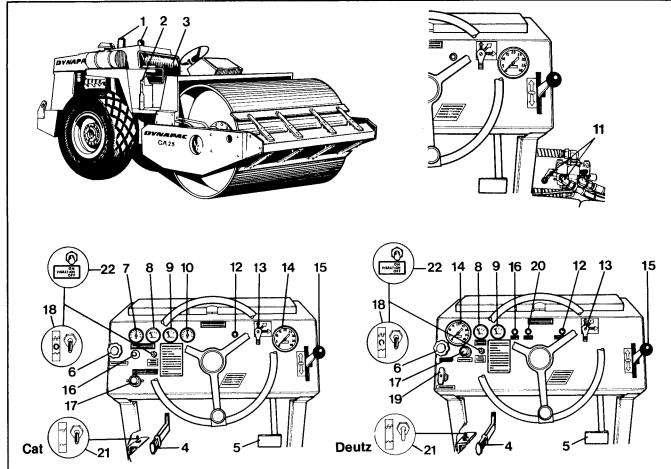


DRIVING INSTRUCTIONS

VIBRATING ROLLER CA 25

Caterpillar dieselmotor D3208 NA Deutz dieselmotor F6L 912

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- Hydraulic oil filter
- Handbrake
- Driver's seat
- Gear selector
- Foot brake
- Throttle

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- Coolant temp. gauge (Cat.)
- Hydr. oil temp. gauge
- Fuel gauge

- 10 Ammeter (Cat.)
- 11 Amplitude selector va1ve
- 12 Warning lamp, handbrake
- 13 Starter switch
- 14 Tachometer
- 15 Forward/reverse lever 22 Vibration switch
- 17 Horn button
- 18 Vibration and amplitude control
- Stop control (Deutz) 19
- 20 Battery charging lamp (Deutz)
- Amplitude selector 21
- Oil press. warning lamp

0-10055-3 Eng

Replaces 0-10055-2 Eng



P. O. Box 1103 · S-171 22 SOLNA · SWEDEN Tel. 08-98 80 00 · Cables DYNAPAC, STOCKHOLM · Telex 19531 DYNSOL S

CATERPILLAR D 3208 ENGINE

BEFORE STARTING

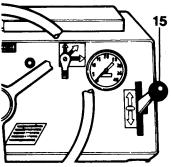
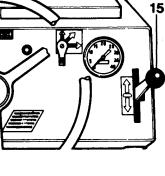


Fig. 1



3 Apply the handbrake (2) by pulling up the lever(\rangle

Ensure daily maintenance has been carried out (see the maintenance instructions).

2 Move the forward/reverse lever (15) to the

NEUTRAL position. The diesel engine cannot be started when the lever is in any other position.

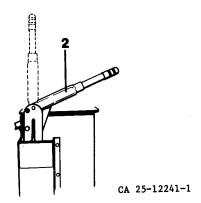


Fig. 2

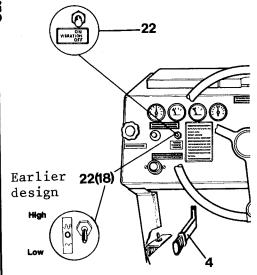


Fig. 3

- 4 Move the vibration switch (22) to OFF. (For rollers equipped with a vibration control (18) move the control to the O position.)
- 5 Check that the gear (4) is engaged see the sticker on the instrument panel.

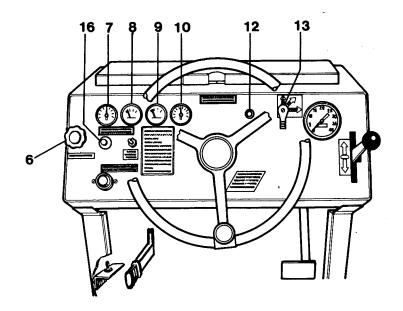


Fig. 4

- 1 Set throttle (6) to about 1/3 full throttle.
- 2 Turn the starter switch (13) to the "ON" position.

Ensure the temperature gauge (7), oil temperature gauge (8) and fuel gauge (9) indicate readings and that the oil pressure warning lamp (16) and the handbrake warning lamp (12) light up.

