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Operation & Maintenance Manual

HYDRAULIC
EXCAVATOR

PC290LC-11

SERIAL NUMBERS 35013 and up

WARNING

Unsafe use of this machine may cause serious injury or death. Operators and maintenance personnel must read this manual before operating or maintaining this machine. This manual should be kept near the machine for reference and periodically reviewed by all personnel who will come into contact with it.

NOTICE

Komatsu has Operation & Maintenance Manuals written in some other languages. If a foreign language manual is necessary, contact your local distributor for availability.

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TRAVEL LEVER

⚠ WARNING

- **If you perform operations with your foot on the pedal, the machine may suddenly start if you depress the pedal by mistake, and this may lead to serious personal injury or death. Be extremely careful when using the pedal for travel and steering operations, and do not put your foot on the pedal when it is not necessary.**
- **When the track frame is facing the rear, the direction of operation of the steering lever is the opposite to the direction of movement of the machine (forward/reverse, right/left turn).**
  When operating the travel lever, always check if the track frame is facing the front or the rear. (If the sprocket is at the rear, the track frame is facing the front.)

The travel lever is used to change the direction of travel between forward and reverse. ( ) shows the pedal operation.

(a) FORWARD

The lever is pushed forward

(Depress the front side of pedal.)

(b) REVERSE

The lever is pulled back

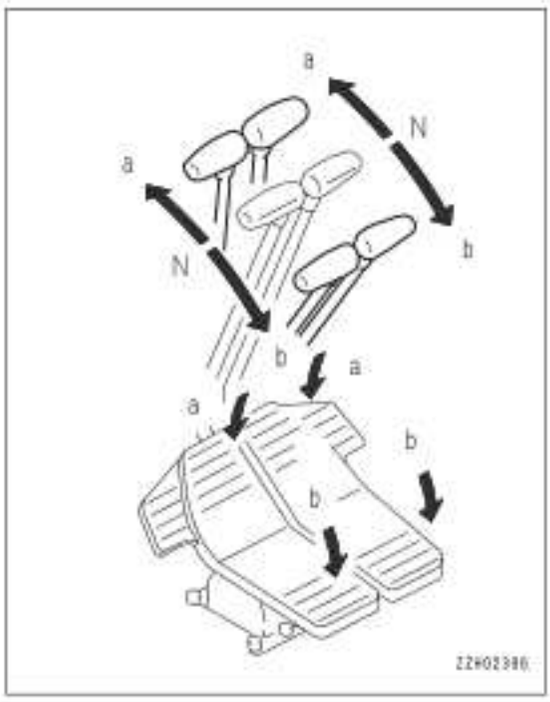
(Depress the rear side of pedal.)

N (NEUTRAL)

The machine stops.

REMARK

If the lever is shifted to FORWARD or REVERSE position from NEUTRAL position, the alarm sounds to warn that the machine is starting to move.



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EVERY 1000 HOURS MAINTENANCE

Maintenance for every 100, 250 and 500 hours should be performed at the same time.

METHOD FOR REPLACING HYDRAULIC OIL FILTER ELEMENT

⚠ WARNING

- **Immediately after the engine is stopped, its parts and oil are still very hot and may cause burn injury. Accordingly, wait until they have cooled down before starting the work.**
- **When removing the oil filler cap, the oil may spout out. Turn it slowly to release the internal pressure, then remove it.**

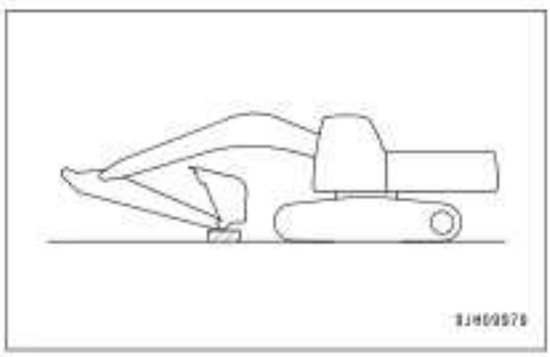
NOTICE

If the machine is equipped with a hydraulic breaker, the hydraulic oil deteriorates faster than in the normal bucket digging operation. Accordingly, perform maintenance referring to "MAINTENANCE INTERVAL FOR HYDRAULIC BREAKER".

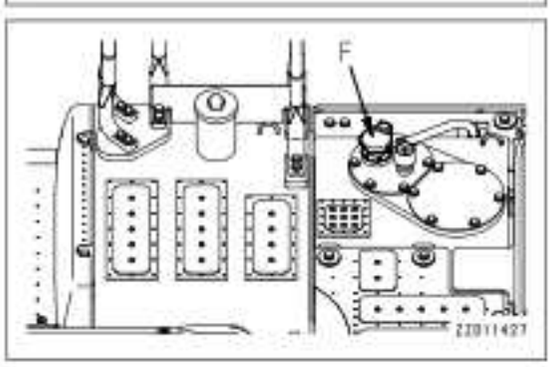
Items to be prepared

Container to catch drained oil

1. Set the work equipment on the hard and flat ground in the maintenance posture as shown in the figure, then lower it to the ground and stop the engine.



