine cannot be started if the lever is in any other position.

On certain versions, the F/R lever is located at the side of the instrument panel, but the function is the same.

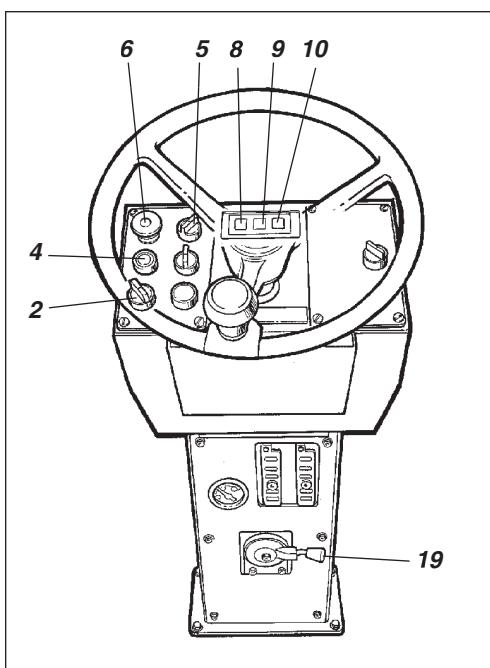


Fig. 17 Instrument column

- 2. Ignition switch
- 4. Starter switch
- 5. Vibration switch
- 6. Reserve/parking brake knob
- 8. Charging lamp
- 9. Brake warning lamp
- 10. Oil pressure lamp
- 19. Rev control

Set the vibration switch (5) for manual/automatic vibration to the **O** mode.

Set the rev control (19) to idling mode. (On certain versions, the control is located on the right side of the instrument column.)

Turn the ignition switch (2) to the right to position I. Press the starter switch (4). Release the starter switch as soon as the engine fires.



Do not run the starter motor too long; preferably wait a minute or so if the engine does not start.

Warm up the engine at idling speed for a few minutes, longer if the ambient temperature is below +10°C (50°F).

Check while warming up that the warning lamps for oil pressure (10) and charging (8) are out. The warning lamp for the parking brake (9) should still light.



Remember that when you start 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.



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

OPERATION

Driving the roller

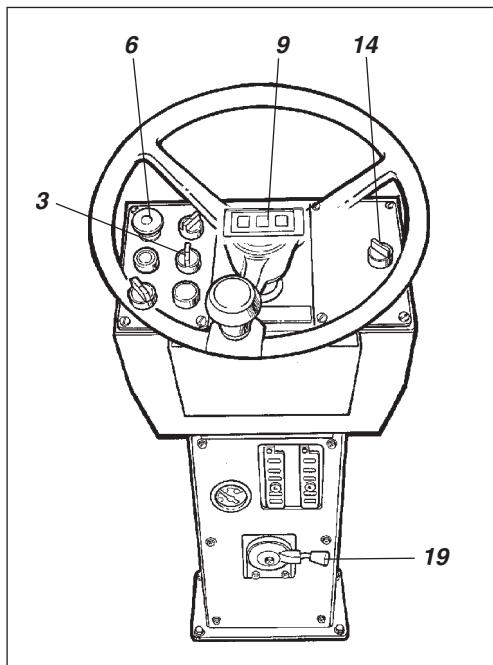


Fig. 18 Instrument column

- 3. Sprinkler switch (drum)
- 6. Reserve/parking brake knob
- 9. Brake warning lamp
- 14. Sprinkler switch (rubber tires)
- 19. Rev control

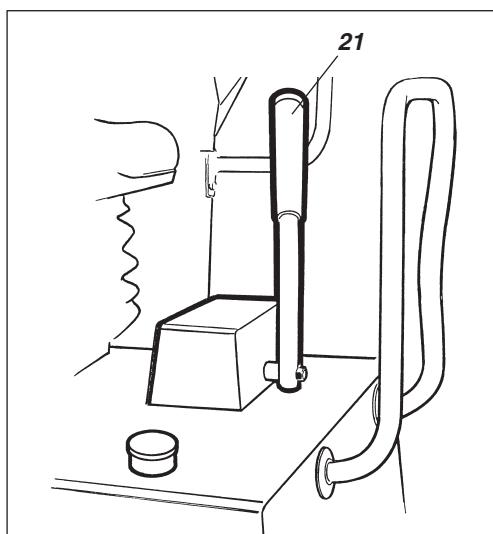


Fig. 19 Forward/reverse lever



Under no circumstances may the machine be operated from the outside. The operator must remain seated inside the machine during all operation.

