



Service Repair Manual

Models

3512 Industrial Engine

Product: INDUSTRIAL ENGINE
Model: 3512 INDUSTRIAL ENGINE 1LM
Configuration: 3512 Engine 1LM00001-UP

Disassembly and Assembly 26SI Series Alternator

Media Number -REN1252-01

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i01167081

Alternator - Disassemble

SMCS - 1405-015

Disassembly Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	6V-7070	Digital Multimeter	1
B		Variable Power Supply	1

Start By:

- Remove the alternator. Refer to Disassembly and Assembly, "Alternator - Remove" for the machine that is being serviced.

Note: Cleanliness is an important factor. Before the disassembly procedure, the exterior of the component should be thoroughly cleaned. This will help to prevent dirt from entering the internal mechanism.

- Remove the pulley nut, the washer, the pulley, and the fan.
-



Illustration 1

g00627790

2. Remove 4 screws (1). Remove plate (2) .



Illustration 2

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3. Remove 7 screws (3). Remove cover (4) .



Illustration 3

g00627794

4. Remove gasket (5) .



Illustration 4

g00627796

5. Remove 2 insulated screws (6). Remove the 3 leads.

Note: The regulator and the mounting plate are coated with dielectric grease. If the grease is removed, reapply the grease.

6. Remove nut (7) .



Illustration 5

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7. Remove grounded mounting screw (8) .
 8. Remove regulator (9) .
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Illustration 6

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9. Remove mounting plate (10). The mounting plate may be stuck to the regulator.

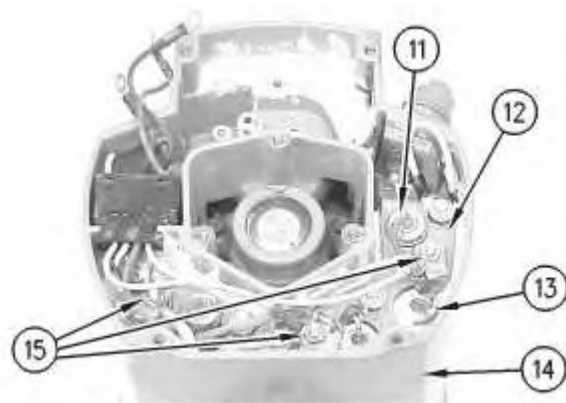


Illustration 7

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Note: The 3 output diodes (11) are located in heat sink (12). These diodes are identical in polarity. Diode (11) has red insulation on the wire. The 3 ground diodes (13) are located in housing (14). These diodes are identical in polarity. Diode (13) has black insulation on the wire.

10. Remove 3 nuts (15). Disconnect 3 stator phase leads. Disconnect 3 phase leads. Disconnect 6 diode leads.

Table 2

Alternator Ground	Current Flow of the Output Diodes	Current Flow of the Ground Diodes
Negative	Lead to the Heat Sink	Housing to the Lead
	Red Wire	Black Wire

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