CX235C SR
Crawler Excavator

OPERATOR'S MANUAL

Part number 47510024
1st edition English
April 2013
Replaces part number 47482493

CASE
CONSTRUCTION

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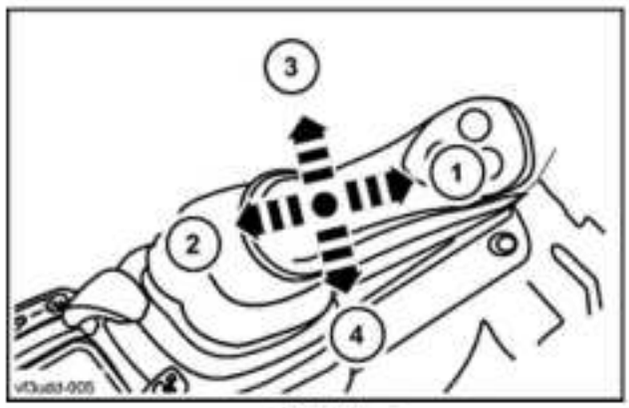
FORWARD CONTROLS

Hand control levers and pedals

Arm and upperstructure swing left-hand control lever

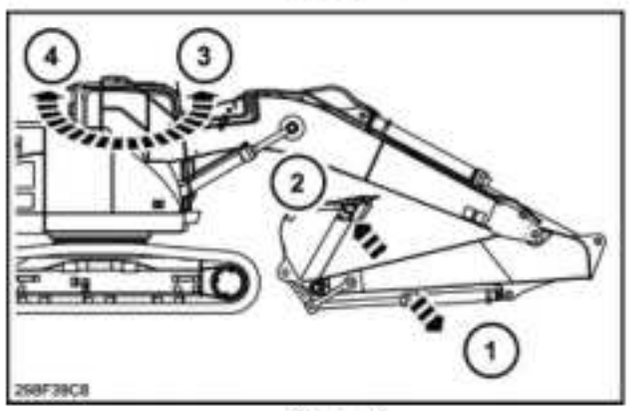
The speed of movement of the arm or the upperstructure swing depends on the control lever tilt angle. In the intermediate position two movements can be obtained simultaneously.

NOTE: *When the upperstructure swing control is released, the upperstructure 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.*



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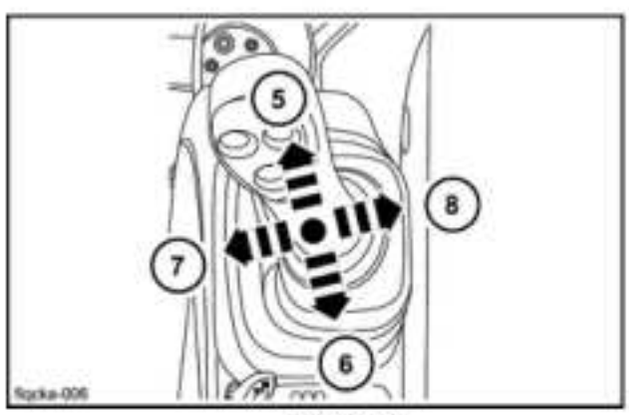
(1) The arm extends.
(2) The arm retracts.
(3) The upperstructure turns to the left.
(4) The upperstructure turns to the right.



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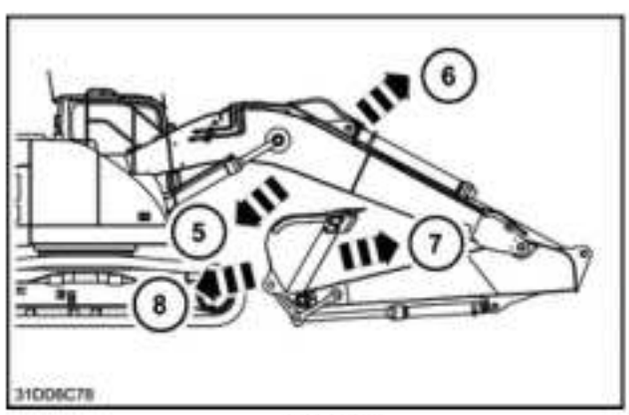
Boom and bucket right-hand control lever

The speed of movement of the boom or the bucket depends on the control lever tilt angle. In the intermediate position two movements can be obtained simultaneously.



FIGCKA-006 3

(5) The boom lowers.
(6) The boom raises.
(7) The bucket retracts (filling).
(8) The bucket extends (dumping).



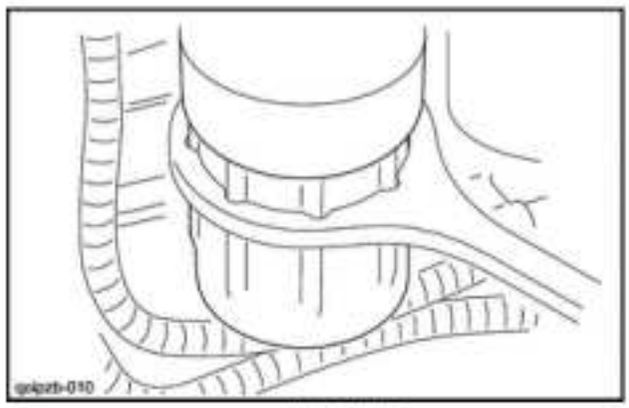
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4. Clean around the pre-filter body then remove it using the wrench provided with the machine.
5. Install the new filter element. Replace the filter body seal, then install the body, turning it until it is in contact with the pre-filter head.

