



# Service Repair Manual

## **Model**

438C BACKHOE LOADER

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Product: BACKHOE LOADER

Model: 438C BACKHOE LOADER 2DR

Configuration: 438C Backhoe Loader Side Shift, Parallel Lift 2DR02717-03249 (MACHINE) POWERED BY 3054 Engine

## Disassembly and Assembly Alternator - Bosch K1/N1

Media Number -SEN3685-02

Publication Date -01/09/2013

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i05064230

### Alternator - Assemble

SMCS - 1405-016

### Assembly Procedure

Cleanliness is an important factor. Before assembly, all parts should be thoroughly cleaned in cleaning fluid. Allow the parts to air dry. Wiping cloths or rags should not be used to dry parts. Lint may be deposited on the parts which may cause problems in the future. Inspect all parts. If any parts are worn or damaged, use new parts for replacement.

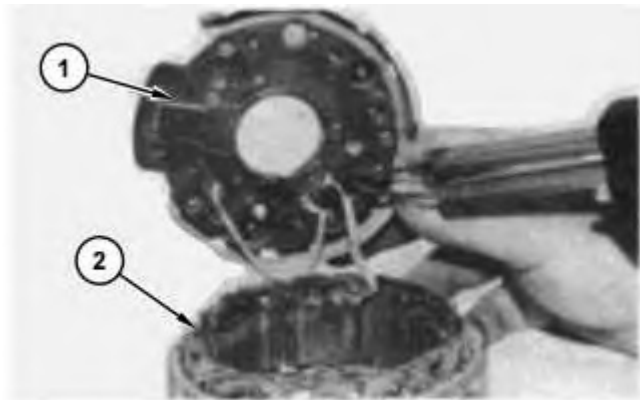


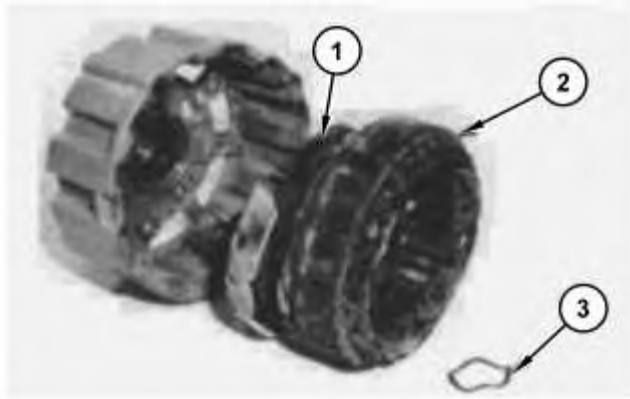
Illustration 1

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(1) Rectifier

(2) Stator

1. Connect and solder the stator leads to the positive (+) diodes of rectifier (1) .
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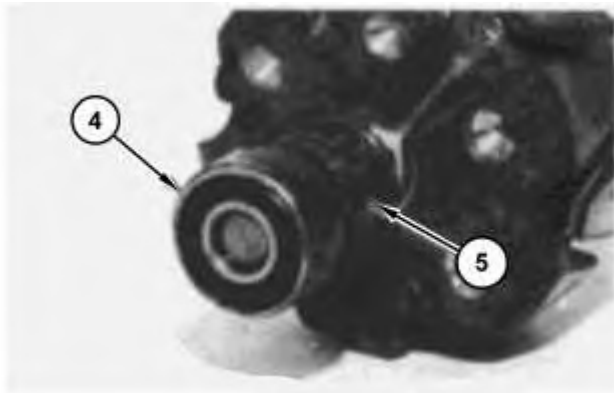
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Illustration 2

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- (1) Rectifier
- (2) Stator
- (3) Position wave washer

2. Position the insulators on the rectifier terminal studs. Position rectifier (1), and stator (2) into the rear frame, and install the three screws. Install the terminal insulators, washers, and nuts. Position wave washer (3) into the bearing bore of the rear frame.



