

MNCO1027A

**CONDUCT
EXCAVATOR/HYDRAULIC SHOVEL OPERATIONS**

**HITACHI EX2500 & EX3600
EXCAVATOR**



EX2500



EX3600

LEARNING NOTES



Design & Development
by

[www. **Worklearn**.com](http://www.Worklearn.com)

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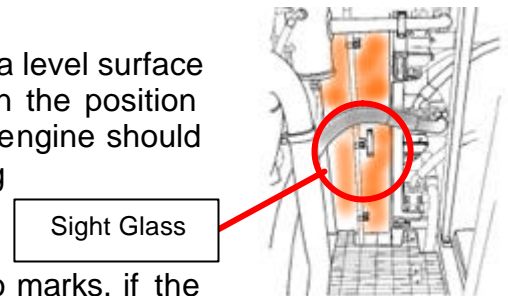
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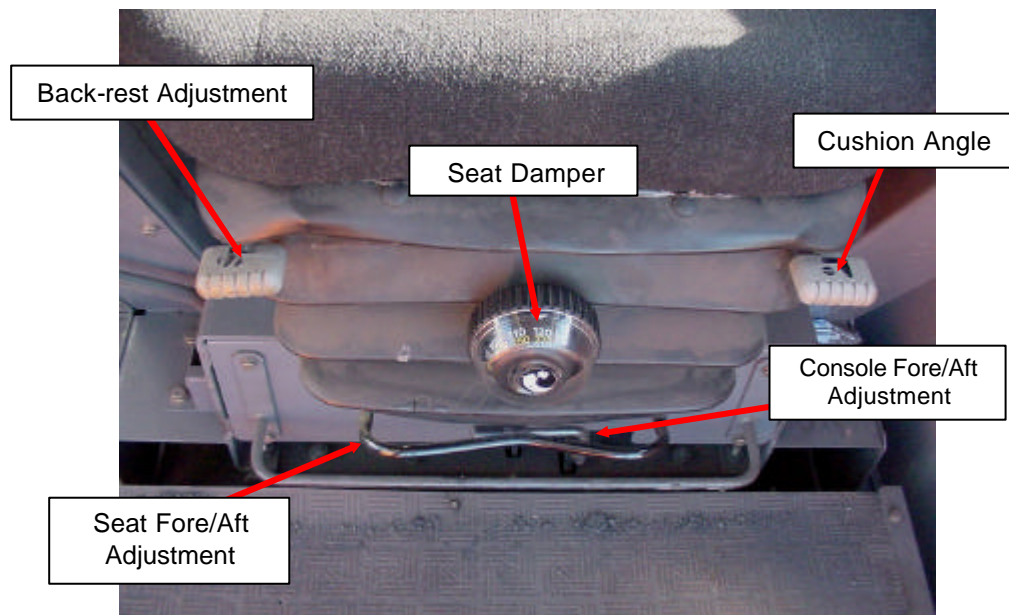
OPERATE EXCAVATOR

- **Hydraulic Oil Reservoir Level**

Ensure the excavator is parked on a level surface with the boom, stick and bucket in the position shown in the photo opposite. The engine should be stopped. Check the level using the sight glass located on the wall beside the cab steps. The oil level should be between the two marks, if the level is below the bottom mark add oil. Do not overfill.



2.2.3 Operator's Seat



- **Adjust Backrest**

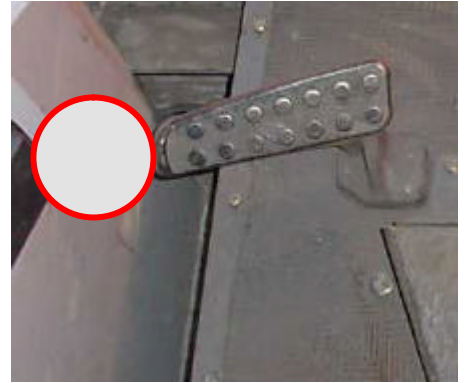
Pull the Back-rest Adjustment lever up while applying or relieving pressure on the back-rest.

- **Cushion Angle**

Both the front and rear sections of the base cushion can be adjusted by either lifting or lowering the cushion angle lever eg:

- **to adjust the rear part of the cushion**, pull the lever up while either applying or relieving pressure on the rear of the seat base.
- **to adjust the front part of the cushion**, push the lever down while either applying or relieving pressure on the front of the seat base.

