Torque - Minimum tightening torques for normal assembly

METRIC NON-FLANGED HARDWARE

NOM. SIZE			LOCKNUT CL 8	LOCKNUT CL 10

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Engine - Service instruction - Finding Top Dead Center (TDC)

For engines with access to the timing hole in the flywheel housing

1. Fit the tool **380000150** through the case **(1)** and into the port on the flywheel, as shown.

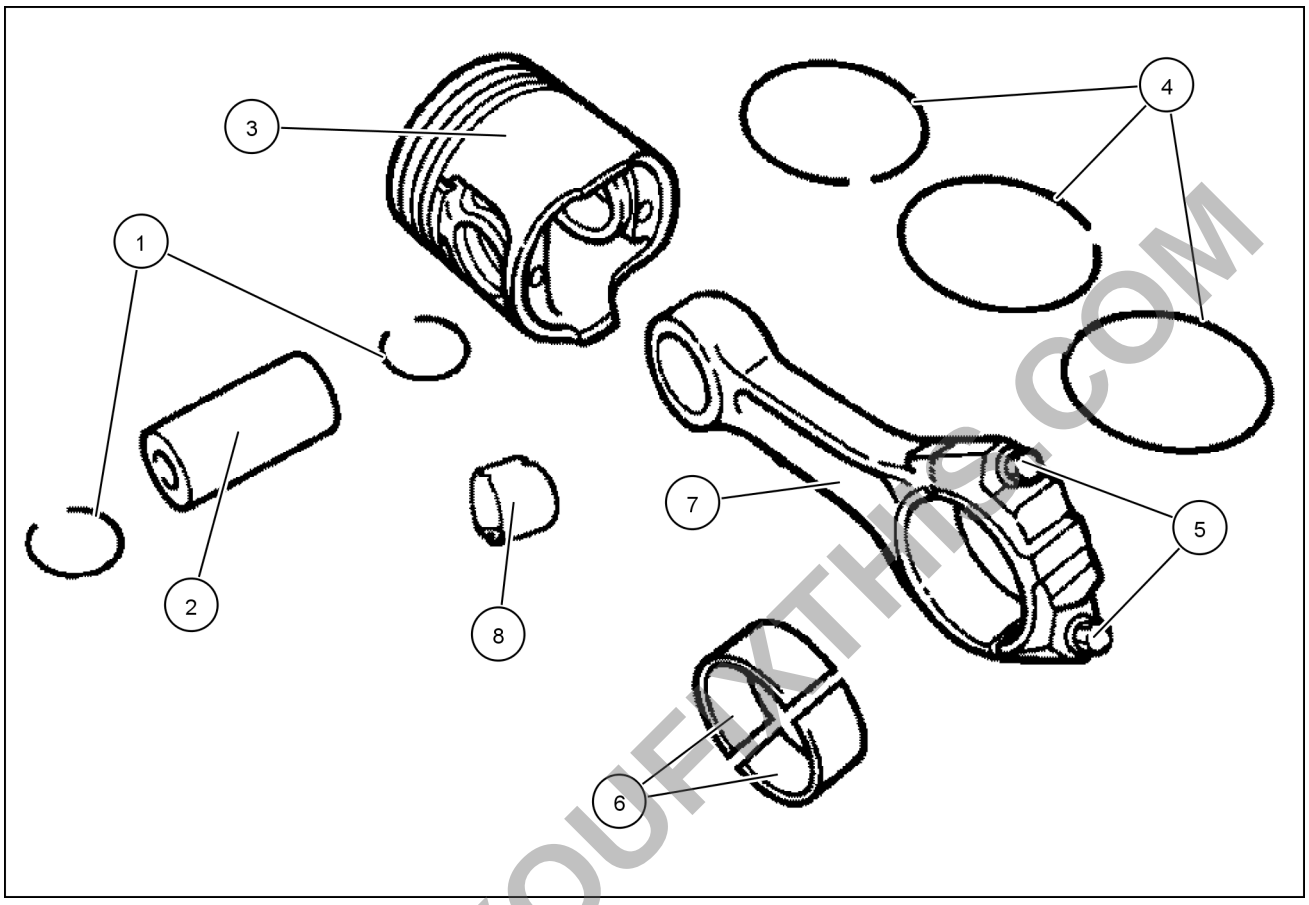


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Connecting rod and piston - Exploded view