Turn the rev control (19) and latch it in its working mode.

Check that the steering is working by turning the steering wheel once to the right and once to the left, while the roller is stationary.

When compacting asphalt, remember to turn on the watering unit (3), on combo rollers also (14).



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



Pull up the reserve/parking brake knob (6) and check that the warning lamp for the parking brake is out. When starting the roller on a slope, be prepared that it may begin to roll.

Carefully move the forward/reverse lever (21) 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 never by changing the engine speed.



Test the reserve brake by pressing the reserve/parking brake knob (6) while the roller is running slowly forward.

Interlock (Optional)



Testing the optional interlock function should be performed with the machine on level ground and the forward/reverse lever in neutral position.

Pull up the reserve/parking brake knob (6) and check that the warning lamp for the parking brake is out. The engine switches off about 4 seconds after the operator rises from the seat. This will occur regardless of whether the forward/reverse lever is in neutral or drive position. The engine will not stop if the parking brake is activated.

Combo machines only:



Inspect the tire tread now and then to detect asphalt compound that has fastened, this is likely until the tires are sufficiently warm. Mixing 2–4% cutting oil in the sprinkler water for the tires can prevent fastening.

OPERATION/VIBRATION

Manual/Automatic vibration

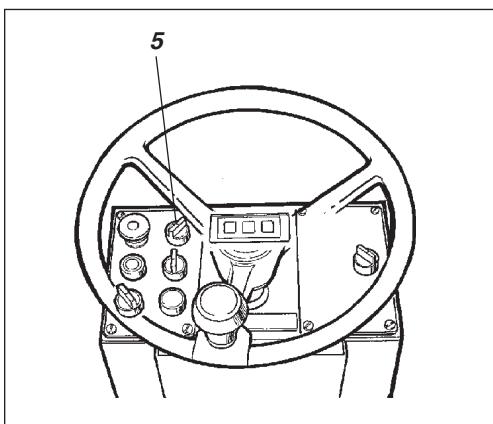


Fig. 20 Instrument panel
5. Vibration switch

Select manual or automatic switching ON/OFF with switch (5).

In manual mode, the operator must activate vibration via the switch (20) on the forward/reverse lever.

In automatic mode, the vibration is activated when the pre-set speed is reached.

Even switching off is automatic when the lowest speed is reached.

Manual vibration—Switching on

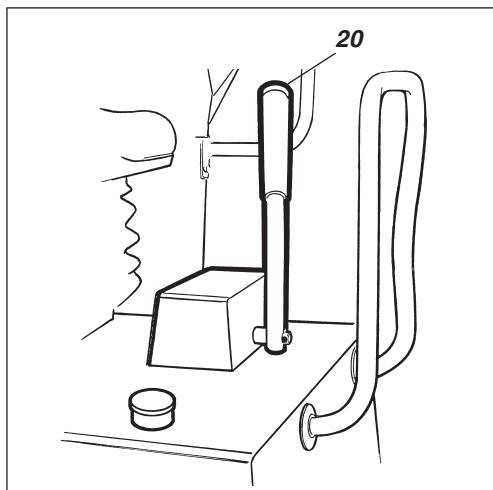


Fig. 21 Forward/reverse lever
20. Vibration ON/OFF

Vibration is engaged and disengaged with the changeover switch (20) on the forward/reverse lever. Always switch off vibration before the roller comes to a complete standstill.



CAUTION
Vibration should not be allowed when the roller is stationary; this may damage the surface and the machine.

