DWG. NO. 150-040595 REV A SH 1

APPLICATION		REVISIONS			
NEXT ASSEMBLY	**FINAL ASSEMBLY**	**REV**	**DESCRIPTION**	**DATE**	**APPROVED**
		A	INITIAL RELEASE	2/15/00	Vern Wallace

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ENGINEER Steve Wagner	2/15/00
ISSUED Vern Wallace	2/15/00

TITLE **SERVICE BULLETIN, WSB RT-138-3 (ATTENUATING RECEIVER SENSITIVITY)**

SIZE	CAGE CODE	DWG. NO.	REV
A	1B7G3	**150-040595**	**A**

SCALE NONE SHEET 1 OF 1

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SERVICE BULLETIN

EQUIPMENT: RT-138, RT-138F DATE: January 31, 2000

BULLETIN NUMBER: WSB RT-138-3 Revision A

DESCRIPTION

This Service Bulletin describes the procedure required to modify the RT-138/RT-138F R/T Board.

APPLICABILITY

This Service Bulletin applies to all RT-138 Transceivers (P/N 400-0102-XXX) and RT-138F Transceivers (P/N 400-014525-XX).

REASON

This modification provides attenuation of the R/T Module for attenuating receiver sensitivity.

EFFECTIVITY

Modification described in this Service Bulletin will be completed on the units specified above.

APPROVAL

Modifications do not affect the original approval.

COMPLIANCE

To be completed at customer request.

REFERENCES

Maintenance Manual, RT-138, P/N 150-0101-000.

Maintenance Manual, RT-138F, P/N 150-1325-000.

MODIFICATION PROCEDURE

CAUTION

All disassembly/assembly must be done at a static-safe workstation. Removed modules should be placed in anti-static bags when not installed in the unit.

1. Disassemble the RT-138/RT-138F as necessary to access and remove the R/T Module, P/N 300-2239-000 (see Figure 1) (refer to the Maintenance Manual, RT-138, P/N 150-0101-000, or Maintenance Manual, RT-138F, P/N 150-1325-000).

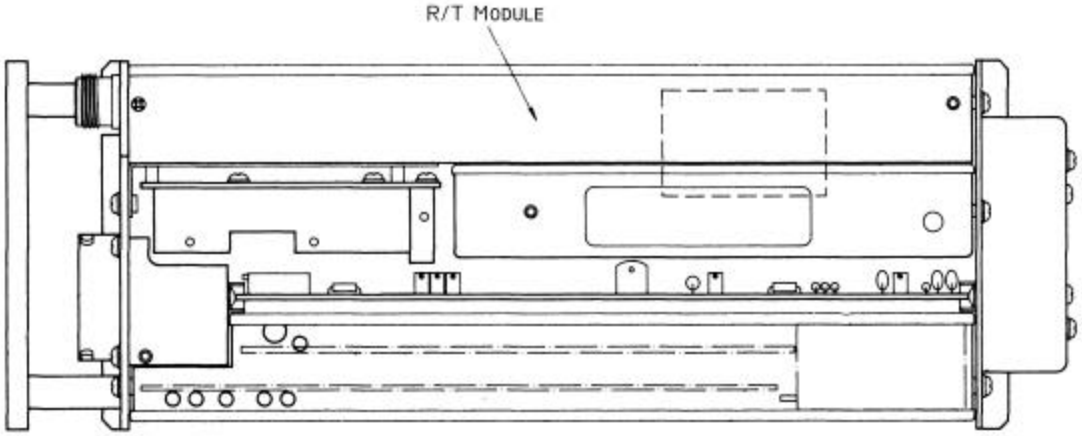

Figure 1. R/T Module Location

2. Remove the cover from the R/T circuit board.

3. Cut the trace located on the solder side of the board between RF Power Splitter PS1 and Air Coil L8 (refer to Figure 2).

