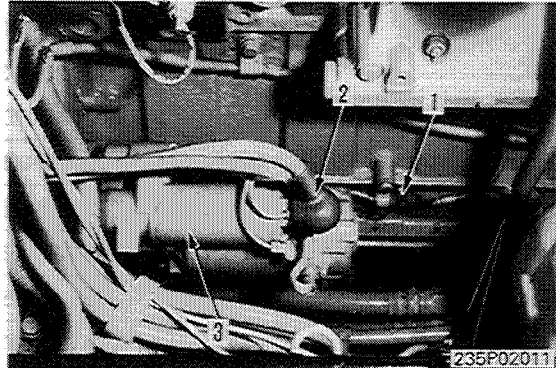


REMOVAL OF STARTING MOTOR ASSEMBLY

⚠ Disconnect the cable from the negative (−) terminal of the battery.

1. Disconnect connector (1).
2. Disconnect wiring (2).
3. Remove starting motor assembly (3).



INSTALLATION OF STARTING MOTOR ASSEMBLY

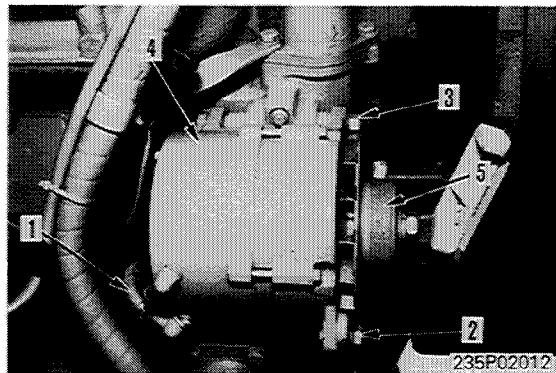
- Carry out installation in the reverse order to removal.

REMOVAL OF ALTERNATOR ASSEMBLY

Serial No.: 11001 – 12000

⚠ Disconnect the cable from the negative (−) terminal of the battery.

1. Disconnect 3 alternator wires (1).
2. Remove bolt (2) of adjustment plate, then loosen mount bolt and nut (3).
3. Move alternator assembly (4) towards cylinder block, then loosen belt tension, and remove belt (5) from alternator assembly.
4. Remove mount bolt and nut (3), then remove alternator assembly. **※ 1**



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INSTALLATION OF ALTERNATOR ASSEMBLY

Serial No.: 11001 – 12000

- Carry out installation in the reverse order to removal.

※ 1

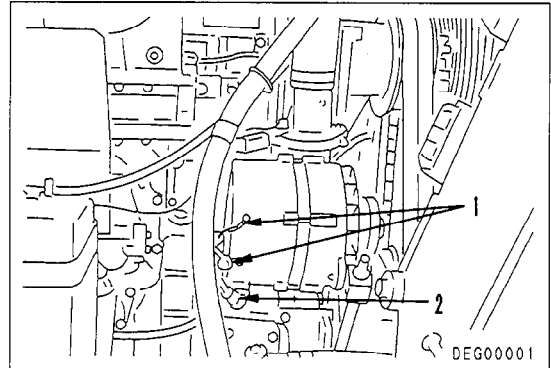
- Adjust the fan belt tension.
For details, see TESTING AND ADJUSTING, table of judgement standard value.

REMOVAL OF ALTERNATOR ASSEMBLY

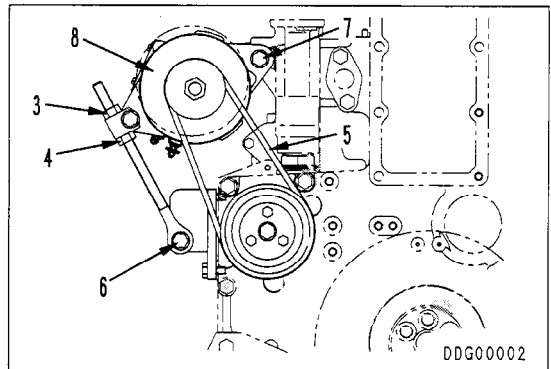
Serial No.: 12001 and up

⚠ Disconnect the cable from the negative (-) terminal of the battery.

