## 7-8 CFL-356 RF TUNE UNIT

NO.	ITEM		ADJUSTIN	G PROCEDURE		RATING	
l	TUNE adjustment	scope inp  ② Adjust th	out to L14 (MODE: A	below. (Make sure that			
		7	TUNE type	Reception frequency	Adjuster		
				0.4MHz or less		300kHz reference attenuation 400kHz 3dB or less 600kHz 30dB or more	
		0.4~1.6MHz	SUB 0.8~1.599MHz	0.8MHz 1.599MHz	T9, 10		
		0.4-1.01/112	MAIN 0.4~0.799MHz	0.799MHz 0.4MHz	CV5, 6		
		1.6~4.4MHz	SUB 2.65~4.399MHz	2.65MHz 4.399MHz	T7, 8		
			MAIN 1.6~2.649MHz	2.649MHz 1.6MHz	CV3, 4	TUNE mismatch: 3dB	
		4.4~12.3MHz	SUB 7.4~12.299MHz	7.4MHz 12.299MHz	T5, 6	or less	
			MAIN 4.4~7.399MHz	7.399MHz 4.4MHz	CV1, 2 -		
		12.3	3~20.5MHz	12.3MHz 20.499MHz	T3, 4		
			5~30MHz	20.5MHz 29.999MHz	T1, 2		
		(1) Set the reco (2) Adjust T9 a (3) Check that	, when the reception fro	MHz. ng frequency is 0.8MHz. equency is set to 1.599MHz nismatch, repeat step (2).	, the set tunes to		
2	ATT check	① Set the A	TT switch ON and ch	neck the attenuation.		15 to 25dB	
3	1st MIX input level	② Switch r	the RF voltmeter to Reception frequency eps) and check the lever	between 100kHz and 2	9.999MHz (in	0.5Vrms or more	
4	Signal system tuning	<ol> <li>Set in 7.4MHz AM sensitivity measuring state.         AGC: OFF, bandwidth: INTER</li> <li>Connect the RF voltmeter to TP8 of CFH-71.</li> <li>Set the SG output level to 5dBμ, then adjust T12 to set the AF output to maximum.</li> <li>Set the SG output to 60dBμ and measure the voltage at TP8.</li> </ol>				0.45Vrms ± 0.1Vrms	
5	1st MIX balance		the RF voltmeter to	P25-1, then adjust RV	/I so that the	0.1Vrms or less	

## 7-9 INTEGRATED ADJUSTMENTS

NO.	ITEM	ADJUSTING PROCEDURE	RATING
1	LINE OUT adjustment	<ol> <li>Set up for 7.4MHz USB sensitivity measuring.         (SG output: 7.401MHz)         AGC: ON        SG output level: 60dB μ</li> <li>Connect the level meter (600 Ω) to the LINE OUT R connector on the rear panel.</li> <li>Adjust RV2 on CGK-160 until the level meter indicates -2dBm.</li> <li>Now measure the distortion.</li> <li>Connect the level meter (600 Ω) to the LINE OUT L connector on the rear panel.</li> <li>Adjust RV1 on CGK-160 until the level meter indicates -2dBm.</li> <li>Now measure the distortion.</li> </ol>	2% or less
2	RECORD output check	① Check that the output level is the same as LINE OUT R.	
3	Total distortion	<ol> <li>Set up for 7.4MHz AM sensitivity measuring.         400Hz, 60% modulation, AGC: ON, AF output: 27dBm</li> <li>Measure AF output distortion when the SG output level is 60dB μ and 100dB μ.         SG 60dB μ         SG 100dB μ</li> </ol>	3% or less
4	Squelch check	<ol> <li>AGC: ON, RF GAIN: fully clockwise, ANT connector: Open</li> <li>Check for AF output in all modes when the squelch control is fully counterclockwise.</li> <li>Check for AF output in all modes when the squelch control is rotated clockwise three points.</li> </ol>	
5	Noise blanker	<ul> <li>Set up for 7.4MHz AM sensitivity measuring.         SG output level: 0dB μ to 100dB μ.</li> <li>Connect the auto keyer.</li> <li>ANT NRD-545 SP         SP         Auto keyer key         Mark 20ms         Space 100ms</li> <li>Set NB-1 ON and check that the noise is blanked when you rotate the NB LEVEL control clockwise.</li> <li>Check NB-2 in the same manner.</li> </ul>	

