

TH580B
Telehandler Service Manual

31200266

S/N TBJ00100 & After

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Disassembly and Assembly Section

Battery - Remove and Install

Removal Procedure

Start By:

- If equipped, turn the battery disconnect switch to the OFF position. Refer to Operation and Maintenance Manual, "Battery Disconnect Switch (if equipped)".

⚠ WARNING

Batteries give off flammable fumes that can explode resulting in personal injury.

Prevent sparks near the batteries. They could cause vapors to explode. Do not allow the jump start cable ends to contact each other or the machine.

Do not smoke when checking battery electrolyte levels.

Electrolyte is an acid and can cause personal injury if it contacts skin or eyes.

Always wear eye protection when starting a machine with jump start cables.

Improper jump start procedures can cause an explosion resulting in personal injury.

Always connect the positive (+) to positive (+) and the negative (-) to negative (-).

Jump start only with an energy source with the same voltage as the stalled machine.

Turn off all lights and accessories on the stalled machine. Otherwise, they will operate when the energy source is connected.

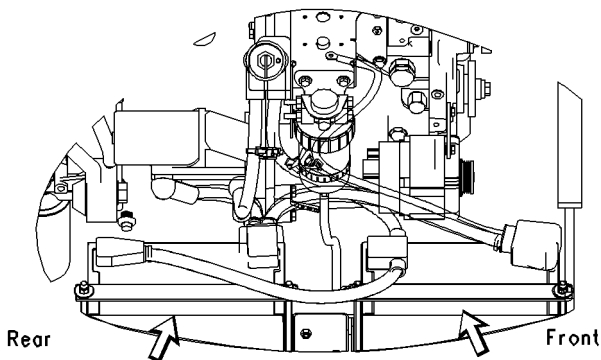


Illustration 1

g00909832

- The following procedure shows the removal of the front battery which is an attachment. Use the same procedure when you are removing the rear battery.



Illustration 2

g00909220

- Pull back the terminal cover (1) in order to disconnect positive cable (2). Pull back the terminal cover (3) in order to disconnect negative cable (4).



Illustration 3

g00909235

- Remove nuts (5), the washers and hold down bracket (6).



Illustration 4

g00909831

- With the aid of a second person or with the aid of a suitable lifting device, remove battery (7). The weight of the battery is approximately 25 kg (55 lb). Remove studs (8).

Installation Procedure

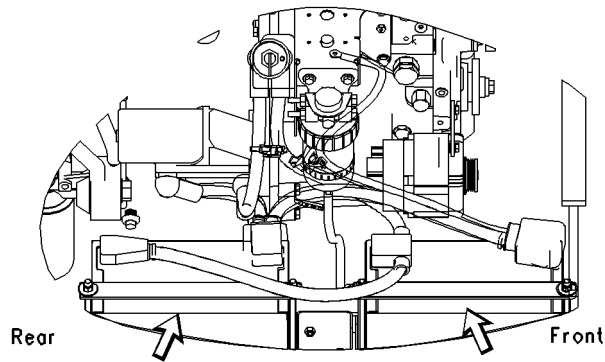


Illustration 5 g00909832

1. The following procedure shows the installation of the front battery which is an attachment. Use the same procedure when you are installing the rear battery.



Illustration 6 g00909831

2. Install studs (8). With the aid of a second person or with the aid of a suitable lifting device, install battery (7). The weight of the battery is approximately 25 kg (55 lb).



Illustration 7 g00909235

3. Install hold down bracket (6), nuts (5), and the washers.

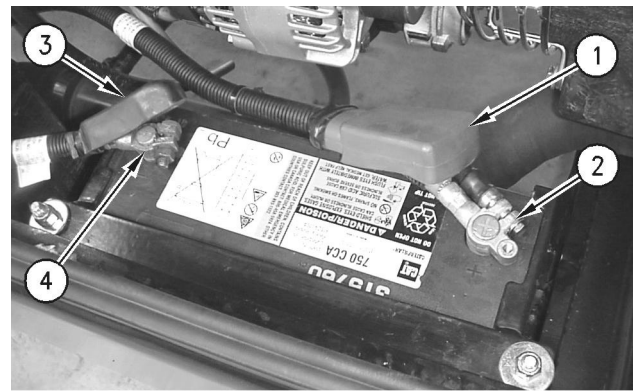


Illustration 8 g00909220

4. Connect positive cable (2) and slide terminal cover (1) into position. Connect Negative cable (4) and slide terminal cover (3) into position.

