

AC 40C





Z 29 800



Z 29 803

4.5 Engine Cutout Switch (Optional)

(Z 115 269, Z 58 667)

Your crane is equipped with engine cutout equipment. This includes three engine cutout switches. One switch is located in the superstructure cab on the dashboard (item **64**). Two additional engine cutout switches are located on the chassis frame on the right- and left-hand side (**Y** and **Z**).



The engine cutout switch is only guaranteed to work when the parking brake is applied in the chassis cab and the transmission is placed in "neutral".

The engine/motor is switched off! In the chassis cab the indicator light "engine cutout switch actuated" lights up. The engine can only be restarted once all engine cutout switches have been unlocked again.

4.6 "Quick Stop" with Air Shutoff Valve (Optional)

(Z 115 269, Z 58 667)

In order to operate in an atmosphere at risk of explosions (e.g. air with easily flammable gases), your crane can be equipped with an automatic engine stop device.

Using a shutoff flap between the air filter and engine, the air flow is cut off when the device is actuated.

For manual activation of the air shutoff flap there are engine rapid stop switches on the crane.

Depending on the design, there is an additional engine rapid stop switch in the cab over the dashboard. There are two other engine rapid stop switches, one each on the right- and left-hand side of the chassis frame (**Y** and **Z**).

Independent of manual activation, the rapid stop device is automatically initiated when a certain limit speed is exceeded. At the same time the fuel supply is interrupted. The engine is switched off.

6.1.3.2 Neutral Position "N"

(Z 115 262)

To park the crane and to start the engine, "N" must be selected at the keypad (26).



Preselect neutral position only when the crane is stationary. Do not preselect the neutral position while travelling.

6.1.3.3 Reverse Gear "R"

Select "R" to reverse.



Actuate the foot brake when shifting the gear. must be stationary.



If switch (Z 115 267) "Engine speed limit" (optional) is available, the engine speed is automatically reduced to a maximum of 1200 min⁻¹ (rpm) during reversing.

6.1.3.4 Drive Position "D"

Drive position "D" is always selected when driving the crane on the road under normal conditions. The transmission control then switches between the power stages "1" to "6" to the power stage best suited to the current speed.



Actuate the foot brake when shifting from position "N" to position "D" so that the vehicle does not begin to move unintentionally.

6.1.3.5 Driving Range Selection "1" to "6"

When driving on slopes or when the road is icy, you can avoid changing over to the higher switching stages by pressing keys (26.5) and (26.6) for preselecting the driving ranges "5", "4", "3", "2" or "1". This causes the higher stages of the transmission to be locked; the transmission only engages up to the preselected gear.



The transmission can be stepped up from one drive position to the next without the foot brake being actuated.

In order to apply a lower drive position, the vehicle can be braked using the service brake until the gear transmission has switched to the preselected maximum drive position.

Always observe:

When driving downhill, select the same "maximum drive position" (= driving range) with which one would also drive uphill.

10.1 Suspension Circuits (Z 115 037)

Both axles of the crane have hydraulic suspension.

The hydraulic suspension system consists of 4 suspension circuits:

- Suspension circuit I - axle 1, left
- Suspension circuit II - axle 1, right
- Suspension circuit III - axle 2 and 3, left
- Suspension circuit IV - axle 2 and 3, right

The control elements for the hydraulic suspension system are housed in the dash panel.

15.1 Load Limit Device Console (LMB)



For the crane to operate safely, it is essential that the load limit device functions in original condition.

15.1.1 Operating Elements (Z 115 141)

- F1 Function key 1**
- to change display settings
 - call up diagnosis menu
 - to change solenoid valve settings (for service personnel only)
- F2 Function key 2**
- to select the crane configuration - boom point with 0° hoist tackle (see section 15.2)
- ENTER Enter key**
- To confirm commands
- QUIT Quit key**
- activate / deactivate buzzer
 - to leave the menu points without saving the changes
 - to save the actual load as the tara load (net load display jumps to "zero")

Arrow keys

- to change the display
- to change the crane configuration, depending on display
- to change the input values

All crane configurations enabled for this crane are set using these operating elements. Depending on the display design, the operating elements are assigned the displayed functions. Using the arrow symbols shown in the display, you can select the desired crane configuration, confirming the selection with the **ENTER** key.

21.4 Boom Point (Hall Point, Option)

By using the boom point (1), (Z 115 158) on the main boom head, it is possible to reach the maximum hoist height during main boom operation

Fitting the boom point

1. Remove underride guard from main boom head.
2. Lift the boom point from its storage cradle using the main crane equipment. (Z 115 159).
3. Pin and lock supporting rods (1) in middle hole at point 'A' (Z 75 127)
4. Set down boom point on level ground before the crane and secure to stop from rolling away. Radius indicator on CTC must show 10.7 m (35.1 ft).
5. Fold down draw bar (2) forwards (Z 75 127).
6. Luff down main boom (length: 12.8 m / 42.0 ft) to -9° and position behind the boom head (Z 75 128)
7. Insert boom point from the front in head axle 'B' and pin and lock from both sides of point 'B' (Z 75 128).

21.4.1 Lift loads with a main boom angle of 24-44°(medium length boom point)

8. Pin and lock medium-length draw bar (2).
9. Luff boom down and pin and lock draw bars on both sides at point 'C' (Z 75 130).

25.2 Malfunctions / Elimination of Malfunctions



The function of the pump can be recognised from the outside by the rotation of the agitator blade (e.g. by initiating an additional lubrication cycle) or at the LEDs of the control circuit board.

Malfunction: Pump engine not running	
Cause	Remedy
Electricity supply interrupted.	Check electricity supply / (safety) fuses. Rectify malfunction / if required replace (safety) fuses.

Malfunction: Pump is not pumping	
Cause	Remedy
Container is empty.	<i>Fill up container with clean grease, let pump run (additional lubrication), until lubricant emerges at all lubricating points. Note: Depending on the ambient temperature and / or the lubricant, the pump elements can require up to 10 minutes in order to achieve the full pumping capacity.</i>
Air trapped in the lubricant.	Carry out an additional lubricating pulse. Remove exhaust screw from the safety valve. The lubricant must emerge without any bubbles.
Unsuitable lubricant used.	Renew lubricant, see lubrication table ("Maintenance and lubrication instructions of the superstructure", part 2).
Suction bore hole of the pump element blocked.	Remove pump element, check suction bore hole impurities and remove.
Pump piston worn.	Replace the pump element.
Non-return valve in the pump element defective or blocked.	Replace the pump element.

Malfunction: Different lubricant quantity at the lubricating point	
Cause	Remedy
Corresponding valve body was fitted without a clamping ring.	Remove valve body and check if there is a clamping ring. If not, fit a clamping ring.

Full Version Available

Demag AC 40 C All Terrain Crane Operator Manual

Demag AC 40 C all terrain crane operator manual, covering safety, boom assembly, reeving and boom erection. 4 PDF files, 626 pages. Instant PDF download.

VIEW THE FULL MANUAL

<https://machinecatalogic.com/demag-ac-40-c-all-terrain-crane-operator-manual/>

File Pages: 626 · File Count: 4 · File Language: English