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Service Information Bulletin

SUBJECT	DATE
Flywheel, Ring Gear and Flywheel Housing	September 2014

Additions, Revisions, or Updates

Publication Number / Title	Platform	Section Title	Change
DDC-SVC-MAN-0081	DD Platform	Removal of the Flywheel Housing	Added instructions for the vehicle side of the procedure.
		Installation of the Flywheel Housing	



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2 Removal of the Flywheel Housing

Remove as follows:



WARNING: PERSONAL INJURY

To avoid injury, never remove any engine component while the engine is running.



WARNING: PERSONAL INJURY

To avoid injury from hot surfaces, wear protective gloves, or allow engine to cool before removing any component.

1. Remove the transmission. Refer to appropriate vehicle Service Manual.
2. Drain engine oil and remove the oil pan.
3. Remove the doser injector feed line.
4. Remove the Crankshaft Position (CKP) sensor. Refer to section "Removal of the Crankshaft Position Sensor"
5. Remove the flywheel. Refer to section "Removal of the Flywheel"
6. Remove two bolts securing exhaust pipe bracket to flywheel housing.
7. For the DD15 and DD16; remove the clamp from the exhaust pipe and the axial power turbine and then remove exhaust pipe.



WARNING: BODILY INJURY

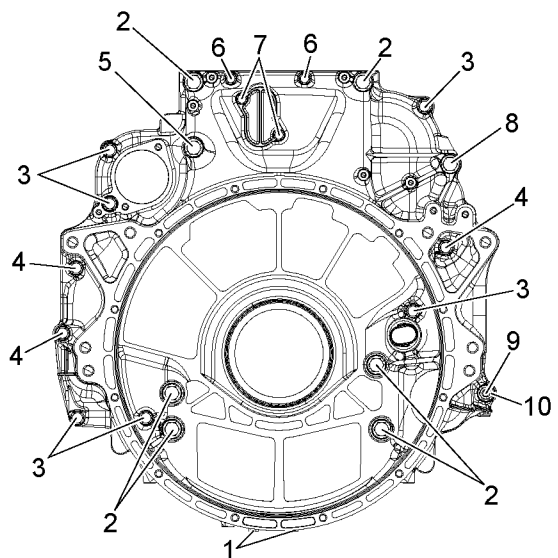
To avoid injury from a falling component, ensure an appropriately rated lifting device is used. Moving the component without an appropriately rated lifting device could result in the component falling, which could cause serious personal injury and component damage. Never stand beneath a suspended load.

8. Support the engine by placing suitable jack stands under the cylinder block pan rails. Make sure not to damage the sealing surfaces of the oil pan rails.
9. Remove the rear engine mounts from the flywheel housing. Refer to the applicable vehicle Service Manual.
10. Thread two guide stud tools (J-43431) for the 14 mm bolts, into the cylinder block.
11. Remove the remainder of the bolts that secure the flywheel housing to the cylinder block.
12. Strike the front face of the housing alternately on each side with a soft hammer to loosen and work it off the dowel pins.
13. Remove and discard the flywheel housing gasket.
14. Remove all sealing material from the flywheel housing.

3 Installation of the Flywheel Housing

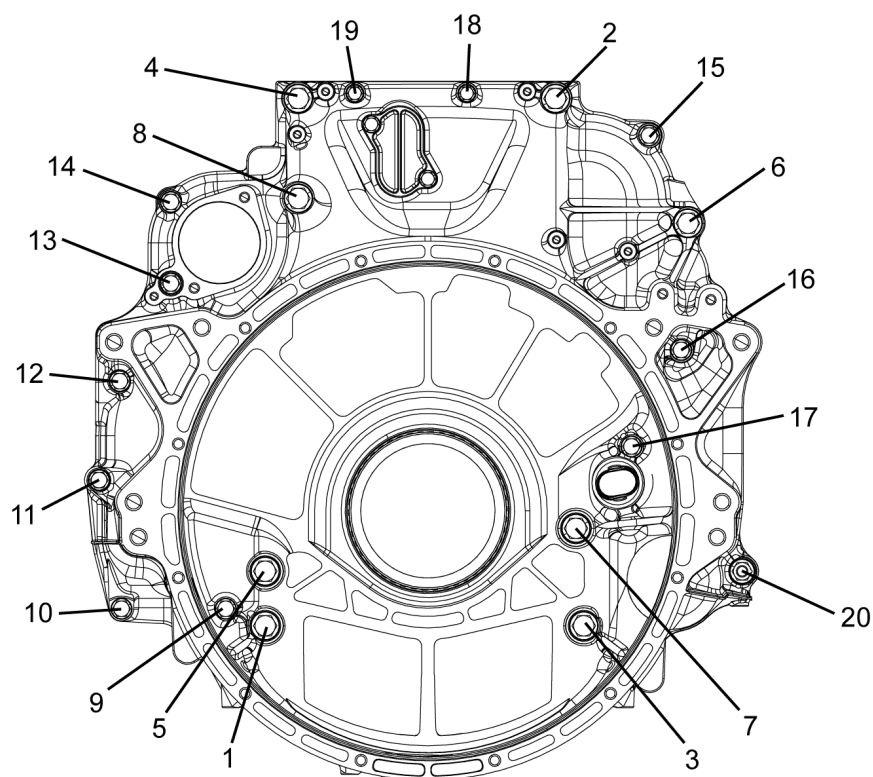
Install as follows:

1. Ensure the sealing surface on the housing and engine is clean and free of any debris.
2. Install a new gasket.
3. Install the flywheel housing and all of the housing bolts in their proper location; finger-tighten them.



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1. Bolt, M8 x 16 (2 qty.)
 2. Bolt, M14 x 1.5 x 90 (6 qty.)
 3. Bolt, M10 x 45 (6 qty.)
 4. Bolt, M10 x 90 (3 qty.)
 5. Bolt, M14 x 1.5 x 180 (1 qty.)
 6. Bolt, M8 x 45 (2 qty.)
 7. Bolt, M8 x 30 (2 qty.)
 8. Bolt, M14 x 1.5 x 70 (1 qty.)
 9. Stud, (1 qty.)
 10. Nut, M12-10 (1 qty.)
4. Remove the guide studs.
 5. Torque the flywheel housing bolts using the sequence and torque shown.



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1. Torque bolts (1-8) to 190 N·m (140 lb·ft)
2. Torque bolts (9-18) to 34 N·m (25 lb·ft)
3. Torque nut (20) to 100 N·m (74 lb·ft)
6. Install the rear engine mounts to the flywheel housing. Refer to appropriate vehicle Service Manual.
7. Remove the jack stands and any other supports used to support the engine.
8. Inspect the crankshaft rear main oil seal. If any damage is found, replace as necessary.
9. Install the flywheel. Refer to section "Installation of the Flywheel".
10. For the DD15 and DD16; install the exhaust pipe and bracket to the flywheel housing and axial power turbine. Install two bolts into the bracket and flywheel housing. Install a clamp onto the exhaust pipe and axial power turbine.
11. Install the Crankshaft Position (CKP) sensor. Refer to section "Installation of the Crankshaft Position Sensor".
12. Install the oil pan and fill the engine with oil.
13. Prime the lubrication system. Refer to section "Priming the Engine Lubrication System".
14. Install the transmission. Refer to appropriate Vehicle Service Manual.