If the horn sounds, set the forward/reverse lever to STOP so that it ceases.

3 Depress and turn the starter switch (13) to START and hold it there until the engine fires. Do not keep the starter motor engaged for more than about 10 seconds.

When starting the engine at temperatures below -12°C (10°F), a small amount of starter gas may be sprayed into the air cleaner before starting the engine.

If the engine does not start, pause briefly before attempting to start it again.

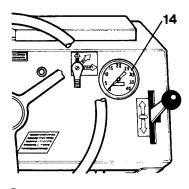
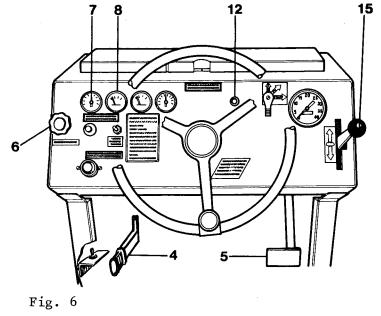


Fig. 5

- 4 Warm up the engine by running it at 800-1000 rpm (14) for 2-10 min, depending on the air temperature.
- 5 While warming up the engine, ensure the ammeter (10), fig. 4, points to + and that the oil pressure warning lamp (16), fig. 4, has gone out.



- 1 Open the throttle (6) until the engine runs at a speed of 2400 rpm.
- 2 Ensure the steering system is in working order by turning the steering wheel one revolution to the right and one to the left whilst the roller is stationary.
- 3 Move the gear selector (4) to the desired position (see the sticker on the instrument panel).

Pos. 1 = working position max. speed 6 km/h (6 km/h)

Pos. 2 = road transport position max. speed 12 km/h (9 km/h)

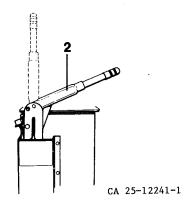
Pos. 3 = road transport position max. speed 23 km/h (12 km/h)

Position 3 should only be used when driving on smooth straight roads.

The values in brackets apply to CA 25D and CA 25 PD machines.

The roller speed is regulated using the forward/reverse lever (15), fig. 6, (which is also the normal brake for stopping the roller).

- 4 Release the handbrake (2), by moving the lever forward and down. This should cause the handbrake warning lamp (12), fig. 6, to go out.
- 5 Move the forward/reverse lever (15), fig. 6, to the desired setting. Control the speed of the roller with this lever. The roller will be brought to a halt by moving this lever to NEUTRAL.
- 6 While driving, ensure the gauges show normal readings and that the warning lamps do not light up. The maximum hydraulic oil temperature (8) should not exceed 82°C (approx. 185°F). Maximum coolant temperature (7 in fig. 6) 100°C (approx. 210°F).
- 7 Ensure the foot brake, fig. 6, is in proper working order (see the maintenance instructions).



BRAKING

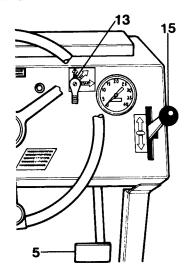


Fig. 8

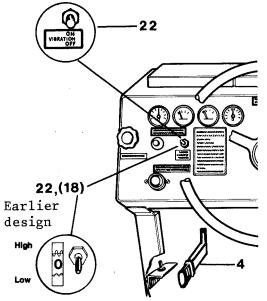
Normal braking while driving

Normal braking is carried out by means of the forward/reverse lever (15). The hydrostatic transmission will slow down the roller when the lever is moved to the "NEUTRAL" position.

Emergency braking

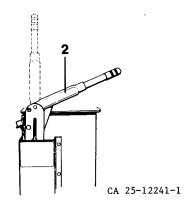
The roller is equipped with a foot brake (5) that acts on the drum brakes on the rear wheels to bring the roller to a halt quickly in emergency situations.

STOPPING



- 1 Set the vibration switch (22) to the "OFF" position.
 - (On certain rollers, amplitude selection is carried out on the instrument panel. Set the selector (18) to the O position).
- 2 Move the forward/reverse lever (15), fig. 8, to the "NEUTRAL" position.

