



# Service Repair Manual

## **Models**

# 308E2 Mini Hydraulic Excavator

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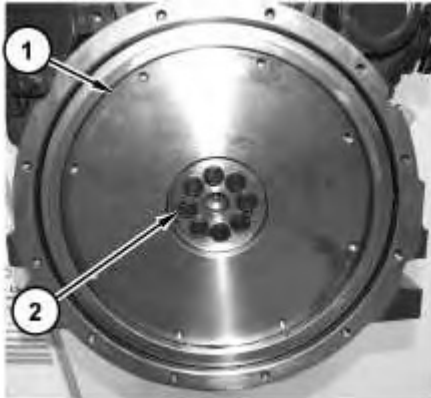
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## NOTICE

**Keep all parts clean from contaminants.**

**Contaminants may cause rapid wear and shortened component life.**

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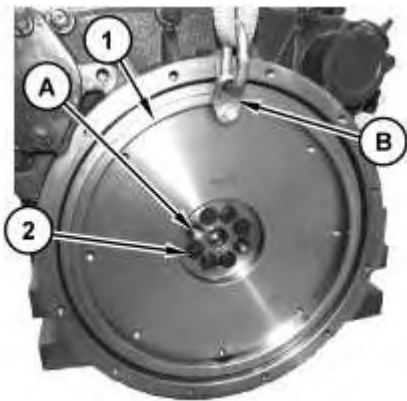


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Illustration 1

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1. Remove two bolts (2) from flywheel (1).
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Illustration 2

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2. Install Tooling (A) into the crankshaft.
  3. Install Tooling (B) and a suitable lifting device on flywheel (1). The weight of flywheel (1) is approximately 30 kg (66 lb).
  4. Remove remaining bolts (2).
  5. Remove flywheel (1) from the cylinder block.
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Illustration 3

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6. Inspect flywheel (1) and the ring gear (3) for wear and damage. Replace any worn components or damaged components.
7. If necessary, remove the flywheel ring gear (3), follow Step 7.a through Step 7.b.
  - a. Place the flywheel assembly on a suitable support.
  - b. Use a hammer and a punch in order to remove ring gear (3) from flywheel (1). If necessary, a torch may be needed to heat ring gear (3).

**Note:** Identify the orientation of the teeth on the flywheel ring gear (3).

## Installation Procedure

Table 2

Required Tools			
Tool	Part Number	Part Description	Qty
A	-	Guide Stud M12 - 1.25 by 100 mm	2
B	138-7573	Link Bracket	1

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Illustration 4

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**WARNING**

**Always wear protective gloves when handling parts that have been heated.**

1. If flywheel ring gear (3) was removed, follow Step 1.a through Step 1.c in order to install ring gear (3) to flywheel (1).

- a. Identify the orientation of teeth on new ring gear (3).

**Note:** The chamfered side of ring gear teeth must face toward the starting motor when the flywheel is installed. This position will ensure the correct engagement of the starting motor.

- b. Raise heat of flywheel ring gear (3) in an oven to a maximum temperature of 250 °C (482 °F) prior to installation.

**Note:** Do not use a torch to heat the ring gear.

- c. Ensure that the orientation of ring gear (3) is correct and quickly install the ring gear onto flywheel (1).



2. Install Tooling (B) and a suitable lifting device on flywheel (1). The weight of flywheel (1) is approximately 30 kg (66 lb).
3. Install Tooling (A) into the crankshaft.
4. Use the lifting device to position flywheel (1) onto Tooling (A).
5. Install bolts (2) to flywheel (1).
6. Remove Tooling (A).

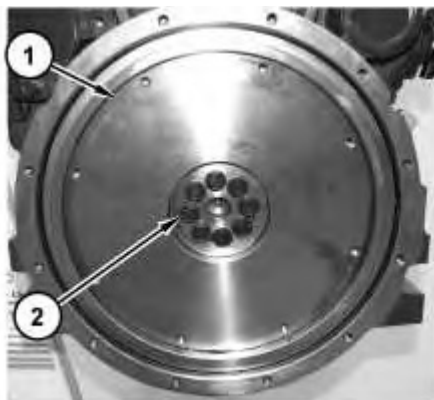


Illustration 6

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7. Install remaining bolts (2) to flywheel (1). Apply engine oil to bolts. Tighten bolts (2) to a torque of 98 to 107 N·m (72 to 80 lb ft).
8. Check the run out of the flywheel. Refer to Specifications, "Flywheel" for further information.

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