

SCP-133A S/H·US Adjustment Description for Mass production.

Model Code NO.	1-163-252-08
Model NO.	SCP-310 S/H·CN

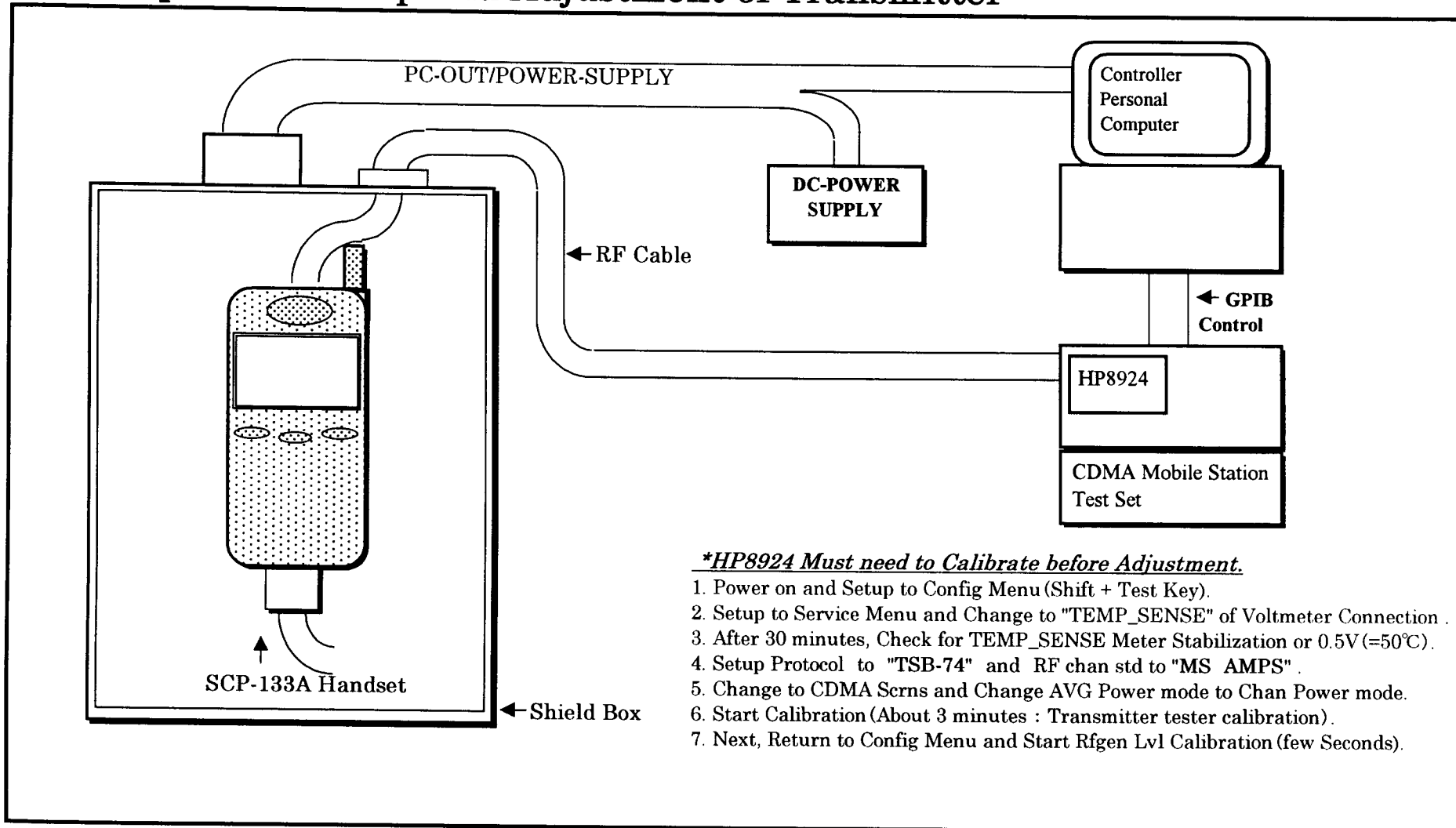
Eng.Section	Personal Telecommunication Division Technical Engineering Department RF Section
NAME	T.Taniguchi

