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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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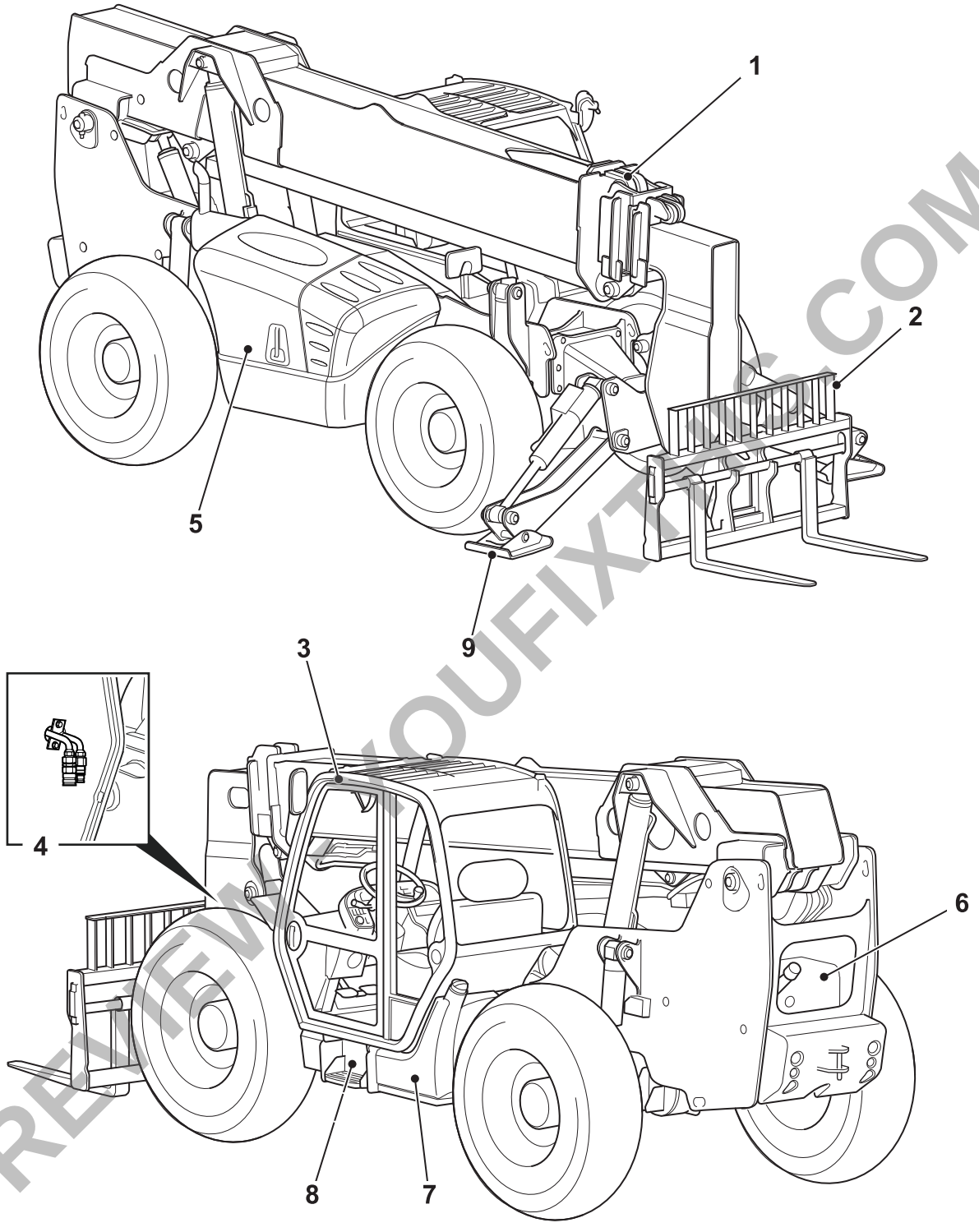


Fig 2.

⇨ *Component Location (2)*.

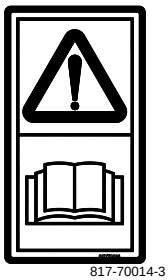
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Part Numbers and Descriptions

ISO-01A

Part Number: 332/G4040

Description: Warning. Read the operator manual before you operate the machine.


