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A9	A10	B41	B42	B93	Blank	C49	C50
A11	A12	B43	B44			C51	C52
A13	A14	B45	B46	C1	C2	C53	C54
A15	A16	B47	B48	C3	C4	C55	Blank
A17	Blank	B49	B50	C5	C6		
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		B51	B52	C7	C8	D1	D2
B1	B2	B53	B54	C9	C10	D3	D4
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WARNING

Study this Handbook before starting the machine

You must understand and follow the instructions in this handbook. Abide by all relevant laws and regulations. If you are unsure about anything, ask your JCB dealer or employer. Do not guess, or you or others could be killed or seriously injured.

INT-1-1-1

The illustrations in this handbook are for guidance only. Where the machines differ, the text and/or illustration will specify.

The page numbers do not run concurrently in this publication, each section carries its own numbers which allows the inclusion of additional pages in later issues.

This handbook contains operating instructions and operator information for all machine range variants, some of the functions may not be available on your machine.

Introduction - Section A

About this handbook A1
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SAFETY - YOURS AND OTHER PEOPLES

All mechanical equipment can be hazardous. When a mini excavator is properly maintained and operated correctly, it is a safe machine to work with. But when it is poorly maintained or operated carelessly it can become a danger to the operator and everyone around.

In this handbook and on the machine you will find warning messages. Read them, understand them. They tell you of hazards and how to avoid them. If you do not understand the messages, ask your employer or local JCB Dealer.

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

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

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

If you are unsure of anything, about the machine or the job, ask someone who knows. Do not assume anything, check it.

Remember **BE CAREFUL**
BE ALERT
BE SAFE

Now read the rest of this section before moving on to the rest of the handbook.

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A3 INTRODUCTION A3

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INTRODUCTION

This chapter is arranged to guide you step-by-step through the task of learning how to use the machine. Read it through from beginning to end. By the end of the chapter you should have a good understanding of the machine and how to operate it.

Pay particular attention to all safety messages. They are there to warn you of possible hazards. Do not just read them-think about what they mean. Understand the hazards and how to avoid them.

If there is anything you do not understand, ask your JCB dealer, he will be pleased to advise you.

When you have learned where the driving controls are and what they do, practise using them. Practise driving the machine in a safe, open space clear of other people.

Get to know the "feel" of the machine and its driving controls.

Move on to the attachment controls only when you can drive the machine confidently and safely.

Take great care when practising with the attachment controls. Practise in an open space, keep people clear. Do not jerk the controls: operate them slowly until you understand the effect they have on the machine.

Finally, do not rush the job of learning. Take you time and take it safely.

Remember **BE CAREFUL**
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SAFE