73092848A 1

(1) Snap ring
(2) Pin
(3) Piston
(4) Piston rings
(5) Bolts
(6) Half bearings
(7) Connecting rod
(8) Bushing

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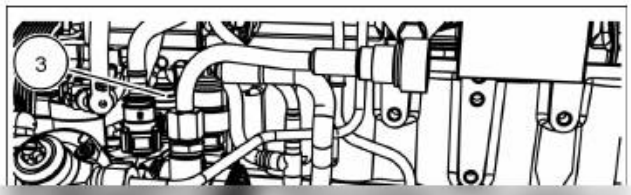
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8. Connect the fuel return lines **(2)** and **(3)**.
9. Install the fuel return manifold **(1)**.



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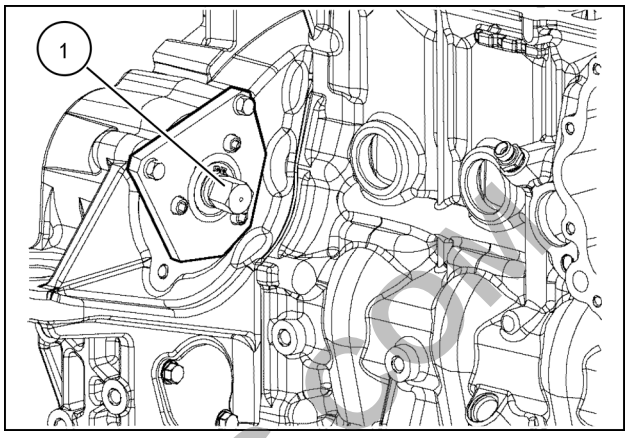
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Engine flywheel - Remove

1. Install tool **380000732 (1)** in the flywheel housing to lock the flywheel rotation.

NOTE: *On some applications, tool* ***380000988*** *may be required to mount tool* ***380000732*** *to the starter flange on the flywheel housing.*

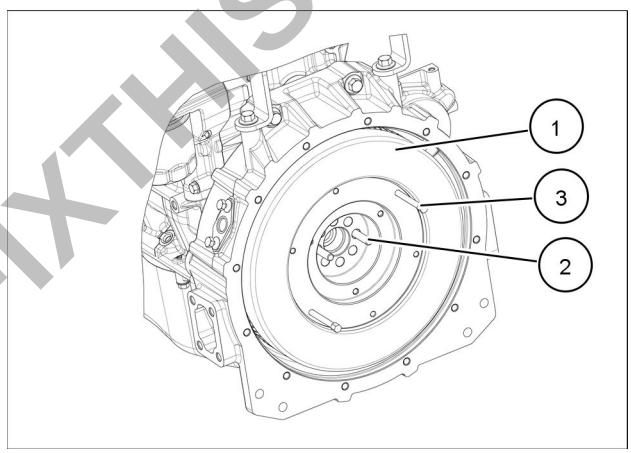


73092772 1

2. Loosen the flywheel **(1)** mounting bolts.

NOTE: *Do not remove the bolts at this point.*

3. Install two medium length bolts into the threaded holes **(3)** in order to attach a lifting device.
4. Remove two mounting bolts and install guide pins **(2)** in their place.
5. Attach a lifting device.
6. Remove the remaining mounting bolts.
7. Slide the flywheel along the guide pins.
8. Remove the flywheel from the engine.



