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

8250 FROM SERIAL NUMBER 1139000

ENGLISH - 9811/1701 - ISSUE 7 - JAN 2010

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A4-3-Fastrac - Printed In England

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Contents **Page No.**

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

Introduction
About this Manual 1
Machine Model and Serial Number 1
Using this Manual 1
Units of Measurement 1
Left Side, Right Side 1
Using the Machine 1
Cross References 1
Machine Description 2
The JCB Fastrac 2
Intended Use 2
Component Locations 2
Safety Check List 4
Safety - Yours and Others 4
General Safety 4
Operating Safety 6
Maintenance Safety 12
Safety Labels 18
Introduction 18
Safety Label Identification 19
Identifying your Machine 22
Machine Identification Plate 22
ROPS and FOPS Certification Labels 25

Operation
Introduction 27
Before Entering the Cab 28
Entering and Leaving the Cab - Door and Windows 30
Emergency Exit 31
Opening and Closing the Door 31
Opening and Closing the Rear Window 32
Visibility Aids 33
Mirrors 33
Cab Layout 34
Seat Controls 36
Standard Suspension Seat 36
Heated Seat (Optional) 38
Passenger's Seat 39
Seat Belts 40
Introduction 40
To Fasten the Seat Belt 40
Check the Seat Belt is Operating Correctly 40
To Release the Seat Belt 41

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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, carefuly 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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Machine Description

The JCB Fastrac

P10-1002

A self-propelled wheeled machine, the main function of which lies in its tractive power and the ability to pull, push, carry and actuate interchangeable equipment. It is able to tow trailers or machinery and can be adapted to carry a load.

The JCB Fastrac is designed for safe circulation on public roads. It is equipped with suspension and disc brakes on each wheel.

For convenience, a second seat is installed for the occasional passenger or for an experienced operator to give a novice driver instruction.

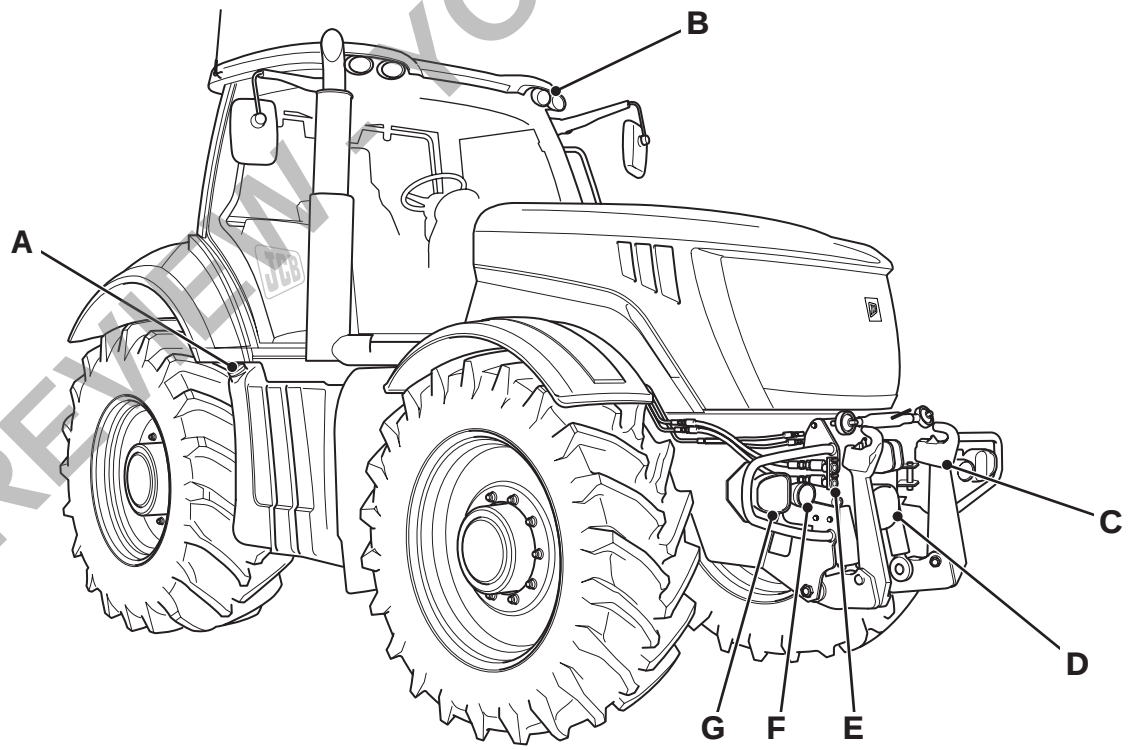
The JCB Fastrac has been designed with operator safety in mind, offering protection in the event of roll-over; isolation from vibration on rough terrain and cab acclimatisation and filtration to provide a comfortable operating environment.

