CX57C
Mini Excavator

OPERATOR'S MANUAL

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CASE
CONSTRUCTION

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Forward controls

⚠ WARNING

Unexpected machine movement!
Pilot controls have two different backhoe controls patterns; before operating the machine, check which control function is active.
Failure to comply could result in death or serious injury.

W0165A

This machine is equipped with a lever pattern valve that allows the operator to select between the " ISO type" controls pattern or the " A type" controls pattern by changing the position of the valve. Before starting machine operation, select the desired controls pattern, and change the position of the valve accordingly. Refer to page **4-13**.

Control levers

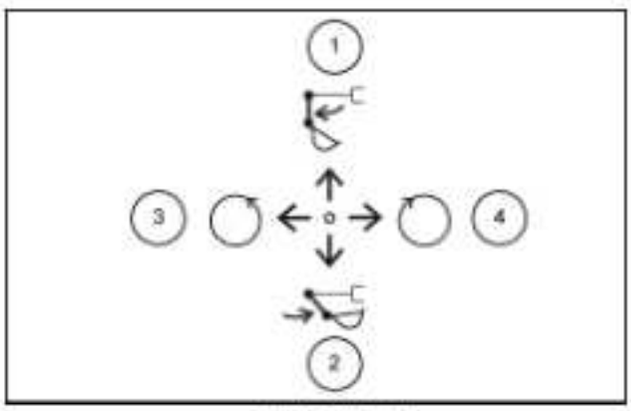
Pattern: ISO type

Left-hand control lever:

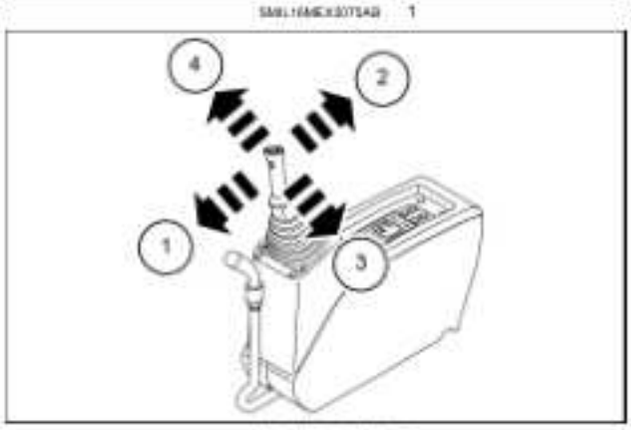
1. The dipper arm extends.
2. The dipper arm retracts.
3. The upper structure swings to the left-hand side.
4. The upper structure swings to the right-hand side.

NOTE: *the speed of movement of the arm or the swing depends on the control lever tilt angle. In the intermediate position two movements can be obtained simultaneously.*

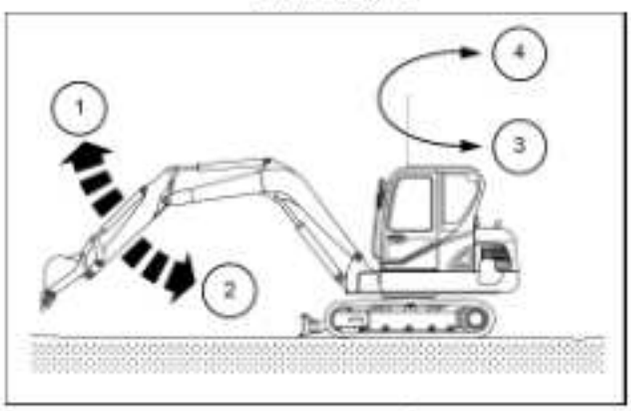
NOTE: *when the upper structure swing control is released, the upper structure may continue to rotate due to the force of inertia. In this event, make allowance for the extra movement by releasing the control slightly earlier.*



1



2



3

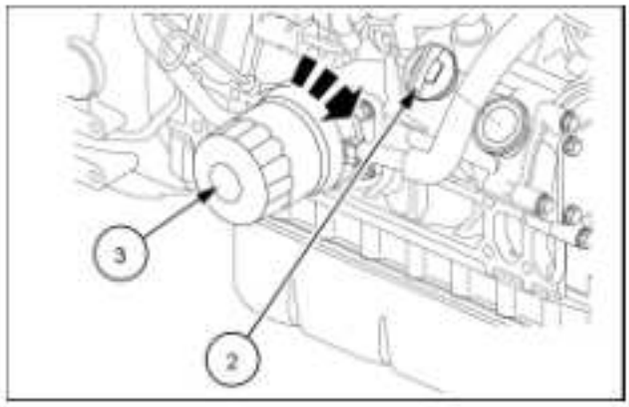
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7. Install the new filter. Turn the filter **(3)** until the seal touches the filter head.
   Tighten the filter to **19 – 23 N·m** (**14 – 17 lb ft**)