NO.	ITEM	ADJUSTING PROCEDURE	RATING
6	IF filter check	<ul> <li>Set up for 7.4MHz CW sensitivity measuring. (SG output: 7.4MHz)         AGC: OFF, FILTER: WIDE (2.4kHz), SG output level -10dB μ ,         TONE control: Fully clockwise.</li> <li>Connect the level meter to the SP OUT connector on the rear panel.         Connect the impedance conversion transformer between the SP OUT connector and level meter.</li></ul>	
		<ul> <li>3 Adjust the AF control until the level meter indicates 0dBm.</li> <li>4 6dB bandwidth measurement         Set the SG output level to -4dBμ, detune the SG frequency, and measure the detuning frequency when the level meter indicates 0dBm.         Note: Detune from 0.9kHz or more on the lower frequency side.</li> <li>5 60dB bandwidth measurement         Set the SG output level to 50dBμ, detune the SG frequency, and measure the detuning frequency when the level meter indicates 0dBm.         Note: Detune from 0.9kHz or more on the lower frequency side.</li> </ul>	6dB bandwidth ± 1.2kHz or more  60dB bandwidth ± 2.5kHz or less
7	BWC check	① Check the BWC function.	
8	RTTY check	Transmitter, code generator, and PC as illustrated below.  ANT  Transmitter  PC  Transmitting/receiving frequency: 7MHz Shift width: ± 85Hz Baud rate: 45.45  Check that the PC output maches the transmitted code.	

NO.	ITEM	ADJUSTING PROCEDURE	RATING
9	PBS check	① Check the PBS function.	
10	S-meter adjustment and check	1 Reception frequency: 0.75MHz, MODE: AM, BW: NARROW (2.4kHz)  AGC: ON, NOTCH: OFF, ATT: OFF  2 Connect measuring instruments and PC as illustrated below.  RS-232C  PC  MOD  ANT  NRD-545  SG  50 Ω  777  3 Set the SG output level to 34dB μ, the frequency to 0.75MHz, then send remote control commands "SM99" and "SM" from the PC.  4 Set the reception frequency to 1.75MHz and the SG frequency to 1.75MHz, then send remote control command "SM" from the PC.  5 Raise the reception frequency and SG frequency by 1MHz, send remote control command "SM", and repeat to 29.75MHz.  6 Set the reception frequency to 145MHz and the SG frequency to 145MHz, then send remote control command "SM" from the PC.  7 Set the reception frequency to 7.4MHz and SG to 7.4MHz, then measure the AF output change while varying the SG between 10 and 100dBμ. (20dBm standard)  8 Check the reading on the S meter in relation to the SG output level.  S1 10dBμ ± 3dB S9+20dB 54dBμ ± 5dB  S5 22dBμ ± 3dB S9+40dB 74dBμ ± 10dB  S9 34dBμ ± 3dB S9+60dB 94dBμ ± 10dB  9 Check the AGC release time constant.	S-meter adjustment for < 1MHz S-meter adjustment for < 2MHz  WB converter S-meter adjustment  10dB or less
11	RF GAIN check	<ol> <li>Set up for 7.4MHz USB sensitivity measuring.         (SG output 7.401MHz)         AGC: OFF RF GAIN control: fully clockwise         </li> <li>Set SG output level to 0dB μ and AF output to 20dBm.</li> <li>Set the RF GAIN control fully counterclockwise.</li> <li>Determine the SG output level at which the AF output is 20dBm.</li> </ol>	90dB $\mu$ or more
12	NOTCH check	<ol> <li>Set up for 7.4MHz USB sensitivity measuring.         (SG output 7.401MHz)         AGC: OFF RF GAIN control: fully clockwise</li> <li>Set SG output level to 30dB μ and AF output to 20dBm.</li> <li>Set NOTCH ON and adjust control to notch out the signal.</li> <li>Check that the AF output is -20dBm or less.</li> <li>Check NOTCH tracking.</li> </ol>	

