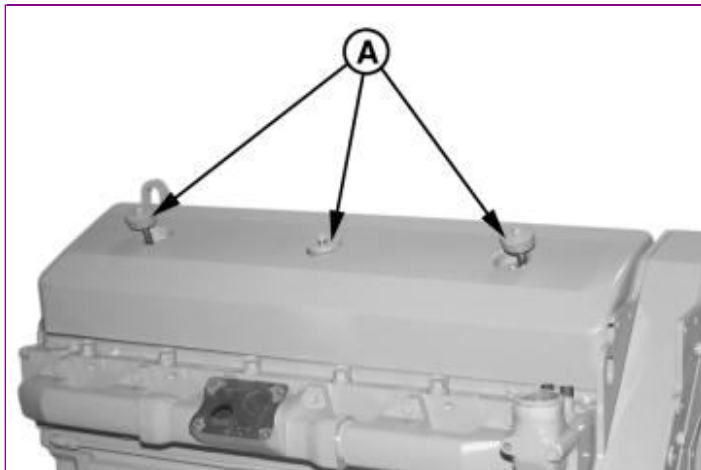


## CTM100 - 10.5 L and 12.5 L Diesel Engines Base Engine Remove and Install Rocker Arm Cover

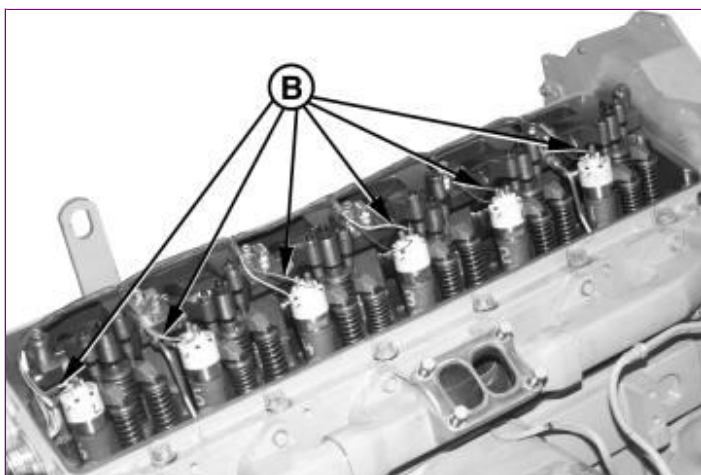
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### Remove and Install Rocker Arm Cover

#### Remove Rocker Arm Cover



RG8173-UN: Isolators



RG8818-UN: Unit Injector Wiring

#### LEGEND:

A - Isolators

B - Unit Injector Wiring

1. Remove air intake cross-over tube (shown removed).

2. **NOTE:**

*Turbocharger is removed for photographic purposes only. It is not necessary to remove turbocharger for rocker arm cover removal.*

Remove center hold-down cap screw with isolator.

3. Remove two outside cap screws with isolators (A), and thread cap screws into rocker arm cover as shown.

#### **NOTE:**

*Rocker arm cover gasket is reusable if no visible damage is detected. Do not store cover resting*

*on gasket surface.*

4. Lift rocker arm cover off engine.

## **Install Rocker Arm Cover      IMPORTANT:**

**Always check routing of unit injector wiring (B) before installing rocker arm cover. Wiring should be positioned so that rocker arms never contact wire.**

1. Inspect rocker arm cover gasket to ensure that gasket is properly seated in groove and that contact face is clean.
2. Position rocker arm cover onto two locating dowels in cylinder head.
3. Install center hold-down cap screw with isolator. Tighten to specifications.

