

Flywheel - Remove

SMCS - 1156-011

Removal Procedure

Start By:

- a. Remove the starting motor.



Illustration 1

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1. Remove bolts (1). Remove cover (2).
-

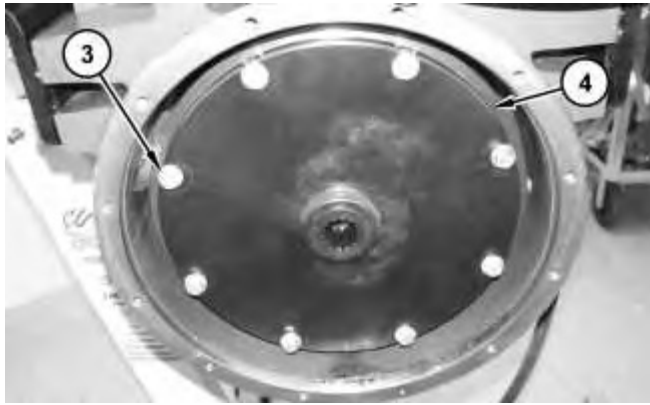


Illustration 2

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2. Remove bolts (3). Remove pump coupling (4).



Illustration 3

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3. Mark the position of the flywheel assembly on the crankshaft.
4. Attach a suitable lifting device to flywheel assembly (5). The weight of flywheel assembly (5) is approximately 23 kg (50 lb).
5. Remove bolts (6). Remove flywheel assembly (5).

Note: Do not use an impact wrench to remove bolts (6).

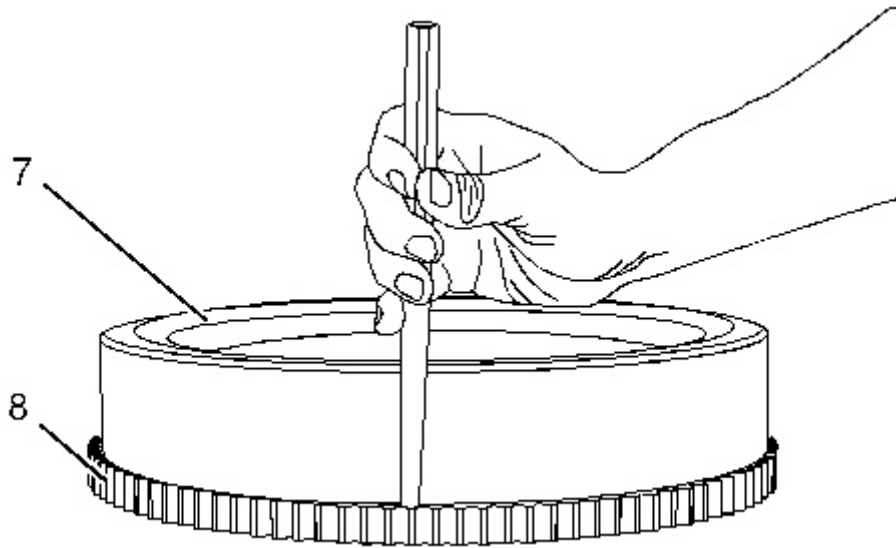


Illustration 4

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Typical example

6. Inspect ring gear (7) and flywheel (8) for wear or damage. If the ring gear or the flywheel is worn or damaged, use new parts for replacement.
7. To remove ring gear (7) from flywheel (8), place the flywheel on a suitable support. Use a hammer and a punch to remove the ring gear from the flywheel.

Flywheel - Install

SMCS - 1156-012

Installation Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	9U-7994	Guide Bolt	2



