

OPERATOR'S MANUAL

Excavator Crawlers EC45



NEWHOLLAND
CONSTRUCTION

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2 Safety and prevention of accidents

2.13 Working in the vicinity of overhead power lines

When the earth-moving machine is being used in the vicinity of overhead power lines and trolley wires, a safety distance which varies depending upon the nominal voltage of the overhead line must be maintained between the lines and the earth-moving machine and its work equipment, in order to prevent current overspill. This also applies to the distance between these lines and attached implements or loads.

The safety distances specified below must be complied with:

Nominal voltage in Volt	Safety distance in metres
- 1000 V	1.0 m
over 1 kV - 110 kV	3.0 m
over 110 kV - 220 kV	4.0 m
over 220 kV - 380 kV	5.0 m
nom. voltage unknown	5.0 m

In the observation of safety distances, all working movements of earth-moving machines, e.g. positions of the work equipment and the dimensions of attached loads must be taken into consideration. Uneven ground which would cause the earth-moving machine to be inclined and thus nearer to overhead lines must also be taken into account.

During work in windy conditions, both overhead lines and work equipment may swing out, thus reducing the safety distance.

If it is impossible to maintain sufficient distance from overhead power lines and trolley wires, the plant operator must consult with the proprietor or operator of the overhead lines to find other safety precautions to prevent current overspill. Such measures could be, e.g.

- Switching off the current
- Re-routing the overhead line
- Cabling, or

- Limiting the work zone of earth-moving machines.