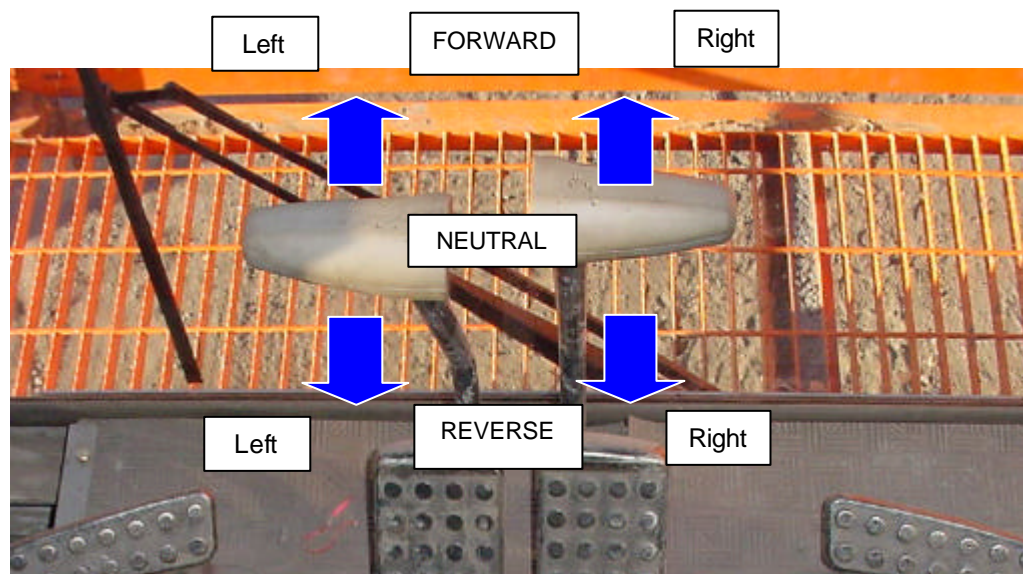
- **Working Lights Dip Switch** - A dip switch has been fitted to the excavator to allow the operator to turn off the lower work lights when trucks are approaching. The switch is located on the side of the operator cabinet, adjacent to the left foot rest.



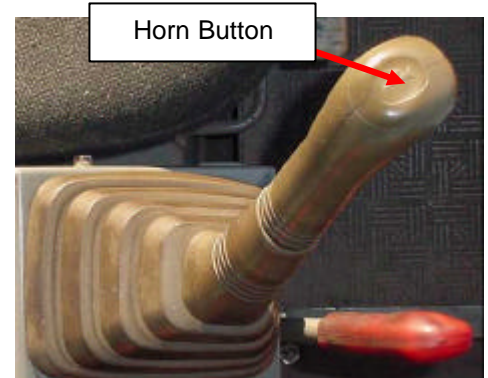
2.4.2 Hand Controls

The Travel Directional Levers – Follow the operation of the pedals as follows:

- **Forward** – Push both levers forward
- **Neutral** – Centralise the levers
- **Reverse** – Pull both levers back
- **Turn Right** – Push the left lever forward
- **Turn Left** – Push the right lever forward
- **Turn on Track Radius** – Push the right lever forward while pulling back on the left lever, or vice versa.





- **Horn Button** – is located on top of the left hand bucket control lever. To sound the horn press down on this button for the duration required.






2.4.5 Move the Excavator

After the engine has been started allow 5 minutes (minimum) warm up.

To move the excavator:

- Check that all the warning lights have gone out
- Unlock the Pilot Control Shut Off lever
- Lift the bucket
- Turn the park brake switch to OFF (to release the park brake)
- Select travel speed using the Travel Speed Switch. Slow speed (*turtle*) or fast speed (*rabbit*) can be selected by pushing the travel speed switch regardless of engine speed.  
- Sound the horn (twice (2) for forward) (three (3) times for reverse) – pause five (5) seconds

