CX135SR
Excavator

OPERATOR'S MANUAL

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CASE
CONSTRUCTION

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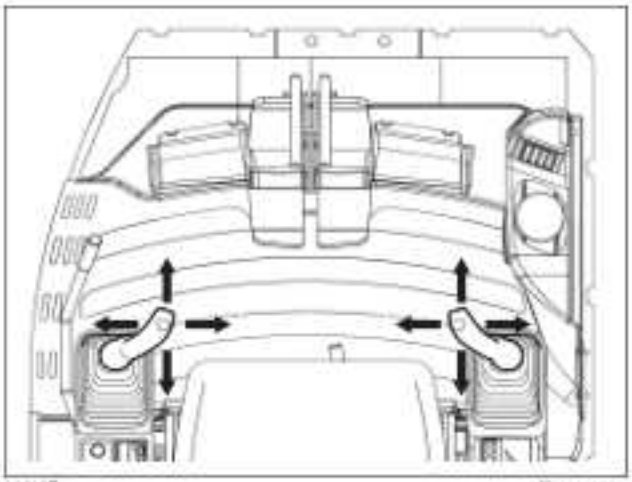
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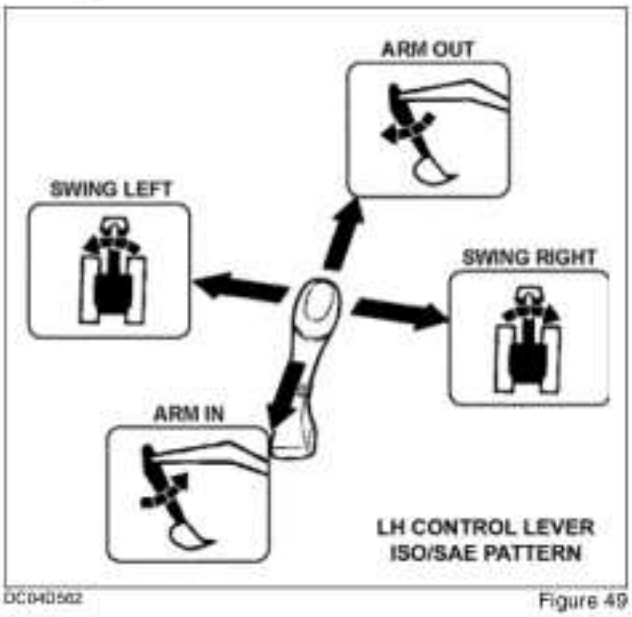
OPERATION LEVERS



10103E Figure 48

Boom, arm, bucket, and swing operations can be controlled individually or simultaneously. The operation speed will vary according to the operation lever stroke. When the lever is released, the lever will automatically return to neutral.

Left Hand (LH) Operator Control Lever (ISO/SAE Pattern)



DC040562 Figure 49

WARNING

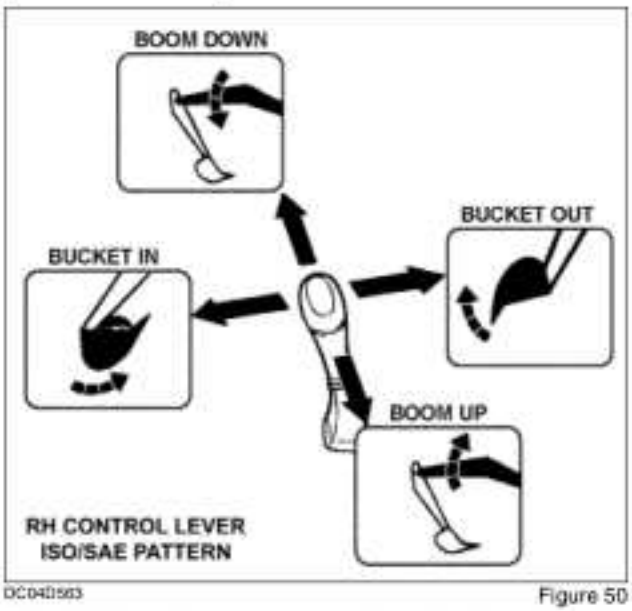
WARNING: *Hydraulic controls are designed for and set to ISO operating pattern. Changing the control pattern will effect the operation of the machine controls. Failure to comply could result in death or serious injury.*

M1716

The left hand operator control lever is located at the top front of the LH operator console. Its purpose is to allow the operator to control operations of the swing and arm. Operating speed of function is variable from stop to full stroke depending on how far lever is operated. The left hand operator control lever has four basic operational functions.