Vibration on one drum (Optional)

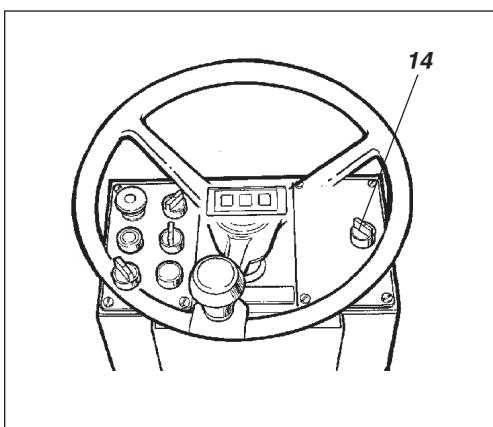


Fig. 22 Instrument panel
14. Vibration front/rear drum

The selector switch (14) is used to choose vibration on the rear drum only or on two drums, ON/OFF.

In vibration ON mode, the operator must activate vibration via the switch (20) on the forward/reverse lever.

In left position, vibration is applied to both drums.

In right position, vibration is activated on the rear drum.

BRAKING

Using the reserve brake

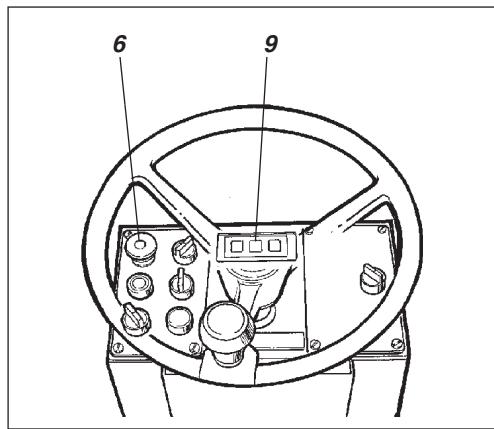


Fig. 23 Instrument panel

- 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 toward neutral.

In addition, each drum motor has a disc brake that acts as a reserve brake when driving, and as a parking brake when stationary.



To brake, press the reserve/parking brake knob (6), hold the steering wheel firmly and be prepared for a sudden stop.

After braking, restore the forward/reverse lever to neutral and pull up the reserve/parking brake knob.

Normal braking

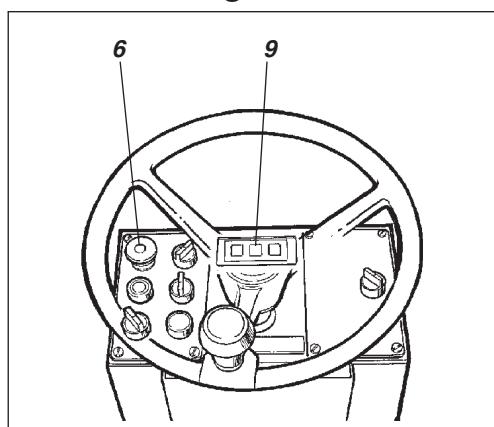


Fig. 24 Instrument panel

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

Press the switch to switch off the vibration.

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

Always press the reserve/parking brake knob (6), even for brief stops, when on sloping ground.

Turn the speed control back to idling, allow the engine to idle a few minutes to cool down.



Remember that when you start 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.

BRAKING

Switching off

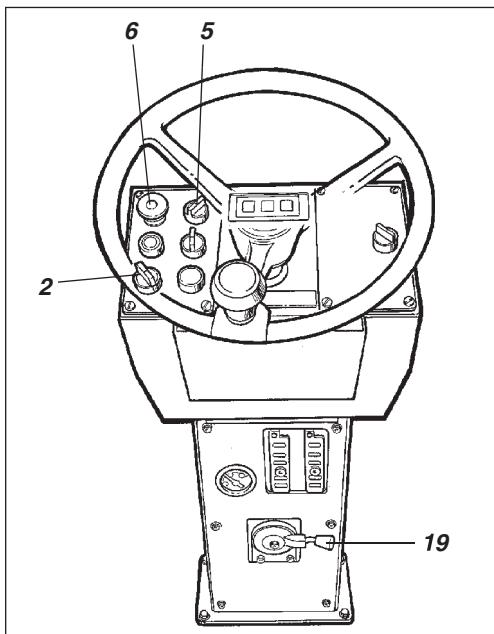


Fig. 25 Instrument column

- 2. Ignition switch
- 5. Vibration switch
- 6. Reserve/parking brake knob
- 19. Rev control

Push the Reserve/parking brake knob (6).

