DATE 10 February 1965 SHEET 1 OF 5	TMC SPECIFICATION NO. S-919	A
RRH COMPILED / CHECKED	TITLE:	
APPROVED RJC	Typed by mtp	

KIT 229

MODIFICATION, RF INPUT, SBS-1A

OGILVIE PRESS, INC., BROOKLYN 17, N. Y. STOCK NO. 439M

DATE 10 February 1965 SHEET 2 OF 5	TMC SPECIFICATION NO. S-919	A
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1. PURPOSE:

To modify RF input to SBS-1A so that selection of one of two receivers can be made by a switch on the front panel of the SBS-1A.

2. MATERIALS REQUIRED:

ITEM NO.	QTY.	TMC P/N	DESCRIPTION	USED TO MOUNT
1	1	RL157-1	Relay, Coax	
2	1	MP123-1FB	Knob	
3	1	SW197	Switch SPDT	
4	1	NP759	Adapter Plate, Switch	SW192
5	1	MS4360	Mounting Bracket	RL157
6	1	CA480-3-6	Cable Assembly, RF	
7	1	LWI37MRN	Washer, Lock	SW197
8	1	NTH3738BN16	Nut, Hex	SW197
9	3	SCBP0632BN5	Screw, Machine	MS4360
10	3	NTH0632BN8	Nut, Hex	MS4360
11	3	LWE06MRN	Washer, Lock	MS4360
12	4	SCBP0348BN5	Screw, Machine	RL157-1
13	4	LWS03MRN	Washer, Lock	RL157-1
14	4"	PX830-12-1	Sleeving, Shrink Type	
15	1"	PX830-18-1	Sleeving, Shrink Type	
16	4	SFB0256SN3	Screw, Self Tapping	NP759
17	6"	MWC24(7)U92	Wire, Insulated (WH/RED)	
18	24"	MWC24(7)U97	Wire, Insulated (WH/VIO)	
19	18"	MWC24(7)U98	Wire, Insulated (WH/GRY)	
20	1	EY102-1	Grommet	
21	33"	MWC24(7)U98	Wire, Insulated (WH/GRY)	
22	33"	MWC24(7)U92	Wire, Insulated (WH/RED)	
23	10	CU142-6-9	Cable Straps	
24	1	DRILL BIT	DRILL,TWIST 3/8"	
25	1	DRILL BIT	DRILL,TWIST 3/16"	
26	1	DRILL BIT	DRILL,TWIST 5/32"	

3. INSTALLATION PROCEDURE-Main Chassis

A. Mount Item 4,NP759,on the left side of front panel of SBS-1A,using self-tapping screws SFB0256SN3,Item 16,and holes in panel intended for nameplate.

B. Using item 4 as a template,drill a 3/8" hole in panel.

C. Mount Item 3, SW197, in the hole produced by Step B above, using lock washer (Item 7), and nut (Item 8). Orient switch so that when knob (Item 2), is in place, the latter's index line will point to the top of the panel wh n it is half way between its two operating positions.

D. Install knob, Item 2, as indicated in C, above.

E. Sold r WHITE/GRAY wir , (Item 21), to the rotor t rminal of th switch, It m 3). Sold r WHITE/RED wir , Item 22, to terminal #2 of th switch.

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F. Feed the two wires parallel to the main cable harness to plug P6800, (PL212-3). Solder the other end of Item 21 to Pin A of P6800, and that of Item 22 to Pin B. Insulate both wires with 1/2"sleeving (Item 14), at the plug. Lac these two wires in place, and apply plastic tape as required.

G. Make continuity check with ohmmeter across Pins A and B of P6800. Meter should show open circuit with switch in "REC. 1" position, and closed circuit (zero ohms) with switch in "REC.2" position.

4. INSTALLATION PROCEDURE- Power Supply:

A. Refer to Figure 1, and drill a 3/16" hole in the rear plate of th power supply. Insert grommet, EY102-1, (Item 20).

B. Drill three 5/32" holes for the relay supporting bracket.

C. Mount relay, RL157-1 (Item 1) on bracket, MS4360 (Item 5) with 4 screws, SCBP0348BN5 (Item 12) and four lock washers, LWS03MRN (Item 13).

D. Install relay mounting bracket on the rear plate of the power supply, using three screws, SCBP0632BN5 (Item 9), three lock washers, LWE06MRN (Item 11), and three nuts, NTH0632BN8 (Item 10).

E. Solder one end of WHITE/GRAY wire, (Item 19), to terminal #2 of T7003 (TF240). Solder the other end to Pin A of J7002 (JJ200-3) using 1/2" of sl eving, (Item 14) to insulate the pin.