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B1 OPERATION B1

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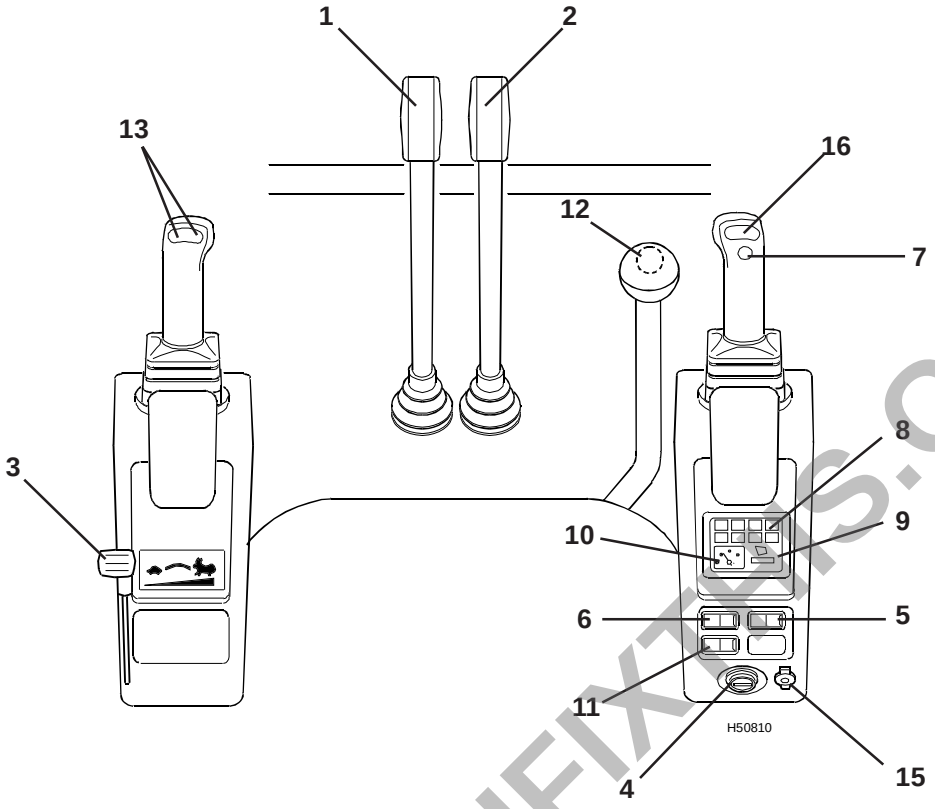
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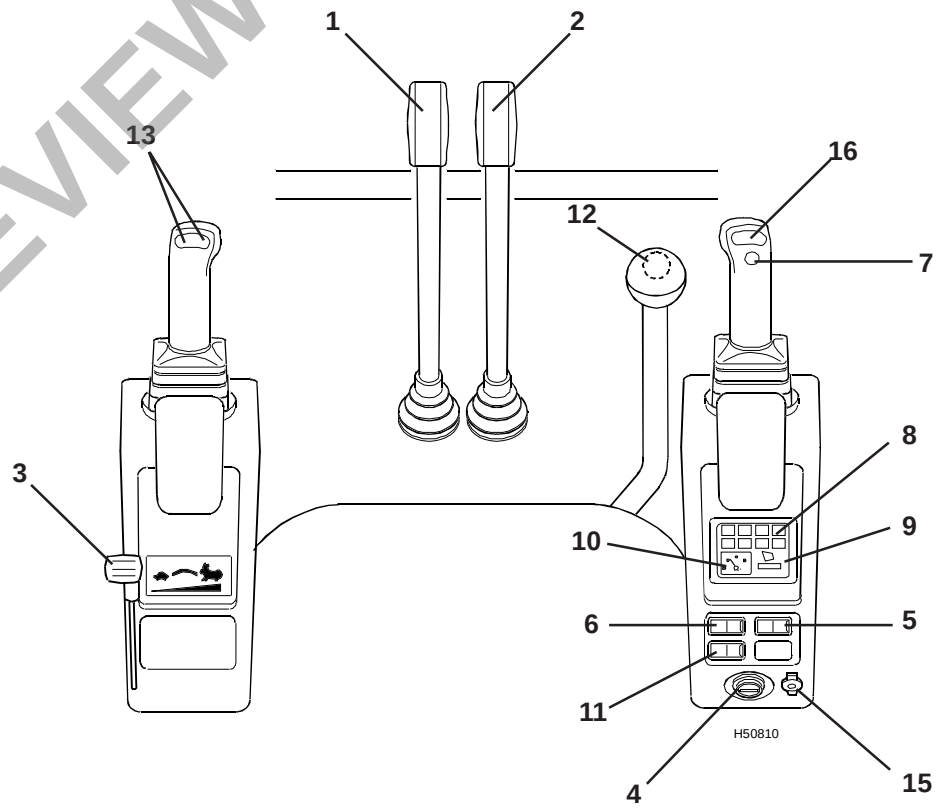
ENGINE AND TRACK CONTROLS, SWITCHES AND INSTRUMENTS