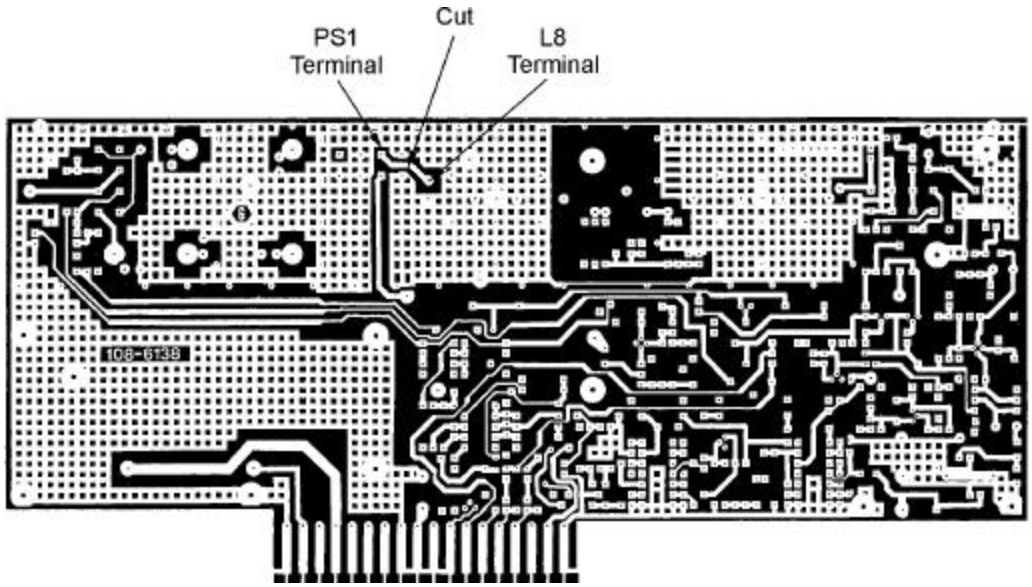

Figure 2. R/T PC Board - Solder Side

4. Select the appropriate resistors from Table 1.

Table 1. Component Selector

Attenuation	R79 (5%)	P/N	R80 (5%)	P/N
0dB	Open	- - -	CJ1 - Short	
3dB	180Ω	230-04008-181	20Ω	230-04008-200
6dB	100Ω	230-04008-101	51Ω	230-04008-510
9dB	75Ω	230-04008-750	91Ω	230-04008-910
12dB	68Ω	230-04008-680	150Ω	230-04008-151
15dB	62Ω	230-04008-620	240Ω	230-04008-241
18dB	56Ω	230-04008-560	360Ω	230-04008-361

5. Install R80 across the cut trace (refer to Figure 3).

6. Install R79 between R80 and PS1 (refer to Figure 3). Ground the other end of R79.

7. Replace the cover on the R/T circuit board.

8. Reinstall the R/T Module and reassemble the RT-138/RT-138F.

IDENTIFICATION PROCEDURE

For RT-138 P/N 400-0102-XXX, mark out on the modification section of the Unit Serial Tag to indicate that Hardware Mod 9 is complete.

For RT-138F P/N 400-014525-00 and -03, mark out on the modification section of the Unit Serial Tag to indicate that Hardware Mod 10 is complete.

For RT-138F P/N 400-014525-50 and -51, mark out on the modification section of the Unit Serial Tag to indicate that Hardware Mod 9 is complete.

TESTING PROCEDURE

Complete a performance test of RT-138 receiver sensitivity in accordance with Maintenance Manual, RT-138, P/N 150-0101-000, Section 4.4.1.

Complete a performance test of RT-138F receiver sensitivity in accordance with Maintenance Manual, RT-138F, P/N 150-1325-000, Section 2.4.1.

MATERIAL INFORMATION

Table 1 lists the parts required to modify an RT-138/138F in accordance with this Service Bulletin.