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NO.	ITEM		ADJUSTING	PROCEDURE		RATING
13	NR/BC check	① The NR/BC f	unction must be Of	Ν.		
	1	② Output the be	at tone and check	that the beat is extin	guished when the	
	:	BC is ON.				
14	Sensitivity	① Measure the s	sensitivity at the fol	llowing frequencies:		
14	Schsitivity	USB: S/		output=10dBm		
				•		
			andwidth: INTER (			
				output=10dBm		
		Ba	andwidth: NARRO	W (2.4kHz) MOI	D=400Hz 30%	
		FM : 12	2dB SINAD AF c	output=10dBm		
	:	М	OD=1kHz DEV	$'$ = $\pm$ 3.5kHz		
		The SG output lev	el when measuring	sensitivity is with a	50 $\Omega$ load.	
		Reception frequency	USB	AM	FM	
		0.106 MHz 0.399MHz	14dBμ or less 14dBμ or less	24dBμ or less		
		0.405MHz	$14dB\mu$ or less	24dBμ or less	<del></del>	
	İ	0.799MHz	$6dB\mu$ or less	16dBμ or less	<del></del>	
	 	0.8MHz	$6dB\mu$ or less		<del></del>	
		1.599MHz 1.605MHz	6dB $\mu$ or less -10dB $\mu$ or less	6dBμ or less		
		2.649MHz	-10dB μ or less	——————————————————————————————————————		
		2.65 MHz	-10dBμ or less			•
		4.399MHz	-10dB $\mu$ or less			
		4.4MHz	-10dB $\mu$ or less			
		7.399MHz 7.4MHz	-10dB $\mu$ or less -10dB $\mu$ or less	6dBμ or less		
		10.1MHz	-10dB $\mu$ or less			
		12.299MHz	-10dB $\mu$ or less			
		12.3MHz	-10dB $\mu$ or less			
		14.1MHz	-10dB μ or less			
		20.499MHz 20.5MHz	-10dB $\mu$ or less -10dB $\mu$ or less	6dBμ or less		
		21.3MHz	-10dB μ or less			
		28.2MHz	-10dB $\mu$ or less			
		29.99 MHz	-10dB $\mu$ or less		-6dB μ or less	
		145.04MHz			-2dB μ or less	
		Note: —	- indicates measure	ments not required.		
		② Set RF TUN	E to "PASS", then	measure the 4.4MH	z USB sensitivity.	$-10 dB \mu$ or less
				osition after taking		3dBμ or less
		j _		elow, then measure		
			SG as musirated o	elow, men measure	the 1.0MHz CSB	
		sensitivity.				
				ANT		
			1.601MHz (SG)	Hi-Z NRD-545		
			50 Ω			
			7 <sup>†</sup> /† Set	the ANT switch to Hi-Z.		
	;					
:						
ı						

