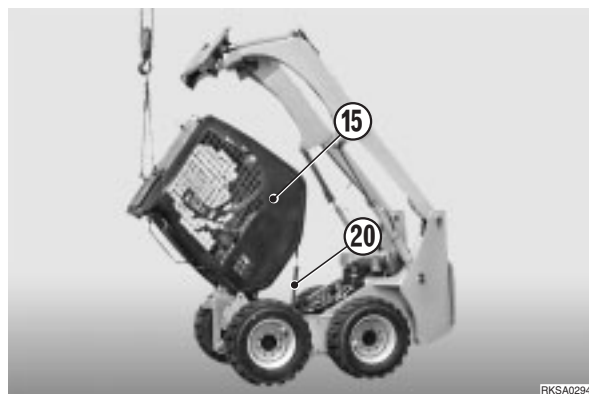


14 - Tilt the cab (15) slowly until the distance between the centres of the dumper fixing hooks (20) is 1100 mm.

- ★ The distance of 1100 mm corresponds to the maximum stretch of the dumper hooks.

15 - Remove the pins (19) of the dumper fixing hooks (20).



16 - Position a stand "A", about 1200 mm high, and tilt the cab (15) until it is resting on the stand.

- ★ Make sure that the connecting cables between the cab and the engine are not being strained.



LOWERING THE CAB

- To lower the cab back into position, reverse the tilting procedure.

✖ 1

 Screws: 110 Nm

✖ 2

- Connect the pipes by pushing them fully home in their seatings.
Check correct connection by trying to extract them.

✖ 3

- Adjust the stroke of the accelerator lever cable.
(For details, see «20. TESTING AND ADJUSTMENTS»).

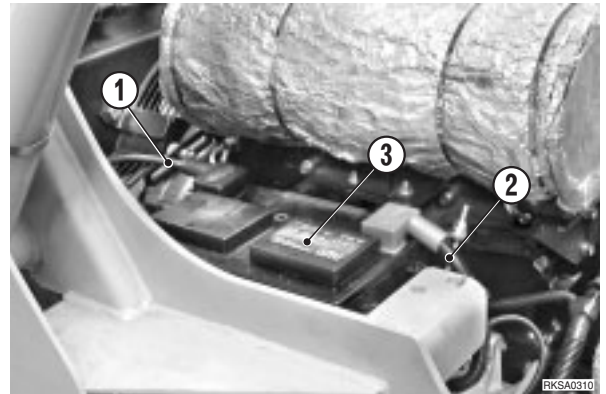
1 - Fill up the cooling circuit.

2 - Start the engine to circulate the liquid through all circuits.

3 - Stop the engine and check the level.

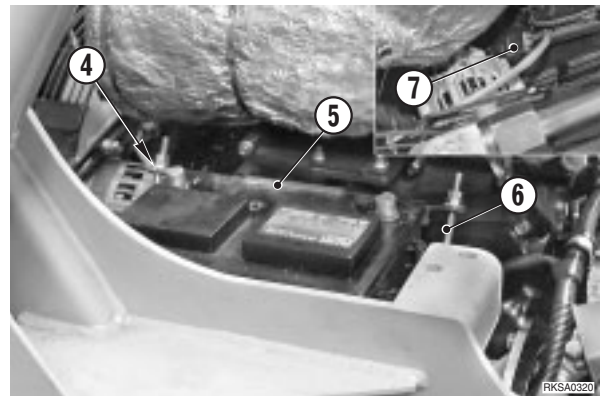
REMOVAL OF THE BATTERY

- 1 - Disconnect the negative cable (-) (1) and the positive cable (+) (2) from the battery (3) in that sequence.



- 2 - Loosen the nuts (4) that secure the battery clamp (5) and release the tie-rods (6) of the battery support.

- ★ Disconnect the temperature sensor connector (7) from the battery clamp (5).



- 3 - Tilt the battery clamp (5) towards the front of the machine and lift out the battery.