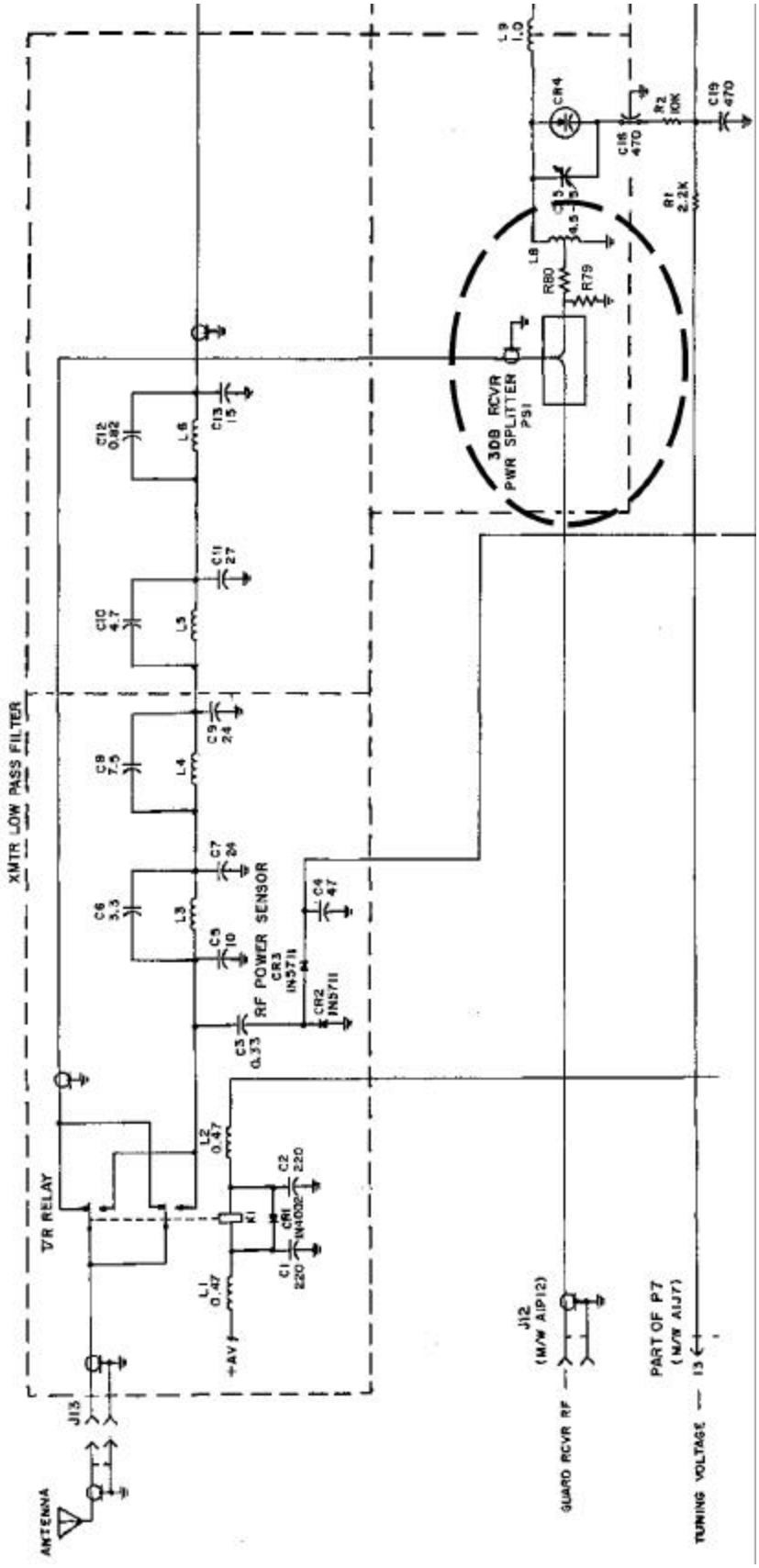

Figure 3. R/T Board Partial Schematic