OPERATOR'S MANUAL



67 C-1

EN - 9821/9500
ISSUE 3 - 01/2016

THIS MANUAL SHOULD ALWAYS STAY WITH THE MACHINE

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Safety

Safety - Yours and Others

All machinery can be hazardous. When a product is correctly operated and maintained, it is a safe product to work with. When it is carelessly operated or poorly maintained it can become a danger to you (the operator) and others.

In this manual and on the product you will find warning messages, read and understand them. They inform you of potential hazards and how to avoid them. If you do not fully understand the warning messages, ask your employer or JCB dealer to explain them.

Safety is not just a matter of responding to the warnings. All the time you are working on or with the product you must be thinking of what hazards there might be and how to avoid them.

Do not work with the product until you are sure that you can control it.

Do not start any work until you are sure that you and those around you will be safe.

If you are not sure of anything, about the product or the work, ask someone who knows. Do not assume anything.

Remember:

- Be careful
- Be alert
- Be safe.

Safety Warnings

In this manual and on the product, there are safety notices. Each notice starts with a signal word. The signal word meanings are given below.

The signal word 'DANGER' indicates a hazardous situation which, if not avoided, will result in death or serious injury.

The signal word 'WARNING' indicates a hazardous situation which, if not avoided, could result in death or serious injury.

The signal word 'CAUTION' indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

The signal word 'Notice' indicates a hazardous situation which, if not avoided, could result in product damage.

The safety alert system (shown) also helps to identify important safety messages in this manual and on the product. When you see this symbol, be alert, your safety is involved, carefully read the message that follows, and inform other operators.

Figure 2. The safety alert system



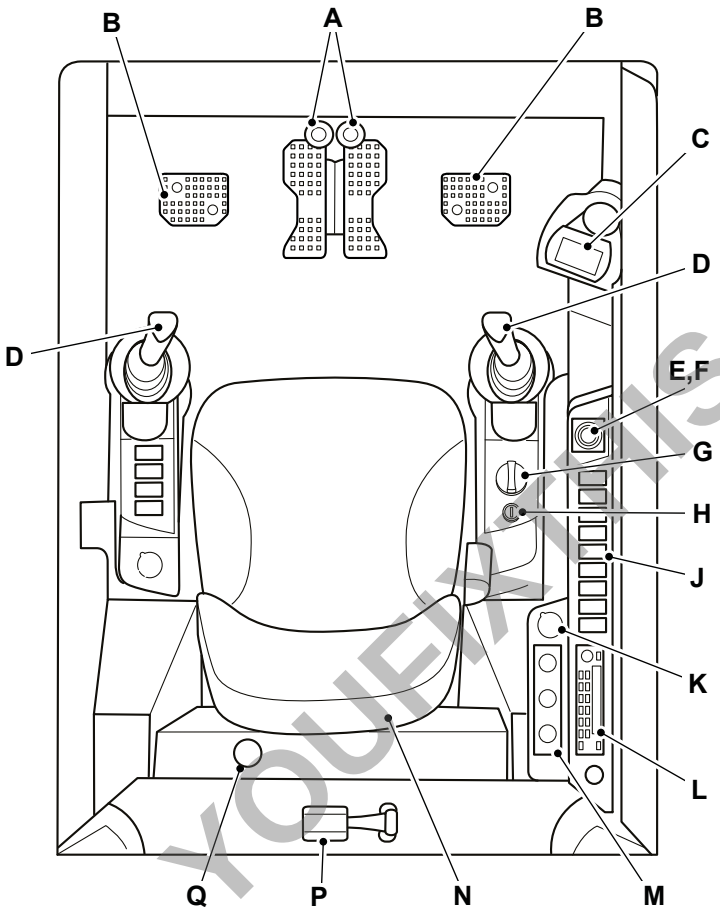
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Operator Station

Component Locations

Figure 11.



A Track controls Refer to: Operation > Drive Controls > Track Controls (Page 57).
B Foot rest (option)
C Instrument panel Refer to: Operation > Instruments (Page 59).
D Excavator controls Refer to: Operation > Operating Levers/Pedals > Excavator Arm Controls (Page 71).
E Dozer blade control lever Refer to: Operation > Operating Levers/Pedals > Dozer Blade Controls (Page 74).
F Two-speed tracking switch Refer to: Operation > Drive Controls > Track Controls (Page 57).
G Hand throttle control Refer to: Operation > Drive Controls > Hand Throttle Control (Page 57).
H Ignition key switch Refer to: About the Product > Interior Switches > Ignition Switch (Page 20).
J Switch console Refer to: About the Product > Console Switches (Page 18).
K Auxiliary power socket Refer to: Operation > Power Sockets (Page 87).
L Entertainment system
M HVAC (Heating Ventilation Air Conditioning) controls Refer to: Operation > Heating, Ventilating and Air-Conditioning (HVAC) (Page 85).
N Operator seat Refer to: Operation > Operator Seat (Page 41).
P Glass hammer Refer to: Operation > Entering and Leaving the Operator Station > Emergency Exit (Page 32).
Q Fire extinguisher (option)Refer to: Operation > Fire Extinguisher (Page 89).

