100


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**WARNING**

**STUDY THIS HANDBOOK BEFORE STARTING THE ENGINE**

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

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# SAFETY FIRST - YOURS AND OTHER PEOPLE'S

All hydraulic equipment can be hazardous. When a Beaver powerpack is correctly operated and properly maintained, it is a safe machine to work with. But when correct operation and maintenance routines are not followed, the machine can be a danger to you (the operator) and others.

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

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.

Remember

**BE CAREFUL**
**BE ALERT**
**BE SAFE**

# SAFETY CHECK LIST

## General Safety

**⚠ WARNING**

**Handbook**

You and others can be injured if you operate or maintain the machine without first studying this handbook. Read the instructions before operating the machine. If there is anything that you do not understand, ask your employer or JCB dealer to explain it. Keep this handbook clean and in good condition. Do not operate the machine without a handbook readily available or if there is anything on the machine that you do not understand.

**⚠ WARNING**

**Clothing**

You can be injured if you do not wear correct clothing. Loose clothing can get caught in the machinery. Wear protective clothing to suit the job. Examples of protective clothing are: hard hat, safety shoes, safety glasses, a well fitting overall, ear protectors, and industrial gloves. Keep cuffs fastened. Do not wear a necktie or scarf. Keep long hair restrained.

**⚠ WARNING**

**Decals**

You can be injured if you do not obey the decal safety instructions. Keep decals clean. Renew unreadable and missing decals before operating the machine. Make sure replacement parts include warning decals where necessary.

