

ADJUSTMENT PROCEDURE

HF/50 MHz TRANSCEIVER

S-15218XZ-C1 March 2016

Icom Inc.

4-1 PREPARATION REQUIRED EQUIPMENTS

EQUIPMENT	GRADE AN	ID RANGE	EQUIPMENT	GRADE AND RANGE		
Shupt plug	Modified 3.5 mm (1/8	inch) monaural plug	Dummy Loads	Impedance:	50 Ω and 100 $\Omega/120~W$	
Shuht plug	(See the illustration be	elow.)	Attenuator	Attenuation:	50 dB/120 W	
RF power meter (50 Ω terminated)	Measuring range: Frequency range: SWR:	1–120 W 0.1–60 MHz Less than 1.2 : 1	Standard signal generator (SSG)	Frequency range: Output level:	0.1–60 MHz –20 dBµ to +94 dBµ (–127 to –13 dBm)	
Frequency counter	Frequency range: Frequency accuracy:	0.1–60 MHz ±1 ppm or better Less than 1 mW	Audio generator (AG)	Frequency range: Output level:	300–3000 Hz 1–500 mV	
	Input level:		AC Millivoltmeter	Measuring range:	10 mV to 10 V	

GENERAL CONNECTION

• Front panel



• Rear panel



4-1 PREPARATION (continued)

ENTERING THE ADJUSTMENT MODE

- 1) Connect the shunt plug to [REMOTE] (See page 5-1).
- 2) While holding down the [MENU] and [FUNCTION] keys, turn ON the transceiver power.
- 3) The main adjustment menu appears.



<Sub adjustment menu screen example>



QUITTING THE ADJUSTMENT MODE

- 1) Remove the shunt plug from [REMOTE].
- 2) Turn OFF the power.
- 3) Turn ON the power again.

4-2 RECEIVE ADJUSTMENTS

• Touch [RX] on the main adjustment menu screen. NOTE: DO NOT change the SSG output level until the second beep sounds.

ADJUSTMENT ITEM		TRANSCEIVER'S CONDITION		OPERATION	VALUE
PREPARATION	1	-	1) Connect th	e SSG to the antenna connector,	-
			and then se	et it as:	
			Frequenc	y : 14.1515 MHz	
			Modulatio	n:None	
			2) Touch [GAIN] to enter to the receive adjust-		
			ment mode		
RX TOTAL GAIN	2	Display: "Total Gain PRE OFF ref"	Set the SSG	as;	Touch [SET].
		Receive	Level	: +34 dBµ (–73 dBm)	(A beep sounds, and
					then another beeps
					sound 2 sec. later.)
	3	Display: "Total Gain PRE OFF set"	• Set the SSG	as;	Touch [SET].
		Receive	Level	: OFF	(A beep sounds, and
					then another beeps
					sound 20 sec. later.)
	4	 Display: "Total Gain PRE1 ref" 	 Set the SSG 	as;	Touch [SET].
		Receive	Level	: +34 dBµ (–73 dBm)	(A beep sounds, and
					then another beeps
					sound 2 sec. later.)
	5	 Display: "Total Gain PRE1 set" 	 Set the SSG 	as;	Touch [SET].
		Receive	Level	: OFF	(A beep sounds, and
					then another beeps
					sound 20 sec. later.)
S-METER	6	Display: "HF S9 Level"	• Set the SSG	as;	Touch [SET].
		Receive	Level	: +34 dBµ (–73 dBm)	(A beep sounds, and
	7	Display: "HF S9+60 Level"	 Set the SSG 	as;	then another beep
		Receive	Level	: +90 dBµ (–17 dBm)	sounds 1 sec. later.)
		ush [EXIT] to return to the main adjustn	nent menu.		

4-3 TX IDLING CURRENT ADJUSTMENTS

• Touch [TX/ID] on the main adjustment menu screen. NOTE: The transceiver automatically transmits when a TX adjustment item is selected.