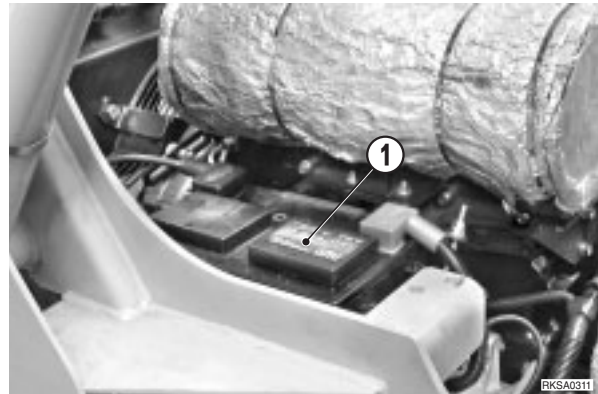


INSTALLATION OF THE BATTERY

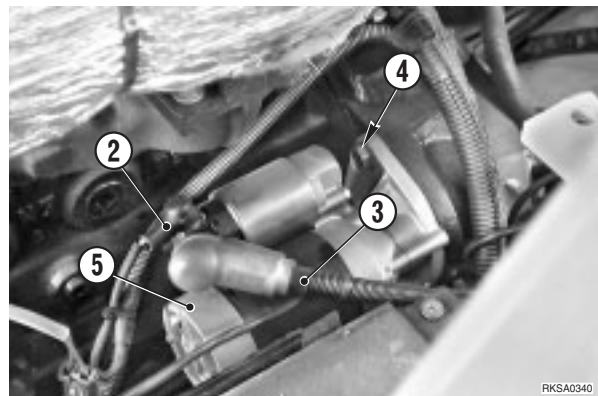
- To replace, reverse removal procedure.

REMOVAL OF THE STARTING MOTOR

- 1 - Tilt the cab and secure it in its safety position.
- 2 - Remove the battery (1).
(For details, see «REMOVAL OF THE BATTERY»).



- 3 - Disconnect the cables (2) and (3).
- 4 - Loosen the screws (4) and take out the starting motor (5).



INSTALLATION OF THE STARTING MOTOR

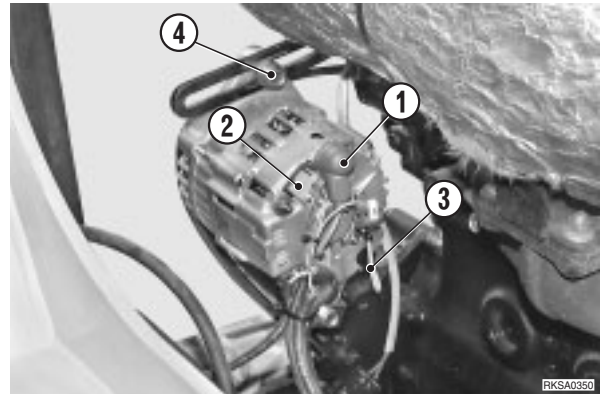
- To install, reverse removal procedure.



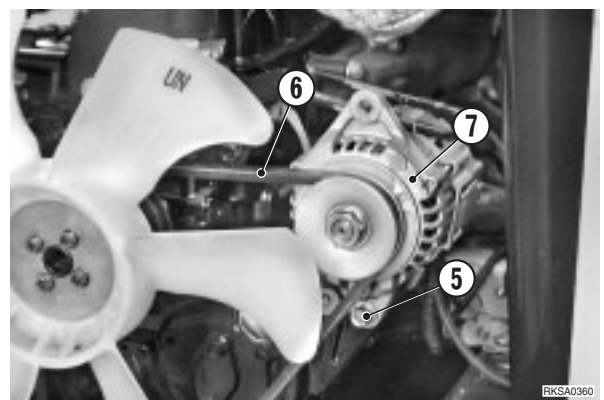
Screws: 78.4–98 Nm

REMOVAL OF THE ALTERNATOR

- 1 - Remove the battery.
(For details, see «REMOVAL OF THE BATTERY»).
- 2 - Tilt the cab.
(For details, see «TILTING THE CAB»).
- 3 - Disconnect the cable (1) and the connectors (2) and (3)
- 4 - Loosen the screws (4) and (5) to leave the alternator free to turn.



- 5 - Free the pulley (6) from the fan-belt and take out the alternator (7).



INSTALLATION OF THE ALTERNATOR

- To install, reverse removal procedure.

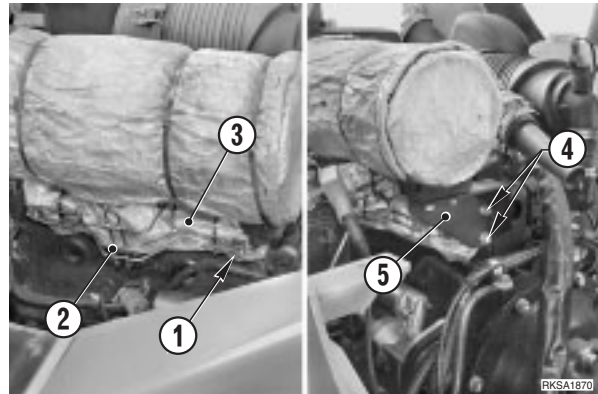


- ★ Adjust the tension of the fan-belt.
(For details, see «20. TESTING AND ADJUSTMENTS – Adjustment of the fan-belt tension»).

