Dear JCB Customer

Even if you have operated this type of equipment before, it is very important that your new machines operations and functions are explained to you by a JCB Dealer Representative following delivery of your new machine.

Following the installation you will know how to gain maximum productivity and performance from your new product.

Please contact your local JCB dealer if the Installation Form has not yet been completed with you.

Your Local JCB Dealer is:

OPERATOR MANUAL

THIS MANUAL SHOULD ALWAYS STAY WITH THE MACHINE

JS AUTO RANGE - TRACKED EXCAVATORS - TIER 4
ISUZU ENGINE

ENGLISH - 9821/1800 - ISSUE 2 - AUGUST 12

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A4-6-Range - Printed In England

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Contents **Page No.**

Safety Notices
Important Information 1
The Operator Manual 1
Safety Warnings 1

Introduction
About this Manual 3
Machine Model and Serial Number 3
Using this Manual 3
Left Side, Right Side 4
Cross References 4
Machine Description 5
The JCB Tracked Excavator 5
Intended Use 5
Component Location 6
Safety Check List 8
Safety - Yours and Others 8
General Safety 8
Operating Safety 10
Maintenance Safety 13
Safety Labels 18
Introduction 18
Safety Label Identification 19
Identifying Your Machine 23
Machine Identification Plate 23
Component Identification Plates 24
Machine Security 27
Introduction 27
JCB Plantguard 27
Construction Equipment Security And Registration Scheme (CESAR) . 27
LiveLink 27
Immobiliser 27

Operation
Introduction 29
Before Entering the Cab 30
Entering and Leaving the Cab 31
Standard Cab Machines 31
Emergency Exit 32
Doors and Windows 33
Opening and Closing the Door 33
Opening and Closing the Front Upper Window 33
Opening and Closing The Front Lower Window 34
Door Sliding Window 35
Opening and Closing the Sunblind 35
Access to the Upper Structure 37
Standard Machines 37
Seat Controls 38
Introduction 38
Operators Seat/Console 38
Operators Seat - Standard/Heated 38
Air Suspension Seat 39
Seat Belts (if fitted) 40
Static Seat Belt 40

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Safety Notices

Important Information

T1-042

The Operator Manual

⚠ WARNING

You and others can be killed or seriously injured if you operate or maintain the machine without first studying the Operator Manual. You must understand and follow the instructions in the Operator Manual. If you do not understand anything, ask your employer or JCB dealer to explain it.

INT-1-4-2

Do not operate the machine without an Operator Manual, or if there is anything on the machine you do not understand.

Treat the Operator Manual as part of the machine. Keep it clean and in good condition. Replace the Operator Manual immediately if it is lost, damaged or becomes unreadable.

Safety Warnings



This safety alert system identifies important safety messages in this manual. When you see this symbol, be alert, your safety is involved, carefully read the message that follows, and inform other operators.

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

⚠ DANGER

Denotes an extreme hazard exists. If proper precautions are not taken, it is highly probable that the operator (or others) could be killed or seriously injured.

INT-1-2-1

⚠ WARNING

Denotes a hazard exists. If proper precautions are not taken, the operator (or others) could be killed or seriously injured.

INT-1-2-2

⚠ CAUTION

Denotes a reminder of safety practices. Failure to follow these safety practices could result in injury to the operator (or others) and possible damage to the machine.

INT-1-2-3

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Introduction

About this Manual

Machine Model and Serial Number

This manual provides information for the following model(s) in the JCB machine range:

- JCB JS240 - JS260 from serial number 2050000 to 2050249
- JCB JS330 from serial number 2050500 to 2050749
- JCB JS360 from serial number 2050750 to 2050999

Note: *The above machines are available in various configurations which are identified by a model number suffix, e.g. JS330LC. Where appropriate, specific information for these variants is given in this operator manual.*

Using this Manual

T1-044

This manual is arranged to give you a good understanding of the machine and its safe operation. It also contains maintenance information and specification data. Read this manual from front to back before using the machine for the first time. Particular attention must be given to all the safety aspects of operating and maintaining the machine.

