

5. Remove the oil separator (2).



- (1) Oil separator
 (2) Loosen the cooling fan mounting screws (3)
 (3) Remove the alternator (2)
 (4) Remove the fan belt (2)



- (1) Screws
 (2) Cooling fan mounting screws
 (3) Fan belt
 (4) Remove the cooling fan (2) and fan pulley (2)



- (1) Cooling fan
 (2) Fan pulley

5.5 Removing muffler full assembly

■ IMPORTANT

- Since the DPF that was dropped or given a shock cannot be reused even if there is no damage externally, replace it with a new one.
- Be sure to loosen the exhaust gas temperature sensor tightening nut or the differential pressure pipe tightening nut with crescent wrench to prevent the damage of the sensor or pipe.
- If it is still hard to loosen, apply the lubricant spray to threaded portion and soak it with lubricant.
- D1600-CR-T64, V1603-CR-T64 have DOC core instead of DPF core, and do not have the sensor for DPF.
 But the muffler spacing same as other models. Therefore, the mufflers of D1600-CR-T64 and V1603-CR-T64 must be disassembled by the same way of CR and T64.

■ NOTE

- 1. Put a product (engine) on a stable ground, and set the parking brake.
- 1. As the muffler full assembly is hot just after the engine shutdown, make sure to start operation after it gets cool.
- Make sure not to let any foreign substances enter the opening section during the operation.
- Make sure not to damage the muffler full assembly by falling or impact as it contains a ceramic filter.
- Before removing the muffler full assembly from a product (engine), connect the diagnostic tool (Diagnoser), check the failure history, and save the program.
- Before removing the DPF for cleaning, keep the records of the engine serial number, filter comp (DPF) part number, filter comp (DPF) serial number, catalyst (DOC) part number, catalyst (DOC) serial number, and engine operating time, which are required in preparing the DPF cleaning order form.
- When removing the muffler full assembly (DPF), make sure that the exhaust gas temperature sensor, differential pressure sensor, and differential pressure pipe do not make contact with surrounding parts.

Tools required

- 1. Crescent wrench
- 1. Remove the connectors of exhaust gas temperature sensor (2), (3), (5) from the brackets.
- 2. Remove the clamp (2).

1. Remove the 4 muffler clamp nuts (1).



- (1) Muffler clamp nut
 (2) Clamp
 (3) Connector of exhaust gas temperature sensor (2)
 (4) Connector of exhaust gas temperature sensor (1)

4. Remove the muffler full assembly mounting screws (2).

5. Remove the muffler full assembly (2).



- (1) Muffler full assembly mounting screws
 (2) Muffler full assembly

5. Remove the DPF bracket (2).



- (1) DPF bracket

5.6 Disassembling DPF assembly

■ NOTE

- 1. Always work in the workshop equipped with a electric lift (including mobile lift).
- Put a product (engine) on a stable ground, and set the parking brake.
- As the DPF muffler full assembly is hot just after the engine shutdown, make sure to start operation after it gets cool.
- Make sure not to let any foreign substances enter the opening section during the operation.
- Make sure not to damage the DPF muffler full assembly by falling or impact as it contains a ceramic filter.
- Before removing the DPF for cleaning, keep the records of the engine serial number, filter comp (DPF) part number, filter comp (DPF) serial number, catalyst (DOC) part number, catalyst (DOC) serial number, and engine operating time, which are required in preparing the DPF cleaning order form.
- Since the engine operating time is recorded in the engine ECU, check the operating time by connecting the service tool (Diagnoser).
- When removing the muffler full assembly (DPF), make sure that the exhaust gas temperature sensor, differential pressure sensor, and differential pressure pipe do not make contact with surrounding parts.
- 1. Remove the DPF mounting bracket (2).

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