Item	Measurement	Specification
[Rocker Arm Cover Hold-Down Cap ScrewsTighten center cap screw first, then tighten sides.]	Torque	30 N·m (22 lb-ft)

4. Install two outside hold-down cap screws with isolators. Tighten to specifications.

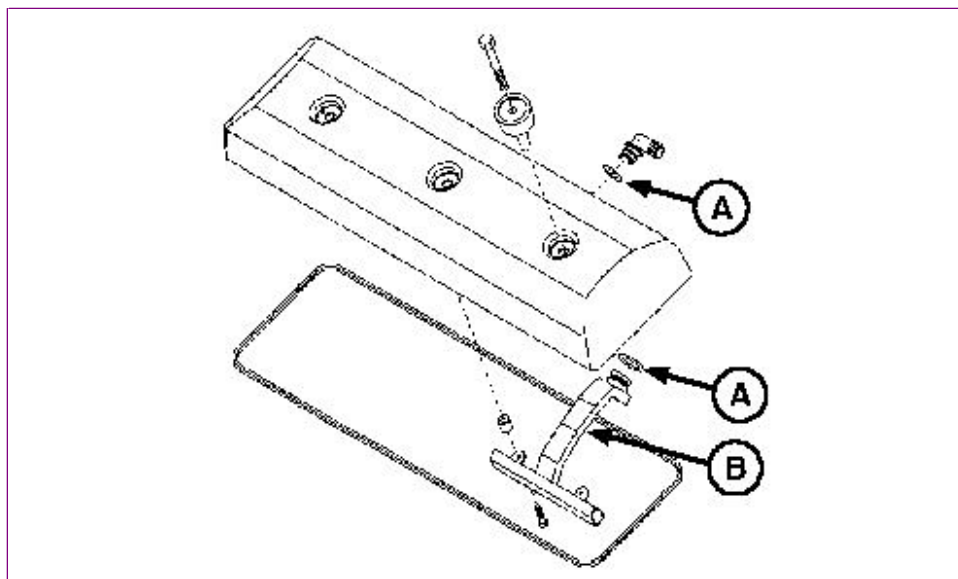
Item	Measurement	Specification
[Rocker Arm Cover Hold-Down Cap ScrewsTighten center cap screw first, then tighten sides.]	Torque	30 N·m (22 lb-ft)

5. Install air intake cross-over tube and tighten connections securely.

## CTM100 - 10.5 L and 12.5 L Diesel Engines Base Engine Clean and Inspect Crankcase Ventilation Assembly

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### Clean and Inspect Crankcase Ventilation Assembly



RG10242-UN: Crankcase Ventilation Assembly

#### LEGEND:

A - O-Rings

B - Ventilator Assembly

1. Remove ventilation outlet tube from rocker arm cover (shown removed).
2. **NOTE:**

*Ventilator assembly-to-rocker cover self-tapping cap screws have been replaced by flange head cap screws with pre-applied sealant. Discard old self-tapping cap screws and replace with new cap screws.*

Remove two cap screws securing ventilator assembly (B) to cover and remove.

3. Clean ventilator assembly in solvent and dry with compressed air.
4. Install ventilator assembly in reverse order of removal. Replace O-rings (A) as necessary.
5. Tighten ventilator assembly-to-rocker arm cover cap screws to specifications.

Item	Measurement	Specification
Crankcase Vent Baffle-to-Rocker Arm Cover Cap Screws	Torque	15 N·m (11 lb-ft) (133 lb-in.)