F. Solder one end of wht/vio wire (it.18) to terminal 4 fo T7003.Feed the other end of the wire through the grommet and solder to one terminal of RL157-1. Insulate terminal with SHRINK tubing (it.15).

G. Solder one end of wht/red wire (Item 17), to pin B of J7002 (JJ200-3). Insulate the pin with 1/2 of sleeving,Item 14. Feed the other end of the wire through the grommet,as in F above,and solder to the remaining coil terminal of RL157-1. Insulate terminal with SHRINK tubing as in F above.

5. RF CONNECTIONS:

Fasten one end of coaxial cable assembly CA480-3-6 (Item 6) to th bottom of BNC connector of RL157-1, and the other end to either J6800 or J6801, as r - quired. The two remaining BNC connectors on the relay are for customer's connection to the IF outputs of the two receivers to be used.

6. FINAL CHECK OF OPERATION:

A. Connect CA480-3-6 (Item 6) to J6801 (High Z). Check resistance betwe n Receiver connections on RL157-1. Connector which shows reading of approximately 8 ohms with switch in "REC. 1" position should give a reading of zero when switch is thrown to "REC. 2" position. If SBS-1A is to be used with 50 ohm input from r ceivers, return CA480-3-6 to J6800.

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APPROVED	FIGURE 1.	

