# CX27B

## Compact Hydraulic Excavator

*PIN number PV13 - and higher*

# OPERATOR'S MANUAL

**Part number S2PV00037ZE01**
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CASE
CONSTRUCTION

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CHAPTER 3

# INSTRUMENTS AND CONTROLS

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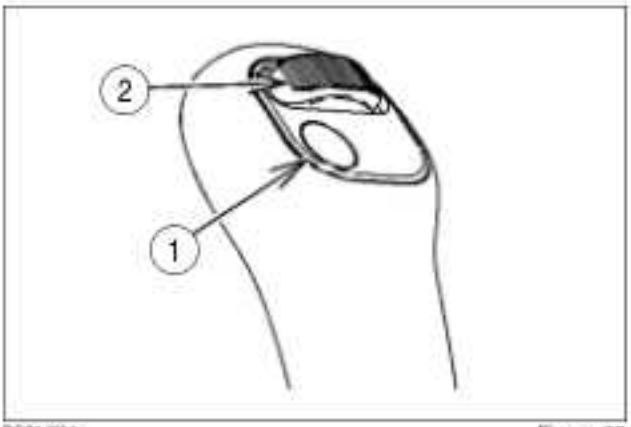

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BSD8J524 Figure 35

**OPTION SWITCH (BREAKER AND NIBBLER)**

The proportional option switch (9) for breaker and nibbler is on the grip of the right control lever. This switch is used for opening and closing the nibbler by sliding right and left.

Do not touch the breaker (1) operation switch (button) when using the nibbler.

**Operation of option switch 2**

Slide left - attachment turns to left

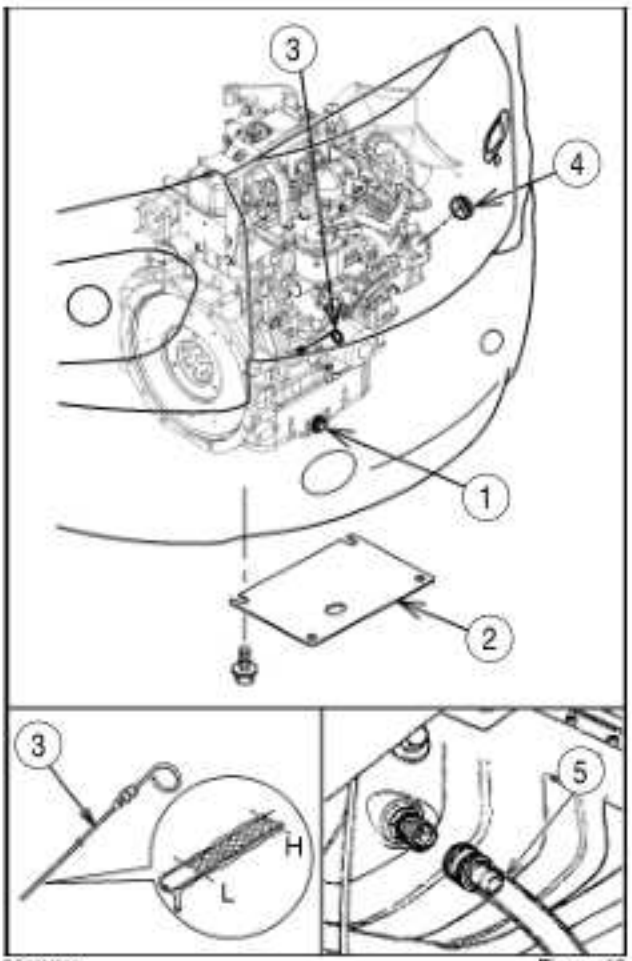
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# 250 HOUR MAINTENANCE