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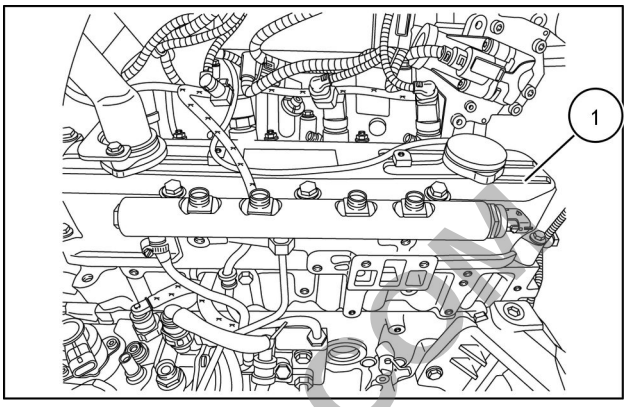
Next operation:
Engine flywheel - Install (10.103)

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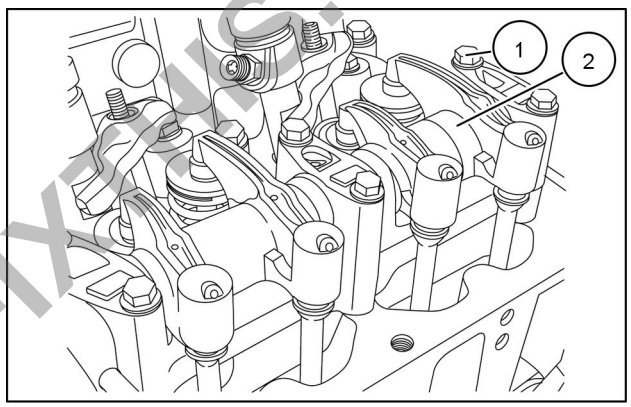
Rocker arm - Remove

1. Remove the valve cover **(1)**. Refer to **Valve cover - Remove (10.101)** for the proper procedure.



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2. Remove the bolts **(1)**.
3. Remove the rocker assembly **(2)**.



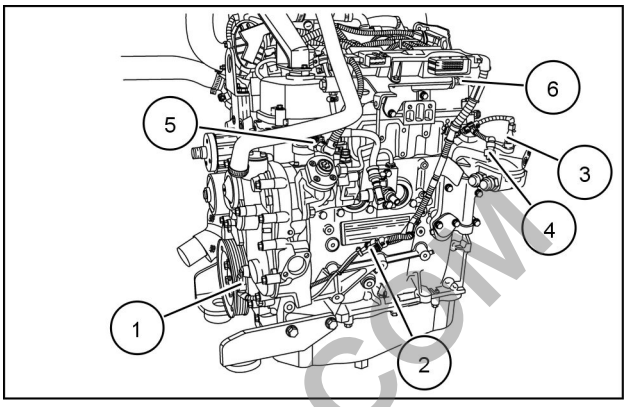
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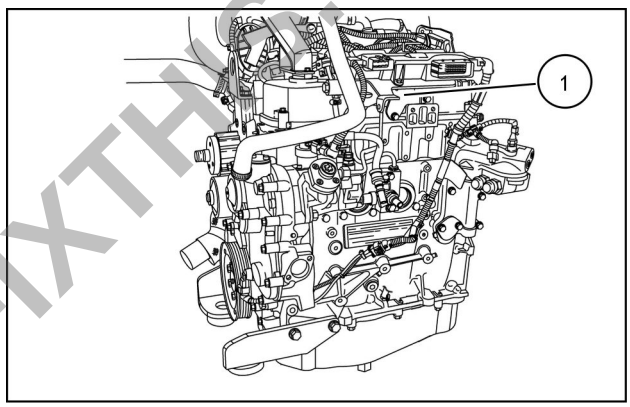
High pressure pump - Remove

1. Disconnect the electrical connections and wire ties from the following components:
   - Camshaft speed sensor **(1)**
   - Crankshaft speed sensor **(2)**
   - Oil pressure sensor **(3)**
   - Fuel temperature sensor **(4)**
   - Fuel heater (if equipped)
   - High pressure pump metering unit **(5)**
   - Fuel pressure sensor **(6)**



