	TMC SPE	CIFICATION	NO. S	1185
REV: Ø				
COMPILED:	EH MIB CHECKED:	APPD: C	SHEET	1 OF 7
TITLE:			/	
	typed by vita	2/1/67		

STR-2Y

MODIFICATION INSTRUCTIONS

KIT-331

2**88** まるA**を成**った。 、 元

TM	C SPECIFICAT	ON	No. s 1185										
REV: Ø A													
COMPILED: NAB	CHECKED:	APPD:	SHEET 2 OF 7										
TITLE: STR-2Y MODIFI	TITLE: STR-2Y MODIFICATION INSTRUCTIONS KIT-331												
typed by vita	9/27/67												

I. Receiver Model STR-2 will be modified to provide squelch operating characteristics as follows:

Squelch Threshold:

The squelch shall enable the receiver to produce audio output at any antenna input level from 3 microvolts to 100,000 microvolts of a 30% modulated or equivalent input. The threshold adjustment will operate in conjunction with a squelch sensitivity adjustment so that threshold settings will not be unduly critical or difficult to establish after proper AGC settings have been accomplished.

Squelch Dropout:

The receiver will be automatically muted not more than 0.5 second after the voltage at the antenna input has dropped 6 db below the squelch threshold range of 3 to 10 uv. This relationship will hold over the entire squelch adjustment range.

Upon completion of modification, STR-2 becomes STR-2Y.

II. MATERIALS FURNISHED BY TMC:

ITEM	QTY	TMC PART NO.	DESCRIPTION	SYMBOL
1	1	A4551	PC BD Assembly	
2	1	CC-100-28	CAP., FXD, CER.	C-1850
3	1	RV106UX10C501A	RES., VAR.	R1557
4	1	CL275-103	Coil, RF, FXD	L1801
5	1	RC20GF561J	RES., FXD, COMP.	R1814
6	1	RC20GF102J	RES., FXD, COMP.	R1534
7	1	MWC22(7)U93	WIRE, ELECT.	
8	1	CE105-20-15	CAP., FXD, ELECT.	C1849
9	3	SCPB0632BN12	SCREW, MACH.	
10	3	NTH0632BN8	NUT, HEX	

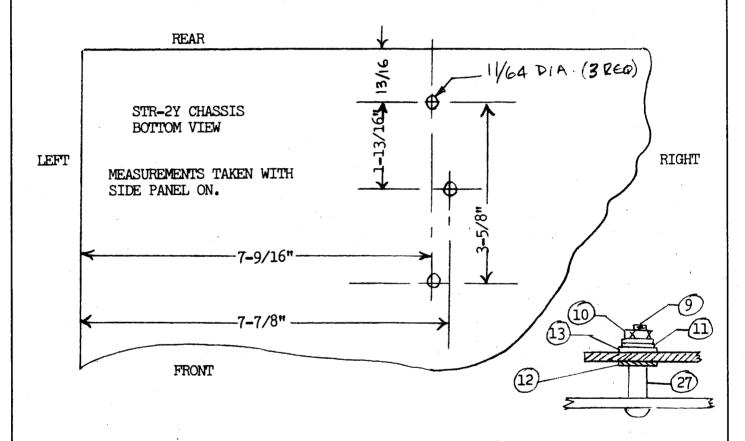
	1 7 7 7	TMC SPE	CIFICATION	No. s 1185
REV:	o: NAB	SUECKED	4.555	SHEET 3 OF
TITLE:		CHECKED:	NSTRUCTIONS KIT-331	SHEET 3 OF
	typed by			
	ITEM	QIY	TMC PART NO.	DESCRIPTION SYMBOL
	11	3	LWIO6MRN	WASHER, LOCK, INT.
	12	3	WA-109-36	WASHER, FIBRE
	13	3	FWO6HBN	WASHER, FLAT
	14	1	NP362-80	Mod. Nameplate
	15	1	CK1272	Schematic Diagram
	16	1	S1204	Test Procedure
	17	1	RC20GF223J	RESISTOR, FIXED R1658
	18	16"	MWC22(7)U2	WIRE, ELECT. (RED)
	19	24"	MWC22(7)U6	WIRE, ELECT. (BLUE)
	20	7"	MWC22(7)U0	WIRE, ELECT. (BLACK)
	21	36"	RG-188/U	WIRE, COAXIAL
	22	12"	MWC22(7)U93	WIRE, ELECT. (WHT/ORN)
	23	30"	MWC22(7)U7	WIRE, ELECT. (VIOLET)
	24	10"	MWC22(7)U3	WIRE, ELECT. (ORANGE)
	25	10"	MWC22(7)U4	WIRE, ELECT. (YELLOW)
	26	8"	PX-830-16-1	SHRINK TUBING
	27	3	TE-117-2	SPACER 3/8"
	28	1	DRILL BIT #60	BIT, DRILL #60
	29	1	A4551 REVISION "A"	
	30	1	TP-131-1	RUBBER STAMP
	31	1	SQUELCH/THRESH. STAMP PAD, BLACK	STAMP PAD