End By:

- a. If equipped, turn the battery disconnect switch to the ON position. Refer to Operation and Maintenance Manual, "Battery Disconnect Switch (if equipped)".

Alternator - Remove and Install

Removal Procedure

Start By:

- a. Turn the battery disconnect switch to the OFF position. Refer to Operation and Maintenance Manual, "Battery Disconnect Switch (if equipped)". If the machine is not equipped with a battery disconnect switch, disconnect the battery cables from the battery and insulate the battery clamps.

1. Put identification marks on all wires for installation purposes.

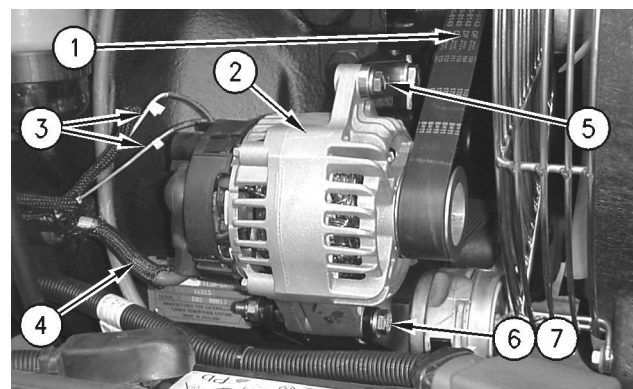


Illustration 9 g00908444

2. Remove belt (1) from alternator (2). Refer to Operation and maintenance Manual, "Belts - Inspect/Adjust/Replace".
3. Disconnect wires (3) and positive cable (4).
4. Remove bolt (5), the washer, nut (6), bolt (7) and the washers before removing alternator (2) from the machine.

Installation Procedure

1. Clean all parts and inspect all parts. If any parts are worn or damaged, use new Caterpillar parts for replacement.

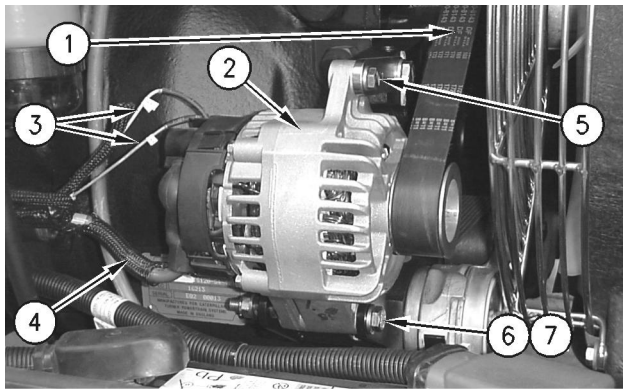


Illustration 10

g00908444

2. Position alternator (2) onto the machine. Install bolt (7), nut (6) and washers. Install bolt (5) and the washer.
3. Connect wires (3) and positive cable (4) to alternator (2).
4. Install belt (1) from alternator (2). Refer to Operation and Maintenance Manual, "Belts - Inspect/Adjust/Replace".

End By:

- a. Turn the battery disconnect switch to the ON position. Refer to Operation and Maintenance Manual, "Battery Disconnect Switch (if equipped)". If the machine is not equipped with a battery disconnect switch and the battery was disconnected, remove the insulation from the battery clamps and install the battery cables onto the battery.

Electric Starting Motor -Remove and Install

Removal Procedure

WARNING

Accidental machine starting can cause injury or death to personnel working on the machine.

To avoid accidental machine starting, turn the battery disconnect switch to the OFF position and remove the key. If the machine is not equipped with a battery disconnect switch, disconnect the battery cables from the battery and tape the battery clamps.