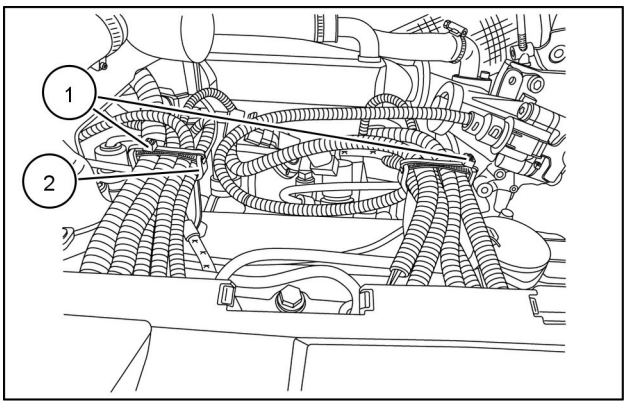
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2. Unbolt the main connector bracket **(1)**.



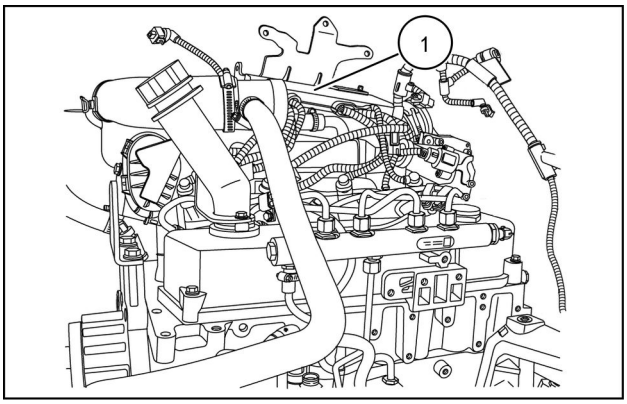
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3. Cut the wire ties **(1)**.



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4. Drape the wiring harness **(1)** over the Exhaust Gas Recirculation (EGR) cooler.



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Engine - 10

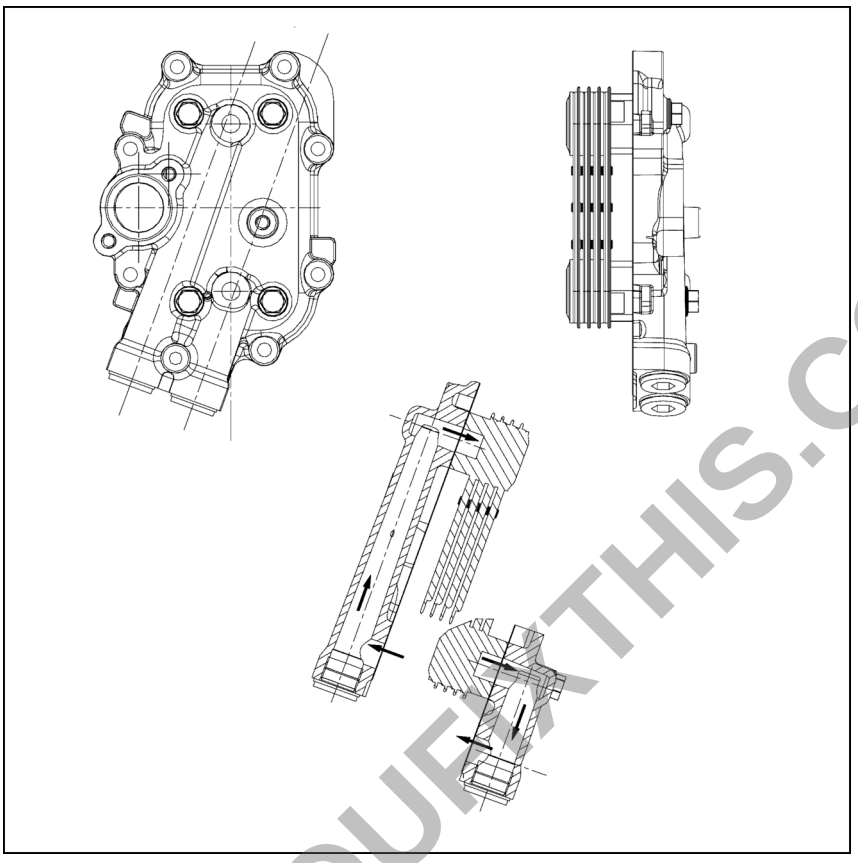
Intake and exhaust manifolds and muffler - 254