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Instruments

General

Indicators for the engine and related systems are mounted in the instrument cluster in the right hand console.

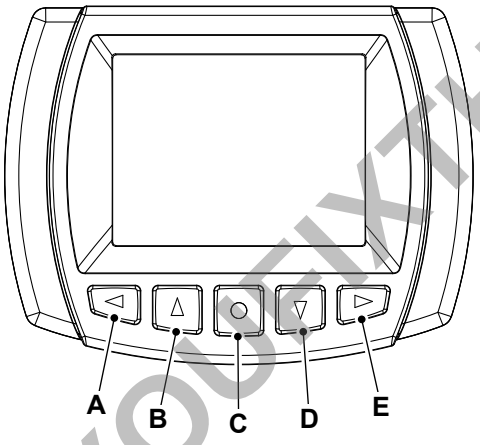
Instrument Panel

The DECU (Display Electronic Control Unit) is located at the front of the cab in the line of sight from the operator's seat. It provides the interface with the machines electronic system. Isolate the controls before using it.

3.5 Inch Colour Display

The display has a digital display.

Figure 38.



A Left
B Up
C Select
D Down
E Right

Display Screens

Splash Screen (NO Immobiliser)

Figure 39.



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Notice: *Some attachments may contact parts of the machine when in the fully folded position. Take extra care to avoid damage to the machine.*

Connecting/Disconnecting Hydraulic Hoses

⚠ **WARNING** Fine jets of fluid at high pressure can penetrate the skin. Keep face and hands well clear of fluid under pressure and wear personal protective equipment. Hold a piece of cardboard close to suspected leaks and then examine the cardboard for signs of fluid. If fluid penetrates your skin, get medical help immediately.

WARNING Hydraulic fluid at system pressure can injure you. Before connecting or removing any hydraulic hose, residual hydraulic pressure trapped in the service hose line must be vented. Make sure the hose service line has been vented before connecting or removing hoses. Make sure the engine cannot be started while the hoses are open.

Some attachments are hydraulically powered. The following procedures show how to connect and disconnect the hydraulic hoses safely.

Connecting the Hydraulic Hoses

1. Make the machine safe.

   Refer to: Maintenance > Maintenance Positions (Page 140).

2. Vent the hydraulic system.

   Refer to: Maintenance > Hydraulic System > General > Discharge (Page 166).

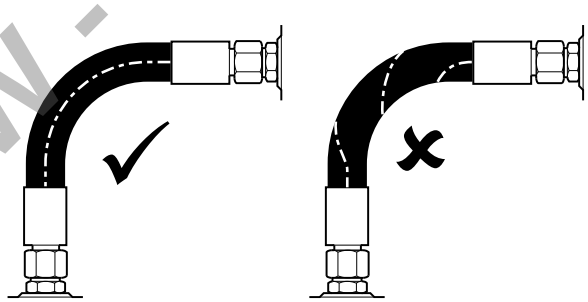
3. Check the hoses and adaptors for damage.

   Refer to: Maintenance > Hydraulic System > General > Check (Condition) (Page 166).

4. Connect the hoses:

   4.1. Make sure that the hose is not twisted. Pressure applied to a twisted hose can cause the hose to fail or the connections to loosen.

Figure 87.

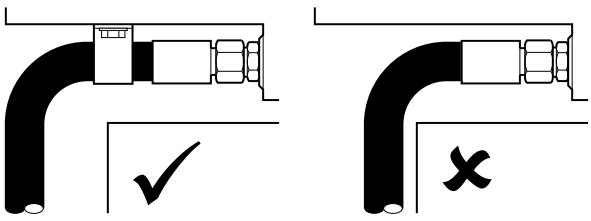


   4.2. Make sure that the hose does not touch hot parts. High ambient temperatures can cause the hose to fail.

   4.3. Make sure that the hose does not touch parts which can rub or cause abrasion.

   4.4. Use the hose clamps (where possible) to support long hose runs and keep the hoses away from moving parts, etc.

Figure 88.



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4.3. Connect the other end of this cable to the negative (-) terminal on the booster supply.