2. Remove the cap for oil filler (F), and release the internal pressure.

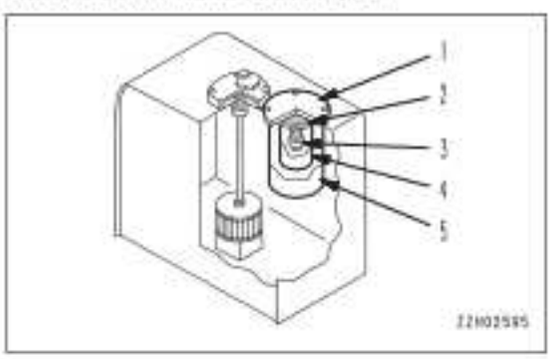


3. Loosen the bolts (6 pieces) and remove cover (1).

   The cover may be jumped out by spring (2). While pressing down the cover, remove the bolts.

   REMARK

   If cover (1) is left approximately 5 minutes with the mounting bolts loosened, the internal pressure of the case is released and the oil in the element is drained, and accordingly less oil drips when the element is removed.



4. After removing spring (2), valve (3) and strainer (4), take out element (5).
5. Check the bottom of the filter case for dirt or other material, and remove any if found.

   Take extreme care that the dirt does not fall into the hydraulic tank.

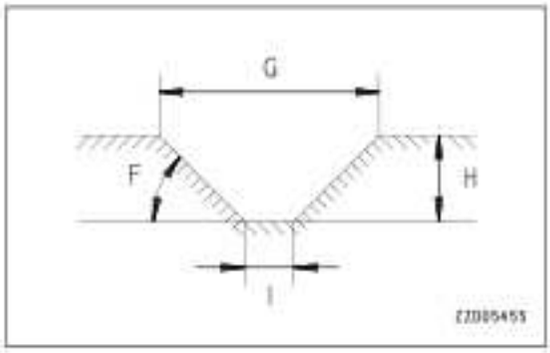
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Ditch slope face angle 40 ° and 38 °

Install the angle plate using the respective ditch slope angle holes, and use the method above for digging.

Even when the angle plate is fitted, keep the line on the bucket side plate perpendicular to the ground face during the digging operation.

Item	Ditch slope face angle (F)	
	40 °	38 °
Digging width (upper face) (G)	3280 mm {10 ft 9 in}	3310 mm {10 ft 10 in}
Digging depth (H)	1230 mm {4 ft 0 in}	1165 mm {3 ft 10 in}
Digging width (bottom face) (I)	350 mm {1 ft 2 in}	330 mm {1 ft 1 in}



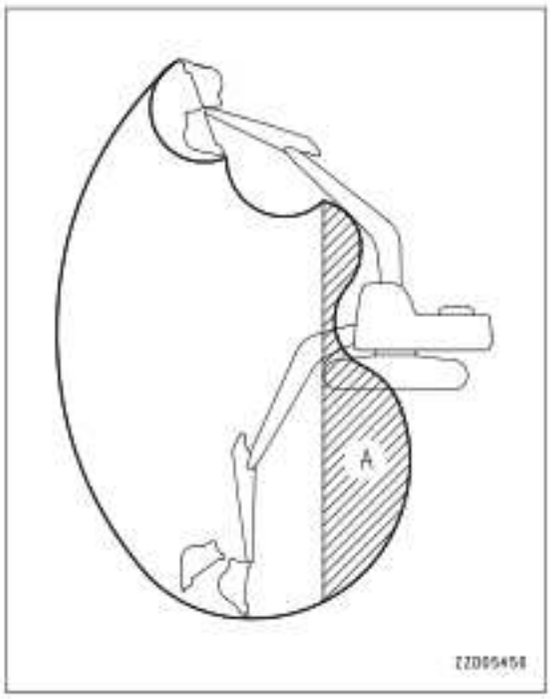
HANDLE EXTENSION ARM

When an extension arm is installed, the bucket will hit the boom cylinder foot and revolving frame when the arm is pulled in, so be extremely careful during operations and when transporting the machine.

(A): Range of prohibited use

- When an extension arm is installed, use a narrow bucket (width: 750 mm{ 2ft 6in }, 560 mm{ 1ft 10in } without side cutters.

  If the standard bucket is used, the stability is poor, and the bucket will also hit the operator's cab when the arm is pulled in, so do not install the standard bucket.
- For operations on hard soil or rock, do not use the extension arm. The service life of the extension arm, boom, and arm will be reduced.



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