If there is anything you are not sure about, ask your JCB distributor or employer. Do not guess, you or others could be killed or seriously injured.

General warnings in this chapter are repeated throughout the book, as well as specific warnings. Read all the safety statements regularly, so you do not forget them. Remember that the best operators are the safest operators.

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

This manual contains original instructions, verified by the manufacturer (or their authorised representative).

The manufacturer's policy is one of continuous improvement. The right to change the specification of the machine without notice is reserved. No responsibility will be accepted for discrepancies which may occur between specifications of the machine and the descriptions contained in this publication.

All optional equipment included in this manual may not be available in all territories.

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Operation

Introduction

T2-006_2

The aim of this part of the manual is to guide the operator step-by-step through the task of learning how to operate the machine efficiently and safely. Read the ***Operation*** section through from beginning to end.

Before you start the machine, you must know how the machine operates. Use your manual to identify each control lever, switch, gauge, button and pedal. Do not guess. If there is anything you do not understand, ask your JCB distributor.

The operator must always be aware of events happening in or around the machine. Safety must always be the most important factor when you operate the machine.

When you understand the operating controls, gauges and switches, practice using them. Drive the machine in an open space, clear of people. Get to know the 'feel' of the machine and its driving controls.

Finally, do not rush the job of learning, make sure you fully understand everything in the ***Operation*** section. Take your time and work efficiently and safely.