ADJUSTMENT ITEM		TRANSCEIVER'S CONDITION	OPERATION	VALUE
PREPARATION	1		 Connect the power meter (or dummy load) to the antenna connector. Touch [ID] to enter to the TX idling current adjustment mode. 	_
ADJUSTMENT	2	Display: "VDL IDL Set" Receive	_	Touch [SET]. (A beep sounds, and
	3	Display: "FINAL ID SET" Receive		then another beep sounds 0.5 sec. later.)
	4	Display: "FINAL1 IDV"Transmit (automatic)		
	5	Display: "FINAL2 IDV"Transmit (automatic)		
	6	 Display: "DRIVER ID SET" Transmit (automatic) 		
	7	Display: "DRIVER IDV"Transmit (automatic)		
	• P	ush [EXIT] to return to the TX adjustmer	nt menu.	

4-4 TX POWER ADJUSTMENTS

• Touch [TX/ID] on the main adjustment menu screen. NOTE: The transceiver automatically transmits when a TX adjustment item is selected.

ADJUSTMENT ITEM		TRANSCEIVER'S CONDITION	OPERATION	ADJUST POINT	VALUE
TX POWER & POWER METER SETTING (Preparation)	1	• Display: "TX POWER SET" • Receive	 Connect the AG with the millivoltmeter to [MIC], and then set it as; Frequency : 1.5 kHz Level : 30 mVrms Connect the power meter to the antenna connector. Touch [Power] to enter to the TX power adjustment mode. 	_	_
(HF BAND)	2	Display: "TX Total HF Gain" Transmit (automatic)	Adjust the TX power by rotating [MAIN DIAL], and then touch [SET].	[MAIN DIAL]	50 W (A beep sounds, and then another beeps sound 0.5 sec. later.)
	3	 Display: "POWER HF 1%" Transmit (automatic) 			2 W (A beep sounds, and then another beeps sound 0.5 sec. later.)
	4 5	 Display: "POWER HF 10%" Transmit (automatic) Display: "POWER HF TUNE" Transmit (automatic) 	-		12.5 W (A beep sounds, and then another beeps sound 0.5 sec. later.)
	6	 Display: "POWER HF 50%" Transmit (automatic) 			52.5 W (A beep sounds, and then another beeps sound 0.5 sec. later.)
	7	Display: "POWER HF 100%" Transmit (automatic)			105 W (A beep sounds, and then another beeps sound 0.5 sec. later.)
AM CARRIER POWER (HF BAND)	8	Display: "POWER AM Hatio HF" Transmit (automatic)	 Iouch [SE I]. (Automatically starts to transmit.) Adjust the TX power by rotating [MAIN DIAL], and then touch [SET]. 		25 W (A beep sounds, and then another beeps sound 0.5 sec. later.)
	9	Display: "POWER 50M SET" Transmit (automatic)	-	-	Touch [SET].
TX POWER & POWER METER SETTING (50 MHz band)	10	 Display: "TX Total 50M Gain" Transmit (automatic) 	Adjust the TX power by rotating [MAIN DIAL], and then touch [SET].		50 W (A beep sounds, and then another beeps sound 0.5 sec. later.)
	11	 Display: "POWER 50M 1%" Transmit (automatic) 	_		2 W (A beep sounds, and then another beeps sound 0.5 sec. later.)
	12 13	 Display: "POWER 50M 10%" Transmit (automatic) Display: "POWER 50M TUNE" Transmit (automatic) 			12.5 W (A beep sounds, and then another beeps sound 0.5 sec. later.)
	14	 Display: "POWER 50M 50%" Transmit (automatic) 			52.5 W (A beep sounds, and then another beeps sound 0.5 sec. later.)
	15	Display: "POWER 50M 100%" Transmit (automatic)			105 W (A beep sounds, and then another beeps sound 0.5 sec. later.)
AM CARRIER POWER RATIO (50 MHz band)	16	Display: "POWER AM Ratio 50M" Transmit (automatic)	 Touch [SET]. (Automatically starts to transmit.) Adjust the TX power by rotating [MAIN DIAL], and then touch [SET]. 		25 W (A beep sounds, and then another beeps sound 0.5 sec. later.)
	17	Display: "POWER 70M SET" Receive	-	-	Touch [SET].