 WARNING	<p>Always stop the excavator before changing the travel mode speed.</p> <p>To decrease the travel speed, for travelling on a slope or in a tight space, press the switch to the <i>turtle</i> position. </p>
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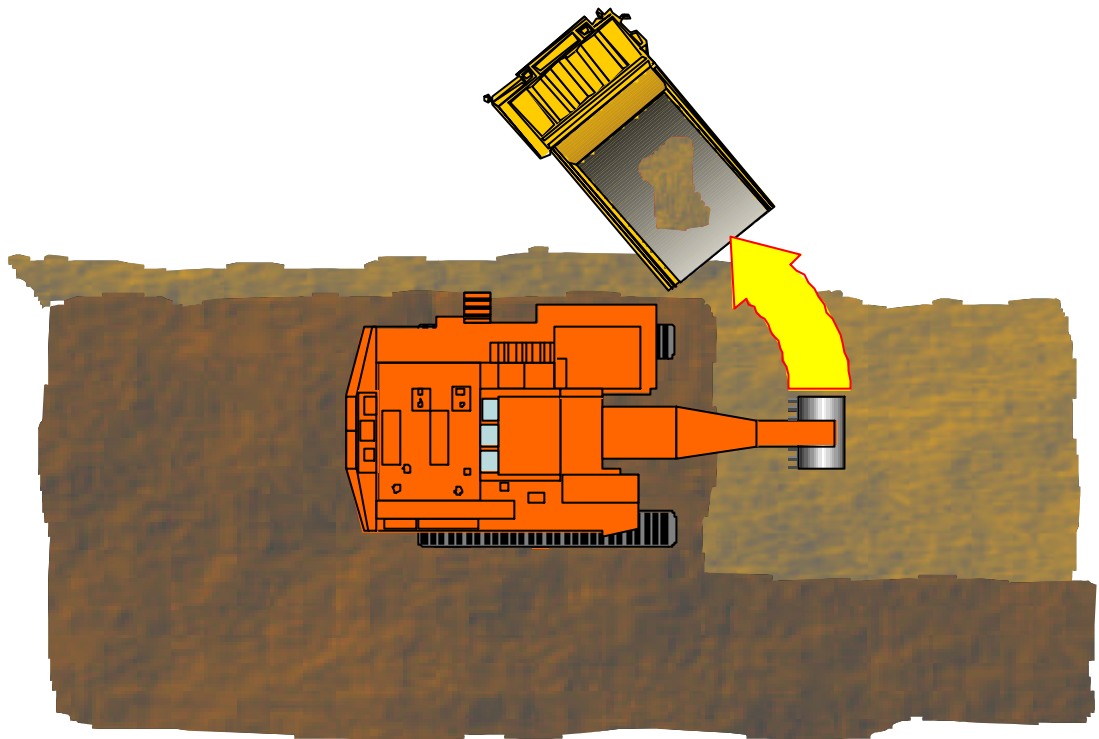
 NOTE	<p>Select a route that is as flat as possible. Steer the excavator as straight as possible making small, gradual changes in direction.</p>
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2.3.6 Through the Gate Loading

The excavator is positioned parallel to the face with the right track lined up along the cut line.

Trucks are positioned at an angle to the bench face and facing away to the left of the excavator.

The excavator swings from the dig zone to the left carrying the bucket through the gate of the truck before placing the material in the truck body.



The basic operation for through the gate loading is as follows:

- The excavator raises the load and positions it next at about 45° from the cut line
- The truck operator backs under the bucket
- The excavator sounds the horn when the truck is in the correct position or has reversed back sufficiently
- The excavator tips the load from the bucket.

Auxiliary Fire System Attachment (Deluge System)

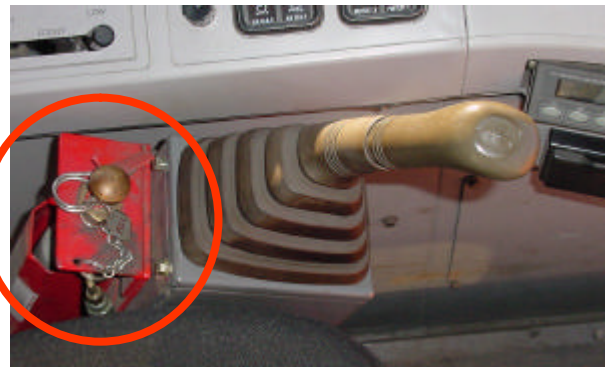
Additional foam/water can be supplied to the system through the attachment of a fire hose to the mobile equipment that is connected to the fire/rescue unit.




Fire Suppression System Operating Procedure

In the event of a fire, fire suppression system will actuate automatically if the fire is in the protected area. The fire suppression system can be manually operated as follows:

- Park the excavator
- Stop the engine (*to minimise the addition of fuel*)
- Remove the safety pin from the remote actuator
- Strike the knob firmly
- Evacuate the area and take a hand held fire extinguisher with you if possible.
- Call for help and stand watch over the excavator until help arrives. (*Even though the fire may be out, re-ignition could occur*)



 NOTE	<ol style="list-style-type: none"> i. Leaving the engine running may add fuel to the fire or restart the fire ii. React quickly so that the fire is caught before it gets too large. iii. Leave the immediate area to reduce the risk of being burnt by wind-blown flames or explosions iv. Someone should observe the excavator, at a safe distance, until the danger of re-ignition has passed. v. After a fire the excavator should be serviced and cleaned the fire investigated and the fire suppression system recharged.
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RELOCATE EXCAVATOR

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