


REV A	APPLICATION			REVISIONS		
	PRODUCT LINE	REV	DESCRIPTION	DATE	APPROVED	APPROVED
SH 1	RT-30	A	Initial Release per DCN W3940	09/16/04	V. Wallace	S. H. C. E.
DWG. NO. 150-040989						

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		 Wulfsberg Electronics <i>A Chelton Group Company</i>				
APPROVALS	DATE			TITLE: SERVICE INSTRUCTION WSI RT-30-2 REROUTING OF WIRE ON CHASSIS		
DRAWN J. Beaudette	09/16/04					
CHECKED C. Estes	09/16/04					
PRODUCT MANAGER S. Hovelsrud	09/16/04					
ENGINEER K. Harrar	09/16/04	SIZE A	CAGE CODE 1B7G3		DWG NO. 150-040989	REV A
ISSUED V. Wallace	09/16/04	SCALE: NONE			DO NOT SCALE DRAWING	
Typed signatures indicate approval. Handwritten signature approval of this document is on file at Wulfsberg Electronics, Prescott, Arizona.						



Wulfsberg Electronics
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SERVICE INSTRUCTION

EQUIPMENT: RT-30

DATE: September 16, 2004

INSTRUCTION NUMBER: WSI RT-30-2 150-040989 Revision A

EFFECTIVITY

This Service Instruction applies to all RT-30 units built using p/n 148-0232-000 Rev. K or lower.

REASON

Motorola p/n MHW591 (106-7080-000) is obsolete. This part needs to be substituted with replacement Motorola p/n MHW590 (106-741333-01) which requires rework. This rework applies to units built using p/n 148-0232-000 Rev. J or lower. For units built using p/n 148-0232-000 Rev. K, the wire between P7 Pin 7 and Q5 Pin 3 for the RT-30 R/T board is shorting to the chassis and needs to be routed on the back side of the board.

DESCRIPTION

For units built using p/n 148-0232-000 Rev. J or lower, this Service Instruction will add one capacitor, change three resistor values, and add one wire. For units built using p/n 148-0232-000 Rev. K, this Service Instruction will change the routing of the wire.

COMPLIANCE

Upon next scheduled maintenance.

WARRANTY INFORMATION

Units still in the warranty period may be returned for installation of this modification under the terms of the warranty agreement. Units should be sent to:

Wulfsberg Electronics
Attn: Repair and Overhaul Department
6400 Wilkinson Drive
Prescott, Arizona 86301

APPROVAL

This modification does not affect the original approval.

REFERENCES

RT-30 Maintenance Manual, P/N 150-0100-000.

MATERIAL INFORMATION

The parts required to modify this unit in accordance with this Service Instruction are available from Wulfsberg Electronics at (928) 708-1518.

PARTS REQUIRED

For units built using p/n 148-0232-000 Rev. J or lower:

ITEM	QTY	U/M	PART NUMBER	DESCRIPTION	REF
1	1	EA	230-040008-153	CARBON COMPOSITION RESISTOR, 15K OHM, 1/4W 5% 250V	R51
2	1	EA	230-040008-223	CARBON COMPOSITION RESISTOR, 22K OHM, 1/4W 5% 250V	R52
3	1	EA	230-040008-473	CARBON COMPOSITION RESISTOR, 47K OHM, 1/4W 5% 250V	R108
4	1	EA	208-0004-000	CAPACITOR, 100PF 10% 1KV X5F RADIAL DISC	C3
5	AR	AR	16020-2	WIRE, 20 AWG RED	

Perform the following modification on units built using p/n 148-0232-000 Rev. J or lower:

Unless otherwise noted, the sequence of rework can be adjusted to facilitate manufacturability.

1. Run Item 5 from P7 Pin 7 to Q5 Pin 3. See Figure 1A.
2. Run Item 5 from P6 Pin 10 to P7 Pin 7. See Figure 2A.
3. Add Item 4 (100pF capacitor) to P7 between pins 5 and 7. See Figure 2A.
4. Change R51 to Item 1 (15K resistor). See Figure 3A.
5. Change R52 to Item 2 (22K resistor). See Figure 3A.
6. Change R108 to Item 3 (47K resistor). See Figure 3A.
7. Cut trace between R66 and Q5 just before the trace goes under L23. See Figure 3A.