817-70014-3

ISO-02B

Part Number: 817/70010

Description: Crushing of whole body. Install the maintenance strut before you start maintenance work below a raised attachment. Refer to ***Making the Machine Safe (Routine Maintenance Section)***.


817-70010-2

ISO-03B

Part Number: 817/70024

Description: Warning. Do not use as a step.


817-70024-2

ISO-04A

Part Number: 817/70094

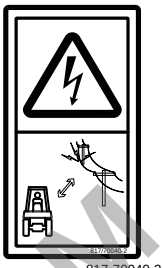
Description: Burns to fingers and hands. Stay a safe distance away.


817-70094-2

ISO-05B

Part Number: 332/G4040

Description: Electrical hazard. Keep a safe distance away from power lines.


817-70040-2

ISO-05C

Part Number: 817/70012

Description: Runover. Start the engine from the operator seat only. Do not short across the terminals.


817-70012-2

ISO-06B

Part Number: 332-F5860

Description: Pressure hazard. Refer to ***Cooling System (Routine Maintenance Section)***.


332-F5860-1

ISO-07C

Part Number: 817/70008

Description: Crushing of whole body. Keep a safe distance from the machine.


817-70008-2

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Lifting a Machine

Carry out the following procedure when lifting a machine:

1 Remove all attachments.

2 Make the machine safe with the boom lowered. Refer to ***How to Make the Machine Safe (Boom Lowered)***.

3 Remove all loose equipment from machine exterior.

4 Check the unladen weight of the machine. See ***Static Dimensions*** (SPECIFICATIONS section).

⚠ WARNING

Lifting Equipment

You can be injured if you use faulty lifting equipment. Make sure that lifting equipment is in good condition. Make sure that lifting tackle complies with all local regulations and is suitable for the job. Make sure that lifting equipment is strong enough for the job.

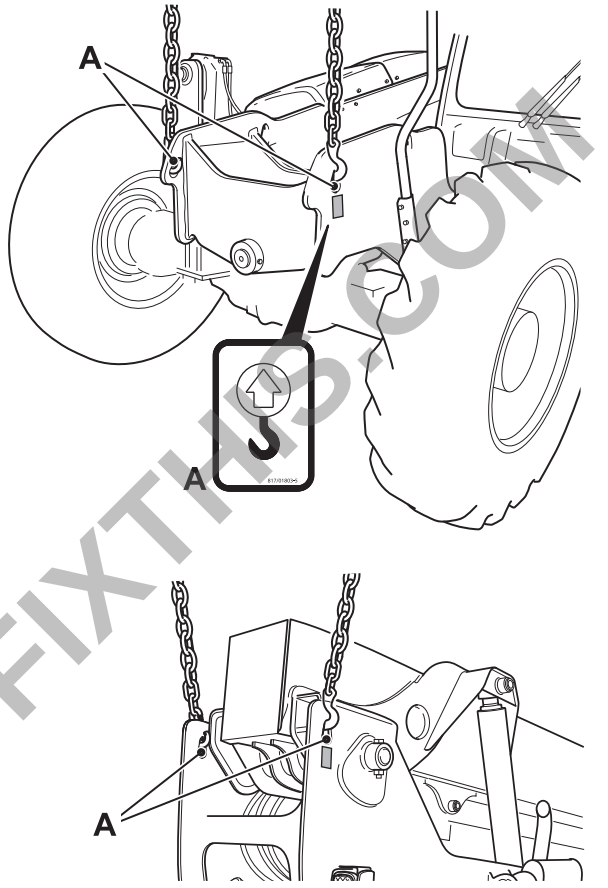
INT-1-3-7

5 Attach lifting equipment to lifting points as shown.

Notice: *Look for instructional label* ***A*** *to identify the correct lifting points.*

6 Take the weight of the machine. If the lifting equipment is fouling on the machine use spreader bars to prevent damage.

7 Check that the lifting eye is positioned directly above the machine center of gravity.



T015940-4

Fig 76.

⚠ DANGER

Do not stand underneath the raised load during the lowering procedure. Stand clear and to one side until the load has been safely lowered. Make sure that the area is clear of other people before lowering the load. If you do not follow these precautions you or others could be killed or seriously injured.