NO.	ITEM	ADJUSTING PROCEDURE	RATING
15	Interference rejection ratio	<ol> <li>Set up for 7.4MHz sensitivity measuring.</li> <li>AGC: OFF, MODE: CW</li> <li>Set the SG output level to 0dB μ and AF output to 10dBm.</li> </ol>	
	1st image interference ratio	(3) Set the SG frequency to 148.31MHz and determine the SG output level at which the AF output is 10dBm.	70dB or more
	2nd image interference ratio	Set the SG frequency to 8.31MHz and determine the SG output level at which the AF output is 10dBm.	70dB or more
	1st IF rejection ratio	(5) Set the SG frequency to 70.455MHz and determine the SG output level at which the AF output is 10dBm.	70dB or more
	2nd IF rejection ratio	Set the SG frequency to 455kHz and determine the SG output level at which the AF output is 10dBm.	70dB or more
16	PHONES jack check	① Check that, when headphones are connected to the PHONES jack, that the internal speaker and external SP are OFF. Also check that sounds can be heard through the headphones.	
17	Noise level	<ol> <li>ANT: open, RF GAIN: fully counterclockwise, AF GAIN: fully counterclockwise, MODE: USB</li> <li>Now measure the AF output level.</li> <li>Plug the headphones into the PHONES jack and check that there is no HAM noise.</li> </ol>	-40dBm or more
18	Mute	<ol> <li>Set up for 7.4MHz sensitivity measuring.         AGC: ON, MODE: CW</li> <li>Set the SG output level to 120dB μ and AF output to 20dBm.</li> <li>Connect the MUTE terminal on the rear panel to ground, then measure the AF output level.</li> </ol>	-40dBm or more
19	Tone control	<ol> <li>Set up for 7.4MHz AM sensitivity measuring.         AGC: ON, FILTER: WIDE</li> <li>Set the SG output level to 40dB μ and modulation frequency to 2kHz 30%.</li> <li>Set the TONE control to the center position.</li> <li>Set the AF output level to 15dBm.</li> <li>Measure the output level when the TONE control is fully counterclockwise.</li> </ol>	0dBm or more

NO.	ITEM		ADJUSTING PROCEDURE				
20	DC OUT	1	Connect a 470 $\Omega$ resistor between the panel and ground, then measure the vo			10.8 ± 0.3V	
21	EXT SP	1	Insert a pin plug into the EXT SP jack that the internal speaker is switched of	•	hen check		
22	Timer output	① ② ③ ④	Set the timer ON/OFF times as appropriate the POWER/TIMER switch to TIMe Check the timer output contact on the 5V voltages.  Check that, when the timer is opera OFF.	MER. rear panel, and the	lighting is		
			TIMER OUT (1) (2) (2)	Timer ON		(3) connected nd 5V are ON.	
				Timer OFF		(2) connected nd 5V are OFF.	
23	Scan and sweep	1	Check that the scan and sweep function	ns perform correctly.			
24	Power dissipation	1	Measure the power dissipation with AGAF GAIN: Minimum	C and DC power supp	olies.		
					PC	)WER	
				Power supply	OFF	ON	
				AC	15VA or less	40VA or less	
				DC13.8V	0.1W or less	21W or less	
		3	Check that there is abnormal operation voltage (rated AC supply $\pm$ 10%, or 1 Check that "DC" is displayed on the supply.  Check the voltage selector.	2V to 16VDC).			
25	RS-232C interface	① ②	Connect a PC to the RS-232C connecte Check that the NRD-545 can be control		am.		
26	Spurious beat		DDE: CW, FILTER:WIDE, AGC:OFF reption frequency Fr=0.1745MHz, =24.3 =5.2545MHz, =24.9 =5.2555MHz, =29.4 =10MHz, =15.9 =20MHz.	9991MHz,		B/N other than at frequencies shown at left are to be 10dB or less	