Remember

BE CAREFUL
BE ALERT
BE SAFE

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Cab Layout

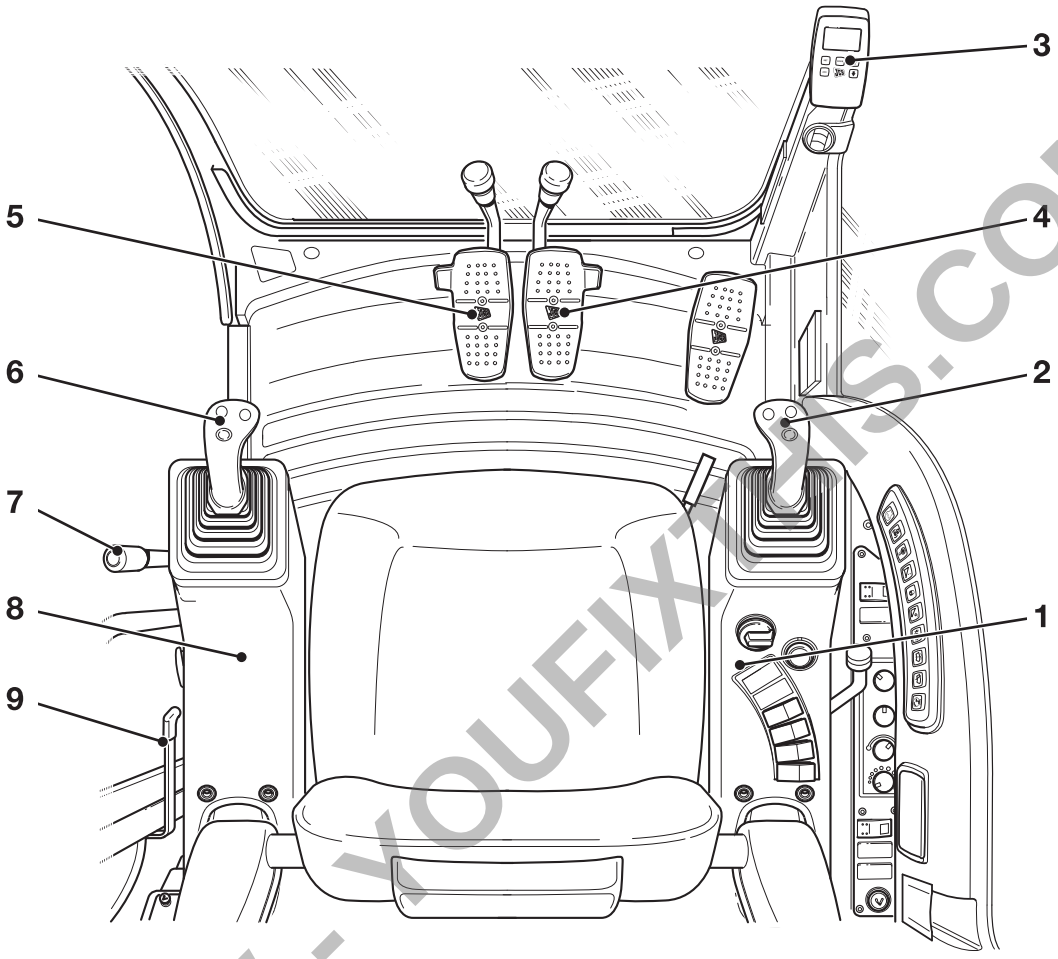


Fig 22.

Components Key

1 Right Console ⇒ *Right Console (49)*

2 Right Excavator Joystick Control ⇒ *Excavating (66)*

3 Display Monitor (adjustable view) ⇒ *Monitor Panel (55)*

4 Right Hand Track Control, see ⇒ *Track Controls (47)*

5 Left Hand Track Control ⇒ *Track Controls (47)*

6 Left Excavator Joystick Control ⇒ *Excavating (66)*

7 Control Lock Lever ⇒ *Control Locks (75)*

8 Left Console ⇒ *Left Console (48)*

9 Door Lock Release Lever ⇒ *Opening and Closing the Door (33)*

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Table 23. Exhaust gas from engine is white or blue

Cause	Remedy
Excessive oil consumption	Disassemble and repair, replace parts(1)
Excessively low oil viscosity	Replace with correct oil
Excessive cooling by radiator	Adjust
Improper fuel injection timing	Adjust or replace if necessary(1)
Low compression	Disassemble and repair, replace parts(1)

Table 24. Exhaust gas from engine is black or dark grey

Cause	Remedy
Improper fuel	Replace with correct fuel
Improper valve clearance	Adjust
Defective fuel injection pump	Adjust or replace if necessary(1)
Low compression	Disassemble and repair, replace parts(1)
Insufficient air intake (air cleaner clogged)	Clean or replace the element

Table 25. Excessive fuel consumption

Cause	Remedy
Defective fuel injection pump	Replace(1)
Improper spray from fuel injection nozzle	Replace(1)
Improper fuel injection timing	Adjust or replace if necessary(1)
Improper fuel	Replace with correct fuel
Low compression	Disassemble and repair, replace parts(1)
Insufficient air intake	Clean or replace element

Table 26. Excessive engine oil consumption

Cause	Remedy
Excessive oil	Drain oil to proper level
Low oil viscosity	Replace with oil of viscosity matching temperature
Oil leakage	Re-tighten and replace parts if necessary
Worn cylinder piston rings	Disassemble and repair, replace parts(1)

Table 27. Abnormal noise (fuel or mechanical)

Cause	Remedy
Bad fuel	Replace
Damage inside muffler	Replace

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If the machine must travel over such obstacles drive the centre of the shoes over the obstacles. ⇒ *Fig 113. (108)*.

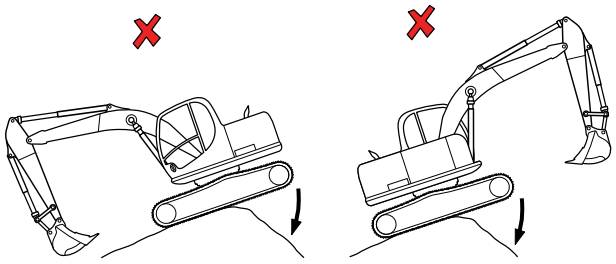


Fig 114.