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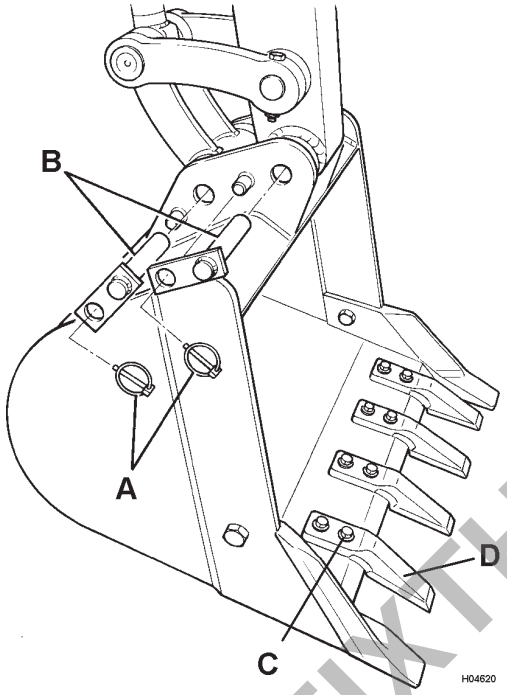
B14 OPERATION B14

ENGINE AND TRACK CONTROLS, SWITCHES AND INSTRUMENTS



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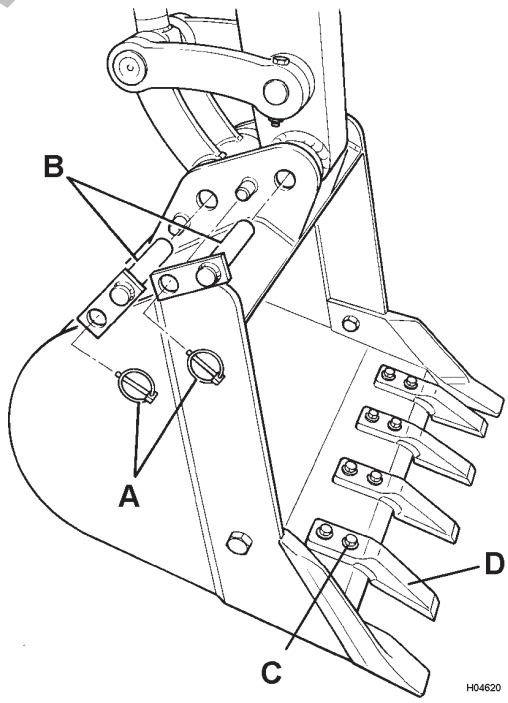
WORKING WITH THE EXCAVATOR



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B58 OPERATION B58

WORKING WITH THE EXCAVATOR



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TRANSPORTING THE MACHINE

Preparing for road travel

Before loading the machine on to its trailer (see transporting the machine), remove all loose dirt that may otherwise come off and obstruct the highway and damage other vehicles.

Note: *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.*

Make sure that the transporting vehicle is suitable. See Maintenance section for the dimensions and weight of your machine. There is a travel height label fitted to the cab.

Try to make sure that the truck driver knows the clearance height before he drives away. See section D for machine height figures.

Note: *The transport position height does not include the truck/trailer height, add the two figures together for the clearance height.*

CAUTION

Make sure that the two speed tracking selector is set to low speed before loading or unloading the machine.

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B88 OPERATION B88

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SERVICE SCHEDULES

Service Schedules

A badly maintained machine is a danger to the operator and the people working around him. Make sure that the regular maintenance and lubrication jobs listed in these Service Schedules are done to keep the machine working at its optimum efficiency.

Apart from the daily jobs, the schedules are based on machine running hours. Keep a regular check on the hourmeter readings to correctly gauge service intervals. Do not use a machine which is due for a service. Make sure any defects found during regular maintenance checks are rectified immediately.

WARNING

Maintenance must be done by suitably qualified personnel. Before attempting any maintenance work, make sure that the machine is safe. Park on a level site and lower the bucket and dozer to the ground.