5. Do the pre-start checks.
6. Start the engine.
7. Disconnect the booster cables:
   7.1. Disconnect the negative booster cable from the machine frame earth. Then disconnect if from the booster supply.
   7.2. Disconnect the positive booster cable from the positive (+) terminal on the battery. Then disconnect it from the booster supply.

Retrieval

⚠ **Notice:** It is not recommended to tow a disabled machine. Permanent damage to the track motors of the disabled machine may occur if the machine is towed.

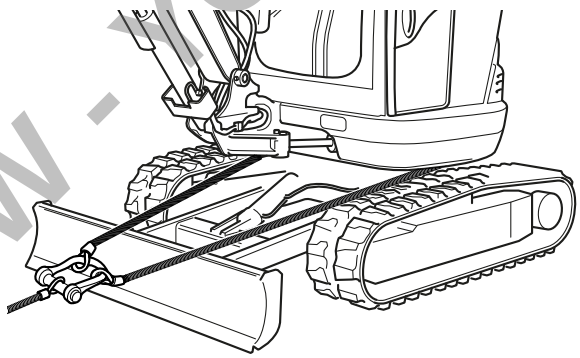
In the event that towing the machine to a safe location is unavoidable then attach wire rope or chain capable of pulling the machine around the slew ring as shown. Refer to Figure 78.

Notice: *Do not use the tow eye or tie down points (if installed) to tow the machine, as this will cause damage to the machine.*

Apply the minimum force to move the machine slowly (not greater than 2km/h (1.2mph) smoothly and without shocks).

Tow the machine the minimum distance to a safe location for recovery by lifting (not to exceed 20m). Following this procedure the machine must be inspected by a qualified person for damage to the track motors.

Figure 78.



Excavator Arm (Emergency Operation)

The excavator has an accumulator installed. The accumulator stores a limited amount of hydraulic pressure for use in an emergency (engine failure for example). This hydraulic pressure must be used to move the dipper and lower the boom into a safe position.

Do not try to operate other machine functions as this will deplete the hydraulic pressure in the accumulator and it may then not be possible to move the dipper and lower the boom.

If an emergency occurs:

1. Turn the ignition key to the on position.
2. Enable the controls.

Refer to: Operation > Safety Equipment > Control Lock (Page 55).

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Transporting the Machine

General

⚠ **WARNING** The safe transit of the load is the responsibility of the transport contractor and driver. Any machine, attachments or parts that may move during transit must be adequately secured.

WARNING Make sure that the ramp incline does not exceed the machine's operational limits.

CAUTION Before moving the machine onto the trailer, make sure that the trailer and ramp are free from oil, grease and ice. Remove oil, grease and ice from the machine tracks. Make sure the machine will not foul on the ramp angle.

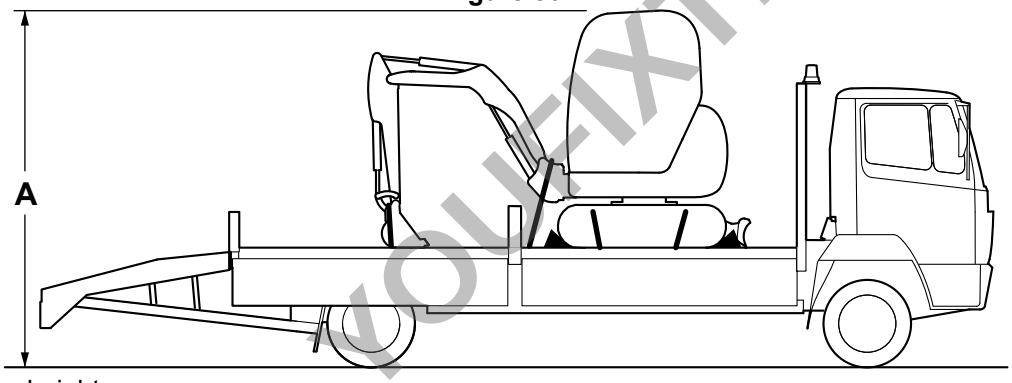
Before transporting the machine make sure you will be obeying the local rules and laws regarding machine transportation of all the areas that the machine will be carried through.

Check the condition of the transporting vehicle before loading the machine on to its trailer.

Check the Condition of the Transporting Vehicle

1. Make sure that the transporting vehicle is suitable for the dimensions and weight of your machine. Measure the clearance height. Make sure that the truck driver knows the clearance height before he drives away.

Figure 80.