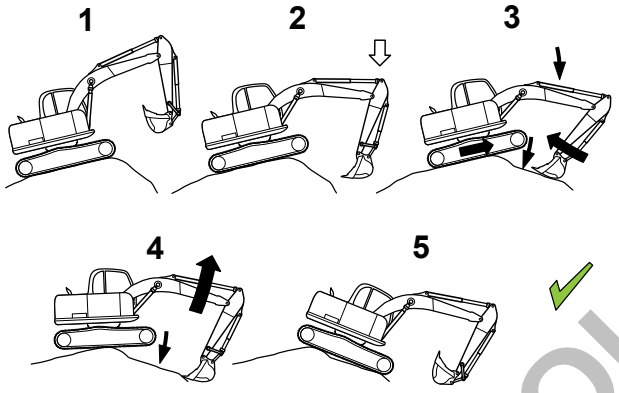


Fig 115.

When travelling over a mound always support the chassis with the dig end to prevent shock loads. ⇒ *Fig 114. (108)*, ⇒ *Fig 115. (108)*.

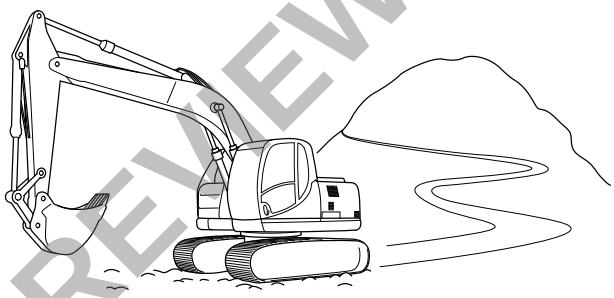


Fig 116.

If the machine travels for long distances heat is generated in the undercarriage which causes increased wear. Stop the machine to cool when possible. ⇒ *Fig 116. (108)*.

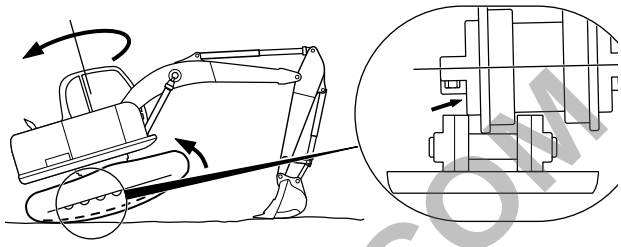


Fig 117.

When the track comes off the ground, the track will slacken. When slewing if the track is too slack the track roller can ride up on the link. ⇒ *Fig 117. (108)*. Always maintain the correct track tension. ⇒ *Checking/Adjusting the Track Tension (198)*.