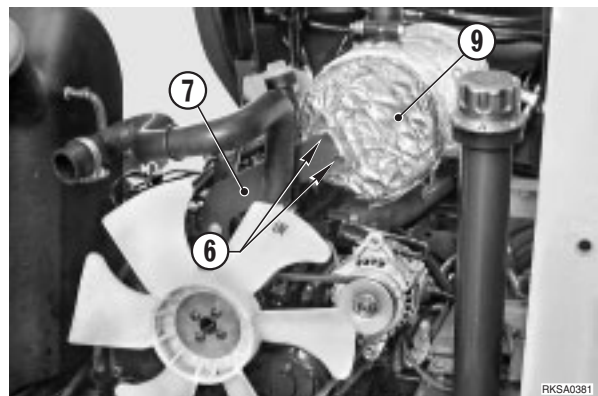
REMOVAL OF THE MUFFLER (SK714-5 SK815-5)

1 - Loosen the screws (1), remove the support (2) and the protection (3).

2 - Loosen the screws (4) of muffler support (5) and remove it.

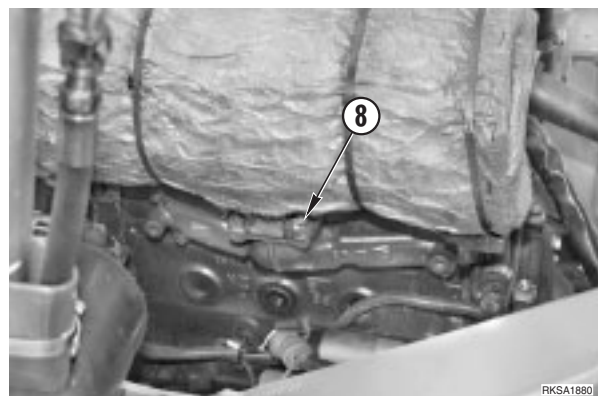


3 - Loosen the screws (6) of muffler support (7) and remove it.



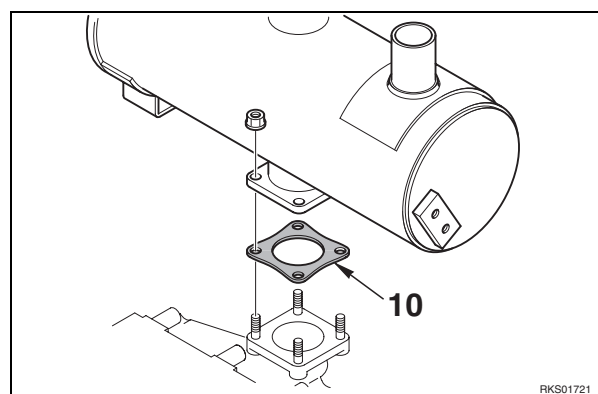
4 - Loosen nut (8) and remove muffler (9).

★ A new seal (10) should be fitted each time the muffler is removed.



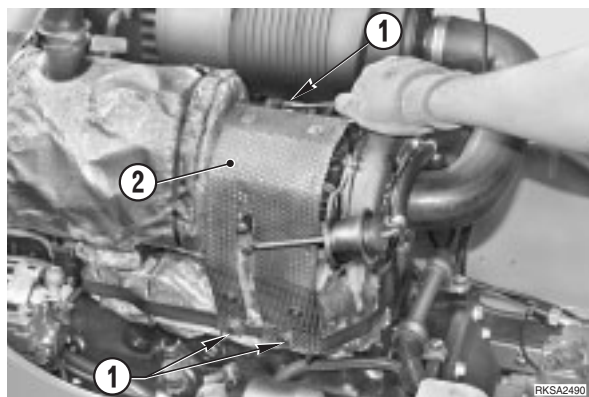
INSTALLATION OF THE MUFFLER

- To install, reverse removal procedure.