Place a do not operate tag at the battery disconnect switch location to inform personnel that the machine is being worked on.

1. Put identification marks on all wires for installation purposes.

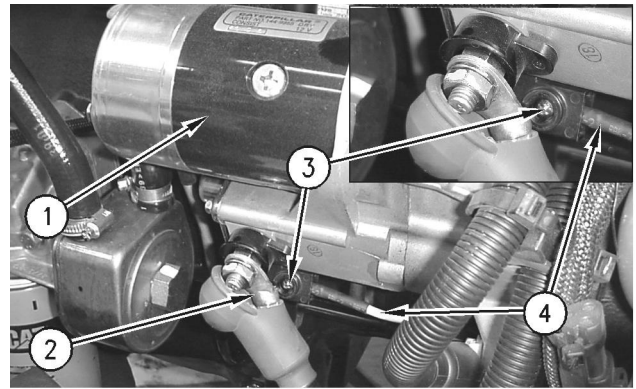


Illustration 11

g00908447

2. Disconnect positive cable (2) from starter motor (1). Lift the plastic cap (not shown) in order to access screw (3) and disconnect wire (4).

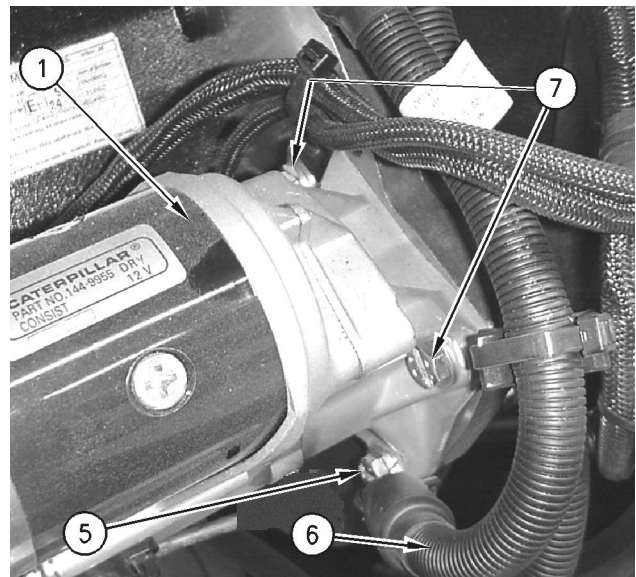


Illustration 12

g00908460

3. Remove bolt (5) in order to disconnect ground cable (6).
4. Remove bolts (7) and remove starter motor (1) from the engine.