(Continued on the next page.)

4-4 TX POWER ADJUSTMENTS (continued)

TX POWER & 18 • Display: "TX Total 70M Gain" - 25 W POWER METER SETTING • Transmit (automatic) • Transmit (automatic) - (A beep sounds, and then another beeps sound 0.5 sec. later.) 19 • Display: "POWER 70M 1%" • Transmit (automatic) 2 W (A beep sounds, and then another beeps sound 0.5 sec. later.) 20 • Display: "POWER 70M 10%" • Transmit (automatic) 7.5 W (A beep sounds, and then another beeps sound 0.5 sec. later.) 21 • Display: "POWER 70M TUNE" • Transmit (automatic) 10 W (A beep sounds, and then another beeps sound 0.5 sec. later.) 22 • Display: "POWER 70M 50%" • Transmit (automatic) 10 W (A beep sounds, and then another beeps sound 0.5 sec. later.) 23 • Display: "POWER 70M 100%" • Transmit (automatic) 10 Touch [SET]. 2.5 W AM CARRIER POWER 24 • Display: "POWER AM Ratio 70M" 1) Touch [SET]. (Automatically starts to transmit.) 2) Algust the Tx power by rotating (A beep sounds, and then another beeps sound 0.5 sec. later.) 23 • Display: "POWER AM Ratio 70M" 1) Touch [SET]. (A beep sounds, and then another beeps sound 0.5 sec. later.) 12.5 W (A beep sounds, and then another beeps sound 0.5 sec. later.) 2)	ADJUSTMENT ITEM		TRANSCEIVER'S CONDITION	OPERATION	ADJUST POINT	VALUE
POWER METER SETTING (70 MHz band) • Transmit (automatic) • Transmit (automatic) • Display: "POWER 70M 1%" • Transmit (automatic) 19 • Display: "POWER 70M 10%" • Transmit (automatic) 20 • Display: "POWER 70M 10%" • Transmit (automatic) 21 • Display: "POWER 70M TUNE" • Transmit (automatic) 22 • Display: "POWER 70M 50%" • Transmit (automatic) 22 • Display: "POWER 70M 50%" • Transmit (automatic) 23 • Display: "POWER 70M 100%" • Transmit (automatic) 23 • Display: "POWER 70M 100%" • Transmit (automatic) 24 • Display: "POWER 70M 100%" • Transmit (automatic) 23 • Display: "POWER 70M 100%" • Transmit (automatic) 24 • Display: "POWER AM Ratio 70M" • Transmit (automatic) 1) Touch [SET]. (Automatically starts to transmit.) 2) Adjust the TX power by rotating [MAIN DIAL], and then touch [SET].	TX POWER &	18	Display: "TX Total 70M Gain"	-		25 W
(70 MHz band) image: image	POWER METER SETTING		Transmit (automatic)			(A beep sounds, and
Sound 0.5 sec. later.) 19 Display: "POWER 70M 1%" 19 Transmit (automatic) 20 Display: "POWER 70M 10%" 2 Display: "POWER 70M 10%" 2 Transmit (automatic) 21 Display: "POWER 70M TUNE" 21 Display: "POWER 70M 50%" 22 Display: "POWER 70M 50%" 23 Display: "POWER 70M 100%" 23 Display: "POWER 70M 100%" 23 Display: "POWER 70M 100%" 7 Transmit (automatic) 23 Display: "POWER 70M 100%" 7 Transmit (automatic) 24 Display: "POWER 70M 100%" 7 Transmit (automatic) 24 Display: "POWER 70M 100%" 7 Transmit (automatic) 23 Display: "POWER AM Ratio 70M" 1) Touch [SET]. (Automatically starts to transmit.) (Abeep sounds, and then another beeps sound 0.5 sec. later.) 52.5 W (Abeep sounds, and then another beeps sound 0.5 sec. later.) 70 MHz band) Transmit (automatic) 1) Touch [SET]. (Alutomatically starts to transmit.) 2) Adjust the TX power by rotating	(70 MHz band)					then another beeps