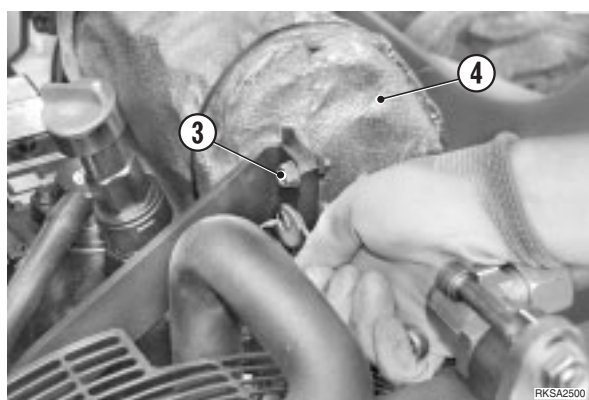


REMOVAL OF THE MUFFLER (SK815-5 turbo)

1 - Loosen the screws (1) of protection (2) and remove it.



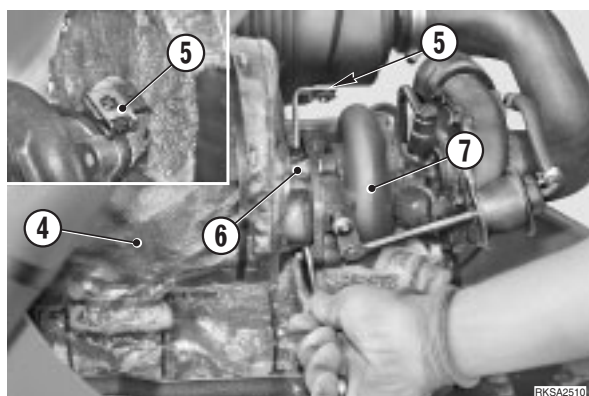
2 - Loosen and remove the screws (3) fixing the muffler (4).



3 - Mark the position of bracket (5).
Remove the four nuts (6) fixing the muffler (4) to the turbocharger (7).

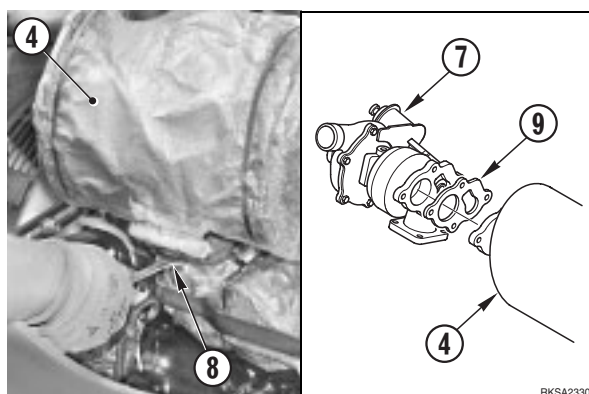
4 - Loose the screws (8).

5 - Remove the muffler (4).
★ A new seal (9) should be fitted each time the muffler is removed.



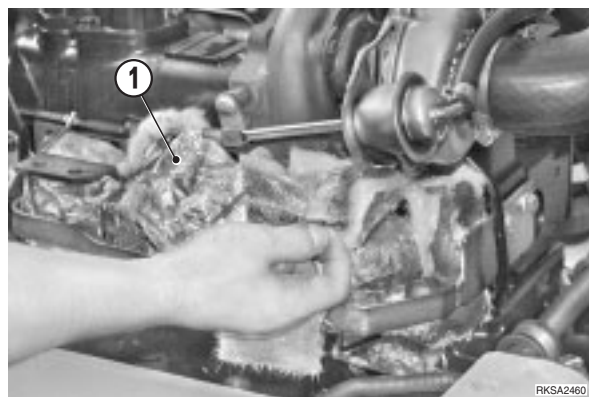
INSTALLATION OF THE MUFFLER

- To install, reverse removal procedure.

