		TMC SPEC	CIFICAT	ION		NO. 5 107	.3
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25

TEST PROCEDURE

for

PTE-4

TM	NO. 5 1073		
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COMPILED: L.L.	CHECKED:	APPD:	SHEET 2 OF
TITLE: PTE-4 TEST PRO	OCEDURE		
Typed by mpt 2/23/6	<u>်</u>		

This specification outlines the testing and check out procedure for the PTE Spectrum Analyzer which consists of three major units (FSA, VOX and TTG).

When testing is required for only unracked units that make up a PTE Spectrum Analyzer, i.e. FSA, VOX and TTG, these units will be inter-connected as an Analyzer system with an external voltage regulator for the FSA, and all checks and tests will be performed, except those for the "Manual Sweep", Steps 56 thru **58**. Under "Remarks" on the Test Data Sheet, the following notation will be inserted:

"Unracked Spectrum Analyzer units, FSA, VOX and TTG tested as a system without Manual Sweep."

PRELIMINARY

A routine mechanical check and inspection of inter-connection cabling etc., must be made before proceeding with the checks and tests covered by Steps 1 thru. The tester is cautioned that the checks and tests outlined below must be accomplished in the order given, from Steps 1 thru 40. If trouble is experienced at any step, it must be found and corrected before proceeding to the next step.

Set controls on panels as follows:

UNIT	PANEL DESIGNATION	SETTING
FSA	Sweep Width	Fully CW
11	IF Bandwidth	Fully CW
**	Video Filter, Hi/Off/Lo	Off
***	Sweep Rate	Fully CW
H	Input Attenuator	All switches up
11	5 KC Marker	Off
11	Illumination, Power Off	Off
11	Cal OSC Level	Off `
11	IF Atten.	0 db
H	Sweep Width Selector	VAR
11	Amplitude Scale	LIN
11	Center Frequency	Center on Panel Mark
11	AFC	Off
	Cont'd.	

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	TMC SPECIFICATION	ON		NO. 5 1073							
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TITLE: PTE-4 TES	T PROCEDURE										
Typed by mtp	2/23/66										
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UNIT	PANEL DESIGNATION		SETTING	<u>G</u>							
FSA	Gain		Fully	CW							
Control Panel	Manual Sweep		Auto								
VOX	Beat		Switch	down (off)							
**	Meter		VMO								
11	Power		Switch	down (off)							
11	HFO/IFO/BFO		All sw	tches down (off)							
n	Output		Fully (CW							
··	Band - MCS		2-4								
"	XTAL		VMO								
TTG	Audio Tone Selector		Off	·							
11	RF Tone Selector		Off								
11	Power		Off								

The positions of all other controls are optional.

CONNECTIONS

Connect Power Cable, TMC #CA-575-1, to line voltage supply. Connect test cable, (TMC #CA-480-1-18.00) from signal input jack of FSA to RF TONE OUT jack of Control Panel.

Proceed with the test and checkout of PTE- $\frac{1}{4}$ as outlined below - Steps 1 thru 60.

STEP	OPERATION	FUNCTION	NORMAL INDICATIONS
	Place POWER switch of VOX in ON position.	Supplies power to VOX tube filaments and oven heater elements.	MAIN POWER indicator light ignites and remains lit. INNER OVEN and OUTER OVEN indicator lights ignite cycling times: OUTER OVEN light goes on for about 5 seconds, and off for about 30 seconds; INNER OVEN go s on for about 90 seconds and off for about 90 seconds.

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STEP		OPERATI					FUNCT	TION					N	IORMAI	INI	DICAT	TIONS			
2.	Wait for OVEN lig d scribe while wa with Ste	hts to din Stations,	cycles ep 1. proces	s as	stabi stabi	oven t lized lizes lency	, whi	ich : er d	in tu oscil	rn late	or									
3.	Turn ILL clockwis		ON kno	bb	power and c illum	ies a to F ontro inati creen	SA. ls br on li	Also ight	tur tness	ns of	on	Illi scre CW : from a m: line	umin een turn m CC inut	or li ation will ing o W tur e, a	lig brig f kr ning stra	ghts ghten hob a Light	arou from nd d n ab	nd m im out e-		
¥•.	Adjust Bluntil tradiscernil least 30 Then adjust for sharp	ace is cole. All minutes ust FOCU	just Llow a s warm JS kno	t up.	Focus scree	es elo n	ectro	n be	eam o	n		Brightness of trace responds to movement of BRILLIANCE knob. Sharpness of trace responds to movement of FOCUS knob.								
5•	Adjust V that base coincides edge of a screen.	eline tr with b	ace ottom		Calib mov e m				. bear	m		Baseline trace responds vertically to V POS movement.								
6.	Adjust H approxima baseline screen.	tely ce	nter		Appro on gr		ely co	ente	rs sv	weep			zon	e tractally				ob		
7.	Turn CAL fully clo	ckwise.	Tur		Connecto FSA tation	A inpu	it. (Cloc incr	kwise eases	ro	-	near	cei	pip a nter o	of s	cr e	n and	Į.		
7a.	Set sweep position; verter of LINE SIZE mal adj.) line size side of g turn swee	remove FSA. contro for pr (1/4" raticul	top d Adjust 1 (in oper d on ea e) Si	con- t ter- base- low-	Achieves optimum resolution.							Pip base narrows to optimum resolution point and further sweep rate reduction has no indicated effect.								