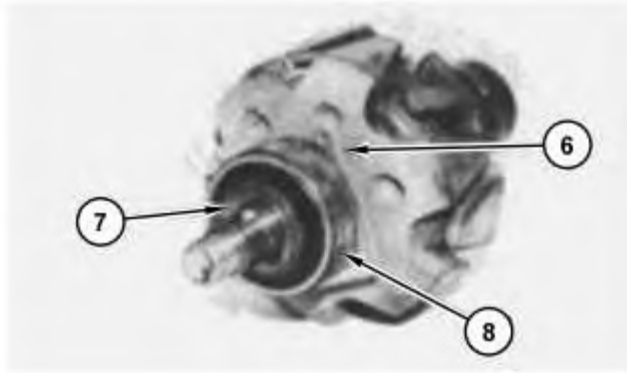
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Illustration 3

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- (4) Rear bearing
- (5) Slip ring

3. Install slip ring (5) on the rotor. Connect and solder the rotor leads to the slip ring (5). Install rear bearing (4) .
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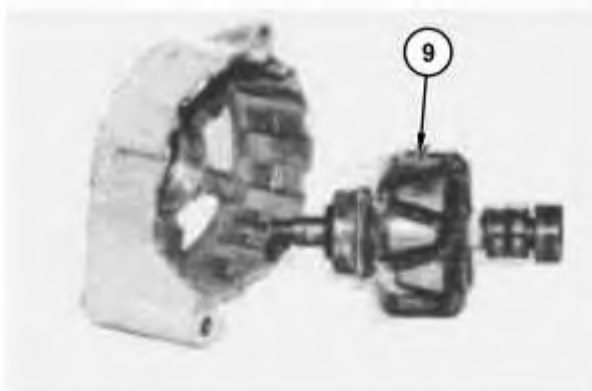
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Illustration 4

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- (6) Bearing cover
- (7) Spacer
- (8) Front bearing

4. Install bearing cover (6), front bearing (8), and spacer (7) on the rotor.



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Illustration 5

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- (9) Rotor

5. Install rotor (9) and the four screws into the front frame.

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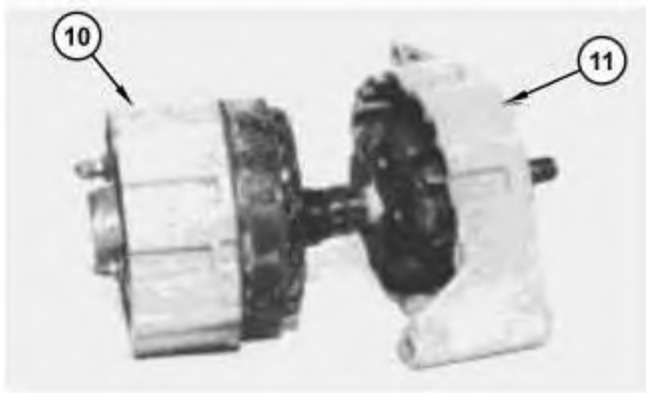


Illustration 6

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(10) Stator assembly

(11) Rotor assembly

6. Assemble front frame and rotor assembly (11) into rear frame and stator assembly (10). Make sure that the wave washer is fixed in the rear frame bearing bore. Align the front and rear frame marks made at disassembly for correct assembly. Install the four screws.

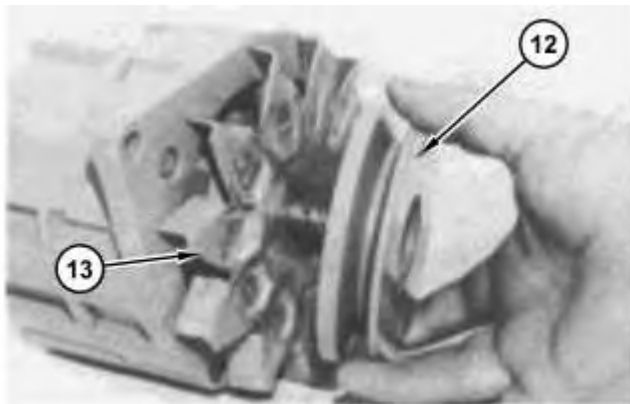


Illustration 7

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(12) Pulley

(13) Fan

7. Install the key, fan (13), pulley (12), washer, and pulley nut. Tighten the nut to a torque of:

**3E-7295** Charging Alternator Gp, and **9X-0341** Charging Alternator Gp ...  $70 \pm 5 \text{ N}\cdot\text{m}$  ( $52 \pm 4 \text{ lb ft}$ )

**8C-5535** Charging Alternator Gp, **7T-2876** Charging Alternator Gp, **2Y-4212** Charging Alternator Gp, and **2Y-8310** Charging Alternator Gp ...  $35 \pm 10 \text{ N}\cdot\text{m}$  ( $26 \pm 7 \text{ lb ft}$ )

**9W-3043** Charging Alternator Gp ...  $50 \pm 5 \text{ N}\cdot\text{m}$  ( $37 \pm 4 \text{ lb ft}$ )

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