Intended Use

The machine is intended to be used under normal conditions for the applications described in this manual. If the machine is used for other purposes or in dangerous environments, for example in a flammable atmosphere or in areas with dust containing asbestos, special safety regulations must be followed and the machine must be equipped for use in these environments.

Component Locations

A	Fuel tank
B	Front work lights (upper)
C	Front 3-point linkage
D	Front power take-off
E	Front Quick-release Couplings
F	Front work lights (lower)
G	Headlights
H	Rear work Lights
J	Rear power take-off
K	Rear 3-point linkage



C068490-B2

Fig 2.

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Operation

Introduction

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.

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

Before starting the machine, sit in the driver's seat and familiarise yourself with the layout of the cab. 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. 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 and any obstructions. Get to know the 'feel' of the machine and its controls. Attach implements only when you have learned to drive the machine confidently and safely. When travelling on the road for the first time, do not attach implements. First get to know the 'high speed feel' of the steering and brakes.

Your Fastrac is equipped with an Anti-lock Braking System (ABS). Take time to become familiar with the feel of the machine before commencing work, even if you have had experience of ABS on a different vehicle. ⇨ ***Anti-lock Braking System (ABS) (🗋 80)***.

The operator must always be aware of events happening outside the cab as well as inside the cab. Safety must always be the most important feature when operating the JCB. 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