Check instruments and warning lamps to see if any faults are indicated, switch off all lights and other electrical functions.

Turn the starter switch (2) to mode **O**. Lower the instrument cover (on rollers without cab) and lock it.

PARKING

Chocking the drum

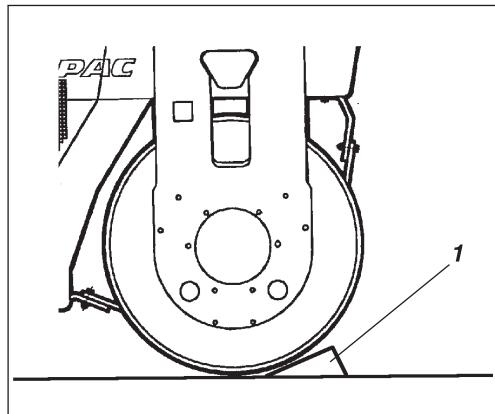


Fig. 26 Drum section

1. Chock



Never leave the roller with the engine running without first pressing the reserve/parking brake knob.



Make sure that the roller is parked in a safe place for traffic. Chock the drum and wheels if the roller is parked on sloping ground.



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

Battery disconnector

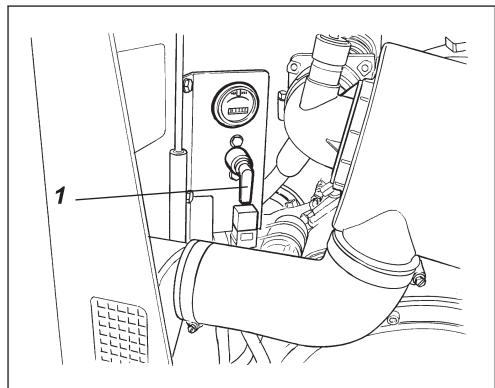


Fig. 27 Engine compartment

1. Battery disconnector

Turn off the battery disconnector and remove the key at the end of the working period.



This will prevent the battery discharging and will also make it difficult for any unauthorized person to start and drive the machine. Lock the engine hood too.

INSTRUCTIONS FOR LIFTING

Locking the articulation joint

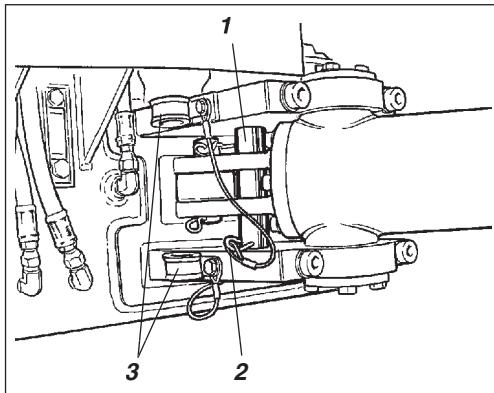


Fig. 28 Left side of articulation

1. Locking bar
2. Locking pin
3. Holder



Before lifting the roller, the articulation must be locked to prevent inadvertent turning.

Turn the steering wheel so that the machine is set for driving straight forward. Push the reserve/parking brake knob.

Then pull down the bright galvanized locking bar (1) from its holder (3), and insert it from below into the hole in the lower articulation mount, push the bar through until its upper end is visible in the hole of the upper articulation mount.

Then secure the bar stud in position with the locking pin (2).



The maximum weight of the machine is noted on the hoisting plate (1). See also technical specifications in the maintenance instructions.