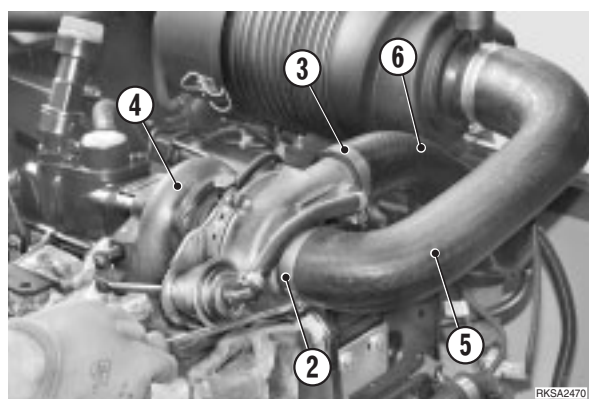


REMOVAL OF TURBOCHARGER (SK815-5 turbo)

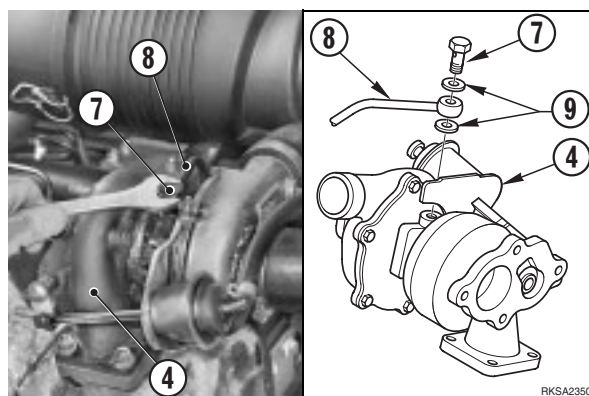
- 1 - Remove the muffler.
(For details see «REMOVAL OF MUFFLER»).
- 2 - Remove the insulating shield (1) from the intake manifold.



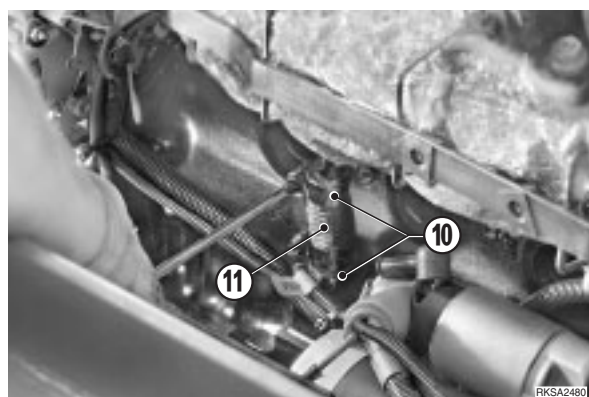
- 3 - Loosen clamps (2), (3) and disconnect the intake hose (5) and supply hose (6) from the turbocharger (4).



- 4 - Loosen the fitting (7) and disconnect the upper lubrication pipe (8) from the turbocharger (4).
★ Seals (9) must be replaced at each disassembly.

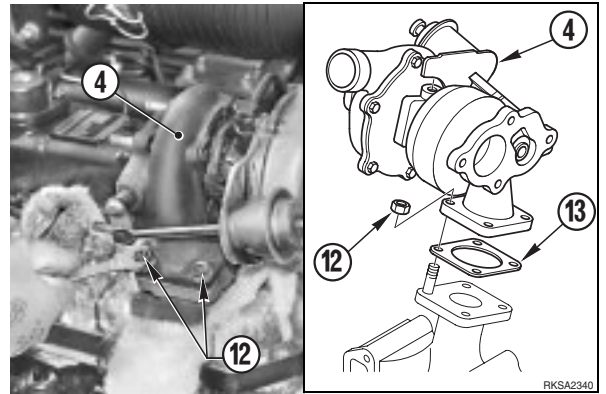


- 5 - Loosen the clamp (10) and remove the lower lubrication pipe (11).



6 - Loosen the nuts (12) and remove the turbocharger (4).

- ★ The seal (13) must be replaced at each disassembly.



INSTALLATION OF TURBOCHARGER

- To install, reverse removal procedure.

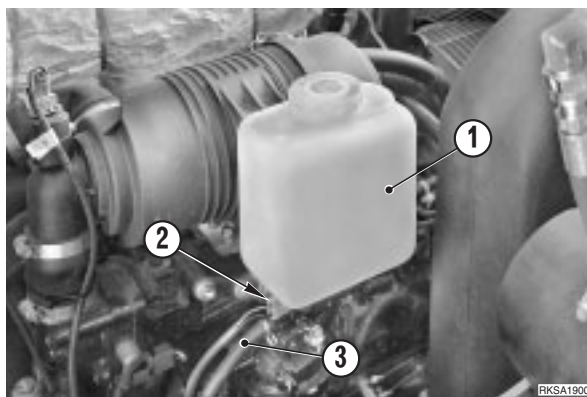
REMOVAL OF THE AIR INTAKE FILTER

! Disconnect the battery's negative end cable (-).