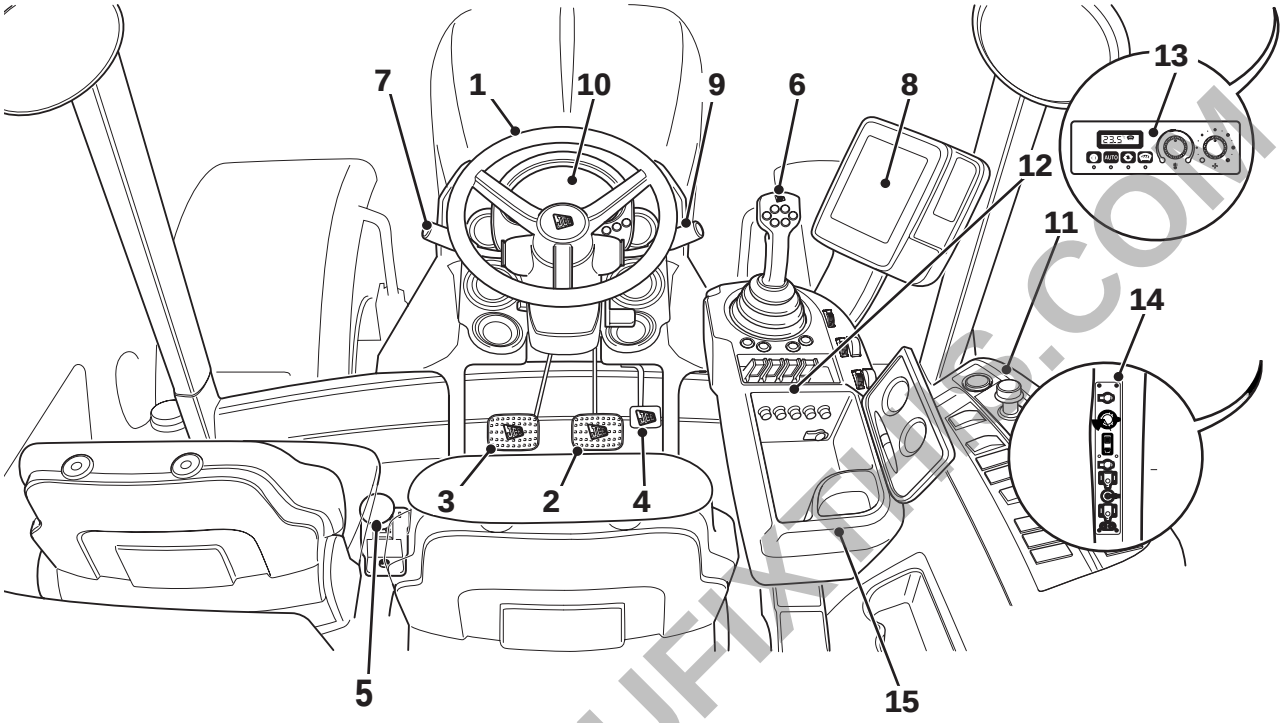
BE ALERT

BE SAFE

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Cab Layout



T015980-B1

Fig 21.

1 Steering Wheel

2 Brake Pedal

Push down on the brake pedal to slow or stop the machine. The stop lights should operate when the brake pedal is applied. Do not operate the machine unless the stop lights work correctly.

3 Clutch Pedal

Note: *Do not rest your foot on either the clutch or brake pedal unless you are using these controls. Otherwise increased component wear may result.*

4 Accelerator Pedal

Gently depress the pedal to increase engine speed. Release to reduce the speed.

5 Park Brake Lever

Use this lever to engage the park brake before leaving the machine. With the park brake engaged, an indicator on the instrument panel will light.

A three-position lever is fitted. To engage, ⇨ *Parking the Machine (81)*. To release, ⇨ *Getting the Machine Moving (63)*.

⚠ DANGER

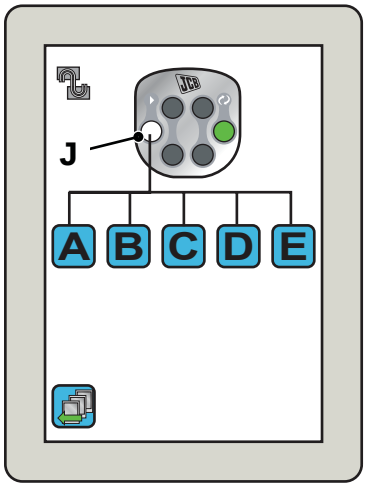
Leaving the machine in gear will not prevent it running away. Do not leave the driving seat under any circumstances unless the park brake is on.

13-2-1-10

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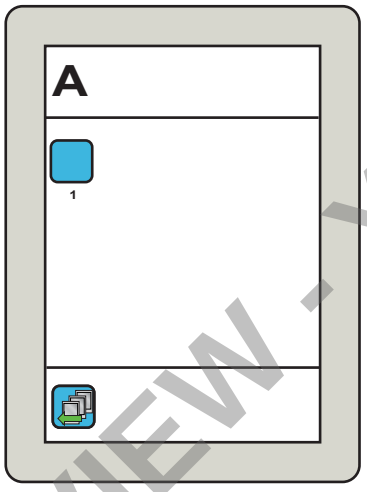
To Program an Example Sequence A



C070670

Fig 175.

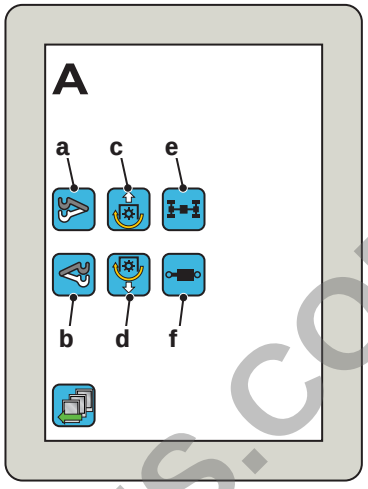
1 Press button **A**. ⇒ *Fig 175. (155)* The following screen will appear. ⇒ *Fig 176. (155)*



C070680

Fig 176.