4 Operation

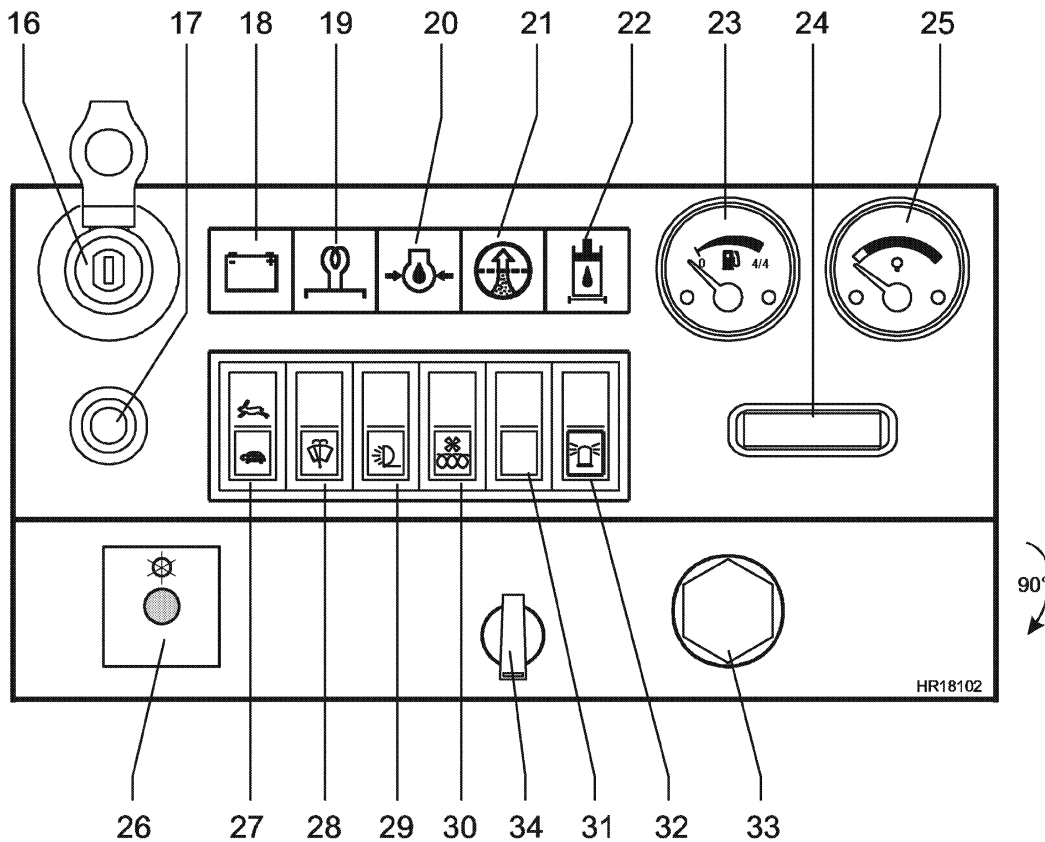


Fig. 10.2 Actuation

- 16 Pre-heat/ starter switch (ignition lock)
- 17 Horn button
- 18 Red - Battery charge indicator
- 19 Orange - Pre-heating monitor
- 20 Red - Engine oil pressure indicator
- 21 Yellow - Air filter clogging indicator
- 22 Hydraulic oil filter clogging indicator
- 23 Fuel gauge
- 24 Operating hour meter
- 25 Coolant temperature
- 26 Immobilizer (option)
- 27 Fast/ slow
- 28 Windscreen wash/ wipe system
- 29 Working floodlight(s)
- 30 Heater / ventilation
- 31 Blank
- 32 Rotating warning beacon (option)
- 33 Warning buzzer
- 34 Socket

5 Working operation

5.2 Actuating the work functions

5.2.1 Actuating the work equipment

- Select the desired operating mode of the working equipment by means of the lever (23/3).

A = ISO/SAE style controls

B = Backhoe style controls

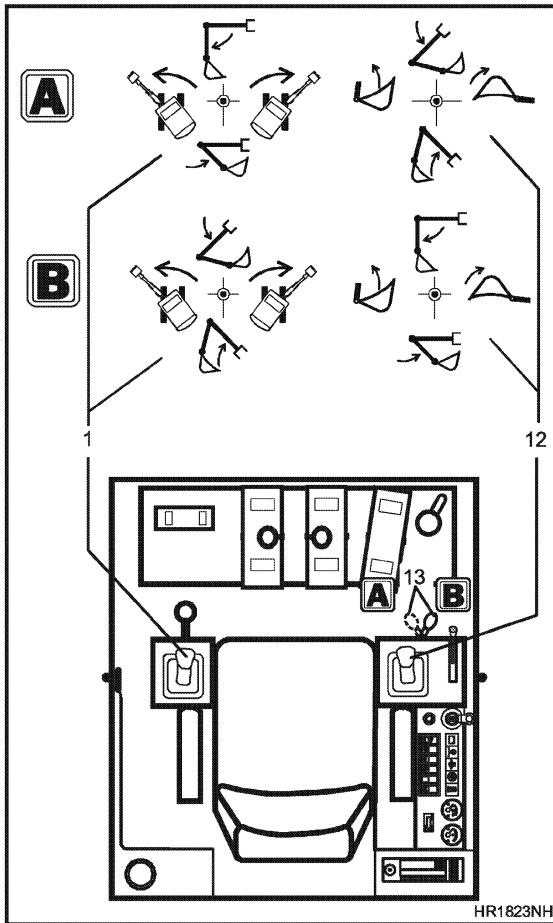


Fig. 23-Actuation

5.2.2 Actuation - Articulation

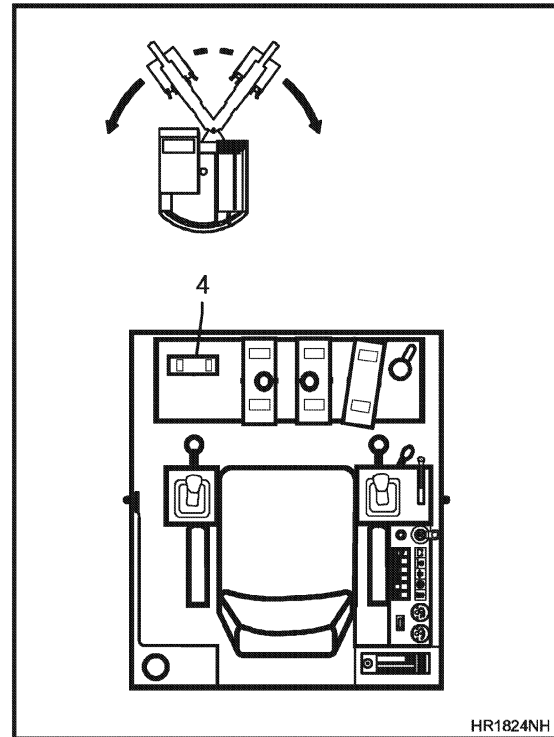


Fig. 24-Actuation

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7 Care and maintenance

7.2 Inspection parts and aids

Service parts	Spare parts number
Hydraulic oil filter insert	5 380 660 852
Ventilation filter.....	5 501 655 650
Engine oil filter	5 527 662 013
Fuel filter	5 527 662 033
Fuel water separator insert.....	5 527 657 691
Air filter - Main cartridge	5 501 648 497
Air filter - Safety cartridge	5 501 648 498
V-belt, breather 13x1000	5 527 662 015
Valve cover sealing	5 527 662 021
Extras	
NEW HOLLAND CONSTRUCTION - hydraulic oil, mineral	4 312 005 050
NEW HOLLAND CONSTRUCTION - hydraulic oil, biodegradable	For further information, please contact your NEW HOLLAND CONSTRUCTION dealer!
Gear oil (SAE 85 W 90 LS)	4 314 005 775
Engine oil (SAE 15 W 40)	4 312 905 759
Anti-freeze and anti-corrosion agent	4 440 305 025



Service parts for inspections should be ordered well in advance !