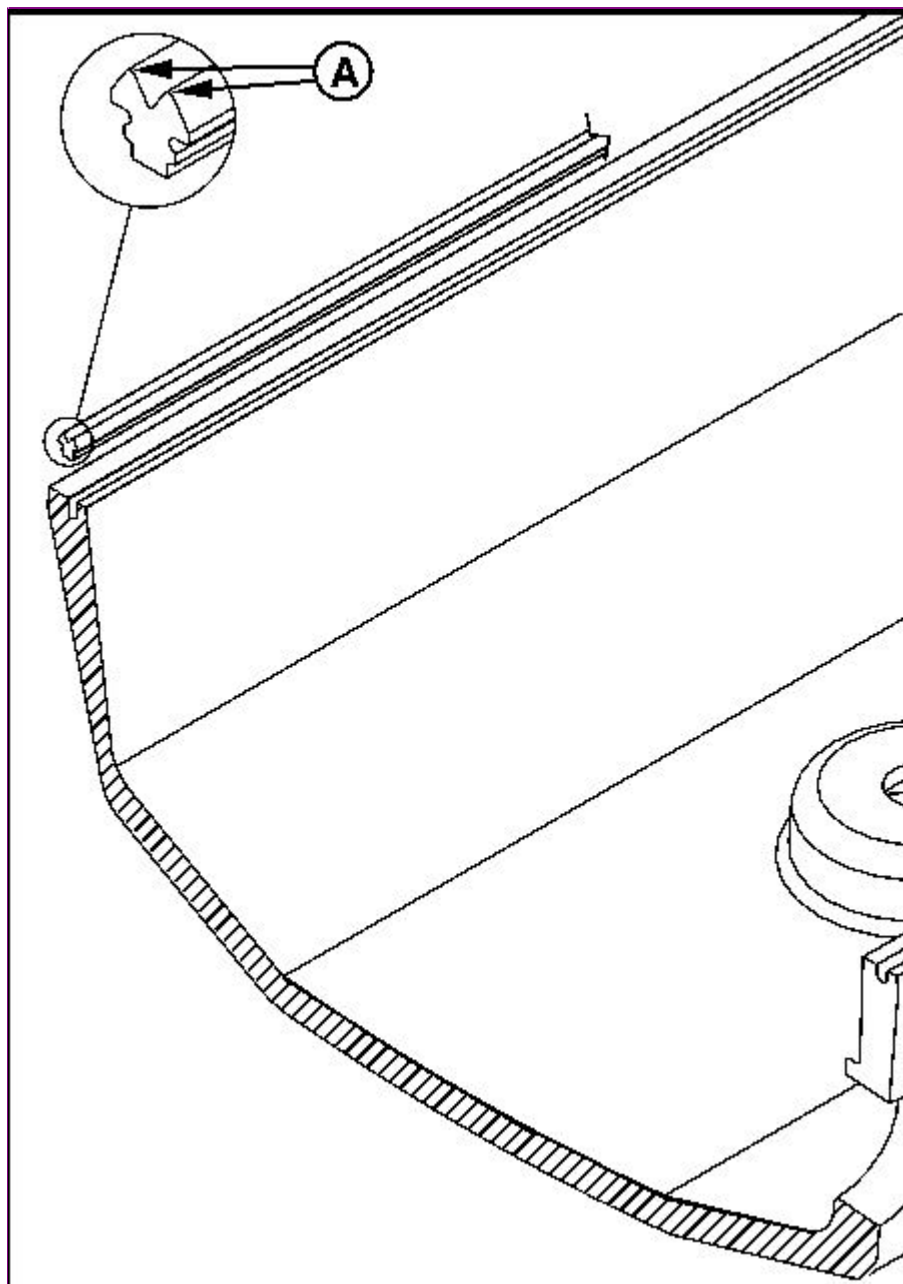
6. Install ventilator outlet tube onto elbow attached to rocker arm cover.

## CTM100 - 10.5 L and 12.5 L Diesel Engines Base Engine

### Replace Rocker Arm Cover Gasket

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#### Replace Rocker Arm Cover Gasket



RG8784-UN: Replacing Rocker Arm Cover Gasket

#### LEGEND:

A - Gasket Double Lips

1. Remove rocker arm cover. (See [REMOVE AND INSTALL ROCKER ARM COVER](#) earlier in this group.)
2. Remove existing gasket from cover and discard. Clean gasket groove as needed.
3. Position new gasket at two front corners of cover with double lips (A) of gasket facing up.
4. **IMPORTANT:**

**DO NOT stretch gasket while seating in groove of cover.**

Seat gasket on front side of cover and proceed around entire cover gasket groove using a deep-well socket.

5. Re-seat gasket again (especially in corners) after entire gasket is installed in groove.

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