Lifting gear, such as chains, steel wires, straps, and lifting hooks must be dimensioned in conformance with current regulations.



Keep well clear of the hoisted machine! Make sure that hoisting hooks are securely anchored.

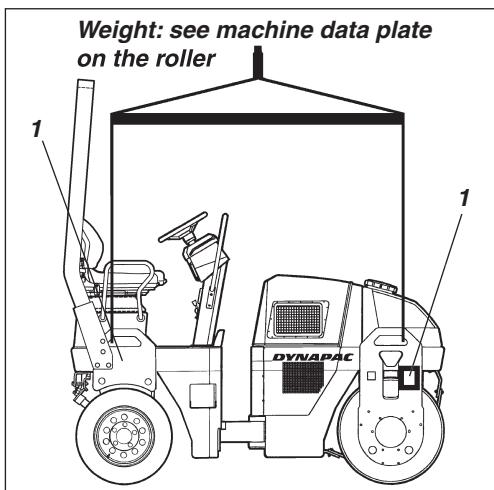


Fig. 29 Lifting the roller

1. Machine data plate (rear plate on left side)

Releasing the articulation joint

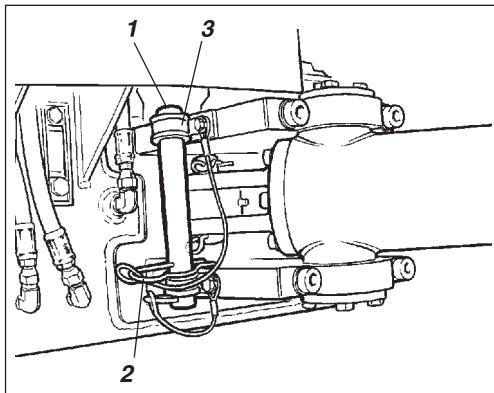


Fig. 30 Left side of articulation

1. Locking bar
2. Locking pin
3. Holder



Remember to restore the locking bar (1) to its holder before driving again.

INSTRUCTIONS FOR TOWING

Disengaging the brakes (Optional)

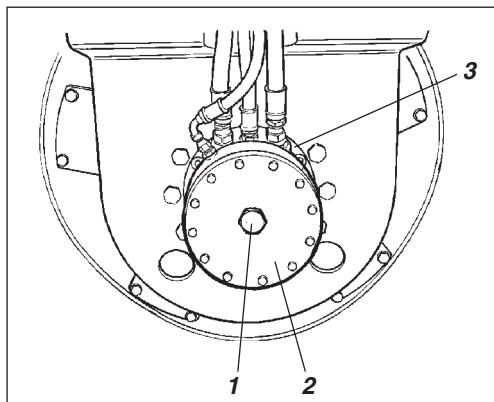


Fig. 31 Left side of drum

1. Disengagement screw
2. Brake housing
3. Drive motor

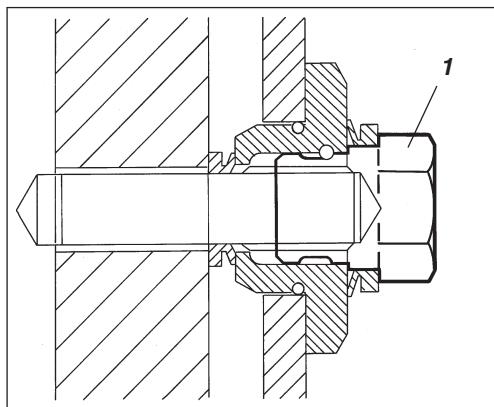


Fig. 32 Brake housing

1. Disengagement screw



The following instructions apply to the CC102, CC122/122C and also the CC142C rear wheel motors.



**Press the reserve/parking brake knob and stop the engine.
Chock the drum so the roller does not begin to move on disengaging the brakes.**



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

1. Use a swivel socket wrench with an 18 mm socket head.
2. Turn the disengagement screw (1) 1 1/2 turns clockwise to disengage the brake.
3. Disengage the brakes on both drums, or on the drum and the two rear wheel motors if it is a combo model.
4. After towing, turn the same screws 1 1/2 turns counter-clockwise to activate the brakes again.