Every 10 Operating hours (or daily)

whichever occurs first

Clean

1 Machine generally

Check and Adjust where necessary (engine stopped)

2 Generally for damage
3 Hydraulic fluid level
4 Engine oil level
5 Engine coolant level
6 Fuel system for leaks
7 Operation of horn and all electrical equipment
8 Track adjustment

Check and Adjust where necessary (engine running)

9 Exhaust (excessive smoke)
10 Dozer operation
11 Excavator operation
12 Track and running gear operation
13 Hourmeter operation

Grease

14 All pivot pins

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C6 MAINTENANCE C6

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NOISE AND VIBRATION DATA

Typical duties for machine: Tracking (Tarmac)
Tracking (Rough Terrain)
Excavating

	802.7 Super	803 Plus	803 Super	804 Super
Noise (Dynamic Noise Labels)				
1 Noise Level at Operators Ear				
Canopy	77 dB LpA	77 dB LpA	77 dB LpA	79 dB LpA
Cab	82 dB LpA	78 dB LpA	82 dB LpA	83 dB LpA
2 External Noise Level				
Canopy	96 dB LwA	96 dB LwA	96 dB LwA	97 dB LwA
Cab	96 dB LwA	96 dB LwA	96 dB LwA	97 dB LwA
Vibration				
3 Weighted rms acceleration				
Whole Body (m/s^2)	0.73 m/s^2	0.73 m/s^2	0.73 m/s^2	0.70 m/s^2
4 Weighted rms acceleration				
Hand/Arm (m/s^2) - Less than	> 2.5 m/s^2	> 2.5 m/s^2	> 2.5 m/s^2	> 2.5 m/s^2
Engine				
1 Max. Engine speed - Rates	2200 rev/min	2200 rev/min	2200 rev/min	2200 rev/min
2 Power Output	20.1kW (27hp) 2200 rev/min	20.1kW (27hp) 2200 rev/min	20.1kW (27hp) 2200 rev/min	20.1kW (27hp) 2200 rev/min