19 Display: "POWER 70M 1%" • Transmit (automatic) • Transmit (automatic) • Display: "POWER 70M 10%" • Transmit (automatic) • Display: "POWER 70M 10%" • Transmit (automatic) • Display: "POWER 70M TUNE" • Transmit (automatic) • Display: "POWER 70M TUNE" • Transmit (automatic) • Display: "POWER 70M TUNE" • Transmit (automatic) • Display: "POWER 70M 50%" • Transmit (automatic) • Display: "POWER 70M 100%" • Transmit (automatic) • Transmit				-		sound 0.5 sec. later.)
* Transmit (automatic) * Transmit (automatic) 20 • Display: "POWER 70M 10%" * Transmit (automatic) * Transmit (automatic) 21 • Display: "POWER 70M TUNE" * Transmit (automatic) * Transmit (automatic) 22 • Display: "POWER 70M 50%" * Transmit (automatic) * Transmit (automatic) 22 • Display: "POWER 70M 50%" * Transmit (automatic) * Transmit (automatic) 23 • Display: "POWER 70M 100%" * Transmit (automatic) * Transmit (automatic) * Transmit (automatic) * Transmit (Automatically starts to transmit.) * Transmit (automatic) * Transmit (Automatically starts to transmit.) * Transmit (automatic) * Transmit (Automatically starts to transmit.) * AM CARRIER POWER		19	• Display: "POWER /0M 1%"			2 W
20 Display: "POWER 70M 10%" 20 Display: "POWER 70M 10%" • Transmit (automatic) • Transmit (automatic) 21 • Display: "POWER 70M TUNE" • Transmit (automatic) • Transmit (automatic) 22 • Display: "POWER 70M 50%" • Transmit (automatic) • Transmit (automatic) 22 • Display: "POWER 70M 50%" • Transmit (automatic) • Transmit (automatic) 23 • Display: "POWER 70M 100%" • Transmit (automatic) • Transmit (automatic) 23 • Display: "POWER AM Ratio 70M" • Transmit (automatic) • Transmit (automatic) • Transmit (automatic)			• Iransmit (automatic)			(A beep sounds, and
20 • Display: "POWER 70M 10%" 21 • Transmit (automatic) 21 • Display: "POWER 70M TUNE" • Transmit (automatic) 21 • Display: "POWER 70M TUNE" • Transmit (automatic) 22 • Display: "POWER 70M 50%" • Transmit (automatic) 23 • Display: "POWER 70M 100%" • Transmit (automatic) 23 • Display: "POWER 70M 100%" • Transmit (automatic) 23 • Display: "POWER 70M 100%" • Transmit (automatic) 1) Transmit (automatic) 1) Transmit (automatic) 23 • Display: "POWER 70M 100%" • Transmit (automatic) 1) Touch [SET]. (A beep sounds, and then another beeps sound 0.5 sec. later.) 52.5 W (A beep sounds, and then another beeps sound 0.5 sec. later.) 52.5 W (A beep sounds, and then another beeps sound 0.5 sec. later.) 52.5 W (A beep sounds, and then another beeps sound 0.5 sec. later.) 12.5 W (A beep sounds, and then another beeps sound 0.5 sec. later.) 21.5 W (A beep sounds, and then another beeps sound 0.5 sec						cound 0.5 coo lator)