NOTE: *do not use a filter wrench for tightening the filter. Overtightening can damage the filter and its seal.*

8. Install the drain plug.
9. Add new engine oil to the engine. Install the filling plug **(2)**.
10. Run the engine for several minutes to check that there are no leaks at the filter and at the drain plug.
11. Stop the engine and check the oil level with the dip-stick. Add oil if necessary.

NOTE: *always wait **15 min** to allow the oil to return to the sump before checking the oil level.*



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Fuel filter water separator

Replace the element of the fuel filter water separator every **500 h**.

To replace the element of the fuel filter water separator, refer to page **6-24**.

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Swing motor

Type	Fixed displacement axial piston motor
Capacity	**32.3 cm³/rev (2.0 in³/rev)**
Relief pressure	**21581 kPa (3130 psi)**
Braking system	Automatic, spring applied hydraulic released
Braking torque	**137.34 N·m (101.30 lb ft)**
Brake release pressure	**1958 – 3930 kPa (284 – 570 psi)**
Reduction gear type	2 - stage planetary

Travel motor

Type	Variable displacement axial piston motor
Relief pressure	**21581 kPa (3130 psi)**
Reduction gear type	2-stage planetary
Braking system	Automatic, spring applied hydraulic released
Brake release pressure	**883 kPa (128 psi)**
Braking torque	**82.40 N·m (60.78 lb ft)**

Cylinder

Boom cylinder	Bore diameter x Rod diameter x Stroke	**Ø 110 mm (4.3 in) x Ø 65 mm (2.6 in) x 715 mm (28.1 in)**
	Cushion	Extend only
Arm cylinder	Bore diameter x Rod diameter x Stroke	**Ø 90 mm (3.5 in) x Ø 55 mm (2.2 in) x 850 mm (33.5 in)**
	Cushion	Extend and retract
Bucket cylinder	Bore diameter x Rod diameter x Stroke	**Ø 80 mm (3.1 in) x Ø 50 mm (2.0 in) x 660 mm (26.0 in)**
	Cushion	Extend only
Dozer blade	Bore diameter x Rod diameter x Stroke	**Ø 110 mm (4.3 in) x Ø 60 mm (2.4 in) x 219 mm (8.6 in)**
	Cushion	Extend only

NOTE: *discoloration of cylinder rod can occur when the friction reduction additive of lubrication oil spreads on the rod surface.*
Discoloration does not cause any harmful effect on the cylinder performance.

Shoe

Shoe width	Steel	**380 mm (15.0 in)**
	Rubber	**400 mm (15.7 in)**
Ground pressure	Steel	**0.34 Kg/cm² (4.8 psi)**
	Rubber	**0.33 Kg/cm² (4.7 psi)**
Overall width	Steel	**1880 mm (74.0 in)**
	Rubber	**1900 mm (74.8 in)**

Number of rollers and shoe on each side

Carrier rollers: 1

Track rollers: 5

Track shoes (steel): 40

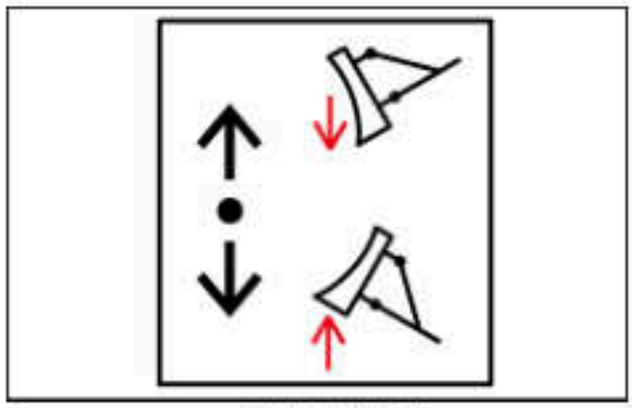
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(27) Dozer blade operation

Location: this sign is located on the right-hand console box.

Quantity: 1

This sign describes the blade operations.