D1 SPECIFICATION D1

NOISE AND VIBRATION DATA

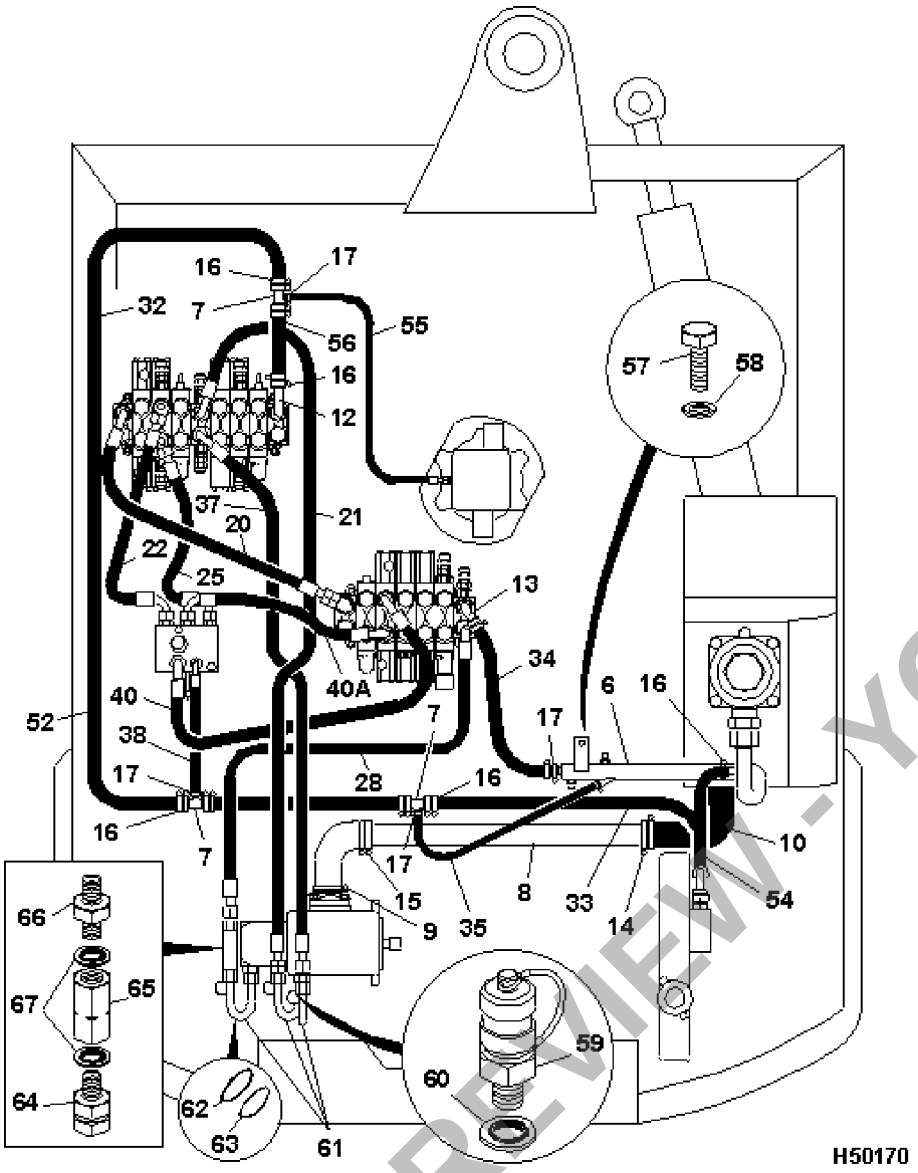
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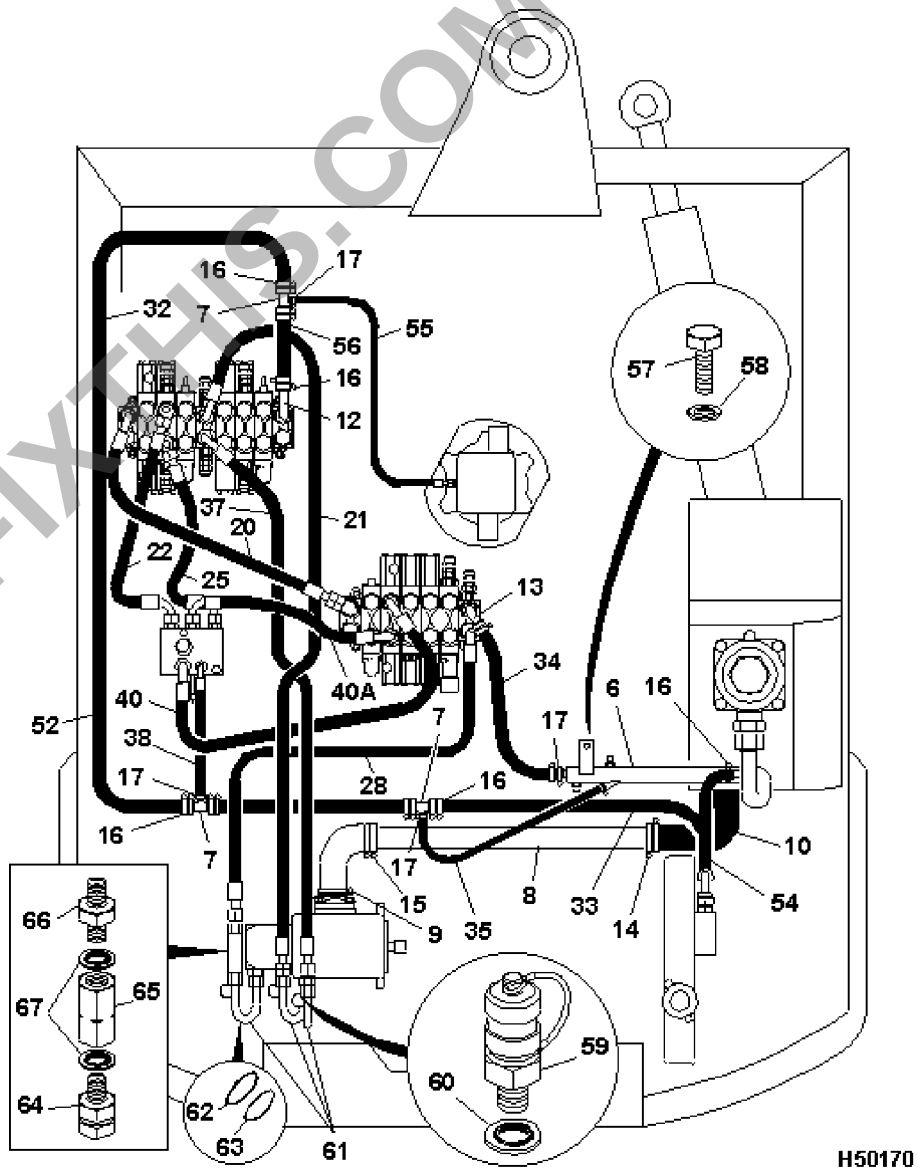
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E1-1-1 NEUTRAL CIRCUIT