**⚠ WARNING**

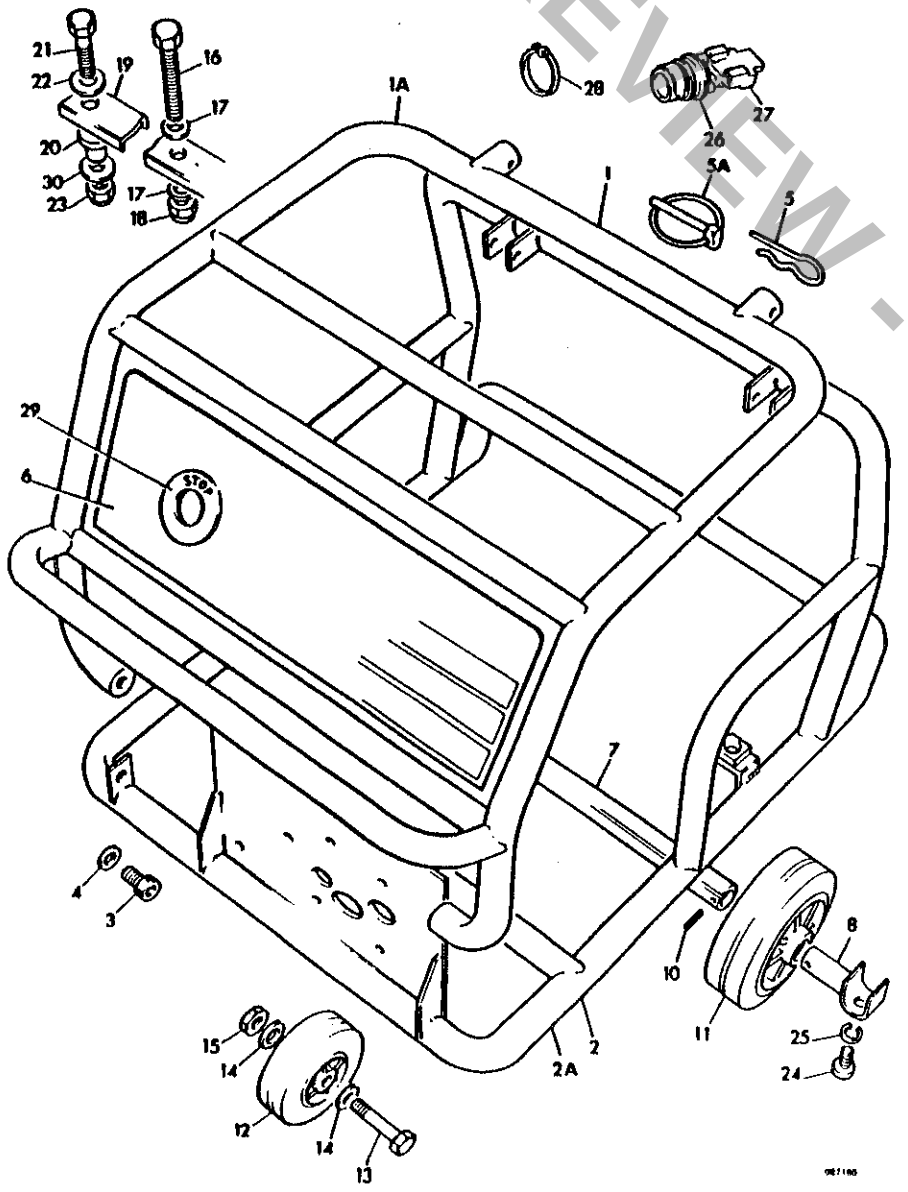
**Care and alertness**

All the time you are working with or on the machine, take care and stay alert. Always be careful. Always be alert for hazards.

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# A1-5-7 Chassis, Beaver Build 29, (Model 5092 )




| ITEM | PART NO | CHANGE NO | DESCRIPTION | REMARKS | USAGE CODE | QTY |
|---|---|---|---|---|---|---|
| 1 | A0/1743/A | To M602183 | Frame, upper | | | 1 |
| | A0/1743 | To M607392 | Frame, Beaver | | | 1 |
| | A0/1845 | To M802370 | Frame, upper | | | 1 |
| | A0/1902 | | Frame | | | 1 |
| 2 | A0/1742/A | To M602183 | Chassis | | | 1 |
| | A0/1742 | To M607392 | Chassis, Beaver | | | 1 |
| | A0/1844 | | Chassis | | | 1 |
| 3 | 1391/3302Z | | Capscrew | | | 2 |
| 4 | 1420/0007 | | Washer | | | 2 |
| 5 | PP/1718 | To M602183 | Clip, 'R' | | | 2 |
| | 826/00600 | | Pin, linch | | | 2 |
| 6 | A2/1757 | To M607392 | Label | | | 1 |
| | A1/1857 | To M802370 | Label | | | 1 |
| | A1/1915 | | Label | | | 1 |
| 7 | A3/1766 | | Axle | | | 1 |
| 8 | A3/1765 | | Axle, carrier | | | 2 |
| 10 | 2102/0413 | | Pin, roll | | | 2 |
| 11 | PP/1728 | | Wheel | | | 2 |
| 12 | PP/1729 | | Wheel | | | 1 |
| 13 | 1315/3314Z | | Bolt | | | 1 |
| 14 | 1420/0007Z | | Washer, Plain | | | 2 |
| 15 | PP/0701 | | Nut | | | 1 |
| 16 | 1315/3309Z | | Bolt | | | 2 |
| 17 | 1420/0007 | | Washer | | | 2 |
| 18 | PP/0701 | | Nut | | | 2 |
| 19 | A3/1749 | | Bar, mounting, engine | | | 1 |
| 20 | 255/35203 | | Insert, mounting | | | 3 |

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# HYDRAULIC CIRCUIT

## Checking the Hydraulic Fluid Level

1 **Prepare the Machine**

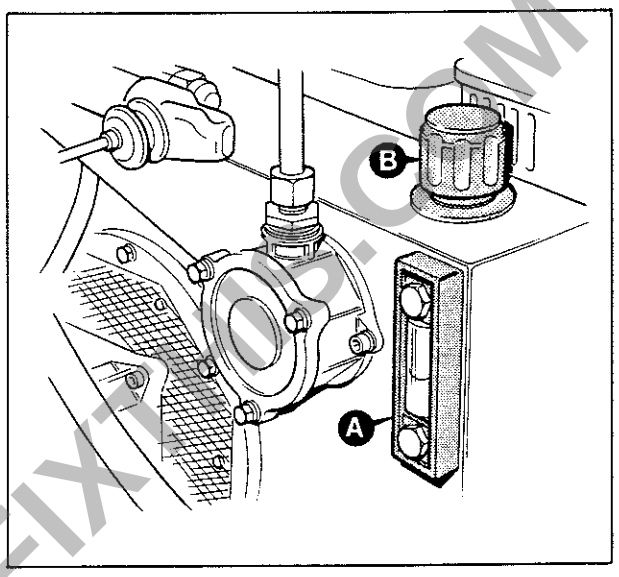
Position the machine on level ground. Switch off the engine and allow it to cool down.