1. Open engine side cover.
2. Disconnect alternator wiring (1) and (2).



3. Remove locknut (3), and turn adjustment nut (4), then remove V-belt (5). ※ 1
4. Remove mounting bolts (6) and (7), then remove alternator assembly (8).



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INSTALLATION OF ALTERNATOR ASSEMBLY

Serial No.: 12001 and up

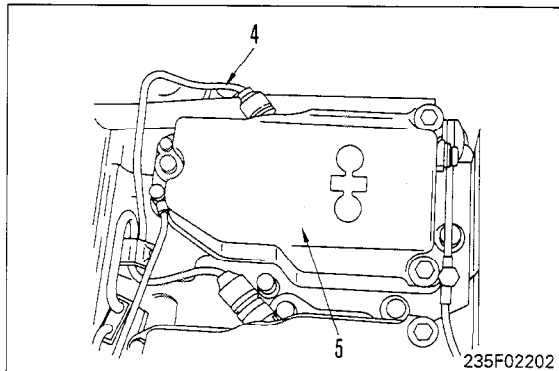
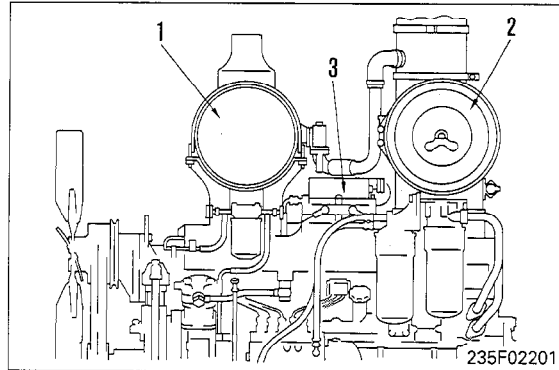
- Carry out installation in the reverse order to removal.

※ 1

- ★ After installing the V-belt, adjust the tension of the belt.
For details, see TESTING AND ADJUSTING, "Testing and adjusting of belt tension".

REMOVAL OF NOZZLE HOLDER ASSEMBLY

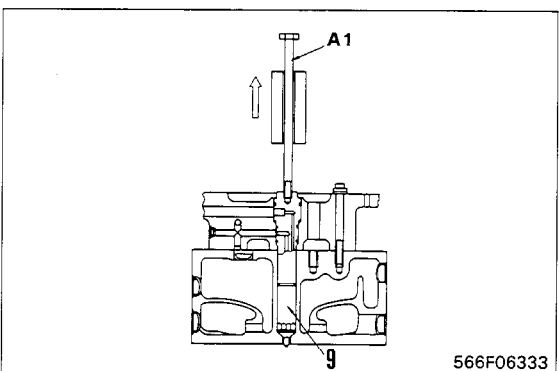
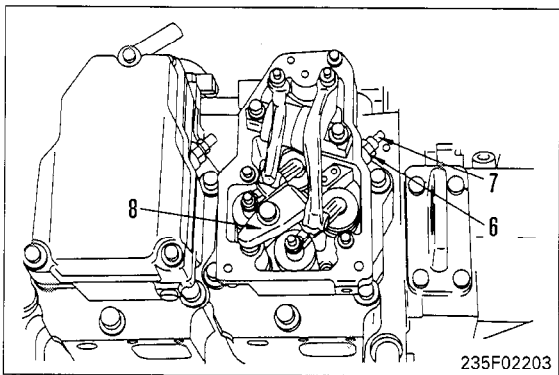
1. Remove engine hood, then remove muffler assembly (1), air cleaner assembly (2), and intake connector (3).
2. Disconnect delivery tube (4). ※ 1
3. Remove cover (5). ※ 2
4. Loosen locknut (6). ※ 3
5. Remove connector (7). ※ 4
6. Remove holder (8). ※ 5
7. Use a slide hammer, or screw in bolt (Thread dia. = 10 mm, Pitch = 1.5 mm), then remove nozzle holder (9) using a bar.



INSTALLATION OF NOZZLE HOLDER ASSEMBLY

- Carry out installation in the reverse order to removal.