2 This screen shows a blank square **1** for the first function of sequence **A**. Press the blank square and the Implement Menu will show the implements that you can select for the first function.⇒ *Fig 177. (155)*



C070690

Fig 177. Implement Menu

3 On this screen, press the relevant button to select one of the implements on the display

When you press a button on the implement menu the next screen will be a sub-menu to allow you to select one of the functions of that implement. ⇒ *Table 8. Implement Selection (156)*

Note: *These implement buttons are the same as those used to program the joystick buttons to control those implements and are used in the same way.* ⇒ *Fig 149. (140)*

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Pre-start Cold Checks, Service Points and Fluid Levels

	Operation	10 Hr	50 Hr	100 Hr(1)	500 Hr	1000 Hr	2000 Hr	4000 Hr	5000 Hr
ENGINE									
Oil level	- Check	☐	☐						
Oil and Filter (2)	- Change			☐	☐	☐	☐	☐	☐
Air Cleaner Outer Element(3)	- Change					☐	☐	☐	☐
Air Cleaner Inner Element	- Change						☐	☐	
Air Cleaner Hose and Clamp Security	- Check	☐	☐	☐	☐	☐	☐	☐	☐
Air Compressor Mountings(4)	- Check				☐	☐	☐	☐	☐
Air Compressor Discharge Lines(4)	- Check						☐	☐	
Fuel Filter	- Drain	☐	☐	☐					
Fuel Filter	- Change				☐	☐	☐	☐	☐
Coolant Level	- Check	☐	☐	☐	☐	☐			
Coolant Antifreeze and Coolant Additive Concentration(4)	- Check			☐	☐	☐	☐	☐	☐
Coolant	- Change						☐	☐	
Coolant Filter	- Change				☐	☐	☐	☐	☐
Fan Belt Condition	- Check	☐	☐	☐	☐	☐	☐	☐	☐
Fan Hub (4)	- Check					☐	☐	☐	☐
Fan Belt Tensioner (4)	- Check					☐	☐	☐	☐
Vibration Damper (4)	- Check						☐	☐	
Valve Clearances (4)	- Check and Adjust								☐
Crankcase Breather Tube	- Check	☐	☐	☐	☐	☐	☐	☐	☐
Air Conditioning Compressor Belt Tension and Condition	- Check		☐	☐	☐	☐	☐	☐	☐
Engine Mounting Bolts for Tightness(4)	- Check						☐	☐	
Fuel Injection Pump Mounting Bolts for Tightness(4)	- Check				☐	☐	☐	☐	☐
Radiator and Coolers	- Clean	☐	☐	☐	☐	☐	☐	☐	☐
Charge Air Cooler Hose and Clamp Security	- Check	☐	☐	☐	☐	☐	☐	☐	☐
Charge Air Cooler	- Check				☐	☐	☐	☐	☐
Turbocharger(4)	- Check					☐	☐	☐	☐

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Obtaining Replacement Parts

T3-096

If you use non-genuine JCB parts or consumables, then you can compromise the health and safety of the operator and cause machine failure

A Parts Book for your machine is available from your JCB Distributor. The Parts Book will help you identify parts and order them from your JCB distributor.

Your dealer will need to know the exact model, build and serial number of your machine. See ***Identifying Your Machine (Introduction section)***.

The data plate also shows the serial numbers of the engine, transmission and axle(s), where applicable. But remember if any of these units have been changed, the serial number on the data plate may be wrong. Check on the unit itself.

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Changing the Oil and Filter

1 Drain the oil when the engine is warm as contaminants held in suspension will then be drained with the oil. Park the machine on firm ground and turn the front wheels to full right hand lock.

⚠ WARNING

When gaining access for maintenance work, make sure no-one is in a position to be trapped by the wheels as the steering wheel is turned.