A Clearance height

2. Remove all loose dirt that may otherwise come off and obstruct the highway and damage other vehicles.
3. Check the operation of the park brake.
4. Check the trailer bodywork for signs of damage.
5. Check the tyre pressures are correct (consult the manufacturer's manual).
6. Check the trailer lights are working and are the correct voltage for the towing vehicle (consult the manufacturer's manual).
7. Check the breakaway cable is serviceable.

Loading the Machine onto the Transporting Vehicle/Trailer

⚠ **CAUTION** The machine must be securely tied down to the transport vehicle to prevent lateral movement, fore-and-aft movement, and slewing of the superstructure. Failure to do so could cause injury to yourself or others.

1. Position the transporting vehicle on solid, level ground.
2. Apply the park brakes and lower any stability jacks.
3. Attach the loading ramps on to the transporter correctly.
4. Align the machine with the loading ramps, position the dozer blade to the front and fully raised.

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Maintenance Schedules

General

⚠ **WARNING** Maintenance must be done only by suitably qualified and competent persons.

Before doing any maintenance make sure the machine is safe, it must be correctly parked on solid, level ground.

To prevent anyone starting the engine, remove the ignition key. Disconnect the battery when you are not using electrical power. If you do not take these precautions you could be killed or injured.

A badly maintained machine is a danger to the operator and the people working around the operator. Make sure that the regular maintenance and lubrication tasks listed in the service schedules are done to keep the machine in a safe and efficient working condition.

Apart from the daily tasks, the schedules are based on the machine running hours. Keep a regular check on the hourmeter readings to correctly gauge the service intervals. When there is no hourmeter installed, use the calendar equivalents to determine the service intervals.

Do not use a machine which is due for a service. Make sure any defects found during the regular maintenance checks are corrected immediately.

More frequent checks of engine components than the engine manufacturer recommends do not invalidate emissions warranty.

How to Use the Maintenance Schedules

The schedules show the service tasks which must be done and their intervals.

The services must be done at either the hourly interval or the calendar equivalent, whichever occurs first.

The intervals given in the schedules must not be exceeded. If the machine is operated under severe conditions (high temperature, dust, water, etc.) shorten the intervals.

Table 6.

O	Service task can be completed by a competent operator. Details of how to complete the service task are given in the Operator's Manual.
□	We recommend that a Service Engineer completes the service task. Details of how to complete the service task are given in the Service Manual.

Maintenance Intervals

Table 7.

Interval (h)	Calendar Equivalent
10	Daily
50	Weekly
500	Six months
1000	Yearly
2000	Two years

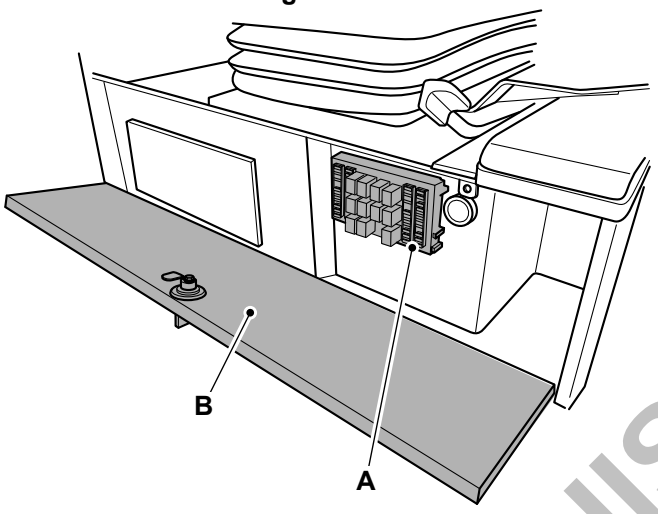
Pre-start Cold Checks, Service Points and Fluid Levels

Table 8.

Component	Task	10	50	500	1,000	2,000	5,000
Attachments/Optional Equipment							
As Required	Lubricate	O	O	□	□	□	□
As required	Check (condition)	O	O	□	□	□	□
Body and Framework							

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Figure 134.



A Secondary fuses **B** Panel

Relays

Replace

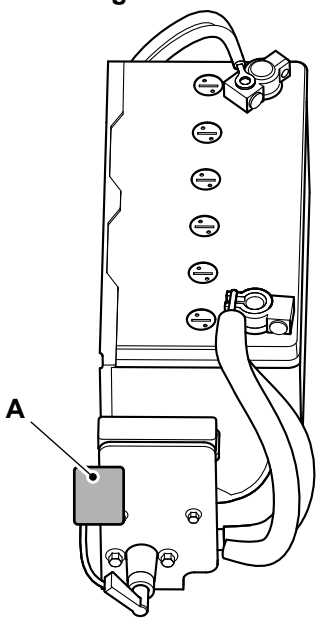
Refer to: Technical Data > Electrical System > Relays (Page 190).