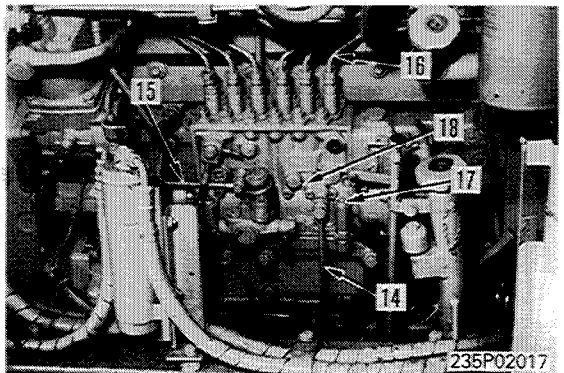
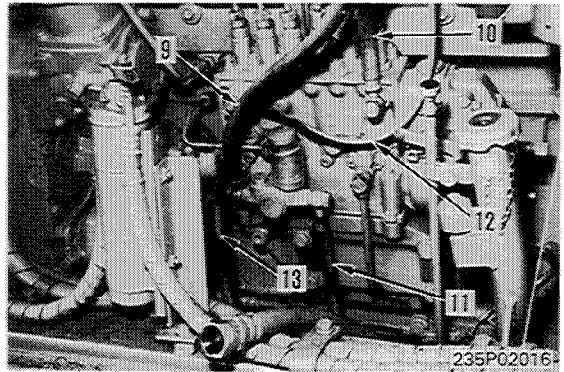
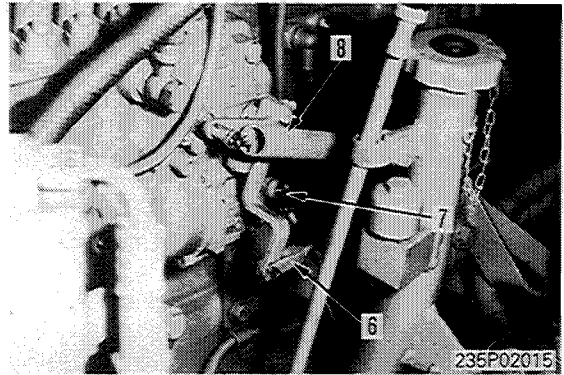
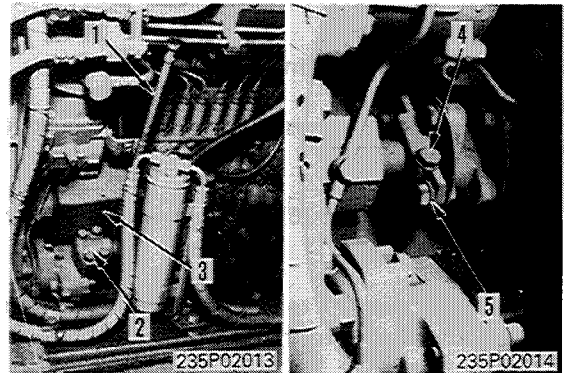
- ※ 1 kgm Sleeve nut: 23.5 ± 1.0 Nm (2.4 ± 0.1 kgm)
- ※ 2 kgm Mounting bolt: 4.9 ± 1.0 Nm (0.5 ± 0.1 kgm)
- ※ 3 kgm Locknut: 36.8 ± 2.5 Nm (3.75 ± 0.25 kgm)
- ※ 4 kgm Connector: 36.8 ± 2.5 Nm (3.75 ± 0.25 kgm)
- ※ 5 kgm Mounting bolt: 66.2 ± 7.4 Nm (6.75 ± 0.75 kgm)



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REMOVAL OF FUEL INJECTION PUMP ASSEMBLY

1. Open engine right side cover.
2. Remove oil gauge pipe (1), hose flange (2), and rotation guard (3).
 - ★ When removing the rotation guard, be careful not to let the spacer on the inside fall out.
3. Remove coupling lock bolt (4), then remove bolt (5), and disconnect coupling. ※ 1
4. Disconnect fuel control rod (6) and stop motor cable (7), and remove spring (8).
5. Disconnect fuel hoses (9), (10), and (11), and fuel return hoses (12) and (13).
6. Remove lubrication tubes (14) and (15), and disconnect 6 fuel injection pipes (16). ※ 2
7. Remove 4 mounting bolts (17), then remove fuel injection pump assembly (18). ※ 3




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INSTALLATION OF FUEL INJECTION PUMP ASSEMBLY


- Carry out installation in the reverse order to removal.