## ENGINE OIL LEVEL

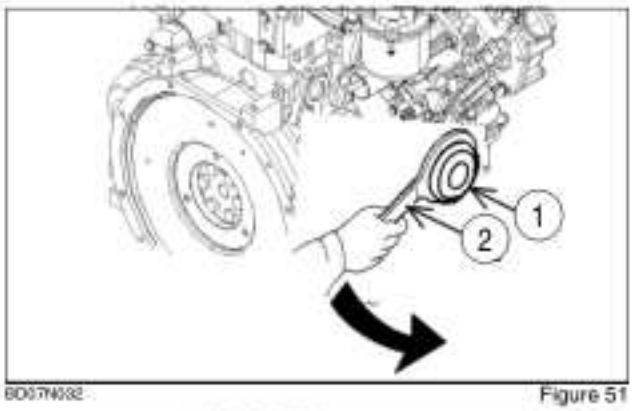



BS07N029

Figure 49
Figure 50

1. DRAIN CAP
2. COVER
3. DIPSTICK
4. OIL FILL CAP
5. DRAIN HOSE

1. Change oil and oil filter at 50 hour run-in period for a new machine, then at every 250 hours thereafter.
2. Move the machine to firm level ground and place the bucket/attachment on the ground. Turn the engine off. Raise the engine cover. Remove the dipstick to allow oil to run more freely.
3. Remove bolts and engine belly pan covers
4. Locate the engine oil drain plug and place an empty oil container [7 L (2 gal) capacity] under the plug. Attach the quick drain hose (5), and drain the oil into the container.
5. Remove engine oil drain plug and let the engine oil drain out completely.
6. After draining oil, remove drain hose, and tighten drain cap (1) securely. Remove any spilled oil.

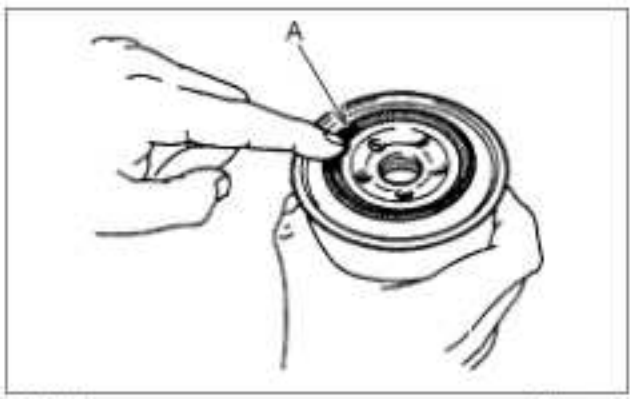



BO07N032

Figure 51

1. OIL FILTER
2. FILTER WRENCH

7. Use the filter wrench provided with the machine, and turn counter clockwise to remove the oil filter.




BO07N040

Figure 52

8. To install the oil filter, apply a thin coat of engine oil to the gasket (A) of the new oil filter, fill the filter partially with engine oil and then secure the filter by tightening 2/3 of a complete turn by hand after the gasket comes in contact with the oil filter head.

**NOTICE:** *Do not reuse the oil filter.*

9. Clean oil drain plug and install it. Tighten securely.
10. Check drained oil for any metal shavings, flakes, or particles. Contact your dealer if any debris is found.
11. Fill with the specified amount of oil through filler port (4) and install oil filler cap.
12. Before starting the engine, check oil level using the dipstick (3). The level should be between the L and H limits as shown. Start and run the engine for five minutes. Stop the engine and recheck the oil level after 30 minutes. Add oil if necessary.
13. Install cover (2) to its original position.



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## LIFTING CAPACITIES

1. Do not attempt to lift any load that exceeds the rated values at their specified load radii and height.
2. Lifting capacities assume a machine standing on a level, firm, and uniform supporting surface. Operator must make allowance for job conditions such as soft or uneven ground, out of level conditions, side loads, sudden stopping of loads, hazardous conditions, inexperienced personnel, weight of various other buckets, lifting slings, attachment, etc.
3. Rating at bucket lift hook.
4. The rated loads are in compliance with SAE Hydraulic Excavator Lift Capacity Standard J1097. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Rated loads marked with asterisk (*) are limited by hydraulic capacity rather than tipping load.
5. Capacities apply to the machine as originally manufactured and normally equipped by Case Construction.
6. If the excavator uses the same bucket size indicated in the Lifting Chart, and a lifting cable, etc. weighing 100 kg (220 lbs) is used for lifting, then you have to subtract this additional 100 kg (220 lbs) from every value indicated in the Lifting Chart accordingly.
7. *If a bucket is changed for a larger bucket, which weight is 350 kg (770 lbs) more than the bucket indicated in the Lifting Chart, then you have to subtract this additional weight from every value indicated in the Lifting Chart accordingly.*
8. *If a bucket is changed for a smaller bucket, which weight is 350 kg (770 lbs) less than the bucket indicated in the Lifting Chart, then you can add 350 kg (770 lbs) to every value indicated in the Lifting Chart accordingly.*

**NOTICE:** *The operator must consider the weight of any device utilized for lifting to properly calculate the total lifting capacity of the machine. Example:*



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