2-3-5-3

⚠ WARNING

Communications

Bad communications can cause accidents. Keep people around you informed of what you will be doing. If you will be working with other people, make sure any hand signals that may be used are understood by everybody. Work sites can be noisy, do not rely on spoken commands.

INT-2-2-3

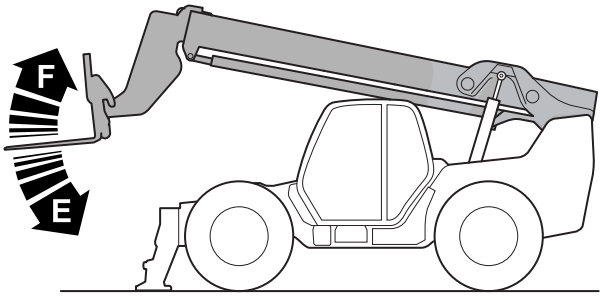
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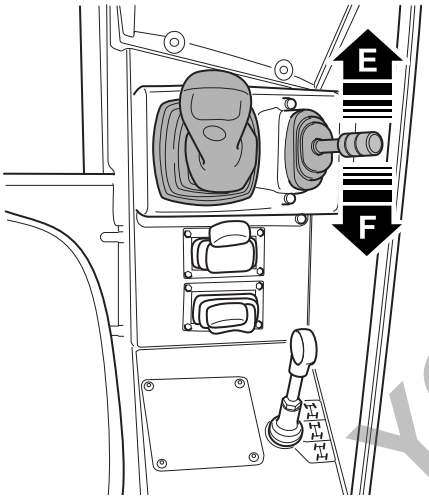
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Tilt Carriage Forward/Back

E Forward

F Back





T015921-3

Fig 33.

Auxiliary Controls

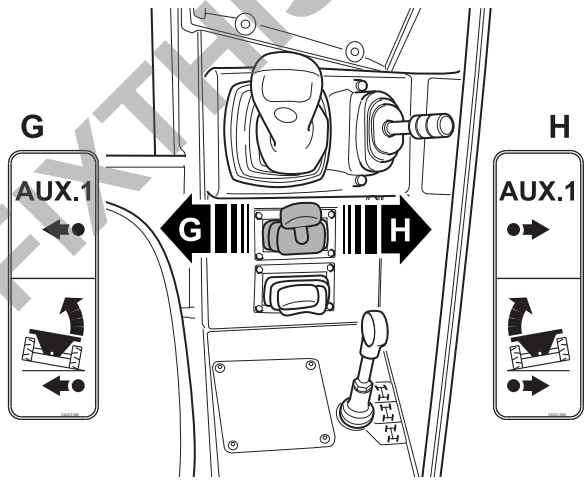
Notice: *To fit an attachment, see* ***Optional Attachments*** *section.*

⚠ WARNING

Before operating the Auxiliary control system make sure that you are aware of all WARNINGS and CAUTIONS that apply to the attachment you are using. Also make sure you have fitted the attachment correctly. (See OPTIONAL ATTACHMENT section).

5-2-2-6

Push the lever to the left **G** or right **H** depending on the attachment fitted and the function required.



T015921-4

Fig 34.

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Checking the ROPS/FOPS Structure

⚠ WARNING

You could be killed or seriously injured if you operate a machine with a damaged or missing ROPS/FOPS. If the Roll Over Protection Structure (ROPS)/Falling Objects Protection Structure (FOPS) has been in an accident, do not use the machine until the structure has been renewed. Modifications and repairs that are not approved by the manufacturer may be dangerous and will invalidate the ROPS/FOPS certification.

INT-2-1-9_6

For assistance, contact your JCB distributor. Failure to take these precautions could result in death or injury to the operator.