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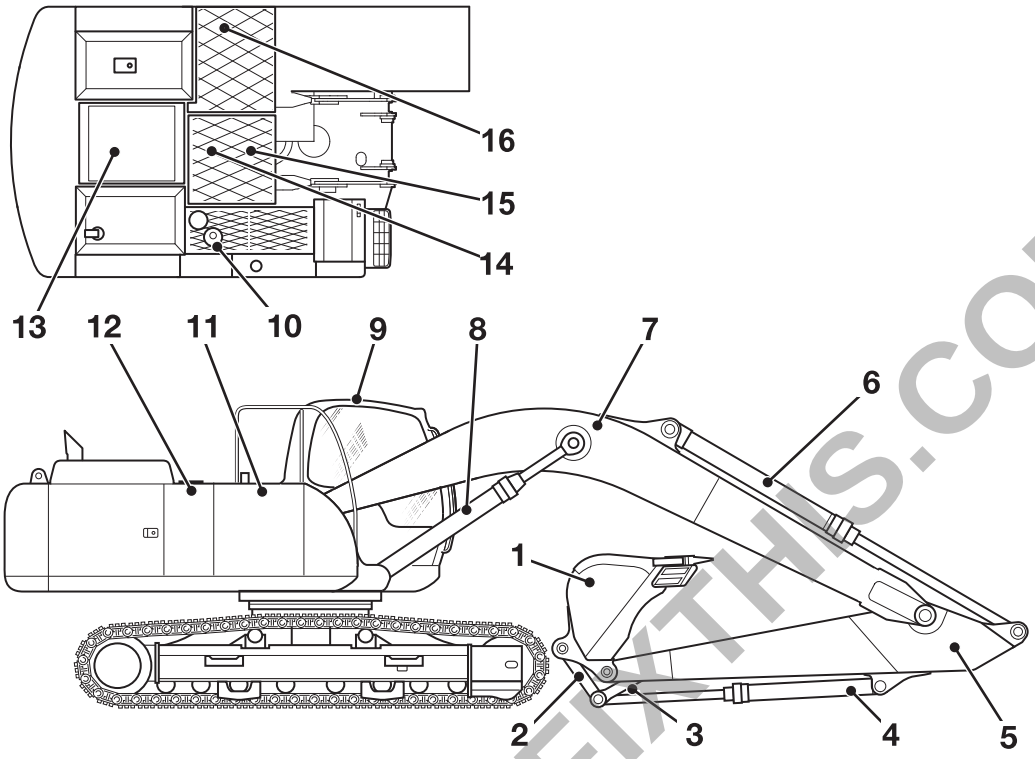


Fig 2.