13-3-2-15

⚠ WARNING

Make the machine safe before getting beneath it. Park the machine on level ground and lower the attachments. Stop the engine and remove the starter key. Make sure the park brake is engaged. Disconnect the battery to prevent the engine being started. Block all four wheels before getting under the machine.

3-3-1-1

⚠ WARNING

Beware of the hot exhaust system even with the engine stopped.

ENG-4-3

⚠ CAUTION

Oil will gush from the hole when the drain plug is removed. Hot oil and engine components can burn you. Keep to one side when you remove the plug.

13-3-1-15

⚠ WARNING

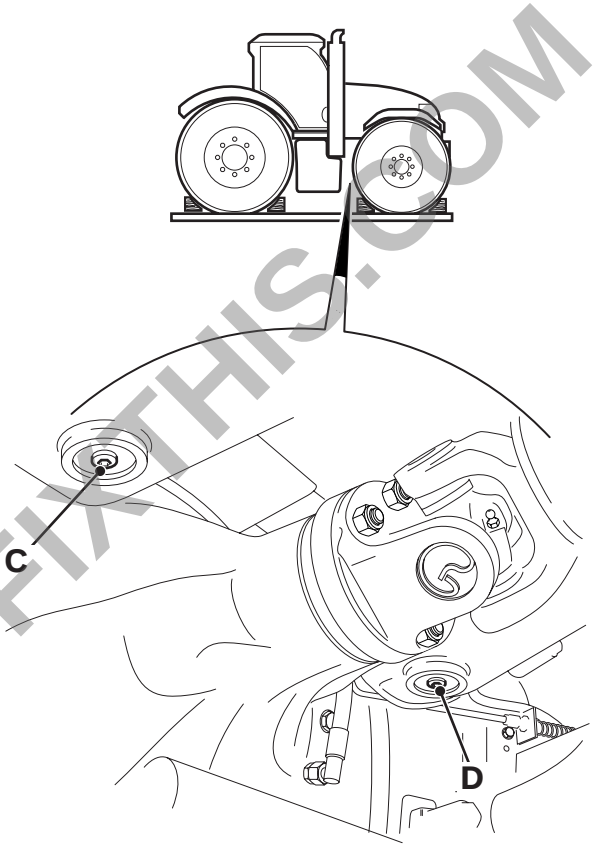
Oil

Oil is toxic. If you swallow any oil, do not induce vomiting, seek medical advice. Used engine oil contains harmful contaminants which can cause skin cancer. Do not handle used engine oil more than necessary. Always use barrier cream or wear gloves to prevent skin contact. Wash skin contaminated with oil thoroughly in warm soapy water. Do not use petrol, diesel fuel or paraffin to clean your skin.

INT-3-2-3

2 Stop the Engine. Disconnect the battery to prevent the engine being started. Block all four wheels before getting under the machine.

3 Place a container that can hold at least 30 litres beneath the engine to catch the oil.



C039960

Fig 244.

4 Remove both drain plugs **C** and **D** and the sealing washers. Make sure the sealing washers and mating surfaces are not damaged. Let the oil drain out, then clean and refit the drain plugs and the sealing washers.

5 Open the engine cover.

⚠ CAUTION

The oil filter canister will contain some oil which could spill out when you remove the canister.

MD-3-2-1

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Changing the Transmission Oil and Strainer

1 Prepare the Machine. Park the machine on firm, level ground.

⚠ WARNING

Make the machine safe before getting beneath it. Park the machine on level ground and lower the attachments. Stop the engine and remove the starter key. Make sure the park brake is engaged. Disconnect the battery to prevent the engine being started. Block all four wheels before getting under the machine.

3-3-1-1

2 Stop the Engine. Disconnect the battery to prevent the engine being started. Block all four wheels before getting under the machine.