NO.	ITEM	ADJUSTING PROCEDURE	RATING
27	Final operation check	① Check the final operation (as per User Manual).	
28	Shipping reset	① Press and hold CLR while turning on the power (to clear the RAM).	
29	Control settings for shipping	NB control : Center  POWER switch : Center  NOTCH control : Center  SQ LEVEL control : Fully counterclockwise  RF GAIN control : Fully clockwise  PBS control : Center  AF GAIN control : Fully counterclockwise  TONE control : Center	
30	NRD-545J, G, U destination settings	Install R24 and R25 (chip resistors) on the CFQ-8350 motherboard, and, using a black marker, mark the destination table printed on the PCB.  (1) Installation of R24 and R25 (chip resistors).    R24	9MHz 61.9MHz 70.9MHz 79.9MHz 11.9MHz 59.9MHz 59.9MHz 14.9MHz 999.999MHz 5G: 9.999MHz
31	Voltage setting for NRD-545J, G, U destination	Using the voltage selector S1 on the rear panel, select the appropriat voltage for the NRD-545J, G, U according to destination.  NRD-545J 100V  NRD-545G 220V  NRD-545U 120V	

## 7-10 CHE-199 WIDEBAND CONVERTER UNIT

No.	ITEM	ADJUSTING PROCEDURE RATING				
1	TUNE adjustment and check	<ol> <li>Connect the output of a tracking scope to RX ANT and the input of the tracking scope to J2.         Reception mode: FM         Tracking scope output level: -30dBm         Frequency SPAN: Must span full frequency range in each band</li> <li>Tune each point at the low and high frequencies of each band shown below.         (Be sure to match the CDE-860 TUNE voltage.)</li> <li>After completing tuning, check that in Bands 1 to 4, the tuning frequency moves with the reception frequency.</li> <li>The results of the checks in step (3), above, must be as specified in the table below. The final decision should be based on the gain check.</li> </ol>				
		DANID NO	Decention for	Adinate andi	TUNE area and anin	
		BAND NO.	Reception frequency	Adjustment point	TUNE error, and gain	
		BAND1 BAND2	30.00 ~ 107.99MHz 108.00 ~ 279.99MHz	RV7, CV9 RV6, CV7	Peak TUNE error	
		BAND3	280.00 ~ 567.39MHz	RV5, CV5	Band low: within 3dB Band high: within 10dB	
		BAND4	567.40 ~ 1104.79MHz	RV4, CV3	Gain: +5dB or more	
		BAND5	1104.80 ~ 1239.99MHz			
		D/11/20	1240.00 ~ 1299.99MHz		Gain: +10dB or more	
		BAND6	1300.00 ~ 1999.99MHz		Gain: -5dB or more	
		frequency by  Set the reconfrequency by	peption frequency to 30MHz adjusting the RVs. eption frequency to 107.9MHz adjusting the CVs.	z, then adjust the		
2	ATT operation check	Tracking NRD-545	tracking scope as in item 1, aboscope output level: -30dBm reception frequency: 1295.01NT to measure the attenuation.		Attenuation: 15 to 20dB	

No.	ITEM		RATING		
3	1st LOCAL (ILO) VCO control voltage	② Measure the 1	gital voltmeter (DCv) to TP10.  LO VCO control voltage at the each VCO in the table below.	e low and high	n end
		VCO NO.	Reception frequency	Adjustment part	Control voltage
		VCO1	30.00 ~ 140.39MHz	C226, C227	*1
		VCO2	140.40 ~ 265.49MHz	C339, C340	1.0 to 7.0VDC
		VCO3	265.50 ~ 407.09MHz	C211, C212	*2 (With shield case
		VCO4	407.10 ~ 567.39MHz	C326, C327	installed.)
		(rating), replace	above control voltages are not we the above capacitors.		
			rol voltage: Increase the capacita		vever,
			idth of the control voltage is decr		:
		†	rol voltage: Decrease the capacit	•	vever,
		that the operating wi	idth of the control voltage is incre	eased.)	
	If you alter the capacitance, note that the operating width of the value of changes, and it is therefore necessary to check the control volue both the low and high end frequencies of the VCO that has been channed to the control volue of the value of th				age at ged.  oltage.  ts the
		to 1999.999MF (4) Make sure CD3	re is no unlocking in the reception to the sure to check with the shies of the UNLOCK lights (and in the VCO is switched.	ld case installed	).
4	1st LOCAL VCO	① Connect a spec	etrum analyzer to J3.		
	MIX level	<ul><li> Measure the lookingh end frequency.</li><li> After check in</li></ul>	cal signal level and spurious sign encies of the VCOs in the following rious signals at up to two times step ②, check that the local frequency.	ng table. the local fundar	mental
		VCO NO.	Reception freq (local freque	ncy)	(With shield case installed)
VCO1 30.00 ~ 140.39MHz (836.10 ~ 946.49MHz)					" Local level:
		VCO2	140.40 ~ 265 (946.50 ~ 1071	.59MHz)	OdBm or more
VCO3 265.50 ~ 407.09MHz (1071.60 ~ 1213.19MHz)				Spurious level: -30dB or less	
		VCO4	407.10 ~ 567 (1213.20 ~ 1373		