Installation Procedure

1. Clean all parts and inspect all parts. If any parts are worn or damaged, use new Caterpillar parts for replacement.

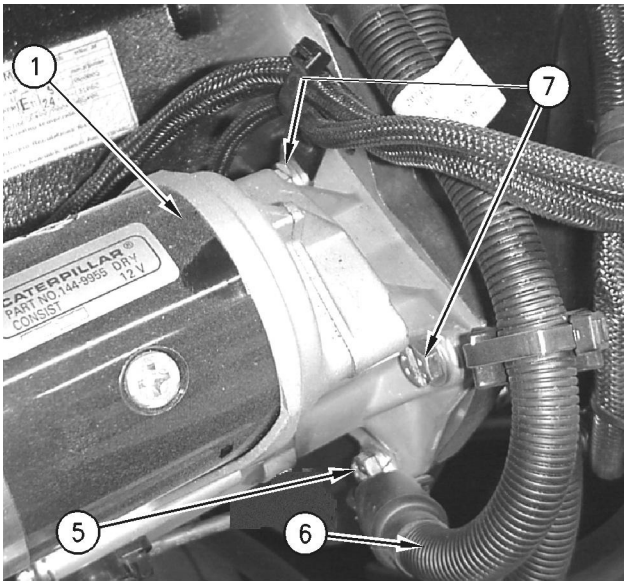


Illustration 13 g00908460

2. Position starter motor (1) onto the engine and install bolts (7).
3. Position ground cable (6) and install bolt (5).

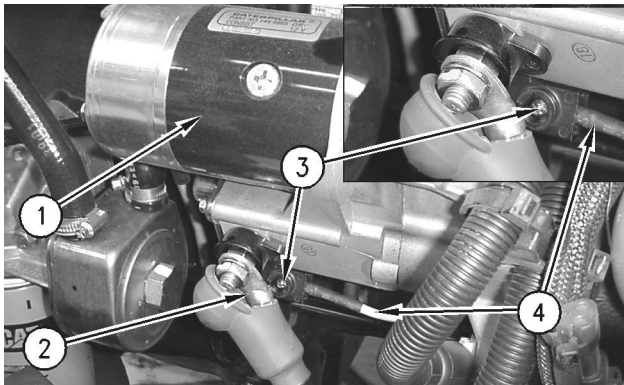


Illustration 14 g00908447

4. Install screw (3) in order to connect wire (4). Close the plastic cap (not shown). Connect positive cable (2) to starter motor (1).

End By:

- a. Turn the battery disconnect switch to the ON position. Refer to Operation and Maintenance Manual, "Battery Disconnect Switch (if equipped)". If the machine is not equipped with a battery disconnect switch and the battery was disconnected, remove the insulation from the battery clamps and install the battery cables onto the battery.

Air Cleaner - Remove

Removal Procedure

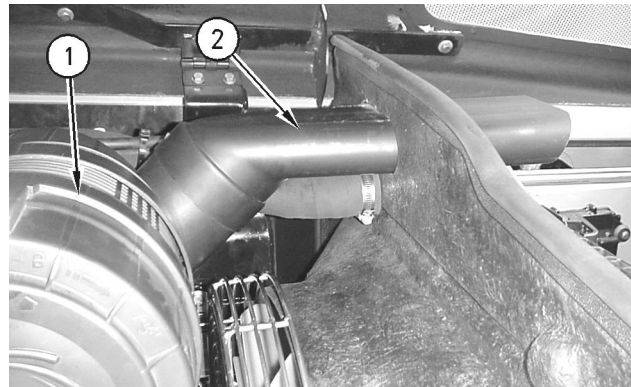


Illustration 15 g00909117

1. Disconnect inlet duct (2) from air cleaner assembly (1).

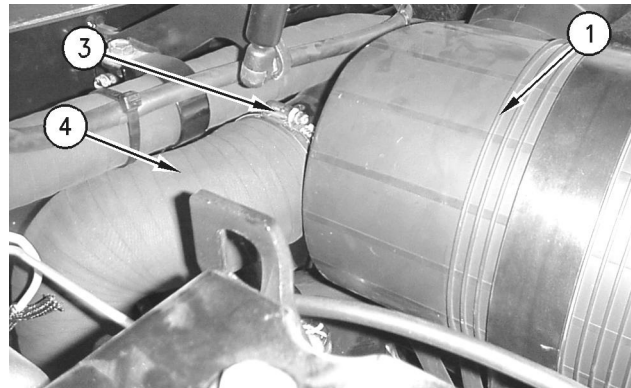


Illustration 16 g00909118

2. Remove hose clamp (3) and disconnect inlet hose (4) from air cleaner assembly (1).

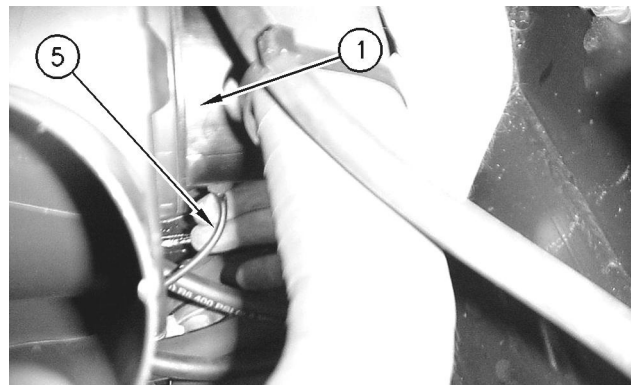


Illustration 17 g00909119

3. Disconnect hose (5) from air cleaner assembly (1).

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