Fig. 9



- 3 Apply the handbrake (2).
- 4 Run the engine at idling speed for about 5 minutes to allow the engine temperature to fall.
- 5 Set the starter switch (13), fig. 8, to the "STOP" position.

Fig. 10

PARKING

Never leave the roller with the diesel engine running.

When parking on an incline, use a stone or suchlike to chock the drum.

VIBRATION Driving

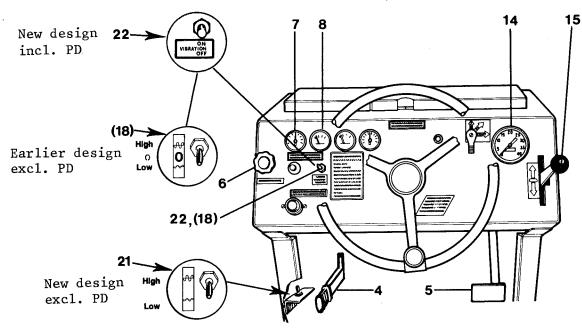


Fig. 11

1 Ensure the vibration switch (22) is in the OFF position. Check the amplitude setting (21) at the same time. (On earlier machines, set (18) to 0).

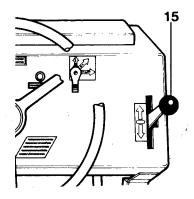
Never move the amplitude selector between "high" and "low" amplitude when the vibration switch is on - wait a few seconds before altering the amplitude.

- 2 Move the gear selector (4) to position 1.
- 3 Adjust the throttle (6) until the tachometer (14) reads 2400 r/min. Carry out fine adjustment of the speed by turning the upper part of the throttle (6).
- 4 Move the forward/reverse lever (15) to the desired direction of travel and regulate the speed of the roller with this lever.
- 5 Use the vibration switch (22) to engage vibration when the roller is in motion. (Use (18) to engage vibration on earlier designs). If the engine speed falls, increase it to 2400 rpm (6).
- 6 Do not disengage vibration when changing the direction of travel.

To change the direction of travel from forward to reverse (or vice versa), move the forward/reverse lever (15) slowly past the neutral position. The hydrostatic transmission ensures that the roller will be brought to a stop and change its direction of travel smoothly.

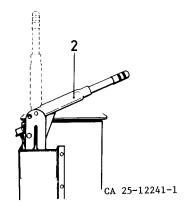
DEUTZ F6L 912 ENGINE

BEFORE STARTING



- 1 Ensure daily maintenance has been carried out (see the maintenance instructions).
- 2 Move the forward/reverse lever (15) to NEUTRAL. The diesel engine cannot be started when the lever is in any other position.

Fig. 12



3 Apply the handbrake (2) by pulling up the lever.

Fig. 13

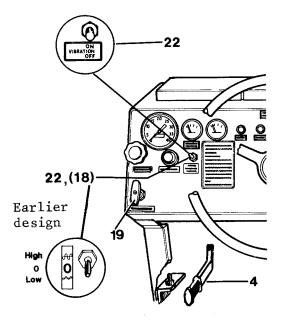


Fig. 14

- 4 Set the vibration switch (22) to OFF. (For rollers equipped with a vibration control (18), move the control to the O position.)
- 5 Check that the gear is engaged (4) see the sticker on the instrument panel.

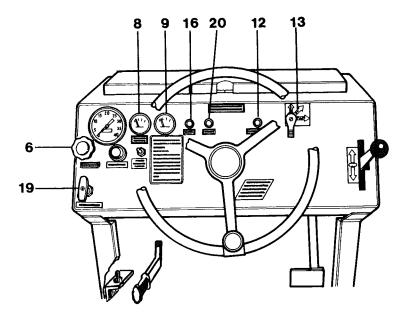


Fig. 15

- 1 Ensure the stop control (19) is fully pressed in.
- 2 Pull out the throttle (6) to about 1/3 full throttle.
- 3 Turn the starter switch (13) to ON.