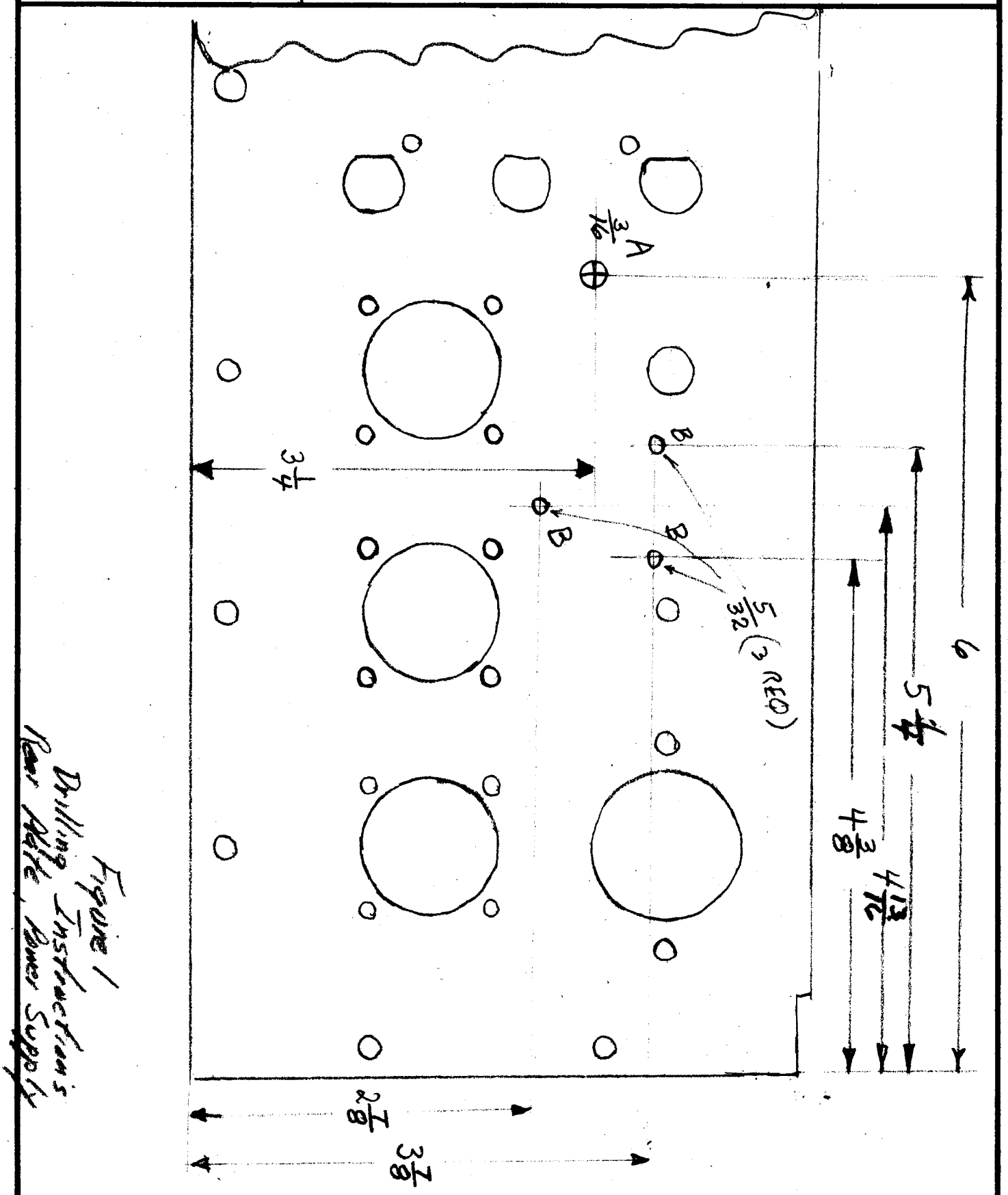

Figure 1
Drilling Instructions
Rear Plate, Power Supply

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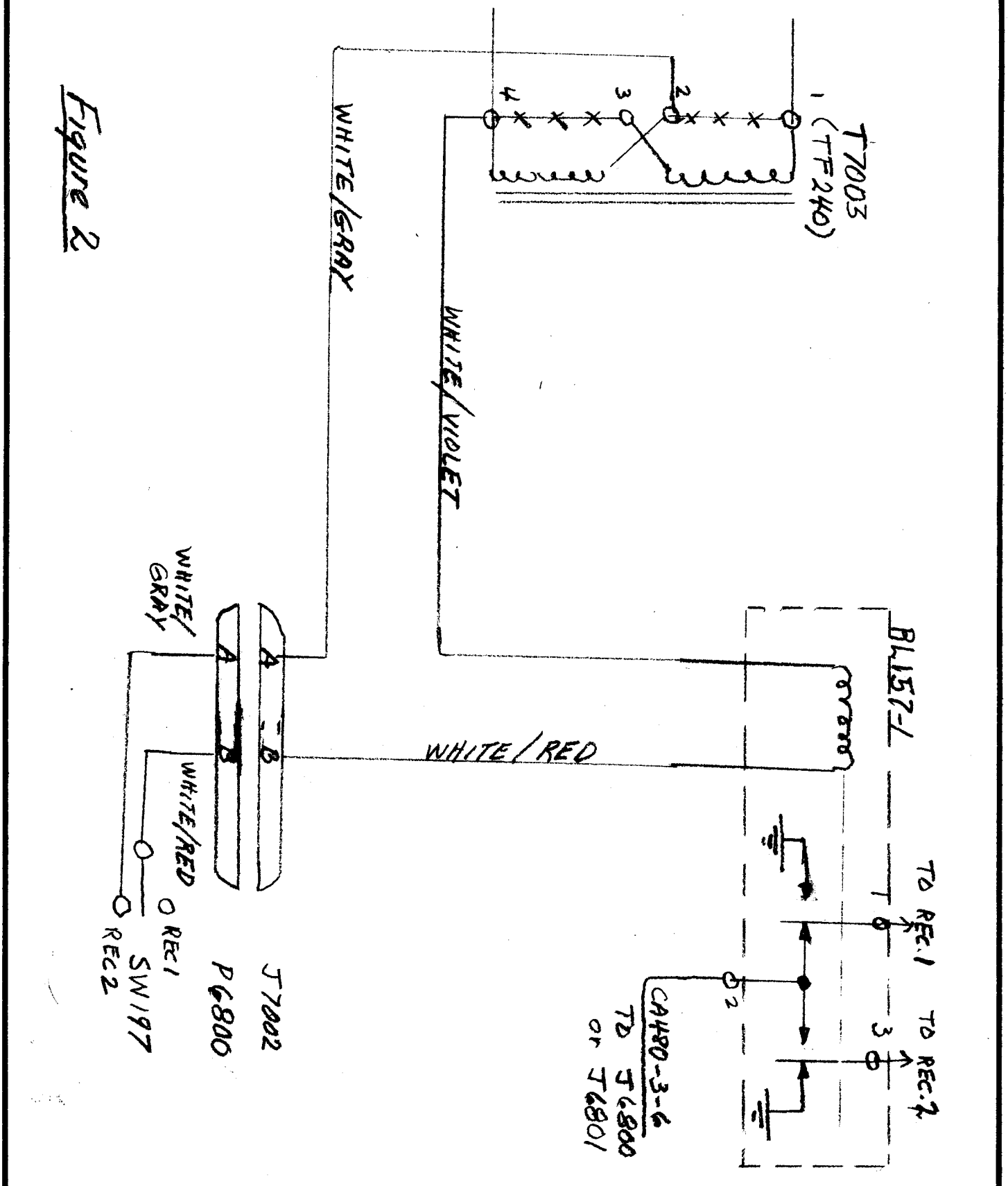

Figure 2

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REVISION SHEET

THE TECHNICAL MATERIEL CORP.
MAMARONECK NEW YORK

S-919
LIST NO.

DATE	REV.	SHEET	EMN #	DESCRIPTION	APP.
2/11/65		1 of 5		O= ORIGINAL RELEASE FOR PRODUCTION.	
3/26/65	A	2,3	13788	Revised sht. 2,3per EMN	K