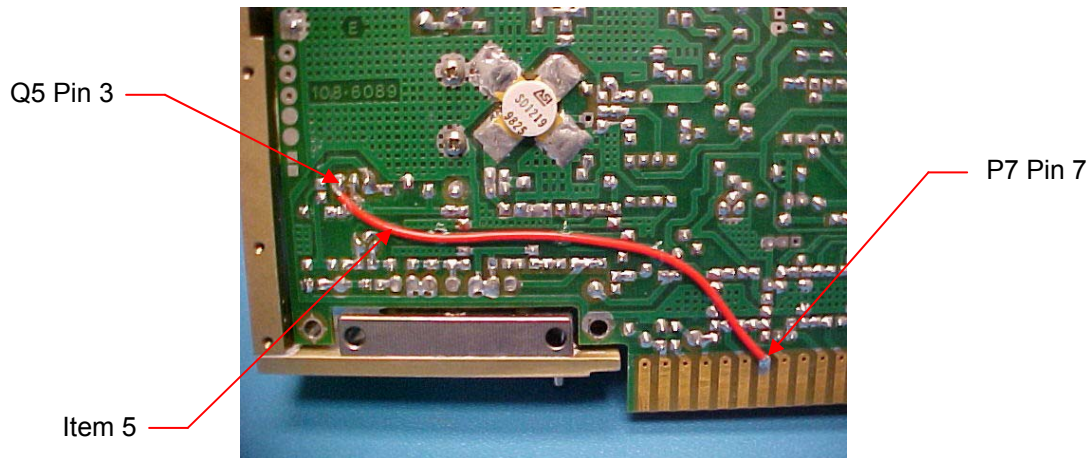
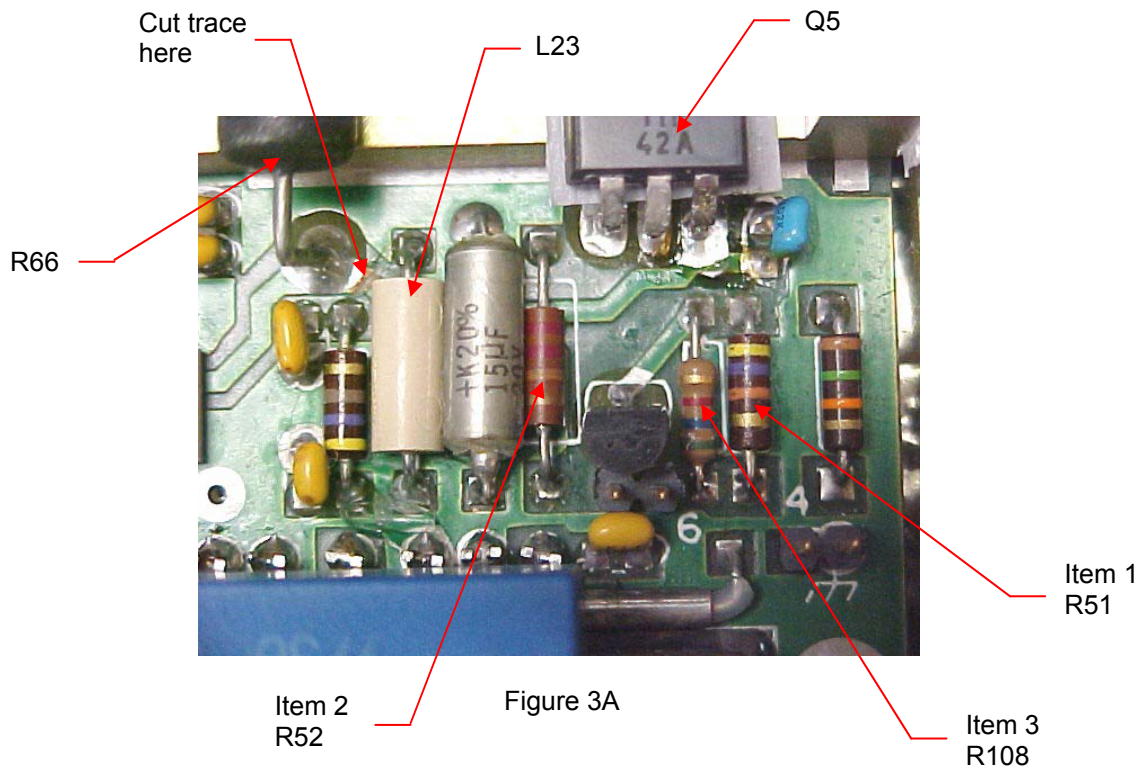
