



WAGNER

SERVICE BULLETIN

ELECTRICAL POWER -- TRANSFORMER-RECTIFIER UNIT

WAGNER 28VS200Y-4B (BOEING 60B40104-1)

28VS200Y-4B-1(BOEING 60B40104-2)

28VS200Y-4B-2(BOEING 60B40104-2)

Install new D.C. Terminal Board

1. PLANNING INFORMATION.

- A. EFFECTIVITY: This bulletin applies to Transformer-Rectifier part number 28VS200Y-4B (60B40104-1) serial numbers 001 thru 301 and serial numbers with an "A" suffix and part number 28VS200Y-4B-1 serial numbers 001A-301A, 302-481.
- B. REASON: To increase the allowable d.c. terminal torque from 105 to 190 inch-pounds to prevent possible overheat damage to the Transformer-Rectifier Unit and associated wiring.
- C. DESCRIPTION: Replace currently used terminal board assembly with a new terminal board assembly design. This changes the Transformer-Rectifier part number from 28VS200Y-4B-1 (Boeing 60B40104-2) to 28VS200Y-4B-2 (Boeing 60B40104-2).
- D. APPROVAL: "This Service Bulletin has been reviewed by the Federal Aviation Administration (FAA) and the repairs and modifications herein comply with the applicable Federal Aviation Regulations (FAR'S) and are FAA approved for installation in the Models 747, 757, and 767 aircraft."
- E. MANPOWER: Estimated 1/2 man-hours is required to accomplish the work described in this Service Bulletin.
- F. MATERIAL COST AND AVAILABILITY: Parts required for this modification are available at the prices and lead time indicated in Section 3, Material Information. Address orders to: Wagner Division, Cooper Industries, Inc. Attention: Mr. Norm Herms.
- G. TOOLING: None.
- H. WEIGHT AND BALANCE: None.

OCT 15/89

28VS200Y-4B-24-5



WAGNER

- I. ELECTRICAL
LOAD DATA: Not affected.

- K. OTHER PUB-
LICATIONS
AFFECTED: Wagner Div, Cooper Industries, Inc.
Manual 24-32-11

- J. REFERENCES: Manual 24-32-11 dated JAN 1/88.

2. ACCOMPLISHMENT INSTRUCTIONS.

A. DISASSEMBLY:

- (1) Refer to IPL Figure 1 of Maintenance Manual 24-32-11.
- (2) Remove the nuts (60), cut the safety wire ties and remove the bolt and washer combinations (20)(15)(25) and (10)(15). Remove the end bell assembly (55) and case assembly (35).
- (3) Remove the nut (120) and washer (130) from the positive and negative terminal studs.
- (4) Refer to IPL Figure 3 of Maintenance Manual 24-32-11.
- (5) Remove the tapped hex spacers (60) and (65), washers (70) and (75), insulating washer (80), and insulating bushing (225).
- (6) Remove the terminal hardware (115A, 120A, and 121A) and machine screw (85) and insulator (90).
- (7) Discard terminal board (110) and terminals (95 and 100).

B. REASSEMBLY:

- (1) Refer to IPL Figure 3 of Maintenance Manual 24-32-11.
- (2) Replace terminal board (110) with part number 2232061, plus stud (95) part number 2201617, and the minus stud (100) part number 2201616.

CAUTION: The position and marking of the terminals are critical to the operation of the converter and must not be interchanged.

- (3) Install insulator bushing (225), insulating washer (80) flat washer (75) and lock washer (70) on each stud and install the hex spacers (60 and 65) finger tight.
- (4) Apply one or two drops of Loctite, grade B, yellow to the machine screw (85), and secure the terminal board TB1 (110) to the motor ring (230) using the screw and spacer (90).
- (5) Tighten the hex spacers (60 and 65) to 65 to 75 lb.in (7.3 to 8.5 N·M).

OCT 15/89

28VS200Y-4B-24-5



WAGNER

- (6) Install terminal hardware (115A, 120A, and 121A) on the terminal studs (95 and 100) and snug tighten.
- (7) Refer to IPL Figure 1 of Maintenance Manual 24-32-11.
- (8) Install the washers (130) and the self-locking nuts (120) on the dc terminals to secure the links and busbars. Tighten the nuts to 65 to 75 lb.in (7.3 to 8.5 N·M).
- (9) Complete the assembly by following the steps (19) to (22) of section 7.E of the Maintenance Manual 24-32-11.
- (10) Reindentify nameplate by altering the part number from 28VS200Y-4B-1 to 28VS200Y-4B-2 and add a "B" to serial number of the converter.

C. TESTING: None.

3. MATERIAL INFORMATION.

A. The following material information is provide on a "per each" Transformer-Rectifier basis.

Kit P/N	Description of contents	Quan.	Key Word	Instructions-Disposition
2981777	2232061	1	Terminal Board	1
	2201617	1	Stud, plus	1
	2201616	1	Stud, minus	1

Kit P/N	Lead Time	Cost
2962394 2981777	90 Days	\$65.00

- (1) Dispose of old parts and replace with new parts.

OCT 15/89

28VS200Y-4B-24-5