

ICOM IC751 ONLY

NOT IC751A

9.4 TRANSMITTER ADJUSTMENT (Continued)

Adjustment	Adjustment conditions	Unit	Measurement location	Adjustment value	Unit	Adjustment point
Ic - APC	1. ● Display frequency: 14MHz ● MODE: CW ● R44 (MAIN UNIT): Fully counterclockwise ● R46 (MAIN UNIT): Fully clockwise Set in TRANSMIT mode and key down.		Read the ammeter provided in the power supply, or connect an ammeter to the power cable in series.	22A	MAIN	R58
ALC	1. ● Display frequency: 14MHz ● MODE: CW ● RF POWER: Fully counterclockwise Set in TRANSMIT mode and key down.		Connect the RF POWER METER to the ANT connector.	10W	MAIN	R46
	2. ● RF POWER: Fully clockwise	100W		R44		
	Note: Check RF OUTPUT POWER on each band (90 ~ 100W), and current drain (less than 20A).					
	3. ● MODE: AM Make ALC unfunction by shunting W112 to ground.		Connect the RF POWER METER to the ANT connector.	100W	MAIN	R268
Note: After adjustment, remove shunting jumper of W112. Set in TRANSMIT mode with no MIC input, the OUTPUT power should be 40 ~ 60W.						
CARRIER SUPPRESSION	1. ● Display frequency: 14MHz ● MODE: USB/LSB ● COMP: OFF ● MIC GAIN: Fully counterclockwise Set in TRANSMIT mode.		Connect the RF voltmeter or spectrum analyzer to the ANT connector.	Change the operating mode for USB and LSB alternately, and adjust R270 and R273 to get minimum output (less than -50dB).	MAIN	R270 R273
	2. ● COMP: ON			Less than -50dB.		Confirming
METER	(a) Ic METER	1. ● Display frequency: 14MHz ● MODE: RTTY ● RF POWER: Fully clockwise ● METER SWITCH: Ic Set in TRANSMIT mode.	Read the ammeter provided in the power supply, or connect an ammeter to the power cable in series.	Adjust to total current minus 3A.	MAIN	R59
		2. ● MODE: CW TRANSMIT mode and key up.		Ic METER: 0.6A		R63
	(b) COMP METER	3. ● MODE: SSB ● COMP: OFF ● METER SWITCH: COMP Apply 270Hz/3mV signal from the AG, then adjust the MIC GAIN control to get 30W output power.	COMP METER	By turning COMP switch ON, the meter deflection and output power will be increased slightly.		Confirming
		(c) Po METER	4. ● MODE: RTTY ● COMP: OFF ● METER SWITCH: Po Set in TRANSMIT mode.	Po METER		100%
	(d) ALC METER	5. ● MODE: USB ● MIC GAIN: Fully clockwise ● RF POWER: Fully counterclockwise ● METER SWITCH: ALC Apply 1.5KHz/100 ~ 300 mV signal from the AG.		ALC METER		ALC ZONE Full level: (Center of meter scale)

* UNPLUG J13, PROBE TO D47 CATHODE; (9MHz)
ADJ 270/273 FOR MIN.

CARRIER SUPPRESSION :- UNPLUG CONNECTOR J13, PLACE PROBE TO D47 CATHODE,
9MHz ADJUST R270 + R273 FOR MINIMUM