 AM CARRIER POWER AM CARRIER POWER 24 • Display: "POWER 70M 100%" Transmit (automatic) 21 • Display: "POWER 70M 50%" Transmit (automatic) 22 • Display: "POWER 70M 50%" • Transmit (automatic) (A beep sounds, and then another beeps sound 0.5 sec. later.) 27.5 W (A beep sounds, and then another beeps sound 0.5 sec. later.) 23 • Display: "POWER 70M 100%" • Transmit (automatic) 23 • Display: "POWER 70M 100%" • Transmit (automatic) 1) Touch [SET]. (Automatically starts to transmit.) 24 • Display: "POWER AM Ratio 70M" • Transmit (automatic) 24 • Display: "POWER AM Ratio 70M" • Transmit (automatic) (Automatically starts to transmit.) 2) Adjust the TX power by rotating [MAIN DIAL], and then touch [SET]. 		20	Display: "BOWER 70M 10%"	-		
Aminimic (automatic) (A beep sounds, and then another beeps sound 0.5 sec. later.) 21 • Display: "POWER 70M TUNE" • Transmit (automatic) (A beep sounds, and then another beeps sound 0.5 sec. later.) 22 • Display: "POWER 70M 50%" • Transmit (automatic) • Transmit (automatic) 23 • Display: "POWER 70M 100%" • Transmit (automatic) • Transmit (automatic) 23 • Display: "POWER 70M 100%" • Transmit (automatic) • Transmit (automatic) 23 • Display: "POWER 70M 100%" • Transmit (automatic) • Transmit (automatic) • Transmit (automatic) • Transmit (automatic) • Transmit (automatic) • Transmit (automatic) • Transmit (automatic) • Display: "POWER 70M 100%" • Transmit (automatic) • Transmit (automatic) • Transmit (automatic) • Transmit (automatic) • Only for [#03, 05 and 06] • Display: "POWER AM Ratio 70M" • Only for [#03, 05 and 06] • Other the another beeps sound 0.5 sec. later.) • Other the another beeps sound 0.5 sec. later.) • Other the another beeps sound 0.5 sec. later.)		20	Transmit (automatic)			(A been sounds and
21 Display: "POWER 70M TUNE" Image: Sourd 0.5 sec. later.) Sourd 0.5 sec. later.) 21 Display: "POWER 70M 50%" Image: Sourd 0.5 sec. later.) Image: Sourd 0.5 sec. later.) 22 Display: "POWER 70M 50%" Image: Sourd 0.5 sec. later.) 27.5 W 23 Display: "POWER 70M 100%" Image: Sourd 0.5 sec. later.) 27.5 W 23 Display: "POWER 70M 100%" Sourd 0.5 sec. later.) 52.5 W Image: Transmit (automatic) Image: Transmit (automatic) Sourd 0.5 sec. later.) AM CARRIER POWER Child Display: "POWER AM Ratio 70M" Image: Transmit (automatic) Image: Transmit (automatic) AM CARRIER POWER Call Display: "POWER AM Ratio 70M" Image: Transmit (automatic) Image: Transmit (automatic) AM CARRIER POWER 24 Display: "POWER AM Ratio 70M" Image: Transmit (automatic) Image: Transmit (automatic) Image: Transmit (automatic) Only for [#03, 05 and 06] Image: Transmit (automatic) Image: Transmit (automatic) Image: Transmit (automatic) Image: Transmit (automatic) Image: Transmit (automatic) Image: Transmit (automatic) Image: Transmit (automatic) Image: Transmit (automatic) Image: Transmit (automatic) Image: Transmit (automatic)						then another beens
21• Display: "POWER 70M TUNE" • Transmit (automatic)Image: Image: Ima						sound 0.5 sec. later.)
