

COLLINS SERVICE BULLETIN

Collins Government Telecommunications Group/Rockwell International

30L-1 RF LINEAR AMPLIFIER (522-2375-000)

SERVICE BULLETIN NO 4

OPERATION FROM 230 V AC POWER SOURCE

This service bulletin is applicable to all 30L-1 (522-2375-000) units.

The 30L-1 is designed to operate from either 115 or 230 V ac by using applicable TB1 strapping. Following production, the units are tested using 115-V ac input voltage. When TB1 is field strapped for 230-V ac operation, fuse F2 may blow in some units when power is applied. This is caused by the leads to on-off switch S2 being reversed. The wiring error places 230-V ac across the white-brown and white-brown-red (115 V ac) winding of the power transformer.

When the 30L-1 has been strapped for 230 V ac, the dc resistance through the power plug with power switch S2 on should be measured before applying power. If the resistance is near two ohms, the wiring is correct. If the resistance is on or near one ohm, the wiring will need to be corrected as described in the MODIFICATION PROCEDURE section of this bulletin.

Estimated time required is 0.5 man-hour.

No parts are required to perform this modification.

No special tools or equipments are required.

This service bulletin references 30L-1 RF Linear Amplifier instruction book, Collins part number 523-0122000.

The instruction book is not affected by this bulletin.

MODIFICATION PROCEDURE

NOTE: Do not attempt to expose power switch S2.

The schematic diagram in the instruction book, CPN 523-0122000, shows the proper wiring and TB1 strapping for both 115 and 230 V ac operation. Refer to the schematic while performing this modification.

Refer to the 30L-1 instruction book for disassembly/assembly procedures.

- A. Disconnect primary power.
- B. Remove the outside cabinet.

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- C. Remove the bottom plate.
- D. Refer to the instruction book parts list section for location of fuseholders XF1 and XF2.
- E. Transpose the wires at the tips of the fuseholders. The service loops in the wires permit the transposition with very little difficulty.
- F. Reassemble the unit in the reverse of steps B and C.
- G. The 30L-1 may now be operated from either 115 or 230 V ac by selecting the applicable strapping shown on the schematic diagram.

MATERIAL INFORMATION

No parts are required.