WARNING

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

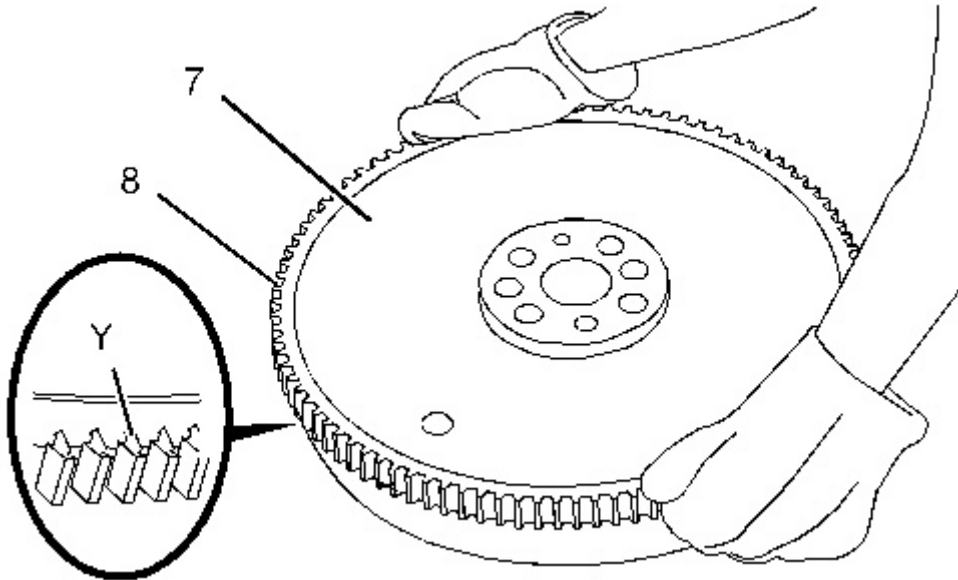


Illustration 1

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Typical example

1. If the ring gear was removed, follow Steps 1.a through 1.c to install ring gear (7) to flywheel (8).
 - a. Identify the orientation of the new ring gear in order to install the ring gear correctly onto the flywheel.

Note: The chamfered side of gear teeth (Y) must face toward the starting motor when the flywheel is installed. This will ensure the correct engagement of the starting motor.
 - b. Heat ring gear (3) in an oven to a maximum temperature of 150°C (302°F) prior to installation.

Note: Do not use a torch to heat the ring gear.
 - c. Ensure that the orientation of ring gear (7) is correct and quickly install the ring gear onto flywheel (8).



Illustration 2

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2. Thoroughly clean the flywheel housing. Inspect the crankshaft rear seal for leaks. If there are any oil leaks replace the crankshaft rear seal. Refer to Disassembly and Assembly, "Crankshaft Rear Seal - Remove and Install".
3. Install Tooling (A) on the crankshaft.
4. Use a suitable lifting device to position flywheel assembly (5). The weight of flywheel assembly (5) is approximately 23 kg (50 lb).
5. Align flywheel assembly (5) with Tooling (A). Install flywheel assembly (5) to the crankshaft.

Note: Ensure the correct orientation of the flywheel on the crankshaft.

6. Apply clean engine oil onto bolts (6). Install bolts (6) finger tight.
7. Remove Tooling (A) and install the two remaining bolts (6).
8. Remove the lifting device from the flywheel.
9. Use a suitable tool to prevent flywheel assembly (5) from rotating. Tighten bolts (6) to a torque of 98.1 to 107 N·m (72 to 79 lb ft).
10. Check the concentricity of the flywheel. Refer to Systems Operation, Testing and Adjusting, "Flywheel - Inspect".

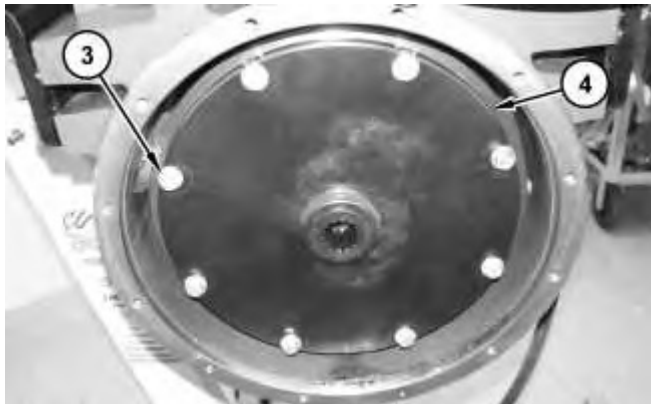


Illustration 3

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11. Install pump coupling (4). Install bolts (3).



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