Ensure the oil temperature gauge (8) and fuel gauge (9) indicate readings and that the oil pressure warning lamp (16) and handbrake warning lamp (12) light up.

If the horn sounds, set the forward/reverse lever to NEUTRAL so that it ceases.

4 Depress and turn the master switch (13) to START and hold it there until the engine fires. Do not keep the starter motor engaged for more than about 10 seconds.

When starting at temperatures below -12° C (10°F) a small amount of starter gas may be sprayed into the air cleaner before starting the engine.

If the engine fails to start, wait a short while before trying to start it again.

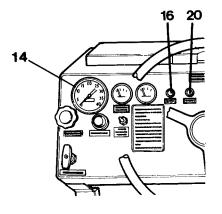


Fig. 16

- 5 Warm up the engine by running it at 800-1000 rpm (14) for 2-10 minutes, depending on the air temperature.
- 6 While warming up the engine, ensure the battery charging warning lamp (20) and the oil pressure warning lamp (16) have gone out.

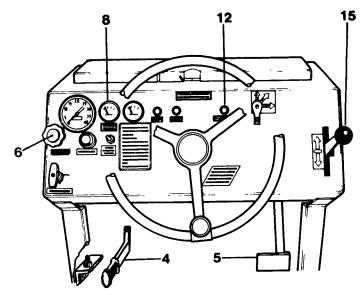


Fig. 17

- 1 Open the throttle (6) until the engine runs at a speed of 2400 rpm.
- 2 Ensure the steering is in working order by turning the steering wheel one revolution to the right and one to the left whilst the roller is stationary.
- 3 Move the gear selector (4) to the desired position (see the sticker on the instrument panel).

Pos. 1 = working position
max. speed 6 km/h (6 km/h)

Pos. 2 = transport position

max. speed 12 km/h (9 km/h)

Pos. 3 = transport position

max. speed 23 km/h (12 km/h)

Position 3 should only be used when driving on smooth straight roads.

The values in brackets apply to CA 25D and CA 25PD machines.

The roller speed is regulated by the forward/reverse lever (15), (which is also the normal brake for stopping the roller).

- 4 Release the handbrake (2) by moving the lever forward and down. This should cause the handbrake warning lamp (12), fig. 17, to go out.
- 5 Move the forward/reverse lever (15) to the desired direction of travel. Regulate the speed of the roller with this lever. To bring the roller to a halt, move this lever to NEUTRAL.
- 6 While the roller is in motion, check that the gauges indicate normal values and that the warning lamps do not light up. The maximum hydraulic oil temperature (8) should not exceed 82°C (approx. 185°F).
- 7 Check that the foot brake (5) is in proper working order (see the maintenance instructions).

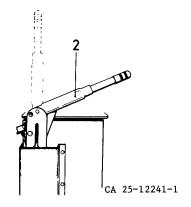


Fig. 18

BRAKING

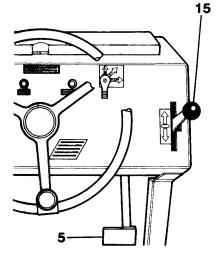


Fig. 19

STOPPING

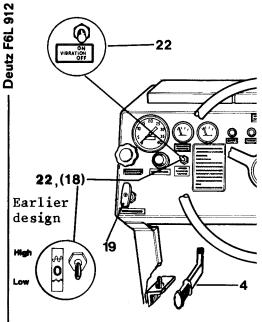
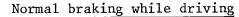


Fig. 20



Braking is normally carried out by means of the forward/reverse lever (15). The hydrostatic transmission acts on the rear wheels, slowing the roller when the lever is moved to NEUTRAL.

Emergency braking

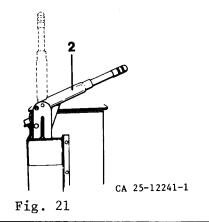
The roller is equipped with a foot brake (5) to bring it rapidly to a halt in emergency situations, the foot brake acts on the drum brakes on the wheels.

 $1\,\,$ Set the vibration switch (22) to OFF.

(On certain rollers, amplitude selection is carried out on the instrument panel. Set the control (18) to the O position.)