Lubricants

- The machine's life expectancy and operating condition are largely dependent upon the use of the specified lubricants and compliance with the service intervals.
- If lubricants which do not conform to our recommendations are used, consequential damages may occur for which we will not assume liability, even inside the warranty period.
- For lubricant specifications see Technical Data, section 3.6.2.

7 Care and maintenance

7.6.7 Checking the V-belts

Maintenance acc. to inspection plan, section 7.7.3.



Only check and tension V-belts with the engine off!

Danger of injury !

- Check the complete V-belts and make sure that they are not damaged.



Replace worn or damaged V-belts immediately.

Checking the V-belt tension



In order to check the V-belt tension, a tension gauge is recommended. Check the tension according to the manufacturer's operating instructions.

Checking the V-belt tension without a tension gauge

- To check the tension, press the V-belt with your thumb in the middle of the greatest free length, and measure the sag.
- Using medium thumb pressure of approx. 100 N, the V-belt sag should equal 13 mm.

Tensioning V-belts

- Stop the engine and remove ignition keys.
- Open the engine cover.
- Slacken the fastening screws (57/1 and 57/2) of the generator.
- Rotate the generator until the tension is correct.
- Tighten the fastening screws (57/1 and 57/2) of the generator.
- Check the tension once more.



*When new V-belts are fitted, their tension must be checked and adjusted if necessary after the **first 15 minutes**.*

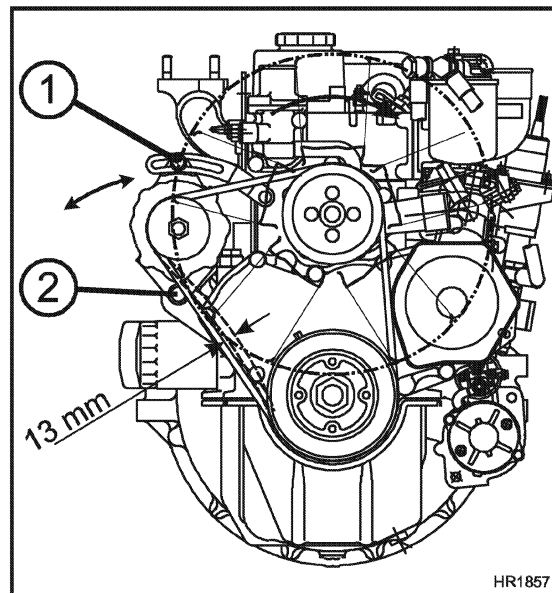


Fig. 57-V-belt

7 Care and maintenance

8 Operating problems

Fault	Possible cause	Remedy
8.5 Insufficient travel power		
1	Engine power insufficient	Check diesel engine
2	Main pressure relief valves defective or mis-adjusted	Check pressure, re-adjust valves, replace if necessary.
3	Oil loss in rotary transmission	Re-seal rotary transmission.
4	Crawlers too tightly tensioned	Check crawler tension and reduce, if necessary
8.6 Excavator equipment is not working		
1	Working hydraulics cut-off lever lifted or pilot pressure valve defective	Lower working hydraulics cut-off lever and/or check pilot pressure valve, or replace if necessary or repair.
2	Oil supply to hydraulic pump interrupted	Check pipes.
3	Hydraulic pump has failed	Have hydraulic pump checked by a specialist and replace, if necessary
4	Main pressure relief valves have failed or are mis-adjusted	Check main pressure relief valve and replace, if necessary
8.7 Decrease in machine's performance		
1	Insufficient engine power	Check diesel engine.
2	Hydraulic oil level too low	Top up hydraulic oil to the mark
3	Pump is sucking up air	Tighten hose connections. Replace O-ring or seals
4	Pump is worn	Replace
5	Insufficient working pressure	Re-adjust or replace main pressure relief valves

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