1 - Disconnect the connector (2) and hose (3) from the washer tank (1).

2 - Remove the washer tank (1).

SK714-5 SK815-5



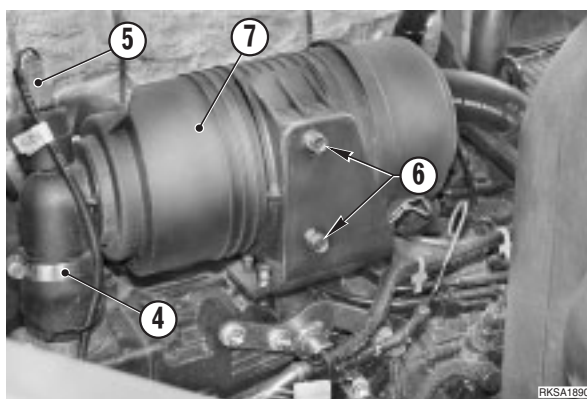
SK815-5 turbo



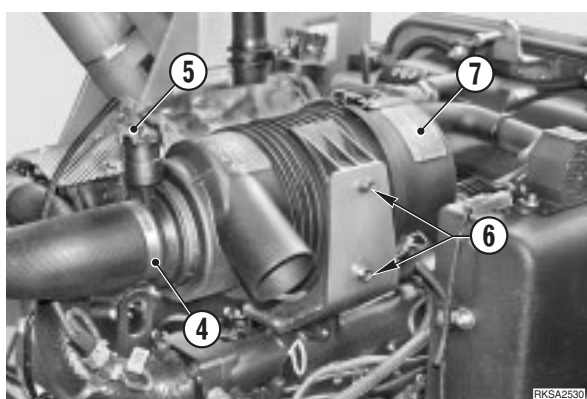
3 - Loosen the clamp (4) and disconnect the connector (5) from the air filter clogging sensor.

4 - Loosen the screws (6) and remove the complete air filter (7).

SK714-5 SK815-5



SK815-5 turbo



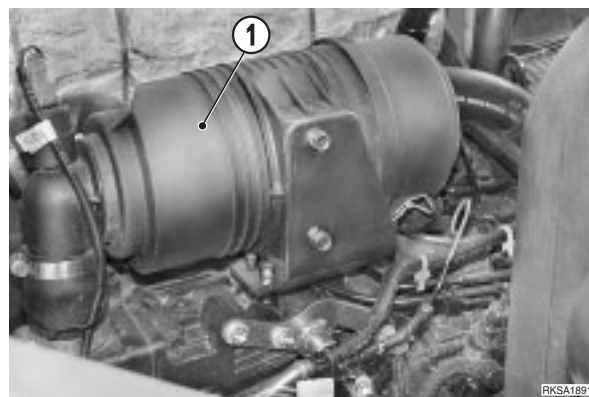
INSTALLATION OF AIR INTAKE FILTER

- To install, reverse removal procedure.

REMOVAL OF THE NOZZLE HOLDER

- 1 - Remove the air filter (1).
(For detail see «REMOVAL OF THE AIR FILTER»).

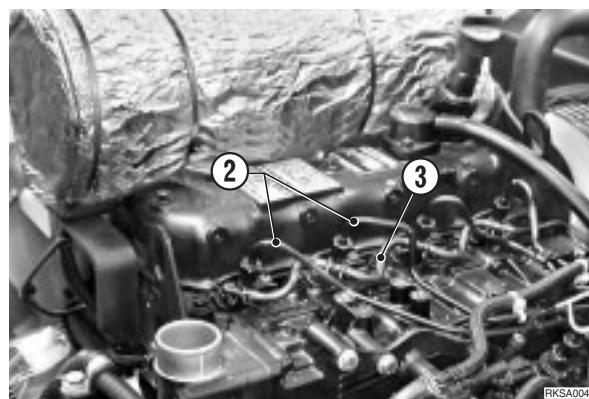
SK714-5 SK815-5



SK815-5 turbo



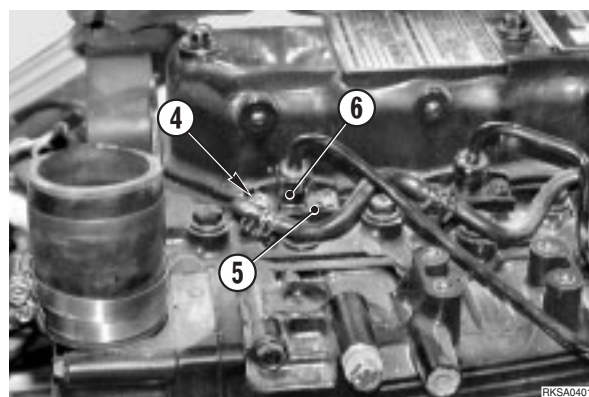
- 2 - Remove the high-pressure pipes (2) and the fuel return tubes (3).