- **FORWARD** - Variable speed ARM out.
- **BACKWARD** - Variable speed ARM in.
- **LEFT** - Variable speed left SWING.
- **RIGHT** - Variable speed right SWING.
- **CENTER** - Neutral position.

Right Hand (RH) Operator Control Lever (ISO/SAE Pattern)



DC040563 Figure 50

The right hand operator control lever is located at the top front of the RH operator console. Its purpose is to allow the operator to control operations of the boom and bucket. Operating speed of function is variable from stop to full stroke depending on how far lever is operated. The right hand operator control has four basic operational functions.

- **FORWARD** - Variable Speed BOOM down.
- **BACKWARD** - Variable speed BOOM up.
- **LEFT** - Variable speed BUCKET in (Digging).
- **RIGHT** - Variable speed BUCKET out (Dump).
- **CENTER** - Neutral position.

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10 HOUR MAINTENANCE

HYDRAULIC FLUID RESERVOIR LEVEL

Service Specifications

Reservoir capacity . . . . . .21.4 Gal. (81 Liters)

Total system capacity . . . . . .34.3 Gal. (130 Liters)

Check the hydraulic fluid reservoir level before you start the engine each day or before the start of each 10 hour shift. Always check levels with the engine stopped and with the machine on firm, level ground.

NOTICE: *After replacing the hydraulic fluid, it is necessary to bleed all air from the hydraulic components. See "Bleeding air from the hydraulic components".*

⚠ WARNING ⚠

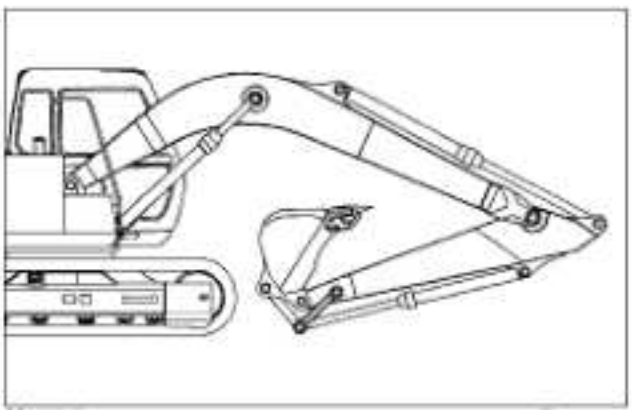
Before carrying out any service work on the hydraulic system it is necessary to allow it to cool (the temperature should not be more than 40°C (104° F). Failure to comply could result in death or serious injury.

M646

⚠ WARNING ⚠

Before carrying out any service work on hydraulic filters or the hydraulic system, remove the hydraulic reservoir breather cap, and press the button on the breather to release all pressure in the system. Failure to observe these instructions can cause injury. See "Releasing Pressure in the Hydraulic System". Failure to comply could result in death or serious injury.

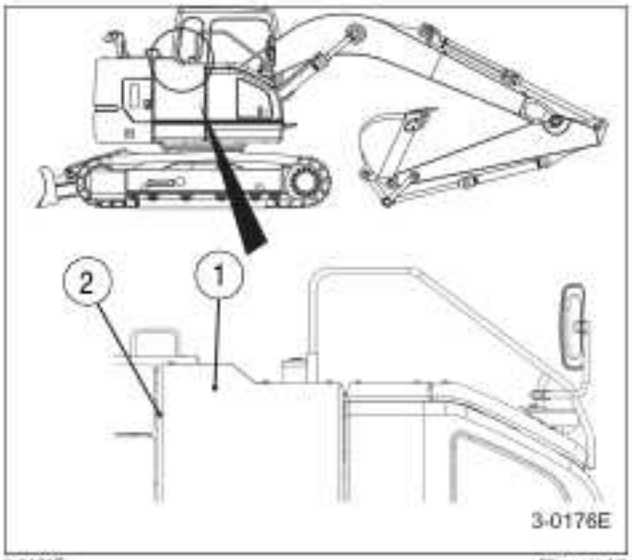
Check Hydraulic Fluid Level In The Reservoir



CS98N547

Figure 17

1. Keep all non-authorized personnel clear of the area. Position the machine on firm, level ground, and place the attachment on the ground. Stop the engine, and remove the starter switch key.