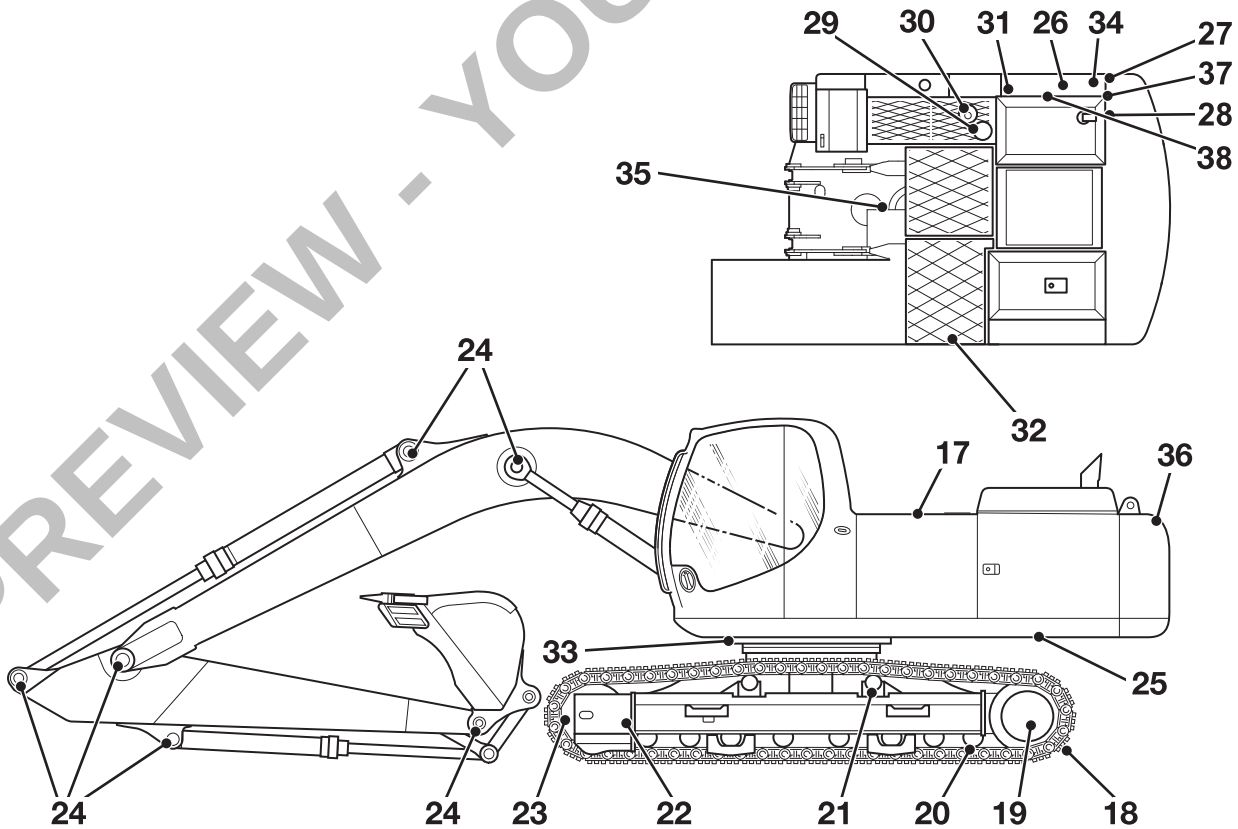


Fig 3.

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Pre Start Cold Checks, Service Points and Fluid Levels

	Operation	10	50	250	500	1000	2000	4000	5000
ENGINE									
Oil level	- Check	☐	☐	☐	☐	☐	☐	☐	☐
Oil and Filter(1)	- Change				☐	☐	☐	☐	☐
Pre Cleaner (if fitted)	- Clean			☐	☐	☐	☐	☐	☐
Air Cleaner Outer Element	- Change					☐	☐	☐	☐
Air Cleaner Inner Element	- Change						☐	☐	
Air Cleaner Dust Valve	- Check and Clean			☐	☐	☐	☐	☐	☐
Fuel Level	- Check	☐	☐	☐	☐	☐	☐	☐	☐
Fuel Tank - Water and Sediment	- Drain		☐	☐	☐	☐	☐	☐	☐
Coolant Quality/Level	- Check	☐	☐	☐	☐	☐	☐	☐	☐
Coolant	- Change							☐	
Fuel Pump Filter Element	- Change				☐	☐	☐	☐	☐
Primary Fuel Filter/Sedimenter	- Drain and Clean		☐	☐	☐	☐	☐	☐	☐
Primary Fuel Filter/Sedimenter-filter	- Change				☐	☐	☐	☐	☐
Main Fuel Filter/Sedimenter	- Drain and Clean		☐	☐	☐	☐	☐	☐	☐
Main Fuel Filter/Sedimenter-filter	- Change				☐	☐	☐	☐	☐
Fuel Filler Cap	- Check and Clean			☐	☐	☐	☐	☐	☐
Fuel Filler Cap (Dusty conditions)	- Check and Clean		☐	☐	☐	☐	☐	☐	☐
Fan Belt Tension/Condition	- Check			☐	☐	☐	☐	☐	☐
Valve Clearances	- Check and Adjust					☐	☐	☐	☐
Engine Mounting Bolts for Tightness	- Check				☐	☐	☐	☐	☐
Exhaust System Security	- Check				☐	☐	☐	☐	☐
Air Inlet System Security	- Check			☐	☐	☐	☐	☐	☐
Radiator	- Clean and Check			☐	☐	☐	☐	☐	☐
Diesel Particulate Filter(2)	- Clean and Check							☐	

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4 Lower the Track.

Remove the blocks from beneath the undercarriage and lower the track to the ground using the boom and dipper controls.

5 Repeat for the Opposite Track.

Slew the boom round to the other side and repeat steps **1** to **4** above.

Checking Rollers and Idler Wheels for Oil Leaks

1 Prepare the Machine. ⇨ ***Prepare the Machine for Maintenance (147)***.

Carry out steps **1** to **3** of ***Cleaning the Tracks***. Block up the undercarriage frame.

⚠ WARNING

Raised Machine

NEVER position yourself or any part of your body under a raised machine which is not properly supported. If the machine moves unexpectedly you could become trapped and suffer serious injury or be killed.