- 3 - Loosen nuts (4) and remove clips (5).



- 4 - Remove the complete injection nozzles (6).




INSTALLATION OF THE NOZZLE HOLDER

- To install, reverse the removal procedure.



 High-pressure pipe union: 31.85 ± 2.45 Nm



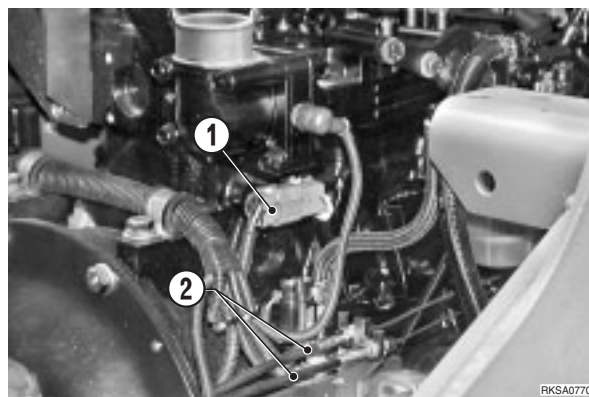
 Nuts: 78.4 ± 0.98 Nm

REMOVAL OF INJECTION PUMP

- !** 1 - Disconnect the negative terminal cable (–) from the battery.
 2 - Close the cock of separator to prevent fuel leakage.

1 - Remove radiator group.
 (For details, see «REMOVAL OF THE RADIATOR»).

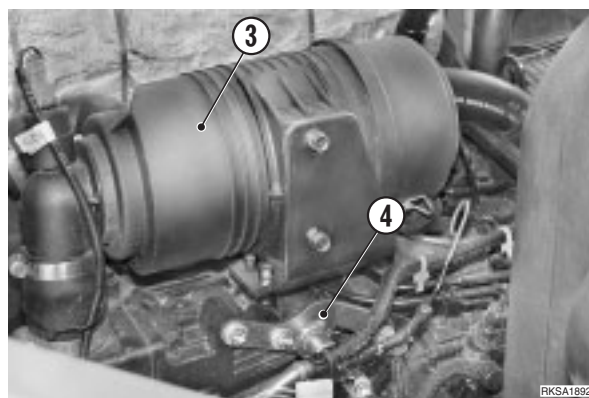
2 - Disconnect connector (1) and accelerator cable (2).



SK714-5 SK815-5

3 - Remove the air filter (3).
 (For details, see «REMOVAL OF AIR FILTER»).

4 - **Only for SK714-5 SK815-5**
 Disconnect from head cylinder the fuel filter support (4) with level oil rod.



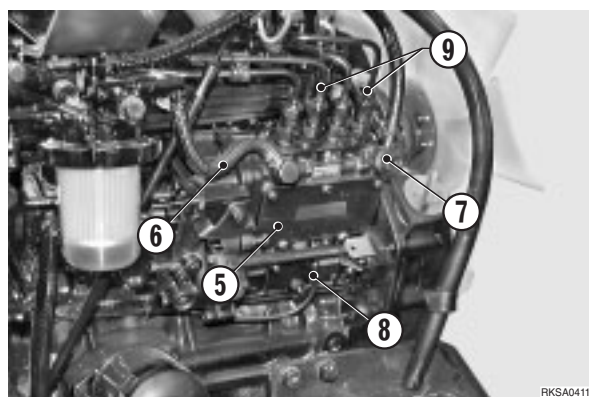
SK815-5 turbo



5 - Disconnect from injection pump (5) fuel feeding pipes (6) and return pipes (7).

6 - Disconnect injection pump (5) lubricating pipe (8).