1. Make the machine safe.

   Refer to: Maintenance > Maintenance Positions > Maintenance Position (Excavator Arm Lowered) (Page 140).

2. There are relays next to the battery in the hydraulic compartment. Refer to Figure 135.

Figure 135.



A Relays

3. There are relays behind a panel under the seat. Refer to Figure 136.

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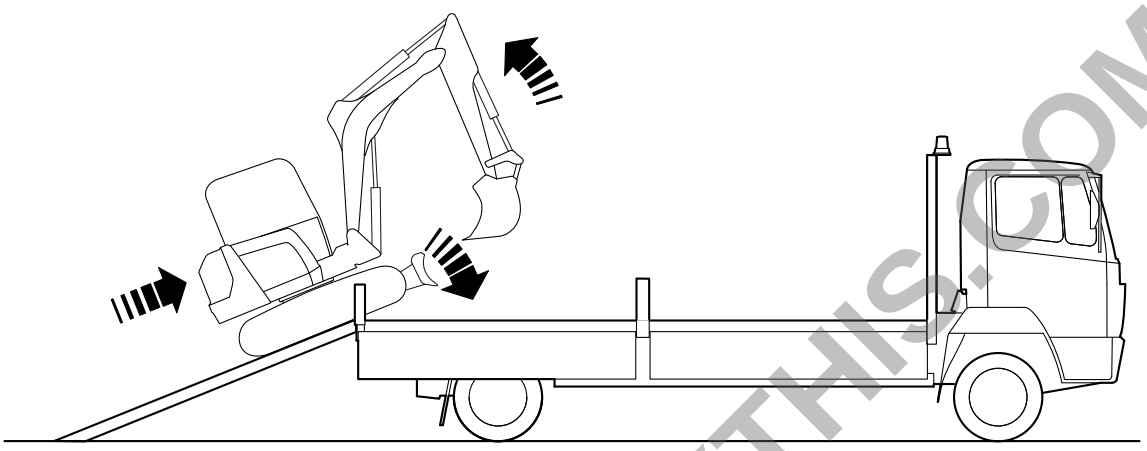
Notes:

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5. Slightly extend the boom and dipper for stability.
6. With the machine in low speed mode, track forward onto the ramp slowly and smoothly. Make sure the bucket will not contact the transporter ramps when loading the machine.

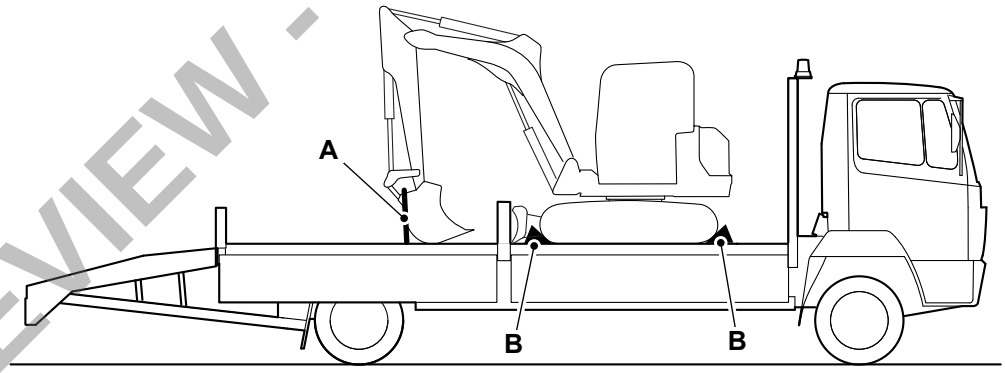
Figure 81.



7. Slowly drive the machine to the top of the ramps.
8. Lower the boom until the bucket contacts the transporter deck.
9. Slowly drive forward. As the tracks begin to clear the ramps, gently raise the boom allowing the machine to rock forward onto the transporter bed.
10. Slew the cab.

    Angle: 180°
11. Lower the bucket onto the transporter bed.

Figure 82.



A Securing strap (bucket) **B** Skids

12. Crowd the bucket. Position the dipper vertically and lower the boom until the bucket rests on a wooden block on the trailer bed.
13. Stop the engine.
14. Position a strap of suitable breaking strain over the bucket and secure to the trailer shackles.
15. Place skids under each track at the front and rear to prevent movement of the machine in the fore and aft direction.
16. Attach straps of suitable breaking strain to the tie down points. The tie down points are identified with a decal. Attach the straps to the trailer shackles to prevent lateral movement of the machine.

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