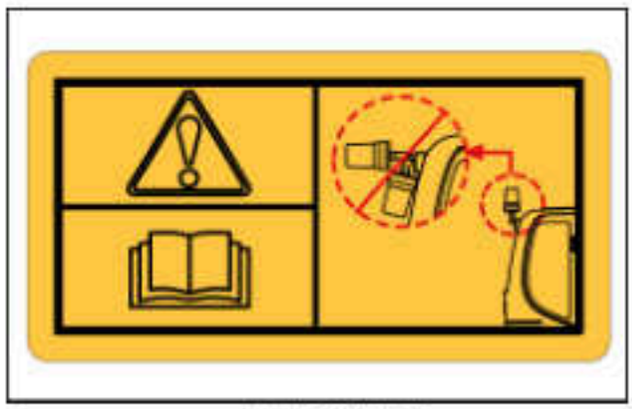
30

(28) Beacon light

Location: this sign is located on the rear outside of the cab.

Quantity: 1

This sign indicates to make sure that the beacon light maintains a vertical position.
A horizontal position can result in a decrease in life time of the light due to the infiltration of foreign substances such as dust or water.
During the machine transfer, change the position of the light to the horizontal position.



31

(29) Load handling (optional)

Location: this sign is located on the left–hand side of the cab.

Quantity: 1

The load handling indicates the rated lift capacities that shall be considered at different distances from the swing axis.



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(30) Service instructions

Location: this sign is located on the left–hand side of the cab.

Quantity: 1

This sign describes the service locations and the service intervals.

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Hydraulic control lever operating pattern

⚠ WARNING

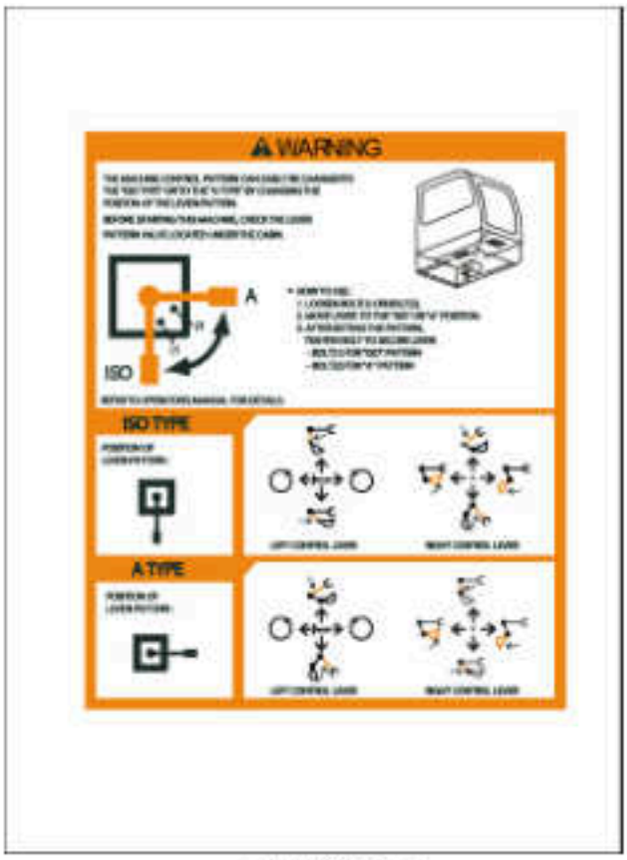
Avoid injury!

Inspect the work area or job site to make sure that machine operation can be done safely. Confirm that the lever operation is the same as indicated on the control pattern labels. If not, immediately change the machine control pattern or the label displayed to match the machine control pattern.

Failure to comply could result in death or serious injury.

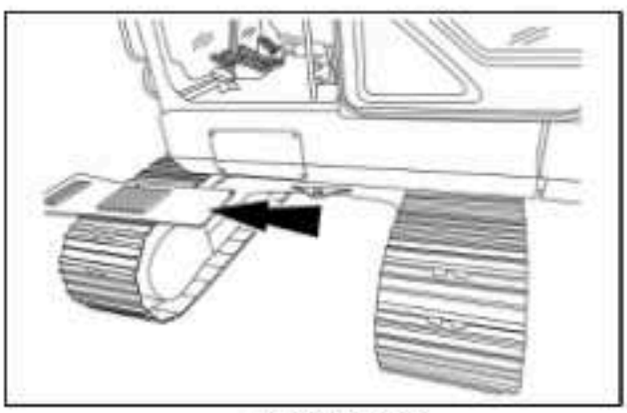
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NOTICE: *whenever a change is made to the machine control pattern, also replace the pattern label in the cab to match the new pattern.*



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To access to the change pattern valve, turn **90 °** counter-clockwise the upper-structure, and remove the panel located under the cab (left–hand side).



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