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STEP			PERA	TION	-		╂			FUNC	TIO	N			NORMAL INDICATIONS									
7a. Cont.	CCW ur tion i adjust	is o	btai	ned.	Re	-					····										-			
8.	Turn (until scale screen scale)	pip def	rea Clect	ches	ful on		Fur	the	r in	crea	ses	500K0	C in	put	-					clock		е		
8a.	at 3.5 off an control adjust (inter for pi screen Turn s to 500 and ad Z102 (ment) on scr after	With sweep width control at 3.5 kc position, AFC off and center frequency control on center line, adjust CF pad control (internal adjustment) for pip centring on screen. Turn sweep width control to 500 cycle position and adjust rear screw on Z102 (internal adjustment) for pip centering on screen, (remove tool after each adjustment; very critical).																						
9.	In VAR SWEEP comple clockw wid ns line.	WID tel vise	TH k	nob unte: unti:	to r- l pi	p						idth i					appe elev			race n	ay			
10.	Adjust for ma trace. below with C marker on cha height	IXIM IO ENT , a	f transfer on L. ER Fl.	eigh ace : IN so REQ o t CF	t of is cale on pad		5001	CC,	pass	sing	thi	RF chrough test	a g	rea-	adj	ustr	_			ised t	•			

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STEP		OPERAT	ION				FUNC	TIO	N					NORM	AL IN	NDICA	TION	S	
11.	Turn SWI fully cl				decr as a 10,	easing resu	s swee ng pip nlt of 500KC enter	wie tu	dth. rning beer	Als g in n bro	Step	near, center of grid on screen.							
12.	Adjust I the pip the cent calibrat screen.	coinci er fre	des wi quency	th	Cent	ers s	weep	on e	grid	•		bri bra tra	ngs tion ce	pip n. / exter	to d about ads b	ente : 1/4 peyon	S kn r ca " of d gr side	li- id	
13.	Place 5K in ON po GAIN kno 5 KC pip	sition b to b	. Tur	n	lato 500 and	r whi KC si diffe inte	buil ch he gnal rence rvals	trod to p	dynes produ equen	wit uce s ucies	h um at	pip 7 a	s aj	ppear	acr	oss	scr	marken en - 00 KC	
14.	Turn SWE counter-tion. To maxim position	clockw hen re um clo	ise di: turn k	rec-	Counter-clockwise movement of SWEEP WIDTH knob decreases sweep width.								5 KC pips move away from center as SWEEP WIDTH knob is turned counter-clockwise.						
15.	Place 5 in OFF p just GAI pip back deflecti	osition N knob to fu	n and a	ad- ing	Turns	s 5 K	C osc:	illa	itor	off.		5 K	C pi	p di	sapp	ears	•		
16.	Turn SWE fully co position	unter-			from	swee	awtoot p gene sweep	erat	or,			tion its spon left (or per:	nter m sl n ac CCW t mc t at	c-clo lows ross ext ves the e wi	ckwi down the reme from rate	se, in scr pos: right	electits meen. ition to	At At cons	
17.	Turn SWE				Chang cps.	ges si	weep r	rate	bac	k to	30	line	e.	Pip	ampl:	i tude	s sol	urns	
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STEP		OPERATIO	N	—	FUNC	TION				_NORMA	L IN	DICA	TIONS	5			
17a.	control	turn SWEE CCW with ion is ob	optimum	Achiev	res optim	um resol	Lution		resol sweep	ase na ution rate ated e	poin redu	t and	d fui	rther			
18.	until the	SWEEP WID ne pip ba approxima f the scr	se tely one		ases swee um positi		from :		decre	idth i ase of eight	swe	ep w	idth.				
19.	in count direction appears (left si pip. Ad ringing apex of	BANDWIDT ter-clock on until on trail ide) of 5 ijust unt notch be the pip e baselin	wise ringing ing edge 00 KC il first yond the dips	point resolu sweep	use IF ba suitable ation wit rate and as set i	for opt h a 30 c the swe	imum :ps :ep		turne pip ba At the	IF BAN d coun ase wi e same change	ter- dth tim	clock decre	wise eases nere	may			
20.	Turn AFC	C switch	ON.	cuit f reacta maximu	on AFC for the control of the contro	ixer to lator. width ad	V4 Change just-		500 KC pip distorts into an elevated line.								
21.	fully cl SWEEP RA spot mov at the r mately 5 cond. A WIDTH kn	EP WIDTH Cockwise. TE knob wes across tate of a times positional times to be to observed.	Adjust until s screen pproxi- er se- BAND- tain	Adjust bandwi	s sweep s s sweep dth for or 2 KC	rate and optimum	IF resolu		Pip may now appear shifted off center.								
22.	off cent to appro pip and knob as	er, turn ximately use CENTI a vernier center p:	ER FREQ adjust-	came d	s V4 circetuned by				As AFC knob is turned clock-wise, the display may shift to the left, then to the right. Normally, with the AFC knob and CENTER FREQ knob manipulated as described in Operation column, the pip should center.								
	TMC FORM SE	PEC 1					<u>-</u>	i					2M 9	-65-AINS			