No.	ITEM	AD	JUSTING PROCEDURE		RATING
5	2nd LOCAL (2LO) VCO control voltage		eltmeter (DCv) to TP7. reception frequency as shown below to ages.	check	
		VCO NO.	Reception frequency	Con	trol voltage
		VCO H VCO L	567.39MHz 567.40MHz		to 4.0VDC
		Make sure that, after specification (rating).	ne shield case also changes the control voinstalling the shield case, the voltage measures the control voltage by about 0.	ets the	*1 (With shield case installed)
		1999.999MHz (be su	nlocking in the reception frequency range re to check with the shield case installed). O UNLOCK) lights (and immediately turn tency is switching.		
6	2nd LOCAL VCO MIX level	<ol> <li>Connect a spectrum a</li> <li>Measure the local sig</li> </ol>	nalyzer to J4. nal level at the following frequencies.		
		VCO NO.	Reception frequency (local frequency)	(With s	shield case
		VCO H	567.39MHz (795.49MHz)	Local level:	
		VCO L	567.40MHz (258.00MHz)	+3dBm	or more
7	AGC 1 adjustment	Frequency: 145.01M  Set the NRD-545 reconding RV1 so that the (Set where the S-meters)	PUT at the following settings to J1.  Hz, Level: 34dB \( \mu\) (emf), Mod: OFF  eption frequency to 145.01MHz.  The S-meter indicates 9.  The changes from S8 to S9.)  The set the SG RF output OFF and check the set.	hat the	
8	AGC 2 adjustment	Frequency: 1104.81M  ② Set the NRD-545 rec  Adjust RV2 so that the  (Set where the S-met)	OUT at the following settings to J1.  MHz, Level: 34dB $\mu$ (emf), Mod: OFF eption frequency to 1104.81MHz.  The S-meter indicates 9.  The creater set of the set of t	hat the	

No.	ITEM	ADJUSTING PROCEDURE					RATING
10	Sensitivity check	ADJUSTING PROCEDURE  ① Measure sensitivity at the following frequencies:  AM: S/N = 10dB					
	* * * * * * * * * * * * * * * * * * * *	Reception frequency 30.01 MHz 50.01 MHz 83.00 MHz 107.99 MHz 108.01 MHz 145.01 MHz 279.99 MHz 280.01 MHz 433.01 MHz 567.39 MHz 567.39 MHz 567.41 MHz 999.99 MHz 1104.81 MHz 1239.99 MHz 1240.01 MHz 1299.99 MHz	BAND 1 2 3 4 5	AM 10dBμ or less	FM  OdB \( \mu\) or less  - 2dB \( \mu\) or less  OdB \( \mu\) or less  - 2dB \( \mu\) or less  12dB \( \mu\) or less  12dB \( \mu\) or less	WFM  6dB μ or less	
11	Overall distortion check (AM)	<ul> <li>Note: - indicates checking not required.</li> <li>① Set up for checking AM sensitivity at 145.01MHz. 400Hz 60% modulation, AGC: ON, AF output: 27dBm</li> <li>② Measure the AF output distortion with the SG level at 60dB μ and 100dB μ. SG 60dBμ (emf) SG 100dBμ (emf)</li> <li>Because the center reception frequency may shift as a result of changes in the deviation of the local frequency, adjust the tuning dial to determine the optimum point.</li> </ul>				5% or less 10% or less	