2 **Check the Hydraulic Fluid Level**

a Check the hydraulic fluid level using sight gauge **A.**

b If necessary top up the hydraulic fluid through filler **B.**

**Note:** Use only the recommended hydraulic fluid. (See Page 139)




## Changing the Hydraulic Fluid

1 **Prepare the Machine**

Position the machine on level ground. Switch off the engine and allow it to cool down.

2 **Drain the Hydraulic Fluid**

a Place a container of a suitable size below the tank drain plug **A** to catch the fluid.

b Remove drain plug **A** and filler cap **B** and allow fluid to drain out.

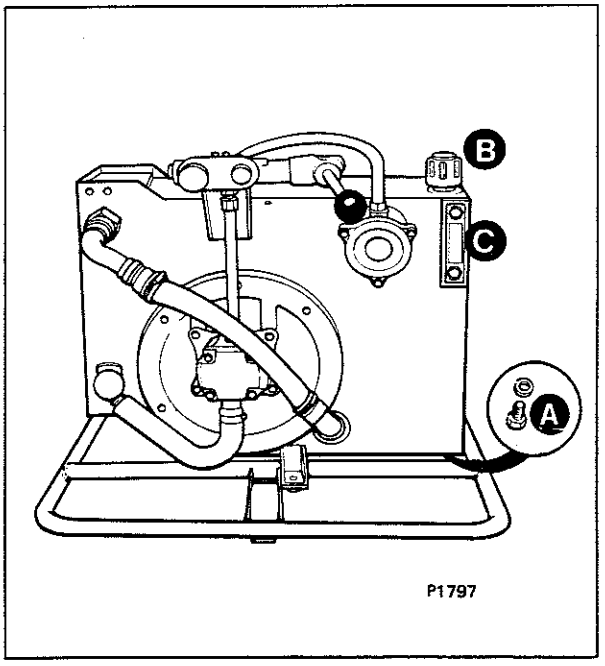
3 **Replace the Hydraulic Fluid**

a Refit drain plug **A.**

b Pour fluid through filler until it reaches the required level on sight gauge **C.**

c Refit filler cap **B.**

**Note:** Use only the recommended hydraulic fluid. (See Page 139)




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# REGULAR MAINTENANCE SCHEDULES

A poorly maintained machine is a hazard. Doing regular maintenance and lubrication jobs listed in these schedules will help keep the machine in safe working order.

Apart from the daily jobs, the schedules are based on machine running hours. Keep a regular check of the hours in use. Do not use a machine which is due for a regular service. Rectify any defects found during regular maintenance before clearing the machine for use.

**WARNING**

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

**Before doing any maintenance make sure the machine is safe and correctly sited on level ground.**

## Daily

**1 CLEAN**

Machine Generally (Page 130)