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STEP	OPERATION	FUNCTION	NORMAL INDICATIONS							
23.	Adjust GAIN knob for full scale deflection of pip. Place AMPLITUDE SCALE switch in LOG position.	Switches in a feedback circuit from V10 detector to V9 IF amplifier which has the effect of presenting pip amplitudes on the screen in a log relationship rather than linear.	Pip height reduces to 20 db on LOG scale on screen.							
24.	Set IF ATTEN switch in 20 db position.	Inserts 20 db of attenuation in the IF amplifier input.	Pip height reduces to 40 db mark on LOG scale.							
25.	Turn GAIN knob clockwise to bring pip back to full scale deflection.	Sets pip to full scale for comparisons to follow.	Another pip with ringing may appear at right edge of screen.							
26.	Operate INPUT ATTENUATOR switches so as to insert attenuations up to 40 db.	Inserts attenuations (which are additive) in the SIGNAL INPUT section. At final setting, signal is reduced by 40 lb from its level in Step 25.	At each setting, the pip height coincides with the corresponding screen calibration within +1 db.							
27.	Set IF ATTEN switch in 0 db position.	Switches out 20 db attenua- tion in IF amplifier input.	Pip height increases to 20 db mark on screen.							
28.	Continue to insert more attenuation with INPUT ATTENUATOR switches, until pip is brought down to 30 db calibration on screen.	At this point, pip has been reduces by 50 db from its level in Step 25 which would appear 20 db over full scale if INPUT ATTENUATOR switches were returned to up positions.	Pip reads 30 db on screen with all INPUT ATTENUATOR switches down.							
29.	Return all INPUT ATTENU- ATOR switches in the up (off) position. Place IF ATTEN switch in 20 db position.	Switches out the 50 db attenu- ation. Returns controls to positions set in Step 25.	Pip returns to full scale deflections.							
30.	Place VIDEO FILTER switch in HI position.	Filters out frequencies above 400 cps in V10 output.	Most noise indications on screen eliminated.							
31.	Place VIDEO FILTER switch in LO position. Decrease sweep rate with SWEEP RATE knob to bring spot movement down to 1 cps or less.	Filters out frequencies above 40 cps in V10 output. Sweep rate is decreased for more effective results from 40 cps BW filter.	A more effective elimination of noise is observed. Pip height is raised as sweep rate is decreased.							

