Adjustment	No.	Adjustment Condition & Tuning	Value	REF No.	CK. Point
Reference Frequency Adjustment& Confirmation	1	Connect a frequency counter to the ANT terminal through an attenuator. Use the compatible software on PC and adjust the following functions via it:		Software Adjustme nt	ANT Terminal
		After the adjustment, confirm that the designated frequency becomes inside specifications.	Inside Specificati ons	-	ANT Terminal
TX Output		Attention 1) Connect a power-meter with 100W maximum range. Attention 2) Use the accessory cable and Connect it to 13.8V power supply.			
	1	Adjust the transmission frequency on 146.000MHz and set the following condition via software. HI POWER :75W MID POWER :25W (For Version #04, 22W) MID-LOW POWER :10W LOW POWER :5W	Instructio ns value	Software Adjustme nt	ANT Terminal
TX Spurious	2	Confirm the TX output and TX current inside specifications. Connect a spectrum analyzer to the ANT terminal through an attenuator and transmit	Inside Specificati ons	-	ANT Terminal
	2	un-modulation signal. Confirm the spurious inside specifications.	Inside Specificati ons	-	ANT Terminal

Adjustment	No.	Adjustment Condition & Tuning	Value	REF No.	CK. Point
Modulation Adjustment & Confirmation		The adjustment of WIDE/NARROW switching function, Set on WIDE mode.			
	1	Connect a detector to the ANT terminal through an attenuator and transmit the signal, set it for amateur band center as follows.			
		HPF :OFF LPF :20KHz De-emphasis :OFF Level-meter :(P-P)/2			
	2	Connect a low frequency oscillator to EXT MIC terminal and set as:			
		Modulation frequency :1KHz Input level: 80mv rms (#05, 15, 25, 35) 20mv rms (Another version)			
	3	Set on Transmission mode and prepare the software on PC, Adjust the maximum modulation level as: Deviation :+/-4.2KHz	+/-4.2KHz	Software Adjustme nt	ANT Terminal MIC Terminal
	4	Confirm the maximum modulation level at WIDE/ANARROW modes to become inside specifications.	Inside Specificati ons	-	ANT Terminal MIC
	5	Adjust low frequency oscillator for output level and confirm the modulation level at WIDE/NARROW modes to become inside specifications.	Inside Specificati ons		Terminal ANT Terminal MIC
DTCS Wave Form		The adjustment of WIDE/NARROW switching function, Set on WIDE mode.			Terminal
	1	Connect a detector to the ANT terminal through an attenuator and transmit the signal, set it for amateur band center as follows. Observe the shape of signal.			
		HPF :OFF LPF :20KHz De-emphasis :OFF Level-meter :(P-P)/2			

Adjustment	No.	Adjustment Condition & Tuning	Value	REF No.	CK. Point
		Without input from MIC, transmit the signal and adjust the DTCS BAL via software until DTCS wave shape becomes a straight line preferably. Attention 1) For a correct adjustment, A linear modulation analyzer is necessary with ability of detect the DC component.		Software Adjustme nt	ANT Terminal
		Attention 2) Do not change the initial value of DTCS decode bit.			
DTCSS CTCSS Adjustment & Confirmation	1	Connect a linear modulation analyzer to the ANT terminal through an attenuator and set each signaling output ability as:			
		DTCS CODE 023 (Normal code) CTCSS 88.5MHz			
		Set the linear modulation analyzer for condition below:			
	2	HPF :OFF LPF :20KHz De-emphasis :OFF Level-meter :(P-P)/2	Inside Specificati ons	-	ANT Terminal
		Without input from MIC, transmit the signal and confirm the following condition inside specifications as: DTCS : +/- 0.5KHz ~ +/-1.0KHz			
		Attention) For a correct adjustment, A linear modulation analyzer is necessary with ability of detect the DC component.			

Adjustment	No.	Adjustment Condition & Tuning	Value	REF No.	CK. Point
TX S/N Confirmation	1	Connect a linear modulation analyzer to the ANT terminal through an attenuator and set the condition bellow as: HPF :50Hz LPF :20KHz De-emphasis :OFF Level-meter :(P-P)/2			
	2	Add 1KHz via a low frequency oscillator to external MIC terminal and set the modulation level for 70% of standard modulation.			
	3	Confirm the transmission output and Linear modulation analyzer output to become inside specifications.	Inside Specificati ons	-	ANT Terminal