NOTE: ENSURE THAT KIT-304-1 HAS BEEN INSTALLED BEFORE PROCEEDING WITH THIS MODIFICATION.

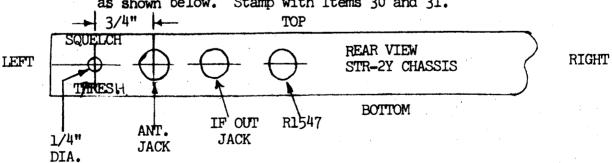
		T	MC :	SPI	ECII	FIC	ATI	<u>0</u> 10	l			N	o. s	1185		
REV: Ø	A															
COMPILE	: NA	B	CHE	CKED	:			API	PD:			SH	EET	4	OF	7_
TITLE:	STR-2	Y MODI	FICATI	ON I	NSTRU	CTIO	NS KI	T-33	31							
	typed	l by v	ita	9/	/27/67	•										

III. PROCEDURE:

1. Using items 9,10,11,12,13, & 27 install A4551 (Item 1). See drilling and mounting details below.



2. Install R1557 (Item 3) RV106WX10C501A. Use drilling plan as shown below. Stamp with Items 30 and 31. → 3/4" TOP



Mount R1557 with wiper pin closest to left side of chassis.

		•			TN	AC		SP	EC	ZIF	7	A	TI	010	Ī			N	o. s	1185	5		
REV: Q	5 1	1																					
COMPILE):	N/	AB			C	HEC	KE	D :	•				AP	PD:			SI	HEET	5	OF	7	
TITLE:	S".	ľR-	-2Y	MO	DIF	ICA	TI	ON :	INS.	IRU	CTI	ONS	KI	r – 33	31		 						
	ty	γpe	ed 1	οу	vit	a		9/	27/0	67													

- 3. Remove 5 screws securing A4020 Board and gently lift rear out and upward.
 - a. Remove C1807.
 - b. Connect a .1 uf capacitor (Item 2) between junction CR1803 and CR-1805 and ground.
 - c. Change value of L1801 from 47,000 uh to 10,000 uh. (Item 4)
 - d. Change value of R1814 from 330 _ to 560 _ (Item 5)
 - e. Change value of R1534 from 4.7K to 1K , (Item 6), Adjacent to R1547 on rear panel.
- 4. Remove 4 screws securing A3190 Board and locate 33 ohm resistor R1659 .
 - a. Drill #60 hole about 5/8" to the left of the back hole of R1659 on the audio board. See Figure 1. (ITEM 28)
 - b. Lift the front side of R1659 and insert into the new hole.
 - c. Connect a 18" ORANGE/WHITE wire (ITEM 7) to R1659 on the bottom side of the audio board and run to Terminal 10 on A3153 Power Supply Board.
- 5. From Terminal 1 of A4551 jumper to Terminal 8 and 13 using a RED wire 16" long to the positive side of C910. (ITEM 18) Refer to ITEM 29.
- 6. From Terminal 2 of A4551 run a BLUE wire to the bottom end of R1557. (Rear Panel) (12" ITEM 19)
- 7. From Terminal 3 of A4551 run a BLUE wire to the top end of R1557. (12" ITEM 19)
- 8. Jumper Terminal 4, 5 and 15 of A4551 with (ITEM 20) BLACK wire and from Terminal 4 of A4551 to the ground lug on the mounting screw of J1511, use the remainder of (ITEM 20).
- 9. From Terminal 6 of A4551 run a coax to the inside hole where C1807 was removed, ground the shield to Terminal 5 of A4551 12" (ITEM 21).
- 10. From Terminal 7 of A4551 run a coax to the outside hole where C1807 was removed, ground the shield to Terminal 5 of A4551. 12" (ITEM 21)
- 11. From Terminal 9 of A4551, run a ORANGE/WHITE wire to the junction of L1801 and R1805. (ITEM 22)