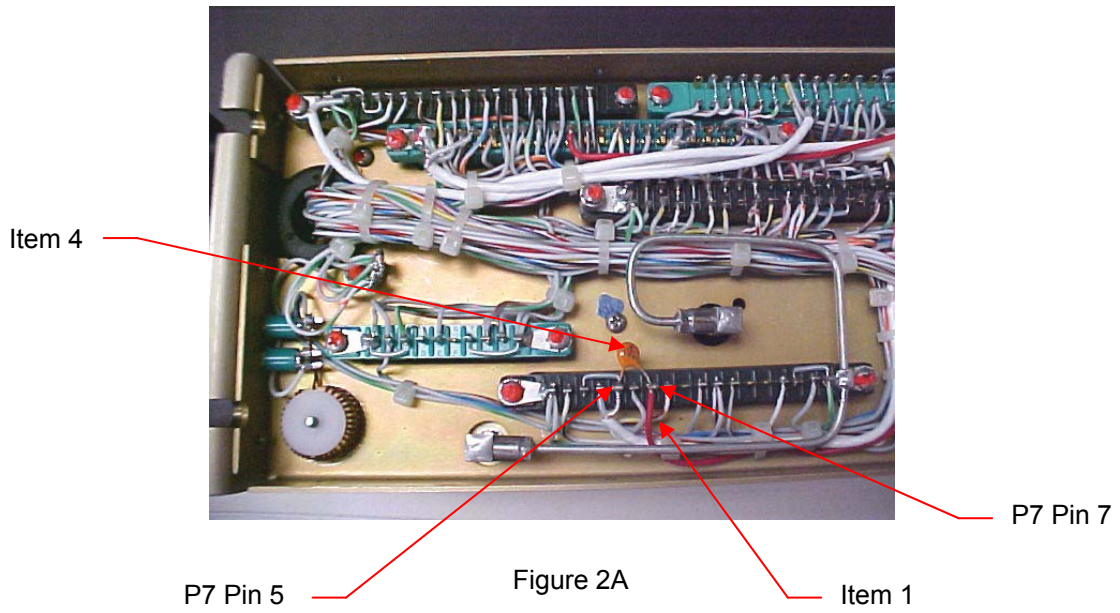