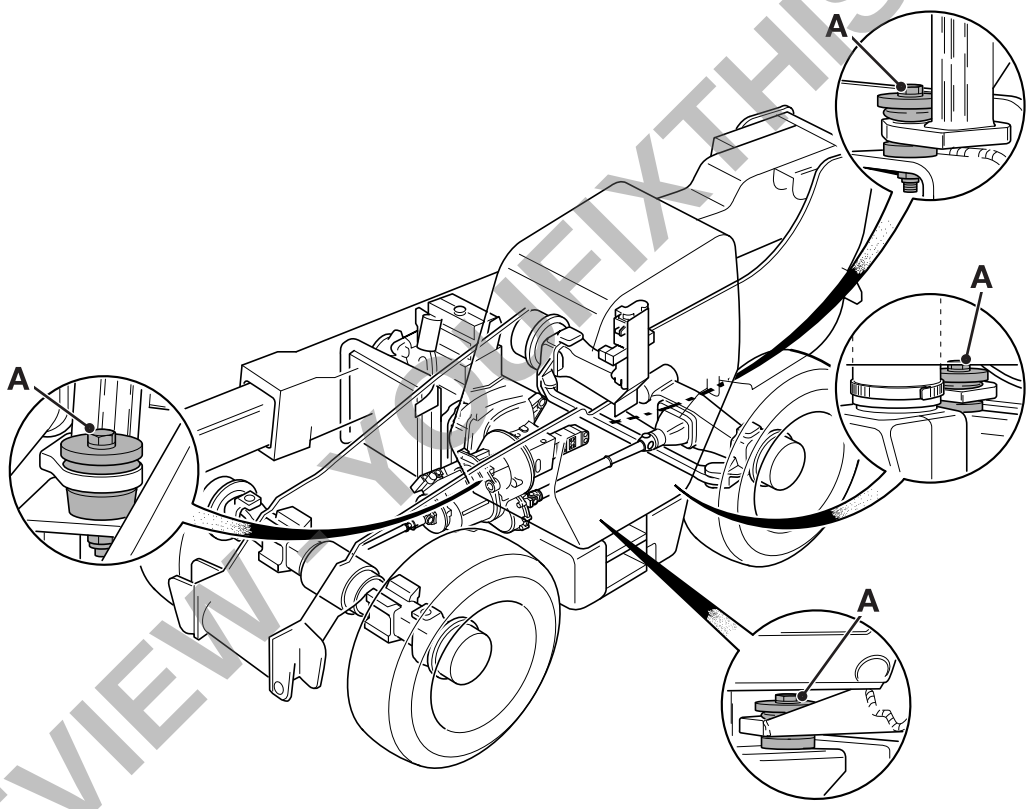
1 Check the structure for damage.

2 Make sure that all the ROPS/FOPS mounting bolts **A** are in place and are undamaged.

3 Make sure that the ROPS/FOPS mounting bolts **A** are tightened to the correct torque setting.

Table 5. Torque Settings

Item	Nm (lbf ft)
A	205 (151)



C016650-1

Fig 83.

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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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Before Entering the Cab

T2-025U_3

The following checks should be made each time you return to the machine after leaving it for any period of time. We advise you also to stop the machine occasionally during long work sessions and do the checks again.

All these checks concern the serviceability of the machine. Some concern your safety. Get your service engineer to check and correct any defects.

⚠ WARNING

Walking or working under raised attachments can be hazardous. You could be crushed by the attachments or get caught in the linkages.

Lower the attachments to the ground before doing these checks. If you are new to this machine, get an experienced operator to lower them for you.

If there is nobody to help you, study this manual until you have learned how to lower the attachments. Also make sure that the park brake is engaged before doing these checks.

2-2-1-1

1 Check for cleanliness.

- **a** Clean the windows, light lenses and rear view mirrors.
- **b** Remove dirt and debris, especially from around the linkages, cylinders, pivot points and radiator.
- **c** Make sure the cab step and handholds are clean and dry.
- **d** Clean all safety and instructional labels. Replace any that are missing or cannot be read.

2 Check for damage.

- **a** Inspect the machine generally for damaged and missing parts.
- **b** Make sure that the attachment is secure and in good condition.
- **c** Make sure that all pivot pins are secured correctly in place.
- **d** Inspect the windows for cracks and damage. Glass splinters can blind.
- **e** Check for oil, fuel and coolant leakages underneath the machine.

⚠ WARNING

You could be killed or injured if a machine tire bursts. Do not use the machine with damaged, incorrectly inflated or excessively worn tires.

2-2-1-2U

3 Make sure the tires are correctly inflated.

Check for cut rubber and penetration by sharp objects. Do not use a machine with damaged tires.

