Alignment Procedure | RF Board Adjustment | ATW-R1820

Default Positions

Power	SA	Noise Meter	Transmitter	Distortion	Oscilloscope	Voltmeter	Digital Countur	SSG
DC12V	-	0dB	31.25kHz	-20dB	-	-	10Hz-80MHz	1kHz

Local Oscillation Frequencies
CH 1□IF1=RF1-LO1=243.950MH LO2=233.250MHz
CH 2□IF2=RF2-LO2=265.550MH LO2=254.850MHz

Board	Item	SA	SSG		Antenn CH	AorB 1or2	Adj Point	Check Point	Operation	Measurement Reference
RF	TG Adjustment	REF LEVEL□ 77dBuV SPAN□ 100MHz TG Input□ 80dBuV	-		1-A 1-B 2-A 2-B		C1101 C1102 C2102 C2103 C4101 C4102 C5102 C5103	 IC1101 11pin IC2101 11pin IC4101 11pin IC5101 11pin	Input singnal to board using TG function of SA Adj filter with watching waveform of each SA Waveform Pattern ±0.5dB 655.500 668.000 680.375	□ Waveform should be f The value of 665.50(should be within ±0. □ Waveform level shoul (It depends on adj. (Level should be the * It is ideal that v adujsted maximum anc
RF	Adj Local Oscillation Freq. Adj Secondary Freq.				1-A 1-B 2-A 2-B		C3117 - C6117 -	IC1201 2pin IC2201 2pin IC4201 2pin IC5201 2pin	Adj Local Oscillation Freq. Adj with watching secondary freq. Check secondary freq. Adj with watching secondary freq. Check secondary freq.	□ Adj freq. to 233.25(□ Check if freq. is 23 □ Adj freq. to 254.85(□ Check if freq. is 25
	Adj Primary Freq.				1-A 1-B 2-A 2-B		- - - -	IC1101 8pin IC2101 8pin IC4101 8pin IC5101 8pin	Check primary freq. Check primary freq. Check primary freq. Check primary freq.	□ 424.050MHz±0.05MHz □ 424.050MHz±0.05MHz □ 402.450MHz±0.05MHz □ 402.450MHz±0.05MHz
RF	Check AF distortion rate	-	MOD□ 22.5kHz RF LEVEL□ 60dBuV		1-A 1-B 2-A 2-B		T1201 T2201 T4201 T5201	IC1201 14pin IC2201 14pin IC4201 14pin IC5201 14pin	Input modulating signal to board with SSG Check distortion rate with putting audio from each IC to distortion meter	□ Distortion rate shou □ Distortion rate shou
RF	Adj RSSI	-	MOD□ 0kHz RF LEVEL□ 30dBuV (20dBuV)		1-A 1-B 2-A 2-B		VR1201 VR2201 VR4201 VR5201	VR1201 2pin VR2201 2pin VR4201 2pin VR5201 2pin	When the same strength signal is input to adj VR output for the identical voltage (Align RSSI against the same field intensity)	□ The value should be (The value should be

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06/10/17

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flat
)MHz and 680.375MHz
.5dB against 668.00MHz

ld be 60dBuV±3dBV
jig)
e same with each IC)

waveform to be
d flat

0MHz±0.05MHz
33.250MHz±0.05MHz
0MHz±0.05MHz
54.850MHz±0.05MHz

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uld be minimum
uld be within 1%

700±5mV with voltmeter

e 550±5mV with voltmeter)

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