 Am CARRIER POWER (70 MHz band) Only for [#03, 05 and 06] Transmit (automatic) Touch [SET]. (A beep sounds, and then another beeps sound 0.5 sec. later.) Transmit (automatic) Touch [SET]. (Automatically starts to transmit.) Adjust the TX power by rotating [MAIN DIAL], and then touch [SET]. Touch [SET]. 		21	Display: "POWER 70M TUNE"	-		10 W
Image: Main DIAL International them another beeps sound 0.5 sec. later.) 22 Display: "POWER 70M 50%" • Transmit (automatic) • Transmit (automatic) 23 • Display: "POWER 70M 100%" • Transmit (automatic) • Transmit (automatic) 23 • Display: "POWER 70M 100%" • Transmit (automatic) • Transmit (automatic) AM CARRIER POWER 24 • Display: "POWER AM Ratio 70M" 1) Touch [SET]. (Automatically starts to transmit.) 2) Adjust the TX power by rotating 12.5 W (A beep sounds, and then another beeps sound 0.5 sec. later.) 12.5 W (A beep sounds, 0.5 sec. later.) 12.5 W (Automatically starts to transmit.) 2) Adjust the TX power by rotating (MAIN DIAL], and then touch [SET]. sound 0.5 sec. later.)		· ·	• Transmit (automatic)			(A beep sounds, and
22 • Display: "POWER 70M 50%" • Transmit (automatic) 27.5 W 23 • Display: "POWER 70M 100%" • Transmit (automatic) 52.5 W 23 • Display: "POWER 70M 100%" • Transmit (automatic) 52.5 W AM CARRIER POWER 24 • Display: "POWER AM Ratio 70M" 1) Touch [SET]. 10 Touch [SET]. (70 MHz band) • Transmit (automatic) 1) Touch [SET]. 12.5 W Only for [#03, 05 and 06] • Display: "POWER AM Ratio 70M" 1) Touch [SET]. 12.5 W (A beep sounds, and then another beeps sound 0.5 sec. later.) 12.5 W 12.5 W (A beep sounds, and then another beeps sound 0.5 sec. later.) 20.4 djust the TX power by rotating [MAIN DIAL], and then touch [SET]. sound 0.5 sec. later.)						then another beeps
22 • Display: "POWER 70M 50%" 27.5 W • Transmit (automatic) • Transmit (automatic) (A beep sounds, and then another beeps sound 0.5 sec. later.) 23 • Display: "POWER 70M 100%" • Transmit (automatic) 52.5 W (A beep sounds, and then another beeps sound 0.5 sec. later.) 52.5 W AM CARRIER POWER (70 MHz band) 24 • Display: "POWER AM Ratio 70M" 1) Touch [SET]. Only for [#03, 05 and 06] 24 • Display: "POWER AM Ratio 70M" 1) Touch [SET]. 12.5 W (A beep sounds, and then another beeps sound 0.5 sec. later.) 10 Adjust the TX power by rotating [MAIN DIAL], and then touch [SET]. 12.5 W						sound 0.5 sec. later.)
 • Transmit (automatic) • Transmit (automatic) • Transmit (automatic) • Display: "POWER 70M 100%" • Transmit (automatic) • Display: "POWER 70M 100%" • Transmit (automatic) • Display: "POWER AM Ratio 70M" • Transmit (automatic) • Display: "POWER AM Ratio 70M" • Transmit (automatic) • Display: "POWER AM Ratio 70M" • Transmit (automatic) • Display: "POWER AM Ratio 70M" <l< td=""><td></td><td>22</td><td>• Display: "POWER 70M 50%"</td><td></td><td></td><td>27.5 W</td></l<>		22	• Display: "POWER 70M 50%"			27.5 W
AM CARRIER POWER 24 • Display: "POWER AM Ratio 70M" 1) Touch [SET]. 10 Sec. later.) AM CARRIER POWER 24 • Display: "POWER AM Ratio 70M" 1) Touch [SET]. 12.5 W AM CARRIER POWER 6 • Display: "POWER AM Ratio 70M" 1) Touch [SET]. 12.5 W (70 MHz band) • Transmit (automatic) • Transmit (automatic) 10 Touch [SET]. 12.5 W Only for [#03, 05 and 06] • Transmit (automatic) • Transmit (automatic) 10 Touch [SET]. 12.5 W			 Transmit (automatic) 			(A beep sounds, and