No.	ITEM	ADJUSTING PROCEDURE	RATING
12	Overall distortion check (WFM)	<ol> <li>Set up for measuring WFM sensitivity at 83.00MHz.</li> <li>MOD: 1kHz, Dev: ± 75kHz, AF output: 27dBm</li> <li>Measure the AF output distortion with the SG level at 60dB μ (emf).</li> </ol>	5% or less
13	Overall level check (WFM)	<ol> <li>Set up for measuring WFM sensitivity at 83.00MHz.</li> <li>SG level: 60dB μ (emf), MOD: 1kHz, Dev: ± 75kHz</li> <li>Connect a level meter (600 Ω) to the LINE OUT L and R connectors on the back of the NRD-545 to take the readings.</li> </ol>	L and R connectors: -8dBm ± 2dB
14	WFM stereo operation check	<ul> <li>Set up for 83.00MHz WFM stereo reception.</li> <li>SG level: 60dB μ (emf), MOD: EXT, Dev: ± 75kHz</li> <li>Set the external modulation signal as follows:</li> <li>Stereo modulation mode: R= L 1kHz modulation</li> <li>Modulation level: Set to SG input</li> <li>Pilot signal (19kHz): ON (10%)</li> <li>Preemphasis: 50 μ Sec</li> <li>Subcarrier frequency: 38kHz</li> </ul>	
		<ul> <li>② Set the 19kHz pilot signal for the external modulation stereo composite signal OFF, then make sure that the "S" stereo indicator is blinking and the reception is in monaural mode.</li> <li>③ Set the 19kHz pilot signal for the external modulation stereo composite signal ON, then make sure that the "S" stereo indicator is</li> </ul>	Mono: "S" blinks Stereo: "S" ON L and R connectors:
		<ul> <li>ON and the reception is in stereo mode.</li> <li>With reception in stereo mode (as in step (3)), connect a level meter (600 Ω) to the LINE OUT L and R connectors on the back of the NRD-545 to take the readings.</li> </ul>	-11dBm ± 2dB Stereo separation:
		<ul> <li>With the setup as in step (4), measure the stereo separation and level differential.</li> <li>-1 Set to R only, stereo modulation mode, then measure the L and R differential.</li> <li>-2 Set to L only, stereo modulation mode, then measure the L and R differential.</li> <li>-3 In the above tests, measure the differential between the R signal level in the R only test and the L signal level in the L only test.</li> <li>6 On completion, remember to return the set to monaural reception in WFM stereo mode.</li> </ul>	L and R both 16dB or more Level differential: Within 2dB
15	Squelch operation check	<ol> <li>Reception frequency 145.01MHz, AGC: ON, RF GAIN: fully clockwise         SG modulation: OFF, RF output: OFF</li> <li>Rotate the squelch control fully counterclockwise, then check that there is AF output in AM, FM, and WFM modes.</li> <li>Rotate the squelch control 3 steps clockwise, then check that there is no AF output in AM, FM, or WFM mode.</li> <li>Set the SG RF level to +20dB \(\mu\) , then check that there is AF output in AM, FM, and WFM modes.</li> </ol>	Within three steps counterclockwise from squelch muting point.  3 steps from fully counterclockwise +20dB or less

No.	ITEM	M ADJUSTING PROCEDURE			
16	Consumption	Measure the NRD-545 current consumption when operating on DC.     Supply voltage: 13.8VDC     AF GAIN: Min     Measuring frequency: 83.00MHz     Measuring mode: WFM	DC supply current: 1.8A or less		
de de la companya de					