E1-1-1 NEUTRAL CIRCUIT



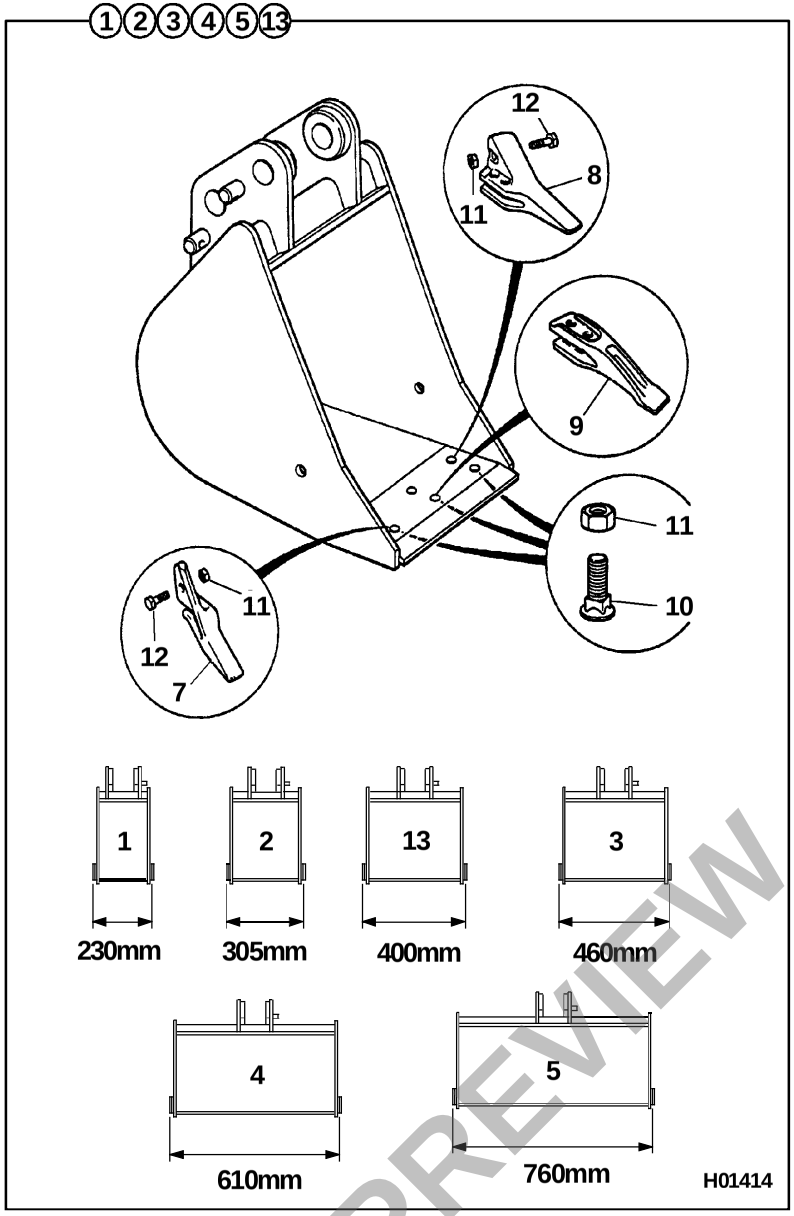
E1-1-1 NEUTRAL CIRCUIT

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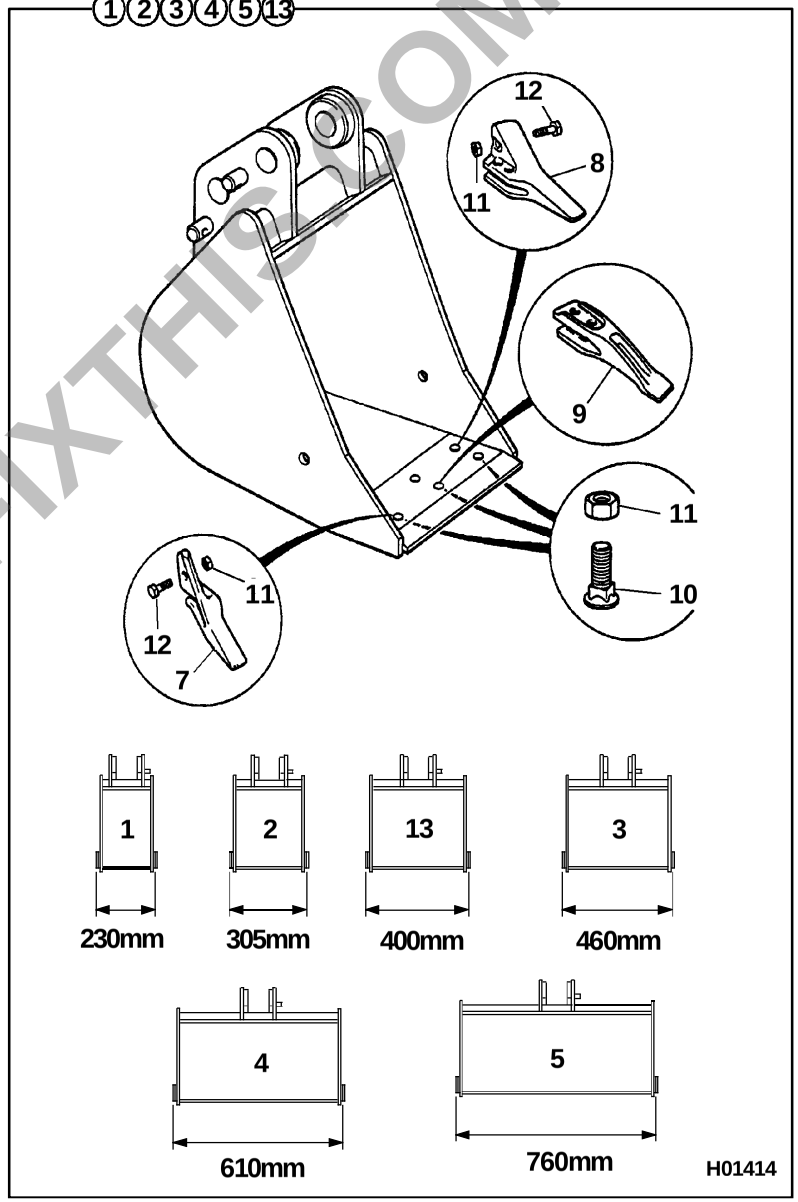
A2-1-1 GENERAL PURPOSE BUCKET

1 2 3 4 5 13



A2-1-1 GENERAL PURPOSE BUCKET

1 2 3 4 5 13



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A2-1-1 GENERAL PURPOSE BUCKET

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ENGINE AIR FILTER

Changing the outer element

1 Stop the engine and remove starter key.

2 Raise the engine cover.

3 To remove the outer element unscrew wing nut **A** and pull out the element **B**. Do not tap or knock the element as you remove it.

4 Clean the inside of canister **C** and dust valve **D**.

5 Prior to fitting new element, smear the seal **E** on the end of the element with grease. Temporarily insert the filter element into the canister ensuring its correct location. Withdraw the element and check that there is a continuous grease witness mark around the base of the canister. This shows that the canister has not been distorted which would allow unfiltered air to bypass the element. Refit the element and tighten the wing nut **A.** Check all air hoses for condition and security.

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C19 MAINTENANCE C19

ENGINE AIR FILTER

Changing the outer element

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