AM CARRIER POWER 24 • Display: "POWER AM Ratio 70M" 1) Touch [SET]. 10 Sec. later.) AM CARRIER POWER 24 • Display: "POWER AM Ratio 70M" 1) Touch [SET]. 12.5 W AM CARRIER POWER 6 • Display: "POWER AM Ratio 70M" 1) Touch [SET]. 12.5 W (70 MHz band) • Transmit (automatic) • Transmit (automatic) 10 Touch [SET]. 12.5 W Only for [#03, 05 and 06] • Transmit (automatic) • Display: "POWER AM Ratio 70M" 10 Touch [SET]. 12.5 W						then another beeps
23 • Display: "POWER 70M 100%" 52.5 W • Transmit (automatic) • Transmit (automatic) 64 beep sounds, and then another beeps sound 0.5 sec. later.) AM CARRIER POWER (70 MHz band) • Display: "POWER AM Ratio 70M" 1) Touch [SET]. 12.5 W Only for [#03, 05 and 06] • Transmit (automatic) • Transmit (automatic) 1) Adjust the TX power by rotating [MAIN DIAL], and then touch [SET]. 12.5 W				_		sound 0.5 sec. later.)
• Transmit (automatic) • Transmit (automatic) (A beep sounds, and then another beeps sound 0.5 sec. later.) AM CARRIER POWER (70 MHz band) • Display: "POWER AM Ratio 70M" 1) Touch [SET]. 12.5 W (A beep sounds, and then another beeps sound 0.5 sec. later.) • Transmit (automatic) 1) Adjust the TX power by rotating [MAIN DIAL], and then touch [SET]. 12.5 W		23	• Display: "POWER 70M 100%"			52.5 W
AM CARRIER POWER (70 MHz band) Only for [#03, 05 and 06] 24 • Display: "POWER AM Ratio 70M" 1) Touch [SET]. • Transmit (automatic) 0 Adjust the TX power by rotating [MAIN DIAL], and then touch [SET]. • Transmit (automatic) • Transmit (automatic)			Transmit (automatic)			(A beep sounds, and
AM CARRIER POWER (70 MHz band) 24 • Display: "POWER AM Ratio 70M" • Transmit (automatic) 1) Touch [SET]. 12.5 W Only for [#03, 05 and 06] • Transmit (automatic) 2) Adjust the TX power by rotating [MAIN DIAL], and then touch [SET]. 12.5 W						then another beeps
AM CARRIER POWER 24 • Display: "POWER AM Ratio 70M" 1) louch [SE1]. 12.5 W (70 MHz band) • Transmit (automatic) (Automatically starts to transmit.) (A beep sounds, and Only for [#03, 05 and 06] • Transmit (automatic) 2) Adjust the TX power by rotating [MAIN DIAL], and then touch [SET]. sound 0.5 sec. later.)					-	sound 0.5 sec. later.)
(70 MHZ band) • Transmit (automatic) (Automatically starts to transmit.) (A beep sounds, and Only for [#03, 05 and 06] 2) Adjust the TX power by rotating then another beeps [MAIN DIAL], and then touch [SET]. sound 0.5 sec. later.)		24	• Display: "POWER AM Ratio 70M"	1) Iouch [SEI].		12.5 W
[MAIN DIAL], and then touch [SET]. sound 0.5 sec. later.)	(/U WHZ DAND)		• Iransmit (automatic)	(Automatically starts to transmit.)		(A beep sounds, and
				[MAIN DIAL] and then touch [SET]		
Puch [EVIT] to return to the main adjustment menu			Linch [EVIT] to roturn to the main adi	istmont monu	1	Sound 0.5 Sec. Idlef.)