※ 1

 Coupling lock bolt: 78.5 ± 4.9 Nm
(8 ± 0.5 kgm)

※ 2

 Lubrication tube (14): 29.4 ± 4.9 Nm
(3 ± 0.5 kgm)

 Lubrication tube (15): 22.5 ± 2.9 Nm
(2.3 ± 0.3 kgm)

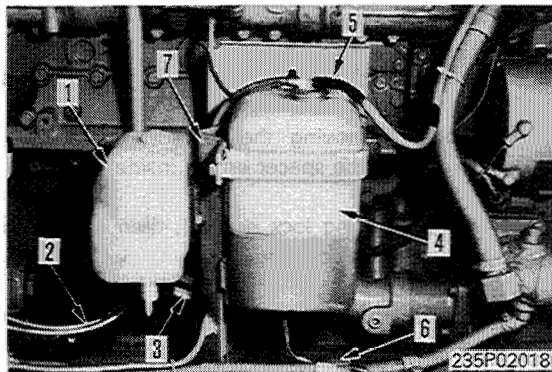
 Fuel injection pipe sleeve nut: 23.5 ± 1.0 Nm
(2.4 ± 0.1 kgm)

※ 3

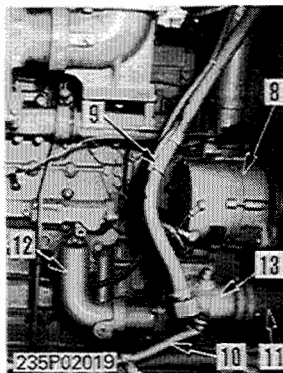
Adjust fuel injection timing.
For details, see TESTING AND ADJUSTING, Adjusting fuel injection timing.

REMOVAL OF WATER PUMP ASSEMBLY

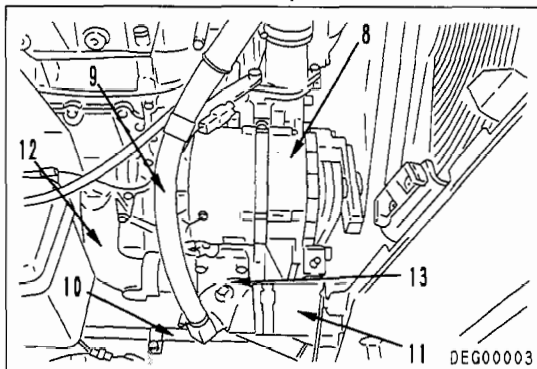
1. Drain engine cooling water.
2. Disconnect 2 hoses (2) and 2 connectors (3) of washer tank (1).
3. Disconnect hose (5) and connector (6) of reservoir tank (4).
4. Remove washer tank (1) and reservoir tank (4) together with mounting bracket (7).
5. Remove alternator assembly (8).
For details, see REMOVAL OF ALTERNATOR ASSEMBLY. ※ 1
6. Disconnect hoses (9), (10), and (11).
7. Remove tube (12) and connectors (13).



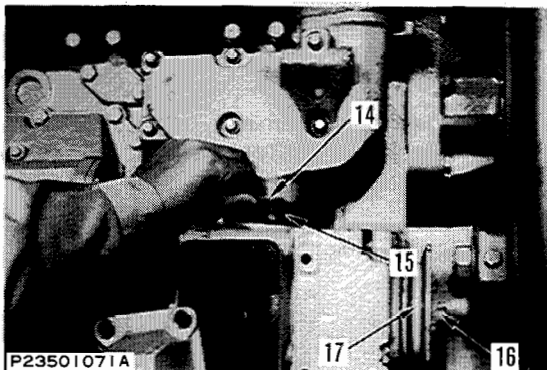
Serial No.: 11001 – 12000



Serial No.: 12001 and up



8. Pull out spring (14), then twist tube (15) with a bar and push up.
9. Remove bolt (16), then remove pulley (17).
10. Remove mounting bolts (18), then remove water pump assembly (19).



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