INSTRUCTIONS FOR TOWING

Disengaging the brakes

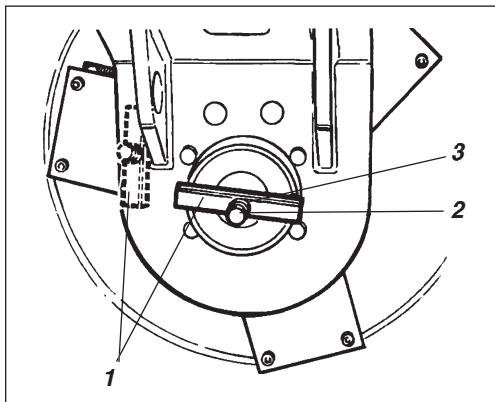


Fig. 33 Left side of drum

1. Brake tool
2. Fastening screw
3. Disengagement nut



The following instructions apply to the CC142 and CC142C drums.



Press the reserve/parking brake knob and stop the engine.

Chock the drum so the roller does not begin to move on disengaging the brakes.



The disc brake in each drive motor must be disengaged mechanically, according to the following instructions, before the roller can be towed.

Restored brake

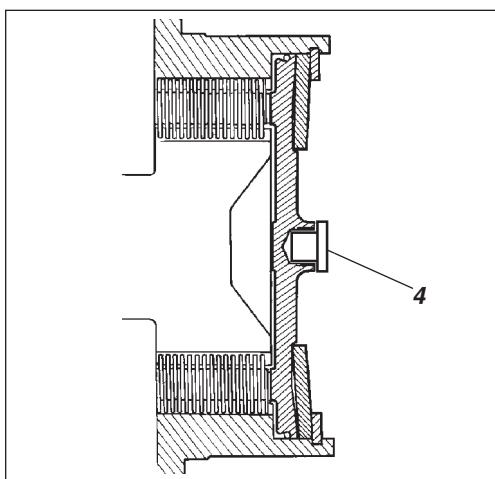


Fig. 34 Brake housing

4. Center plug

1. Remove the center plug (4) using a screwdriver.
2. Screw off the brake tool (1) from its threaded fixing hole. Then fix the brake tool (1) in the center hole by tightening the screw (2) until it bottoms in the hole. Tighten the nut (3) against the brake tool until it stops, indicating that the brake is now disengaged.
3. The rubber wheels are disengaged in the same way as for CC122C; see preceding page.
4. Screw out the nut again after towing. This returns the brakes to their normal mode. Screw off the brake tool and fit it back into its fixing hole. Refit the center plug (4) to counteract the formation of rust inside the threaded hole.

TOWING/RETRIEVAL

Towing a roller

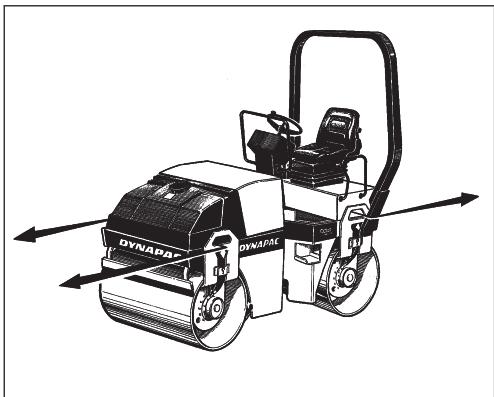


Fig. 35 Towing



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



The roller must be towed slowly (max. 3 km/h / 1.8 mph) and only a short distance (max. 300 m /275 yds).



When towing/retrieval a machine, the towing device must be connected to both lifting holes. The pulling forces must act longitudinally on the machine as illustrated. Maximum gross pulling force 130 kN.