3-0176E

Figure 18

1. HYDRAULIC OIL FILL PORT
2. HYDRAULIC OIL SIGHT GAUGE

2. The oil should be in the middle of the indicator. Add more oil if necessary.

⚠ WARNING ⚠

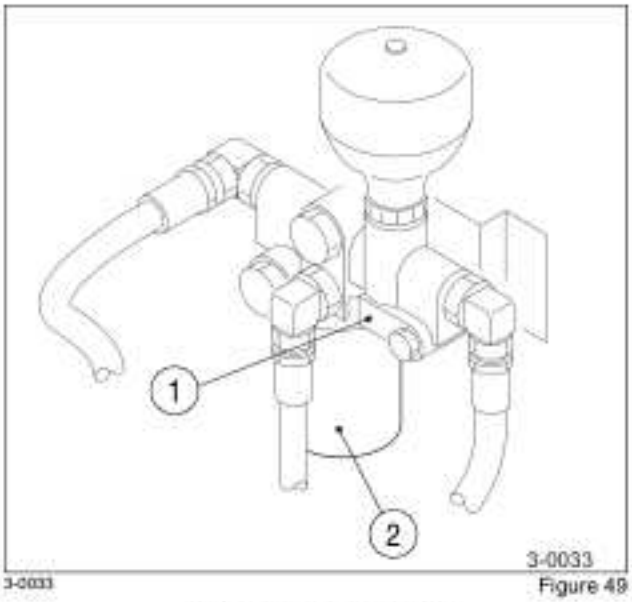
Hydraulic oil leaking under pressure can penetrate the skin and cause infection or other injury. To prevent personal injury: relieve all hydraulic pressure, before disconnecting fluid lines. If injured by leaking fluid, seek medical attention immediately. Failure to comply could result in death or serious injury.

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2000 HOUR MAINTENANCE

PILOT FILTER REPLACEMENT



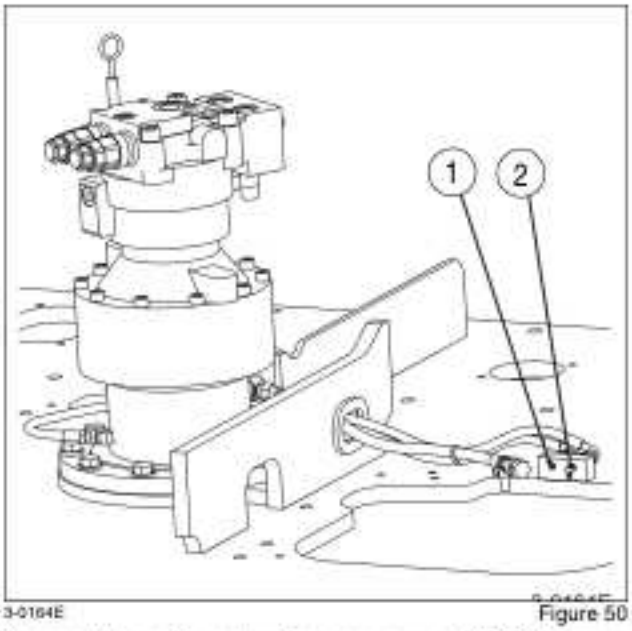
3-0033 Figure 49

PILOT FILTER LOCATION

Replace the pilot filter when the machine hour meter registers 250 hours during the initial run-in period. The pilot filter will be replaced at 2000 hours thereafter, or sooner if conditions so require.

1. Keep all non-authorized personnel clear of the area. Release all pressure in the hydraulic system. See "Releasing Pressure in the Hydraulic System."
2. Use a wrench on the bottom of the filter body (2) to unscrew and remove it.
3. Remove the old filter.
4. Clean the filter body in solvent and wipe dry with a cloth.
5. Coat the new filter with clean hydraulic fluid. Install the new filter on the head (1).
6. Install the filter body and tighten by hand. Do not overtighten.

GREASE SWING REDUCTION GEAR



3-0164E Figure 50

Grease the swing reduction gear every 2000 hours or sooner if conditions so require.

Remove the lower panel, and remove the air bleed plug (1). Refill with grease through the grease point (2). A small amount of grease will run out from the air bleed plug. When greasing, if the air bleed plug is not removed, the inner seal will be damaged.

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