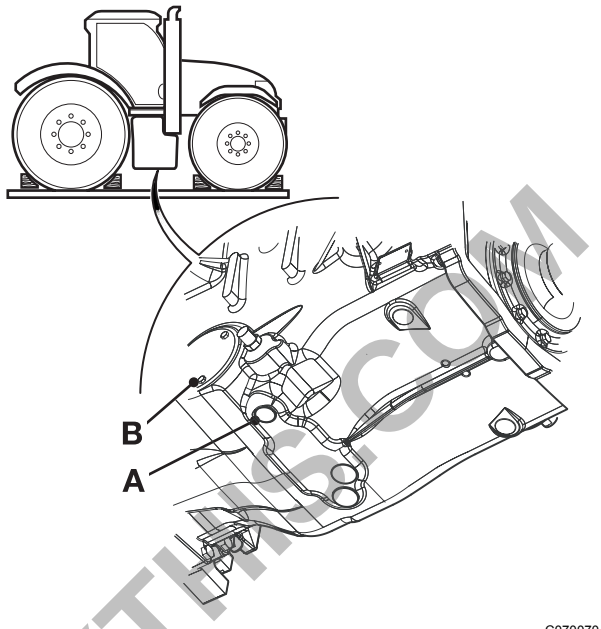
3 Place a container that can hold at least 75 litres (16.5 UK gal) beneath the transmission to catch the oil.

4 Remove drain plug **A** and the `O' ring. Make sure the `O' ring and mating surface are not damaged. Let the oil drain out, then clean and refit the drain plug and the `O' ring.

5 Remove screws **B** and cover plate **C**. Pull out the strainer **D**.

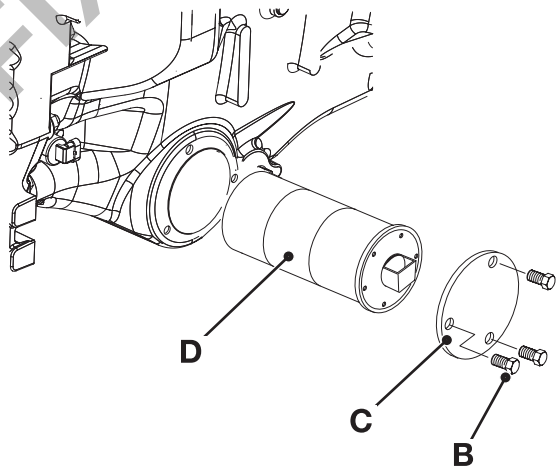
6 Fit a new strainer **D**. Refit cover **C** and its 'O' ring. Fit screws **B.**

7 Fill the transmission with the specified oil. ⇨ *Checking the Transmission Oil Level (🗋 254)*



C070070

Fig 262.



C017330

Fig 263.

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Table 12. Permitted Tyre Size Combinations

Front Tyre Size	Rear Tyre Size
540/65 R34	650/65 R38
540/65 R38	710/70 R38

Adjustable Track Width

Table 13. Track Widths

FRONT			REAR		
Tyre Size	Narrow Track mm (in)	Wide Track mm (in)	Tyre Size	Narrow Track mm (in)	Wide Track mm (in)
540/65 R34	1990 (78)	2256 (89)	650/65 R38(1)	1900 (75)	2076 (82)
540/65 R34	1990 (78)	2256 (89)	650/65 R38(2)	1776 (70)	2200 (87)
540/65 R38	1990 (78)	2256 (89)	710/70 R38	1834 (72)	2142 (84)

(1) 650/65 R38 tyres fitted to standard wheel rims part number 41/940240. The part number is stamped on the same side of the wheel as the tyre valve is fitted.
(2) 650/65 R38 tyres fitted to special wheel rims part number 41/940324. The part number is stamped on the same side of the wheel as the tyre valve is fitted.

To obtain an alternative track width, it is possible to move the wheels from one side of the machine to the other and reverse the wheels on the hubs. The dimensional change to the track width will vary according to the size of wheels and tyres fitted ⇨ *Table 13. Track Widths (265)*.

The 'V' of the tyre tread pattern must always point forward when at the top of the wheel. Tighten the wheel to axle hub nuts ⇨ *Wheel Nut Torques (266)*.

Note: *Changing to the wide track setting may result in an overall vehicle width that is greater than that allowed by your local legislation. Make sure you will be obeying all pertinent laws and regulations before using the machine on public roads.*

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