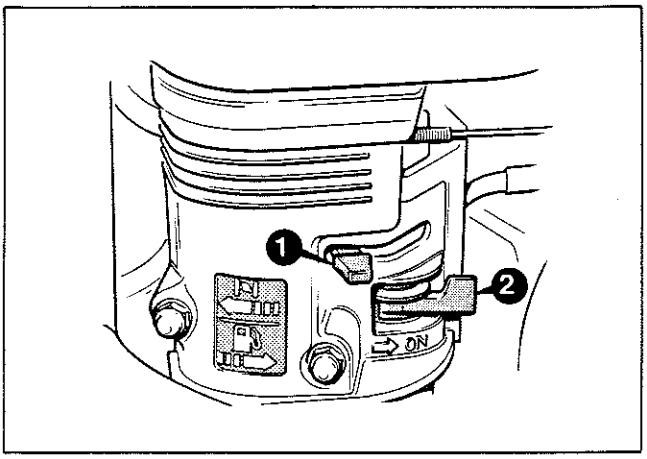
**2 CHECK**

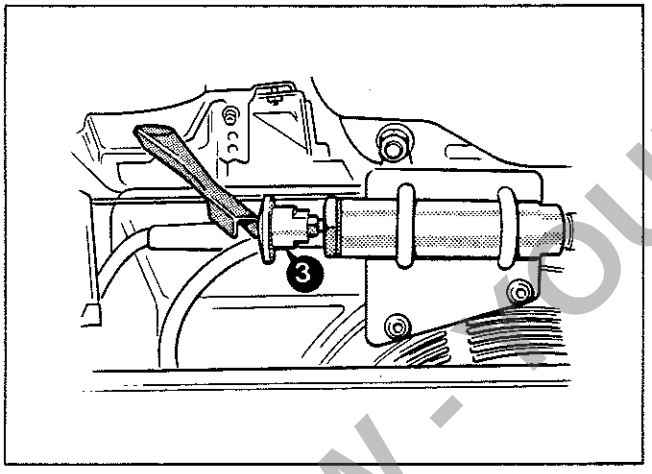
1 Generally for damage (Page 130)
2 Hydraulic fluid level (Page131)
3 Engine oil level (Page134, 136)
4 Hydraulic couplings (Page 129)
5 Hydraulic hoses (Page129)

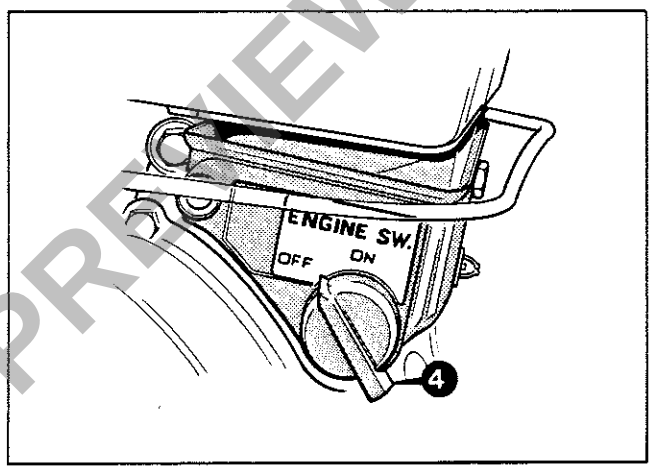
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# ENGINE CONTROLS
# PETROL ENGINE - HONDA GX 240




## CONTROLS

1 Choke

2 Fuel On/Off

3 Preset engine speed regulator hydraulic ram

## SWITCH

4 Engine ON/OFF switch

## INDICATOR

The Oil Alert system is designed to prevent engine damage caused by an insufficient amount of oil in the crankcase. The oil alert system will automatically shut down the engine before the oil in the crankcase can fall below a safe limit.

If the Oil Alert system has shut down the engine then the Oil Alert indicator will flash when you attempt to restart the engine.

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# PRODUCT INDEX

| | Beaver MK I Petrol 5092 | Beaver MK II Petrol 5104 | Beaver MK II Diesel 5106 |
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| Main Hose Set – Heavy Duty | B7-1-2 | B7-1-2 | B7-1-2 |
| Main Hose Set – Lightweight | B7-1-4 | B7-1-4 | B7-1-4 |

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# SAFETY CHECK LIST (continued)

**⚠ WARNING**

**Hydraulic Fluid**

Fine jets of hydraulic fluid at high pressure can penetrate the skin. Do not use your fingers to check for hydraulic fluid leaks. Do not put your face close to suspected leaks. Hold a piece of cardboard close to suspected leaks and then inspect the cardboard for signs of hydraulic fluid. If hydraulic fluid penetrates your skin, get medical help immediately.

**⚠ WARNING**

**Hydraulic Pressure**

Hydraulic oil at system pressure can injure you. Before disconnecting or connecting hydraulic hoses, stop the engine and move the output controls to mid-position.

**⚠ 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.

**⚠ WARNING**

**Fires**

Do not use water to put out a machine fire, you could spread an oil fire or get a shock from an electrical fire. Use carbon dioxide, dry chemical or foam extinguishers. Contact your nearest fire department as quickly as possible. Firefighters should use self-contained breathing apparatus.

**⚠ WARNING**

**Electrical Circuits**

Understand the electrical circuit before connecting or disconnecting an electrical component. A wrong connection can cause injury and/or damage.

**⚠ WARNING**

**Fire Extinguishers**

Make sure you use the correct type of fire extinguisher for extinguishing fires. Always read the instructions and uses on the extinguisher before using it.

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