4-5 TX AMPLIFIER ADJUSTMENTS

• Touch [TX/ID] on the main adjustment menu screen. NOTE: The transceiver automatically transmits when a TX adjustment item is selected.

ADJUSTMENT ITEM		TRANSCEIVER'S CONDITION	OPERATION	VALUE
PREPARATION	1	 Display: "TX POWER SET" 	1) Connect the AG with the millivoltmeter	-
		Receive	to [MIC], and then set it as;	
			Frequency : 1.5 kHz	
			Level : 30 mVrms	
			2) Connect the power meter to the	
			antenna connector.	
			3) Touch [ALC] on the TX adjustment	
			menu, to enter to the TX amplifier	
			adjustment mode.	
ALC METER	2	Display: "ALC HF"	-	Touch [SET].
		 Transmit (automatic) 		(A beep sounds, and then another
	3	• Display: "ALC 50M"		beeps sound 3 sec. later.)
		 Transmit (automatic) 		
Only for [#03, 05 and 06]	4	 Display: "ALC 70M" 		
		 Transmit (automatic) 		
DRIVE AMP GAIN	5	 Display: "DRIVE HF" 		Touch [SET].
		 Transmit (automatic) 		(A beep sounds, and then another
				beeps sound 10 sec. later.)
	6	 Display: "DRIVE 50M" 		Touch [SET].
		 Transmit (automatic) 		(A beep sounds, and then another
				beeps sound 3 sec. later.)
	7	 Display: "DRIVE 70M" 		Touch [SET].
		 Transmit (automatic) 		(A beep sounds, and then another
				beeps sound 1 sec. later.)
SWR METER	8	• Display: "SWR2 (HF)"	• Connect the 50 Ω dummy load to the	Touch [SET].
		Transmit (automatic)	antenna connector.	(A beep sounds, and then another
	9	• Display: "SWR2 (50M)"		beeps sound 3 sec. later.)
		Transmit (automatic)		
Only for [#03, 05 and 06]	10	• Display: "SWR2 (70M)"		
		 Transmit (automatic) 		
Id APC	11	• Display: "ID-APC"	-	Touch [SET].
		 Transmit (automatic) 		(A beep sounds, and then another
				beeps sound 2 sec. later.)
	Push [EXIT] to return to the main adjustment menu.			

4-6 FREQUENCY ADJUSTMENTS

• Touch [TUNER/REF] on the main adjustment menu screen. NOTE: The transceiver automatically transmits when a TX adjustment item is selected.

ADJUSTMENT ITEM		TRANSCEIVER'S CONDITION	OPERATION	VALUE
PREPARATION	1		1) Connect the power meter to the antenna	Touch [TUNER/REF].
			connector.	(Enters to the [TUNER/
		_	2) Touch [TUNER/REF].	REF ADJ.] menu.)
			(Enters to the [TUNER/REF ADJ.] menu.)	
			3) Touch [TUNER].	
TUNER REFERENCE	2	Display: "Tune IREFV HF 50M"	-	Touch [SET].
VOLTAGE ADJUSTMENT		 Transmit (automatic) 		(A beep sounds, and
(HF and 50 MHz bands)				then another beeps
				sound 11 sec. later.)
(70 MHz band)	3	 Display: "Tune IREFV HF 70M" 		Touch [SET].
Only for [#03, 05 and 06]		 Transmit (automatic) 		(A beep sounds, and
				then another beeps
				sound 1 sec. later.)
REFERENCE	4	-	1) Connect the frequency counter to the	-
FREQUENCY			antenna connector, through the 50 dB	
			attenuator.	
			2) Touch [MENU] REF adjustment menu.	
	5	 Display: "REF OSC" 	1) Set the transmit frequency by rotating	50.100000 MHz
		 Transmit (automatic) 	[MAIN DIAL].	(±1.2 Hz)
			2) Touch [SET].	(A beep sounds, and
				then another beeps
				sound 0.5 sec. later.)
	Push [EXIT] to return to the main adjustment menu.			