INT-3-3-7_1

2 Look for Oil Leaks.

Check the top and bottom rollers and the idler wheels for oil leaks. If leaks are found contact your JCB distributor for service.

⚠ CAUTION

Do not run the machine if you discover oil leaks in the top or bottom rollers or idler wheels. Failure to rectify such leaks could cause damage to the machine.

8-3-4-6

3 Lower the Track.

Remove the blocks from beneath the undercarriage and lower the track to the ground using the boom and dipper controls.

4 Repeat for the Opposite Track.

Slew the boom to the other side and repeat steps 1 to 3 above.

Track Plate Inspection

1 Prepare the machine. ⇨ ***Prepare the Machine for Maintenance (147)***.

Note: *If a shoe bolt is used when it is loose, it may be broken. Immediately tighten the shoe bolts whenever they are found to be loose.*

2 Check and Tighten.

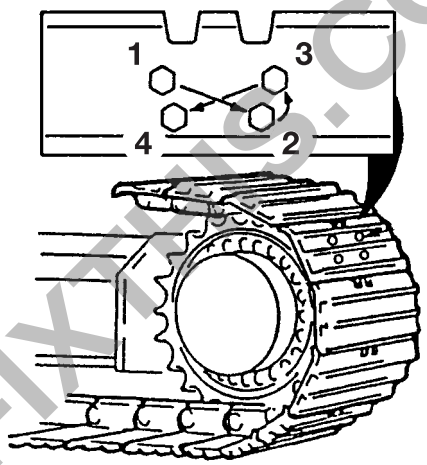


Fig 62.

Torque tighten the bolts in the sequence shown and check that the nuts and shoe are closely fitted to the link joining surface. ⇨ ***Bolt and Nut Torque Specifications (165)***.

3 Repeat the Procedure.

a Start the engine and move the machine forwards or backward. Stop the engine.

b Repeat the above procedure until the whole track is tightened.

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Air Bleeding from Rams

If air is not bled from the rams when replaced or repaired, the piston and/or seals may be damaged.

1 Prepare the machine. Idle the engine at low speed and extend and retract each ram 5 times, stopping the ram 100 mm before the end of each stroke.

2 Bleeding. Operate each ram 4 times for the full stroke to completely bleed the air.

Air Bleeding from the Slew Motor

If air is not completely bled from the slew motor the motor bearing or other parts may be damaged.

1 Prepare the machine. ⇒ *Prepare the Machine for Maintenance (147)*.

2 Locate the slew motor, ⇒ *Machine Description (5)*.

3 Checking oil procedure.

- **a** Loosen the air bleeding plug **B** and check that oil seeps out from the air bleeding port.
- **b** If no oil comes out, remove the air bleeding plug **B**, and fill the motor case with Hydraulic Oil.
- **c** Tighten the air bleeding plug **B**.

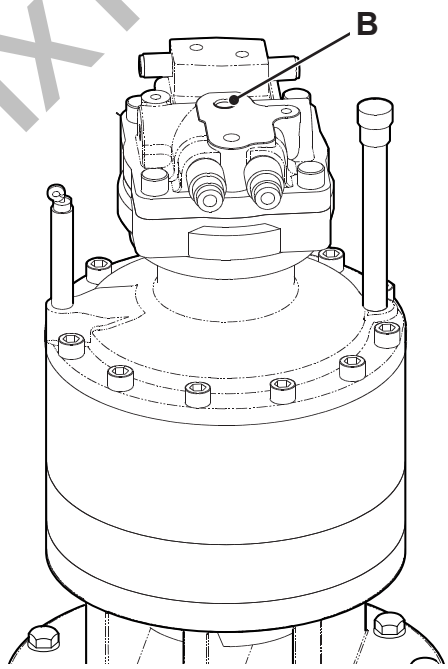


Fig 59.

4 Sealing the system. Idle the engine at low speed and slowly slew the machine left to right evenly, two times.

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