

5-3 TRANSMITTER ADJUSTMENTS

ADJUSTMENT		ADJUSTMENT CONDITION	MEASUREMENT		VALUE	ADJUSTMENT POINT	
			UNIT	LOCATION		UNIT	ADJUST
IDLING CURRENT (for driver)	1	<ul style="list-style-type: none">• Display frequency: 14.10000 MHz• Mode : USB• RF power : Minimum (L)• Mic gain : Minimum (0)• Disconnect J3601 (MAIN unit) and preset R21, R24 (PA unit) to max. counter clockwise.• Transmitting	PA	Connect an ammeter (3 A) between power supply and the IC-718.	At the point where the Tx current Increases 200 mA.	PA	R21
(for final amplifier)	2	<ul style="list-style-type: none">• Transmitting			At the point where the Tx current Increases 400 mA.		R24
After adjustment, connect J3601 on the MAIN unit.							
SWR DETECTOR	1	<ul style="list-style-type: none">• Display frequency: 14.10000 MHz• Mode : USB• RF power : Maximum (H)• Connect J4 (FILTER) unit to GND.• Connect an audio generator to [MIC] connector and set as: Frequency : 1.5 kHz Level : 30 mVrms• Transmitting	Rear panel	Connect an RF power meter to [ANT] connector.	100 W	Front panel	Mic gain control in the quick set mode
	2	<ul style="list-style-type: none">• Transmitting	FILTER	Connect a digital multimeter or oscilloscope to J5.	Minimum voltage	FILTER	C17
	After adjustment, disconnect J4 on the FILTER unit from GND.						
TRANSMITTER TOTAL GAIN	1	<ul style="list-style-type: none">• Display frequency: 14.10000 MHz• Mode : USB• RF power : Maximum (H)• Mic gain : Center (50)• R2701 (MAIN unit): Center• Connect an audio generator to [MIC] connector and set as: Frequency : 1.5 kHz Level : 3 mVrms• Transmitting	Rear panel	Connect an RF power meter to [ANT] connector.	Maximum output power	MAIN	L106, L151, L301, L302, L303, L501
	2	<ul style="list-style-type: none">• Transmitting			50 W		R503
OUTPUT POWER	1	<ul style="list-style-type: none">• Display frequency: 14.10000 MHz• Mode : USB• RF power : Maximum (H)• MIC gain : Center (50)• Connect an audio generator to [MIC] connector and set as: Frequency : 1.5 kHz Level : 30 mVrms• Transmitting	Rear panel	Connect an RF power meter to [ANT] connector.	100 W	MAIN	R1707
Ic APC	1	<ul style="list-style-type: none">• Display frequency: 3.55000 MHz• Mode : USB• Connect CP4002 (MAIN unit) to GND.• RF power : Maximum (H)• Mic gain : Center (50)• Connect an audio generator to [MIC] connector and set as: Frequency : 1.5 kHz Level : 30 mVrms• Transmitting	Rear panel	Connect an ammeter (30A) between power supply and the IC-718.	22 A	MAIN	R1720
After adjustment, disconnect CP4002 on the MAIN unit from GND.							