	TM	C SPECIFIC	ATIC	N	 	NO. S	1185			
REV: Ø	A									
COMPILED:	NAB	CHECKED:		APPD:	 •	SHEET	6	OF	7	
TITLE:	STR-2Y MODIFI	CATION INSTRUCTIO	ns kit	-331						
	typed by vab	9/27/67								

- 12. From Terminal 10 of A4551 run a VIOLET wire to the wiper of F1557. 12" (ITEM 23)
- 13. From Terminal 12 of A4551 connect a VIOLET wire and run it to Terminal 2 of J1511. (Remove all existing wire from Terminal 2.) 8" (ITEM 23)
- 14. Run a coax from Terminal 14 of A4551 to the junction of C1840 and 1809's collector. Ground the shield at Terminal 15 of A4551. 12" (ITEM 21)
- 15. From Terminal 16 of A4551 run a ORANGE wire to Terminal 14 on A3190 (audio board). (ITEM 24)
- 16. a. Disconnect the VIOLET wires from Terminal 6 of A3190 (audio board).
 - b. Disconnect the VIOLET wire from Terminal 9 of A4020 (IF board). Pull out the VIOLET wire that was connected to Terminal 9 of A4020B.'
 - c. Connect the remaining VIOLET wire that was connected to Terminal 6 of A3190 to Terminal 9 of A4020B.
- 17. Run a YELLOW wire to Terminal 17 of A4551 to Terminal 6 of A3190 (ITEM 25).
- 18. On Terminal 2 of J1511 there is a VIOLET wire that was disconnected in Step 13, above. Check this wire for continuity to Terminal 9 of A4020 (IF board). Splice a short piece of VIOLET wire to it and run to Terminal 11 on A4551.
- 19. From wiper of R1814, completely remove the wire which runs to the AGC line (this may be at the underside of Terminal 9 of A4020).
- 20. From Terminal 12 on A4551, run a VIOLET wire to the wiper of R1841. 10" (ITEM 23)
- 21. Remove R1658 on audio board (A3190) and replace with Item 17 (22K resistor).
- 22. Install Item 8 (20 mfd CAP ELECT.) in place formerly occupied by C-42. C-42 was removed when KIT-304-1 was installed. Positive side to Q10 BASE.
- 23. Carefully reinstall lifted boards. Test as per S1204 (ITEM 16). Attach nameplate (ITEM 14) when modification is complete.

	TMC S	PECIFICA	TION	NO. S 1185	
REV: Ø A					
COMPILED: NAB	CHECK	ED:	APPD:	SHEET 7	OF 7
TITLE: STR-2Y	MODIFICATIO	N INSTRUCTIONS	KIT-331		-
typed b	y vita	9/27/67			

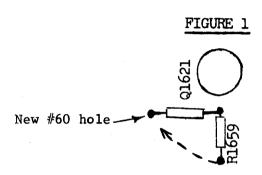
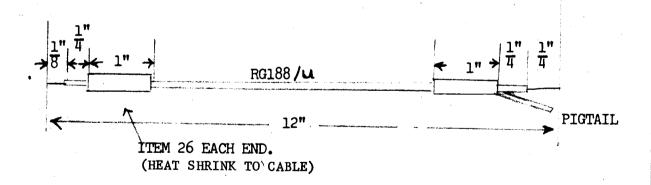


FIGURE 2



REVIS	HOI	SHEET	ſ	THE TECHNICAL M	ATERIEL CORP. NEW YORK	S 1185	
DATE	REV.	SHEET	EMN #		DESCRIPTI		APP.
3/31/67		†		ORIGINAL RELEAS	·		NOe
9-29-67		ALL	18532	COMPLETELY		20.	18 de
		_				· · · · · · · · · · · · · · · · · · ·	
		<u> </u>					<u> </u>
						W. Commission of the Commissio	
							<u> </u>
		<u> </u>	!				
		<u> </u>					
							
		_					
		<u> </u>					
		_			-	Hadan Market and American Amer	
			<u> </u> !			PRINCIPAL STATE OF THE STATE OF	
]				
			<u> </u>				
							
		_					
							
,		i i	1				