4 Make sure that all of the filler caps are installed correctly.

5 Make sure that all of the access panels are closed and secure.

Notice: *If the filler caps and access panels are fitted with locks, we recommend that you lock them to prevent theft or tampering.*

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Optional Attachments

Introduction

T4-002U_2

⚠ WARNING

Use only the JCB approved attachments that are specified for your machine. Operating with non-specified attachments can overload the machine, causing possible damage and machine instability which could result in injury to yourself or others.

The use of non-approved attachments could invalidate your warranty.

2-4-5-2_1

A wide range of optional attachments is available to increase the versatility of your machine. Only JCB approved attachments are recommended for use with your machine. Consult your JCB Distributor for the full list of approved attachments available.

JCB attachments are designed and manufactured specifically to suit the machine's hydraulic system, mounting arrangements and safe load requirements. Attachments which are not designed for use with this machine may cause damage and create safety hazards for which JCB cannot be held responsible. In addition the machine's warranty, and any other legislative compliance may be affected by the use of non JCB approved attachments.

2-4-1-13U_2

⚠ CAUTION

If you have an attachment which is not covered in the Operator Manual do not install it, use it or remove it until you have obtained, read and understood the pertinent information. Install attachments only on the machines for which they were designed.

5-5-1-1_2

This part of the manual includes general information on attachment operation and instructions for instalation and removal of attachments.

Some attachments are supplied complete with instructions on safety, instaling, removing, operation and maintenance. Read and fully understand the information before fitting, using and servicing the attachment. If there is anything you do not understand, ask your JCB Distributor.

Before using any attachment, read again ***Working With The Machine*** in the Operation section and consider how the attachment is going to affect operational safety. With the attachment fitted, there may be changes in the machine's center of gravity or overall dimensions. This could have an effect on, for example, machine stability, the gradients on which it is safe to operate or the safe distance from power lines.

Practice using attachments off the job before working with them for the first time.

If your machine needs the hydraulic system adapting to facilitate the use of auxiliary attachments, you must consult your distributor. Only suitably qualified personnel must re-route hydraulic hoses.

All optional attachments will have limits on their operation. i.e. lifting capacity, speeds, hydraulic flow rates, etc. Always check in the literature supplied with the attachment or in the SPECIFICATION section of this manual. Some specification limits may also be displayed on the attachments Data/Rating Plate.

⚠ CAUTION

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

3-4-1-4

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Health and Safety

Lubricants

T3-060U_3

Introduction

It is most important that you read and understand this information and the publications referred to. Make sure all your colleagues who are concerned with lubricants read it too.

Hygiene

JCB lubricants are not a health risk when used properly for their intended purposes.

However, excessive or prolonged skin contact can remove the natural fats from your skin, causing dryness and irritation.

Low viscosity oils are more likely to do this, so take special care when handling used oils, which might be diluted with fuel contamination.

Whenever you are handling oil products you should maintain good standards of care and personal and plant hygiene. For details of these precautions we advise you to read the relevant publications issued by your local health authority, plus the following.

Storage

Always keep lubricants out of the reach of children.

Never store lubricants in open or unlabelled containers.

Waste Disposal

⚠ CAUTION

It is illegal to pollute drains, sewers or the ground. Clean up all spilt fluids and/or lubricants.

Used fluids and/or lubricants, filters and contaminated materials must be disposed of in accordance with local regulations. Use authorised waste disposal sites.

INT-3-2-14

All waste products should be disposed of in accordance with all the relevant regulations.

The collection and disposal of used oil should be in accordance with any local regulations. Never pour used engine oil into sewers, drains or on the ground.

Handling

⚠ 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 gasoline, diesel fuel or kerosene to clean your skin.

INT-3-2-3U

New Oil

There are no special precautions needed for the handling or use of new oil, beside the normal care and hygiene practices.

Used Oil

Used engine crankcase lubricants contain harmful contaminants.

Here are precautions to protect your health when handling used engine oil:

1 Avoid prolonged, excessive or repeated skin contact with used oil.

2 Apply a barrier cream to the skin before handling used oil. Note the following when removing engine oil from skin:

- **a** Wash your skin thoroughly with soap and water.
- **b** Using a nail brush will help.
- **c** Use special hand cleansers to help clean dirty hands.
- **d** Never use gasoline, diesel fuel, or kerosene for washing.

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