

## TECHNICAL INFORMATION #925

ZIB-118

To: ICOM Distributors  
From: ICOM Inc. / CS Department  
Date: November 10, 2002

Service handling necessary: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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### **Re: IC-2720 Adjustment Method by CS-2720 Cloning Software**

The following hardware and software is required:

- 1- OPC-478 cloning cable
- 2- CS-2720 cloning software

#### **Procedure**

(1) Install the cloning software, runs on Windows98/ME/2000/XP.

Enter password according to the CS-2720 instruction manual. (Example: 250801-001123)

(2) When the install has completed, CS-2720 icon will be displayed on the screen, right click on it to open property.

(3) Following command will be appear in Link bar of property:

**C:\Program Files\Icom\CS-2720.exe**

Add space and "FX-2492AdjustStart" at the end of above command as shown bellow:

**C:\Program Files\Icom\CS-2720.exe FX-2492AdjustStart**

Push [OK]

(4) Make sure that transceiver is connected to PC by OPC-478 cloning cable.

Click on CS-2720 icon to start the software.

(5) Click on "Clone" in toolbar of cloning software and confirm the operation. "Go Adjust Mode F12" is added.

(6) The adjustment values change by right main dial of transceiver.

RIGHT [MAIN]: Item movement (Forward)

RIGHT [V/MHz]: Item movement (Reverse)

RIGHT [M/CALL]: Switching for AM mode

Push [SET] after each item setting and confirm.

#### **Note**

Look at the attachment list for item number values.

**0 to 7:** Adjustment inhibited.

**8:** Transmission output power adjustment is permitted

**9 & 10:** Transmission output power adjustment is permitted

**11 to 14:** Modulation level adjustment is permitted

**15 & 18:** DTCS adjustment inhibited. Do not change values

**16 & 17:** DTCS adjustment is permitted

**19 to 42:** Filter circuit tracking adjustment. Do not change values

**43 to 49:** S-Meter adjustment is permitted

**50 to 77:** SQL level adjustment is permitted

**78 to 83:** Protection circuit adjustment. Do not change values

**84 and more:** Adjustment inhibited

**IC-2720 (FX-2492)/IC-2720D (FX-2493)**

Connect OPC-478 cloning cable to SP-2 plug of IC-2720.

1. Run the CS-2720, open the file and select #01.icf. Memory is displayed for adjustment.

2. Open the Clone item in toolbar and click on "Go Adjust Mode".

Cloning started automatically and "cLonE In" appears on the IC-2720 controller screen.

The cloning progress condition is displayed with the left and right S-meter.

3.Keys Operation

[MAIN/BAND] key: Item movement (Forward)

[V/MHz] key: Item movement (Reverse)

Right Side [DIAL] knob: Value Change

Right Side [SET] key: Value Confirmation

Cancellation is possible with all reset operation. (Push left and right [MAIN/CALL] and turn the power ON)

MIC U/D terminal is connected to 22K ohms resistor. Change the values is not permitted only for 145.00MHz.

Following chart shows the adjustment by #01.icf file:

**Controller Display**

**IC-2720 Sample**

No	Left Side (144)					Right Side (430)					Presetting value	
		Frequency Display			Mch		Frequency Display			Mch	Adjustment contents	Auto Generation
0		--	--	62	--	MAIN	44	0.0	00	Fr	#NAME?	
1		--	--	Ad	--	MAIN	44	0.0	00	Fr		
2		--	--	dA	--	MAIN	44	0.0	00	Fr		
3		--	--	8A	--	MAIN	44	0.0	00	Fr		
4		--	--	76	--	MAIN	44	0.0	00	Fr		
5		--	--	80	--	MAIN	44	0.0	00	Fr		
6		--	--	8c	--	MAIN	44	0.0	00	Fr		
7		--	--	78	--	MAIN	44	0.0	00	Fr		
8		--	--	Fc	--	MAIN	44	0.0	00	Fr	Frequency	Change Inhibited
9	MAIN	14	5.0	00	Po		--	--	8F	--	144TX output Hi/Mid/Lo	Change Permitted
10		--	--	65	--	MAIN	44	0.0	00	Po	430TX output Hi/Mid/Lo	Change permitted
11	MAIN	14	4.0	00	dE		--	--	A0	--	Modulation Adjustment for lowest freq (144Mhz)	Change Permitted
12	MAIN	14	6.0	00	dE		--	--	9d	--	Modulation Adjustment for lowest freq (146Mhz)	Change Permitted
13		--	--	8D	--	MAIN	43	0.0	00	dE	Modulation Adjustment for lowest freq (430Mhz)	Change Permitted
14		--	--	85	--	MAIN	44	0.0	00	dE	Modulation Adjustment for lowest freq (440Mhz)	Change Permitted