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STEP	OPERATION	FUNCTION	NORMAL INDICATIONS							
32.	Place VIDEO FILTER switch in OFF position. Set AFC knob in OFF position. Set SWEEP WIDTH and IF BANDWIDTH knobs in their clockwise positions. Plac AMPLITUDE SCALE switch in LIN position. Adjust GAIN knob to bring pip back to full scale deflection. Increase sweep rate fully clockwise. Adjust CENTER FREQ knob to bring pip back to center calibration.	Switches out both 400 cps and 40 cps filters in V10 output. Switches out AFC and retunes sweep width, IF bandwidth, and sweep rate to maximum settings. Returns amplitude representations to linear. Adjusts gain for reference point. Retunes V4 circuit which became detuned by rurning off AFC.	Pip appears at full scale deflection with solid state trace.							
32a.	Slowly turn SWEEP RATE control CCW until optimum resolution is obtained.	Achieves optimum resolution.	Pip base narrows to optimum resolution point and further sweep rate reduction has no indicated effect.							
33.	Set SWEEP WIDTH SELECTOR knob in 14 KC position.	Sets sweep width at 14 KC and sweep rate at 1 cps. Sets IF bandwidth for optimal resolution. AFC remains off and 400 cps video filter is in.	Pip appears at or near center screen. Amplitude may vary slightly. Beam takes about 1 second to cross screen. In Steps 33 - 37, SWEEP WIDTH, IF BANDWIDTH, VIDEO FILTER, SWEEP RATE controls are all inoperative.							
34.	Set SWEEP WIDTH SELECTOR knob in 7 KC position.	Sets sweep width at 7 KC and sweep rate at 1 cps. Sets IF bandwidth for optimal resolution. AFC remains off and 400 cps video filter is in.	Same as Step 33. Pip position and amplitude remain essentially unchanged from Step 34.							
35.	Set SWEEP WIDTH SELECTOR knob in 3.5 position.	Sets sweep width at 3.5 KC and sweep rate at 1 cps. Sets IF bandwidth for optimal resolution. AFC remains off and 400 cps filter is in.	tion and amplitude remain essentially unchanged from							
36.	Set SWEEP WIDTH SELECTOR knob in 500 cycle posi-tion.	Sets sweep width at 500 cps & sweep rate at 0.1 cps. Set IF bandwidth for optimal resoluttion. AFC is tuned on and 400 cps video filter is replaced by 40 cps video filter.	Pip position may shift notice- ably from that of Step 35. Amplitude is essentially un- changed from Step 35. Sweep takes about 10 seconds to cross screen.							
	TMC FORM SPEC 1									

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STEP		OPERATI	ON			FUN	CTION				NORMAL	INDIC	ATIONS	; .		
37.	Re-cente AFC knob adjustme FREQ kno vernier	as a c ent and b (26)	ourse CENTEI as a	•	came	es V4 ci detuned e switch	when AF			Pip is re-centered.						
38.	Set SWEE knob in				and some sets mal re	sweep wi weep rat IF bandw esolutio d 40 cps ns in.	e at 0.idth for a AFC	l cps. r opti remai	tion a	as Step and amp cially	litude	r mai	n.			
39.	Place CE panel ma knob to Set SWEE knob to Turn SWE fully co Adjust C to obtai of trace WIDTH knowise.	orker. OFF positive P WIDTH VAR positive P WIDTH unter-citenter Fin maximus. Set S	Turn A ition. SELEC ition. H knot lockwi REQ kn um hei SWEEP	AFC CTOR Se.	came o	es V4 ci de-tuned became s	when Al	C fee		Pip ar	ppears a	at or	near c	enter		
40.	Place PO in ON poseconds	sition.	Wait	2		ies volta and fila			5.	MAIN P	OWER la	amp lia	ghts.			
41.	Set RF TO knob in tion.			•••		ates 1,99 st signal										
42.	Using parwith PTE OUTPUT ja Panel to of FSA an jack of (to SIGNALFSA.	, connect ack of C VFO INF nd RF TC Control	t VFO Contro PUT ja ONE OU Panel	l ck T	i	ets VOX o			, 1946							

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STEP		OPE	RATION	Ī				FUN	CTIO	N				1	NORMA	LIN	IDICA	TIONS	3	_
43.	TOR knob in 14 KC posi- tion. Place CENTER FREQ knob on panel mark and then adjust H POS knob				sweet band tion vidi 500	Sets sweep width at 14 KC and sweep rate at 1 cps. Sets IF bandwidth for optional resolution. AFC is off and 400 cps vidio filter is in. Turns off 500 KC oscillator.							Beam speeds up to 1 cps. Pip remains around full scale deflection mark and is centered by adjustment to H POS knob. Pip disappears when CAL OSC LEVEL knob is placed in OFF position.							
44.	Set GAIN wise (ma AMPLITUD in LOG p ATTEN sw position	xim E S osi vitc	um) an CALE s tion.	id se wito Set	t h	tion rela	of tion	ipment signal ship (rtion	ls w (wit	ith a h only	60 7 lo	db	No	char	nge fi	rom	Step	43.		
45.	If INNER and OUTER oven lamps are cycling as described in Step 1, set BEAT switch to ON position.					Turns on 100 KC calibrating signal in VOX.							ZERO BEAT lamp lights.							
46.	Turn MAS FREQUENC reading cps on c CALIBRAT BEAT lig rate of twice pe	Y k of oun E k ht abo	nob to 2.5 MC ters). nob un flashe ut onc	bri (00 Va til s at	ng a 10 ry ZERO the	2500 one	KC 1	outpu withir wo cyc	n an	error	•			ses	ment o					1
47.	Set BEAT position			o do	wn	Turn sign		100 k	CC ca	alibra	ıtin	g	ZER	о ве	EAT la	amp	goes	out.		
48.	Set HFO position		tch in	ON		1		ampli in VOX		r plat	e									
49.	Set METE position		nob in	HFC				meter RF am		_	.e o	ut-								
50.	Watch VOX meter. Turn OUTPUT knob clockwise to						Turns up VOX output level to approximately 0.1 ma to get							Two test tone pips now appear on screen about 1KC above and Cont'd						

