ALIGNMENT PROCEDURE FOR 21-1936(UT022ZH)

TRANSMITTER

STEP	MODE	CHANNEL	FREQUENCY	CONDITION		METHOD
1	POWER OFF	-		CONNECT DC POWER SUPPLY TO THE BATT POWER SUPPLY PATTERN ON THE PCB.	-	INPUT VOLTAGE: DC6.0V/2A
2	TX	8	467.5625MHz	CONNECT RF WATTMETER TO THE ANTENNA PATTERN ON THE PCB.	RT201	KEY THE TRANSMITTER WITH PTT, AND ADJUST THE OUTPUT POWER AT 0.50W±0.0
3	TX	1		CONNECT FREQUENCY COUNTER TO THE ANTENNA PATTERN ON THE PCB WITH AN APPROPRIATE ATTENUATOR.		KEY THE TRANSMITTER WITHOUT ANY MODULATION. ADJUST TRANSMISSION FREQUENCY TO 462.562500MHz ± 100Hz
4	TX	1		CONNECT MODULATION ANALYZER TO THE ANTENNA PATTERN ON THE PCB. HPF:OFF LPF:3KHz DE-EMP:OFF CONNECT OSCILLOSCOPE TO MODULATION OUTPUT OF THE MODULATION ANALYZER. CONNECT AUDIO GENERATOR TO TP3(BAL) WAVEFORM:2OHz SQUARE WAVE MAGNITUDE:1.5Vp-p(DC COUPLING)		KEY THE TRANSMITTER, AND ADJUST RT402 AS THE WAVEFORM ON THE OSCILLOSCOPE COMES TO BE A CERTAIN SQUARE WAVE
5	TX	1 +CTCSS No.27		CONNECT MODULATION ANALYZER TO THE ANTENNA PATTERN ON THE PCB. HPF:OFF LPF:15KHz DE-EMP:OFF INJECT 1KHz 60mVp-p SINE WAVE TO MICROPHONE JACK FROM AUDIO GENERATOR.		KEY THE TRANSMITTER, AND ADJUST RT201 AS THE MODULATION ANALYZER INDICATES ± 2.2KHz ± 0.1KHz DEVIATION.

RECE I VE	₹					
STEP	MODE	CHANNEL	FREQUENCY	CONDITION	ADJUST	METHOD
1	RX	1	462.5625MHz	CONNECT DC VOLTMETER TO TP2	L403	ADJUST L403 AS THE VOLTMETER
						INDICATES 1.3V ± 0.05V
				INJECT -47dBm RF SIGNAL WITHOUT		
				MODULATION FROM SSG TO THE ANTENNA		
				PATTERN ON THE PCB.		
2	RX	1	462.5625MHz	CONNECT SINAD METER TO SPEAKER JACK	RT404	TURN TO C.W. MAX,
				WITH 16 DUMMY LOAD.		SET TO 10dB SINAD FIRST.
						TURN TO C.C.W. MAX.
				INJECT RF SIGNAL FROM SSG AS FOLLOWING		ADJUST SLOWLY TO THE POINT WHERE
				CONDITION.		WAVEFORM APPEARS AT THE SPEAKER OUT.
				MAGNITUDE:AS LARGE AS THE RECEIVER OBTAIL	NS	(C.W.)
				10dB SINAD SENSITIVI	TY.	
				DEVIATION: ± 1.5KHz		
				AF FREQUENCY:1KHz		

ALIGNMENT PROCEDURE FORM-4 REFERENCE DIAGRAM NO. PAGE													
MODEL	UNIT	BLOCK		ISSUE DATE		SUED							
UT022ZH				2006/5/2	24	SAKAIHI							
TITLE ADJUS	T POINT	SUB TITLE			REF DIAC	GRAM							
1. MAIN PCB B101 (TOP VIEW) 2. MAIN PCB B101 (BOTTOM VIEW)													
Logi	TP3 CHG JACK AT201 A												
TP1: VCONT +6V:DC 6V L182: VCONT ADJ. TP2: DISC OUT(De_Em) LOCAL OUT L401: DISC.ADJ. TP3: BALANCE RF IN/OUT RT201: TX POWER ADJ. TP4: AF OUT UP CT401: FREQ. ADJ. TP5: MIC IN DN RT402: MOD. BALANCE ADJ TP6: BOOST CHG:DC 11V RT403: MAX DEV. ADJ. TP7: PTT with CHARGE JIG RT404: SQ ADJ. TP8: BATT SEL													
REV. CODE DATE LOT # / RN # REVISED BY CHECKED BY													

ENGLISH VERSION 02.09 JQD818ZF011 R0

	А	LIGNMENT PF	ROCEDL	JRE	FORM - 3	P/	AGE						
MODE	L	UNIT	BLOCK		ISSUE DATE		ISSUED						
U	Γ022ZH				2006/5/24		SAKAIHI						
TITLE	TEST MO	DE	SUB TITLE CONFIRMATION			REF DIAGRAM							
1.	1.TEST MODE IN PRESS AND HOLD [WX] , [MON] AND TURN POWER ON WILL BE STARTED LCD TEST AND LED WILL TURN ON FOR 2sec. 2.TEST MODE OUT TURN POWER OFF												
3.1 1) To To 2) To	NOTE VIBRATION enter the view of the view	TEST (NOT USE) vibration test: Prediction test: Press distraction test: Press EST (NOT USE) scramble test: Press (except LCD TEST	, WX ALERT M [TONE] SW o s [WX] SW in , WX ALERT M	MODE and worker more more more more more more more mo	GROUP DECODE T	EST M	IODE).						
To exit the vibration test: Press [WX] SW once more. 4.TEST MODE ITEM *MODE CHANGE: PRESS [MENU]. 1)LCD TEST MODE 5)VOX TEST MODE (NOT USE) 9)WX ALERT TEST MODE 2)TX TEST MODE 6)RX TEST MODE (NOT USE) (NOT USE) 3)SUBCODE ENCODE TEST MODE (NOT USE) (NOT USE) 8)STANDBY TEST MODE 10)GROUP DECODE TEST MODE													
2.TEST MODE OUT TURN POWER OFF 3.NOTE 1) VIBRATION TEST (NOT USE) To enter the vibration test: Press [TONE] SW in AII TEST MODE													
DEV	/. CODE												

REVISIONS:	REV. CODE							
	DATE							
	LOT # / RN #							
	REVISED BY							
	CHECKED BY							

ENGLISH VERSION 02.09 JQD818ZF013 R0