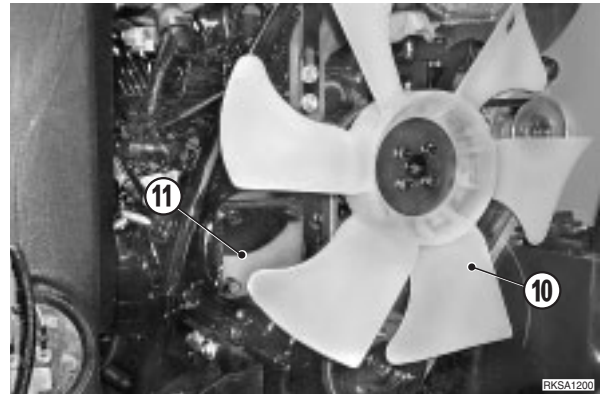
7 - Disconnect high pressure pipes (9) from injection pump (5).



SK714-5 SK815-5 SK815-5 turbo

8 - Remove fan (10) and cover (11).

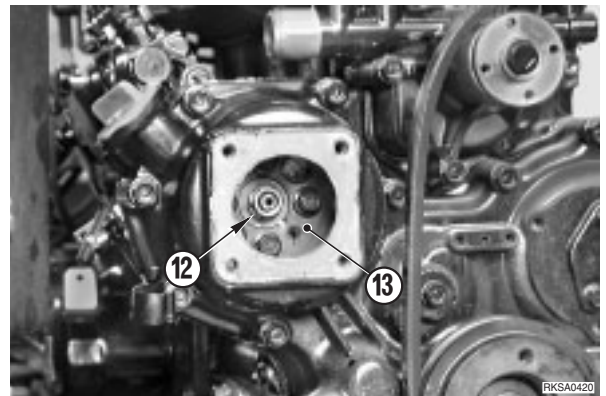
✖ 3



9 - Loosen and remove nut (12) and lock washer (13) of pump driving gear.

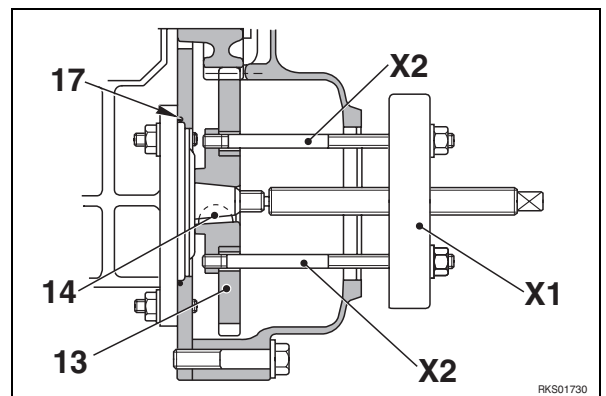
✖ 4

- ★ Be careful not let nut (12) and lock washer (13) drop in the housing.



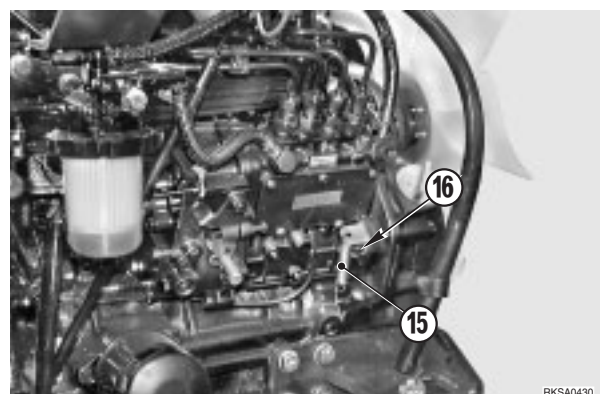
10 - Remove pump (5) driving gear (13).

- ★ Before removing pump driving gear, mark position compared to idling gear.
- ★ For removal, use a puller (X1) and tighten its screws (X2) directly in the gear (13).
- ★ During removal be careful not let key drop (14) in the housing.



11 - Disconnect spring (15), loosen nuts (16) (No. 3) and remove injection pump (5) with O-rings (17).

✖ 5




INSTALLATION OF INJECTION PUMP

- To install, reverse the removal procedure.



❖ 1

- ★ Check accelerator stroke lever.
(For details, see «20. CONTROLS AND ADJUSTMENTS»).


❖ 2

-  Feed and return pipes: 31.85±2.45 Nm


❖ 3

-  Cover surface: liquid gasket
-  Screw: 44.1–53.9 Nm

❖ 4

- ★ Align marks among gears before to install pump and nut.
-  Nut: 59–69 Nm

❖ 5

-  Pump lock nuts: 22.5–28.5 Nm
- ★ Check fuel injection timing.
(For details, see «20. CONTROLS AND ADJUSTMENTS»).