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15	MAIN	14	5.1	00	dt		--	--	FF	--		Change Inhibited
16	MAIN	14	5.1	00	dt		--	--	88	--		Change Permitted
17		--	--	67	--	MAIN	43	5.1	00	dt		Change Permitted
18		--	--	88	--	MAIN	44	5.1	00	dt	DTCS Adjustment	Change Inhibited
19	MAIN	11	8.2	00	tr		2F	24	31	52	To set t1 tracking	Change Permitted
20	MAIN	14	6.2	00	tr		83	71	8E	5b	To set t2 tracking	
21	MAIN	17	9.8	00	tr		bb	AF	EA	Ad	To set t3 tracking	
22	MAIN	18	0.2	00	tr		26	28	7F	4c	To set t1 tracking	Change Permitted
23	MAIN	22	0.3	65	tr		7E	63	80	80	To set t2 tracking	
24	MAIN	25	9.8	00	tr		Ec	9b	7F	80	To set t3 tracking	
25	MAIN	26	0.2	00	tr		4A	43	80	80	To set t1 tracking	Change Permitted
26	MAIN	32	0.2	00	tr		89	86	55	27	To set t2 tracking	
27	MAIN	37	4.8	00	tr		9c	cA	80	7d	To set t3 tracking	
28	MAIN	37	5.2	00	tr		3d	1E	4A	25	To set t1 tracking	Change Permitted
29	MAIN	41	0.2	00	tr		91	7F	86	8b	To set t2 tracking	
30	MAIN	44	9.8	00	tr		dd	d8	Eb	Ec	To set t3 tracking	
31	MAIN	45	0.2	00	tr		62	46	44	8F	To set t1 tracking	Change Permitted
32	MAIN	50	0.2	00	tr		c0	8F	88	EF	To set t2 tracking	
33	MAIN	54	9.8	00	tr		EE	d9	cc	Eb	To set t3 tracking	
34		36	30	30	43	MAIN	11	8.2	00	tr	To set t1 tracking	Change Permitted
35		7d	80	7E	64	MAIN	14	6.2	00	tr	To set t2 tracking	
36		A8	Ac	F1	9b	MAIN	17	3.8	00	tr	To set t3 tracking	
37		3c	4A	62	0E	MAIN	37	5.2	00	tr	To set t1 tracking	Change Permitted
38		9c	A2	9E	79	MAIN	41	0.2	00	tr	To set t2 tracking	
39		b8	Ed	Fb	Ac	MAIN	44	9.8	00	tr	To set t3 tracking	
40		20	63	6A	6c	MAIN	45	0.2	00	tr	To set t1 tracking	Change Permitted
41		AE	b3	A7	AE	MAIN	50	0.2	00	tr	To set t2 tracking	
42		d9	F1	F5	F7	MAIN	54	9.8	00	tr	To set t3 tracking	
43	MAIN	14	5.3	00	SL		--	--	FF	--	S-Meter Adj FM/AM	Change Permitted
44	MAIN	22	0.3	65	SL		--	--	F3	--	S-Meter Adj FM/AM	
45	MAIN	35	0.0	85	SL		--	--	F5	--	S-Meter Adj FM/AM	
46	MAIN	43	5.2	00	SL		--	--	FA	--	S-Meter Adj FM/AM	
47		--	--	F2	--	MAIN	14	5.3	00	SL	S-Meter Adj FM/AM	Change Permitted
48		--	--	F2	--	MAIN	43	5.2	00	SL	S-Meter Adj FM/AM	
49		--	--	EE	--	MAIN	91	0.2	00	SL	S-Meter Adj FM	
50	MAIN	14	5.3	00	Sq		00	FF	04	--	SQL level FM/FMN (Open, Tight)	Change Permitted
51	MAIN	14	5.3	00	Sq		00	FF	30	--	SQL level FM/FMN (Open, Slash)	
52	MAIN	14	5.3	00	Sq		00	FF	24	--	SQL level FM/FMN (Close, Tight)	