Figure 1A



TESTING PROCEDURE

Perform a complete functional test of the unit in accordance with the Maintenance Manual.

IDENTIFICATION PROCEDURE

Upon completion of this Service Instruction, mark the board with WSI RT-30-2.

For units built using p/n 148-0232-000 Rev. K only:

ITEM	QTY	U/M	PART NUMBER	DESCRIPTION	REF
1	AR	AR	16020-2	WIRE, 20 AWG RED	

MODIFICATION PROCEDURE

CAUTION

ANY DISASSEMBLY/ASSEMBLY OF THIS UNIT MUST BE DONE AT A STATIC SAFE WORKSTATION. REMOVED MODULES SHOULD BE PLACED IN ANTISTATIC BAGS WHEN NOT INSTALLED IN THE UNIT.

Open the RT-30 and gain access to the R/T Board (400-0098-00X) per the Maintenance Manual.

Perform the following modification on units built using p/n 148-0232-000 Rev. K only:

Unless otherwise noted, the sequence of rework can be adjusted to facilitate manufacturability.

1. Remove wire from P7 Pin 7 and Q5 Pin 3 as shown in Figure 1B.
2. On opposite side of board, run Item 1 from P7 Pin 7 to Q5 Pin 3 as shown in Figure 2B.

TESTING PROCEDURE

Perform a complete functional test of the unit in accordance with the Maintenance Manual.

IDENTIFICATION PROCEDURE

Upon completion of this Service Instruction, mark the board with WSI RT-30-2.

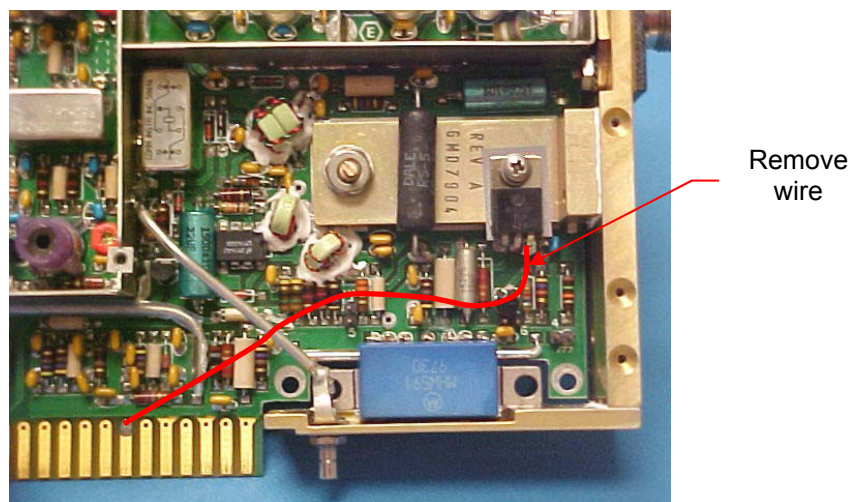


Figure 1B

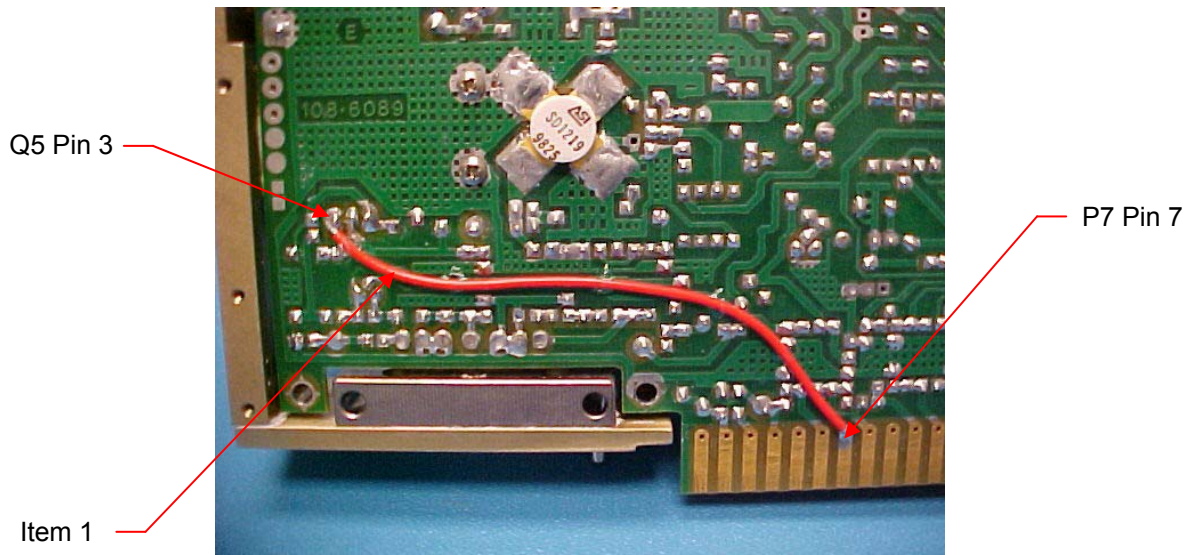


Figure 2B