Exhaust manifold - Install 8
Exhaust manifold - Remove 7
Intake manifold - Install 4
Intake manifold - Install - Spacer 6
Intake manifold - Remove 3
Intake manifold - Remove - Spacer 5

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Engine oil cooler - Overview



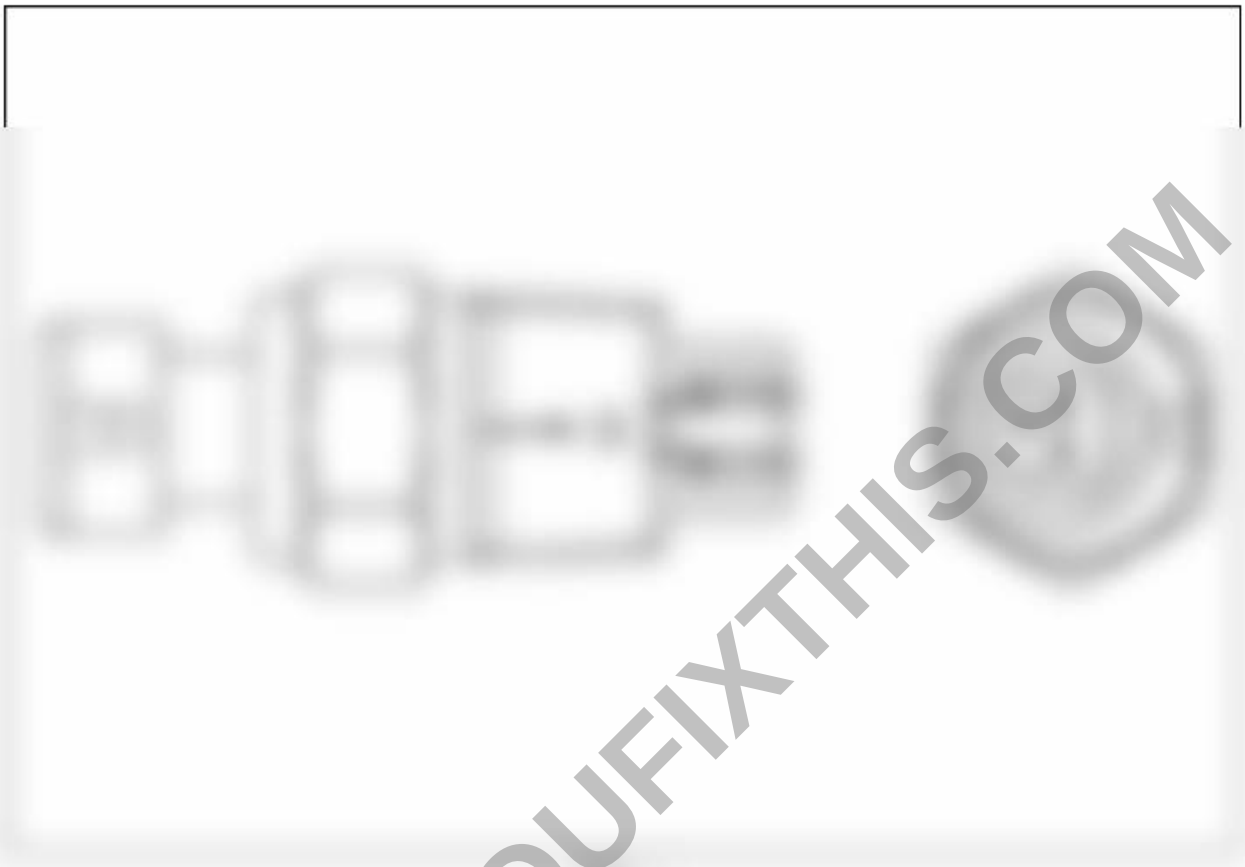
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The oil cooler circulates engine oil through cooling plates that sit in a coolant passage on the right hand side of the engine. This process transfers heat from the engine oil to the engine coolant.

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Engine coolant temperature sensor - Overview



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