TRANSPORTATION

Roller prepared for transportation

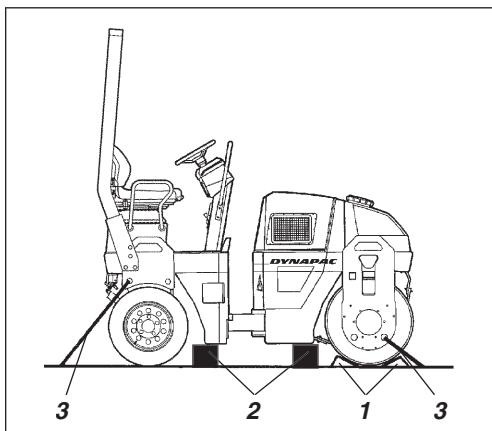


Fig. 36 Transporting a roller

1. Chock
2. Block up
3. Lashing wire



Interlock the articulation before hoisting and transportation; follow the instructions under the respective heading.

Chock the drums (1) and secure the chocks to the transport vehicle.

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

Clamp down the roller with lashing straps (3) at all four corners; decals indicate the fixing points.



Remember to restore the articulation interlock to open mode before starting the roller again.

Retractable ROPS (Optional)

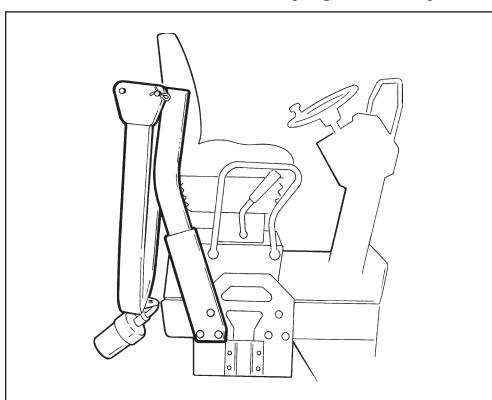


Fig. 37 Retractable ROPS

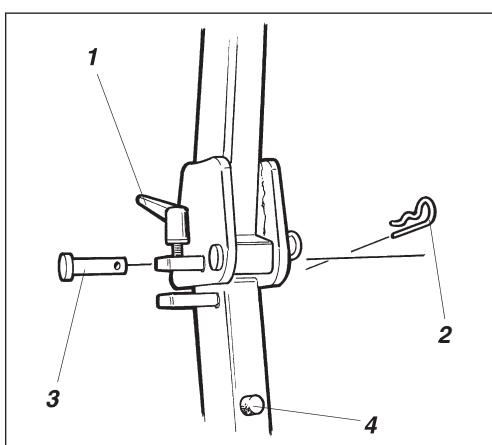


Fig. 38 Locking the protective structure

1. Securing screw
2. Cotter pin
3. Bolt
4. Rubber buffer

To retract the protective structure, unscrew the securing screw (1), pull out the cotter pin (2) and pull out the bolt (3). Do this on both sides of the structure. If there is sufficient space the structure should preferably be retracted to the rear.



Restore the cotter pins and the bolts into position after retracting the structure.

Proceed in the reverse order to the above when raising the structure.



Always ensure that the structure is locked in its raised position before driving the roller.

Lubricate the securing screw (1) and the bolt (3) occasionally with waterproof grease.

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 disconnector to ON.
4. Put the forward/reverse lever in NEUTRAL.
5. Set the vibration selector for Manual/Automatic to position 0.
6. Set the rev control to idling mode.
7. Start the engine and let it warm up.
8. Set the rev control to working mode.
9. Position the reserve/parking brake knob in pulled-up mode.



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



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

12. Use vibration only when the roller is in motion.
13. Make sure that the drums are watered sufficiently when needed..



- 14. IN AN EMERGENCY:** – Push the RESERVE/PARKING BRAKE KNOB.
– Hold the steering wheel firmly.
– Brace yourself for a sudden stop.

15. Parking: Push the reserve/parking brake knob.
Stop the engine and chock the drums.
16. Lifting: – See the OPERATION MANUAL.
17. Towing: – See the OPERATION MANUAL.
18. Transport: – See the OPERATION MANUAL.
19. Retrieval: – See the OPERATION MANUAL.