2 Move the forward/reverse lever (15), fig. 19, to the "NEUTRAL" position.

- 3 Apply the handbrake (2).
- 4 Allow the engine to run at idling speed for about 5 minutes to allow it to cool down.
- 5 To stop the engine, pull out the stop control (19), fig. 20.

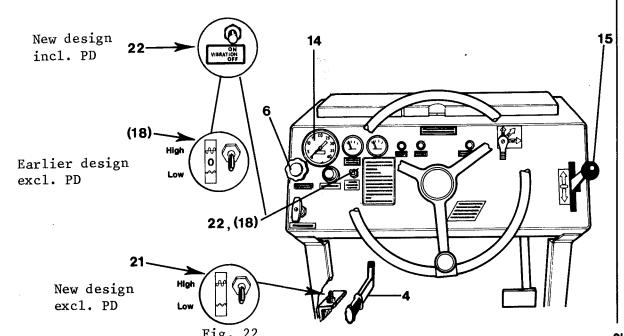


PARKING

Never leave the roller with the diesel engine running.

When parking on an incline, use a stone or suchlike to chock the drum.

VIBRATION Driving



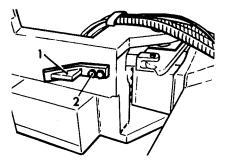
1 Ensure the vibration switch (22) is in the "OFF" position. Check the amplitude setting (21) at the same time. (On earlier machines, set the switch (18) to the 0 position.)

Never move the high/low amplitude switch when vibration is engaged. Wait a few seconds after disengaging vibration before altering the amplitude.

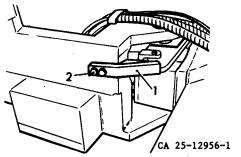
- 2 Move the gear selector (4) to position 1. See the sticker on the instrument panel.
- 3 Adjust the throttle (6) until the tachometer (14) reads 2400 rpm. Fine adjustment is achieved by turning the upper part of the throttle (6).
- 4 Move the forward/reverse lever (15) to the desired direction of travel and use this lever to regulate the speed.
- 5 Use the vibration selector (22) to engage vibrations when the roller is in motion. (On earlier rollers, use switch (18) to engage vibrations.) If the engine speed falls, increase it to 2400 rpm (6).
- 6 Vibrations should not be disengaged when changing the direction of travel.

To change the direction of travel from forward to reverse (or vice versa), move the forward/reverse lever (15) slowly past the centre position. The hydrostatic transmission will ensure that the roller will be brought to a stop and change its direction of travel smoothly.

LIFTING INSTRUCTIONS



a) Position when driving



b) Position when lifting Fig. 23 Locking device

- 1 Locking device
- 2 Bolt

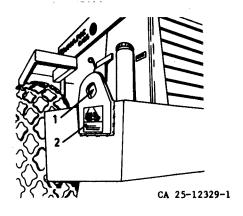


Fig. 24

Do not walk under a suspended roller!

The front and rear frames must be locked when lifting the roller, to prevent turning about the steering pivot.

- 1 Run the roller onto a flat surface with the front and rear frames in line.
- 2 Switch off the engine.
- 3 Remove the bolts (2) and fit the locking device (1) as shown in fig. 23b.

Fit a locking device on each side of the roller.

Fit the lifting sling to the lifting slots (1) and lift the roller. The location of the lifting slots and the weight of the roller are marked on the plate (2) on the lefthand side of the roller.

Lifting sling is available as an optional extra (see the spare parts catalogue). If other lifting sling is used, see fig. 27, note that steel ropes, chains, etc. must comply to the current area safety regulations and be of the correct capacity for the weight to be lifted.

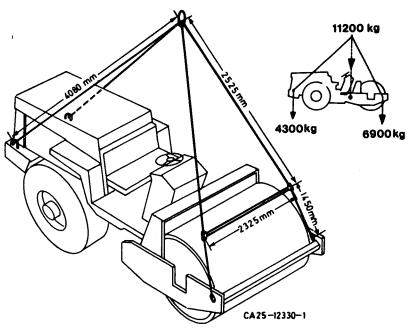


Fig. 25