   ATTENTION: *Do not fill the filter body with fuel before installing.*
6. Tighten the body using the wrench, the tightening torque must be from **28 - 32 N·m** (**20.7 - 23.6 lb ft**).

NOTE: *Bind tight within regulation torque.*



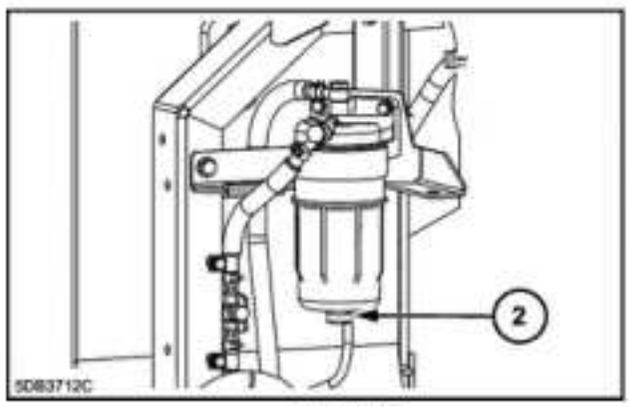
5

7. Replace the drain plug **(2)** seal then install the drain plug **(2)**; the tightening torque must be between **8 - 12 N·m** (**5.9 - 8.9 lb ft**)

   ATTENTION: *Overtightening can damage the seal.*

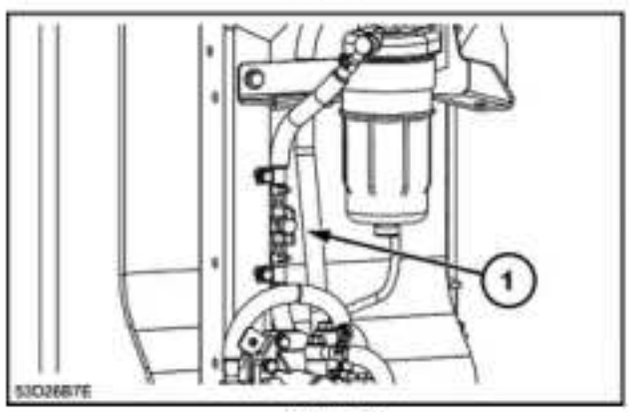
   ATTENTION: *Never re-use the seals of the filter body or the drain plug **(2)**; they must always be replaced with new seals.*

NOTE: *Bind tight within regulation torque.*



6

8. Open the valve **(1)** on the supply line.
9. Bleed the system. See "Fuel system air bleed".



7

Replacing the fuel filter element

Replace the fuel filter element at the same time as pre-filter element.

ATTENTION: *If a fuel filter other than a genuine CASE CONSTRUCTION filter is used, the guarantee will not be applied to a fault caused by the use of a wrong filter.*

1. Place a receptacle of a suitable capacity under the fuel filter.

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8 - SPECIFICATIONS

General specification

Engine

High pressure common rail engine, in conformity, applicable to low fumes emission.

Make and type	ISUZU AM-4HK1X
Common rail, turbocharger with air cooled intercooler, **DPD** (Diesel Particulate Diffuser) system, fuel cooler	yes
Injection	electric control
Number of cylinders	4
Bore/stroke	**115 mm (4.5 in)** x **125 mm (4.9 in)**
Displacement	**5193 cm³/rev (316.9 in³/rev)**
Maximum displacement	**621 N·m (458.03 lb ft)** at **1500 RPM**
Cooling	by water
Battery starting	2 x **12 V 92 A·h**
Voltage	**24 V**
Alternator	**50 A**
Starter	**24 V 5.0 kW**

Working conditions

Speed	**1800 RPM**
Power	**119.3 kW (162.2 Hp)** at **1800 RPM**
Engine oil capacity (with remote oil filter)	**23.1 l (6.1 US gal)**
Fuel tank capacity	**320 l (84.5 US gal)**
Fuel filler pump	if equipped
Engine/pump assembly mounted on flexible mountings	
Filtration in dusty conditions	
Electronically controlled governor	

Hydraulic system

2 variable displacement axial piston pumps with regulating system. Main pump max flow (at **1800 RPM**)	2 x **211 l/min (55.7 US gpm)**
Fixed flow pump (pilot circuit).Max. flow:	**18 l/min (4.8 US gpm)**
Working pressure.Attachment/power boost	**343 - 368 bar (4973.5 - 5336.0 psi)**
Oil cooler with air cooling from engine	
High pressure multispiral hoses minimum safety factor	2 to 4 times the working pressure
Self-lubricating hydraulic swivel	
Hydraulic reservoir capacity	**114 l (30.1 US gal)**
Total hydraulic system capacity	**252 l (66.6 US gal)**

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