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STEP		PERATIO				FUNC'	TION				1	N	ORMAI	LIN	DICA'	rions			
50. Cont.	bring a reading of appro- ximately ".1" on meter dial.				good reading for next step. 1,999 KC and 2,001 KC combine to produce 499 KC and 501 KC signals.							below center calibration.							
51.	Set TUNING knob of VOX in 2.5 area to bring highest reading on VOX meter.				Tunes	Tunes VOX RF amplifier.							Pips may shift and become more defined.						
52.	Adjust OU bring a r on VOX me	Sets mate	a VOI	X out; l for	put FSA	at ap	pro:	xi- atio.											
53.	Set IF ATTEN switch in 20 db position. Then adjust INPUT ATTENUATOR switches to reduce pips down to 0 db calibration on screen, using GAIN knob for variations less than smallest INPUT ATTENUATOR switch position. Then set IF ATTEN switch in 0 dp position.				Sets display to show lower 40 db portion of 65 db presentation with 2 test tones representing 0 db.							Odd-order distortion pips appear on screen.							
54.	Check all tortion p		der d	is-	Check order below tones	dist	ortio	n pi	coduc	ts f	all	Maximum level of odd-order distortion pips do not exceed 40 db mark on screen, (60 db below two test tone pips).					xceed O db		
55•	Tune VOX t		me, RI	7		Two tone should appear on screen.								Same as Steps 53 and 54.					
56.	Set IF ATT db position SWEEP switt ual) posit	from horizontal deflection plates and connects in MANUAL SWEEP control of plate voltage.							Horizontal movement of beam stops. Beam becomes stationary spot on screen. CAUTION: DO NOT LEAVE BEAM STATIONARY FOR MORE THAN 60 SECONDS.										
57•	Crank MANU clockwise, clockwise.	then c			Change deflec	s vo	ltage plate	of es.	horiz	cont	al	SWEE scre	P kn en t t.	e mov ob ca o mov Count	uses e fi er-c	s spo rom l clock	ot or Left wise	to	
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STEP		OP:	ERAT	NOI]	FUNCTI	ON				NORMAL INDICATION								
57. Cont.													movement causes spot to move from right to left. The same distortion products should be observed as in Step 54. A slight adjustment of the GAIN knob may be necessary to bring distortion pips to the same level as in Step 54.										
58.	Return MANUAL SWEEP switch to AUTO position.						Re-connects sweep generator to horizontal deflection plates.								Horizontal motion of beam resumes automatically.								
59•	Measure between pins A and B on probe power jack on front panel.												6.3	3 vo	lts	s a-	-c.		فسال فسال مساولات				
60.	Measure between D and C					·						270	vo.	lts	: <u>+</u> :	L0%	d-c	•					

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THE TECHNICAL MATERIEL CORPORATION MAMARONECK, N.Y.

TEST DATA SHEET

PTE-4 SPECTRUM ANALYZER (FSA-TTG-VOX)

STEPS	CHECKS		TESTE
1-6	FUNCTIONAL CONTROL	L CHECKS	
7-19	500KC CALIBRATE OF & 500KC MARKER CH		
20-22	AFC CHECKS		
23-39	ATTENUATOR CHECKS		***************************************
30-32	VIDEO FILTER CHEC	KS	
33-39	SWEEP WIDTH SELEC	TION CHECKS	
40-44	SYSTEM INHERENT OF DISTORTION - REGM 60DB		
			(read
54-55	THIRD ORDER PRODU REGM'T AT LEAST -		
			(read
56-58	MANUAL SWEEP CHEC	KS	
59-60	PROBE POWER VOLTA	GES	····
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