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3	Adjustment Value

Minor Change Version

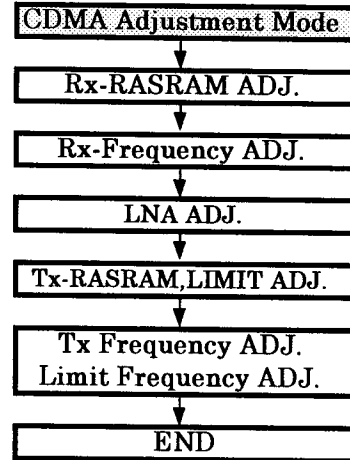
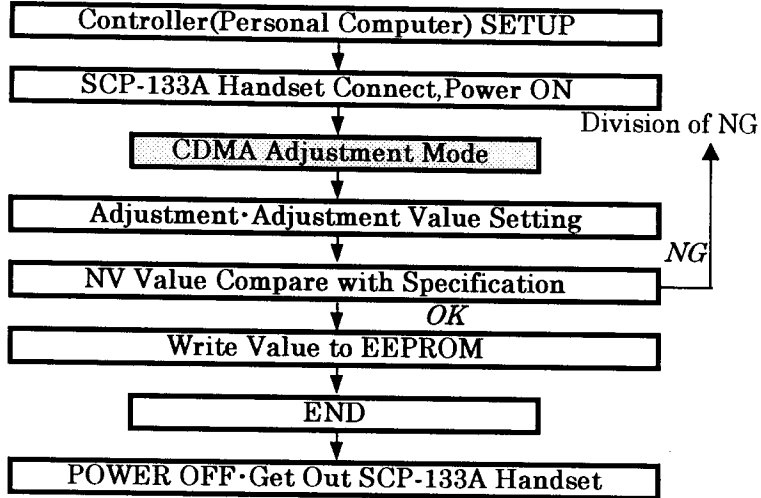
NO.		

# 1. Set-Up for Tune-Up and Adjustment of Transmitter

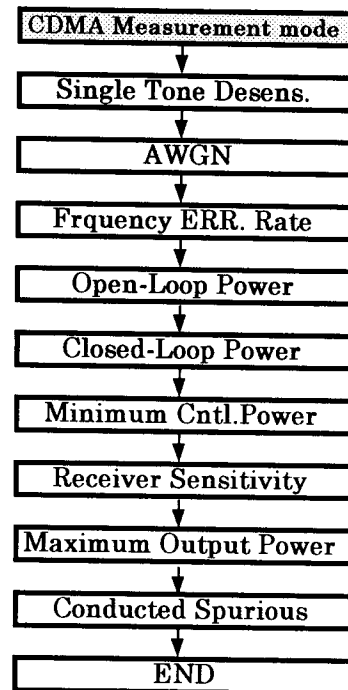
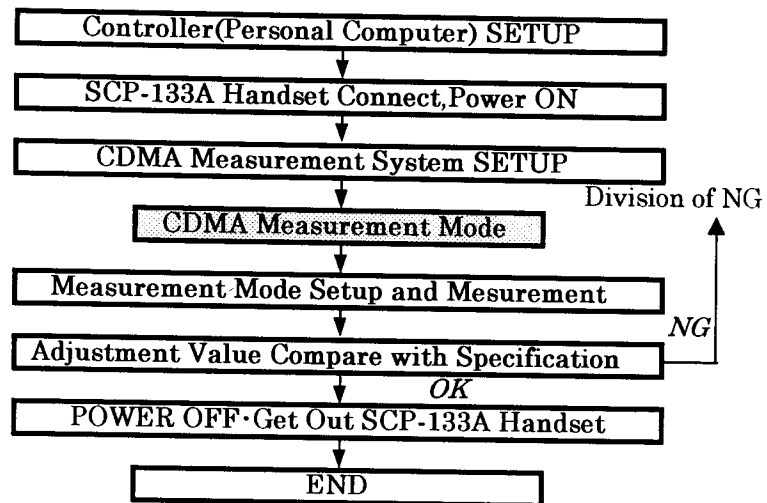


## 2 Alignment Procedure

### (1) Adjustment Procedure



(2) Measurement Procedure



### 3.Adjustment Value

1.CDMA RX Adjustment

ITEM	Sub-ITEM	Handset Setup(Internal Setup)	HP8924 Setup	Adj. Value	Accuracy of NV-Value
Rx-RASRAM Adjustment	Table 1	Normal Mode	CDMA Ch=358 :SG LV=-106.0dBm	-106.0dBm	
	Table 2	OFF Line Mode	SG LV=-100.6dBm	-100.6dBm	
	Table 3		SG LV=-95.3dBm	-95.3dBm	
	Table 4		SG LV=-90.0dBm	-90.0dBm	
	Table 5		SG LV=-84.7dBm	-84.7dBm	
	Table 6		SG LV=-79.4dBm	-79.4dBm	
	Table 7		SG LV=-74.1dBm	-74.1dBm	
	Table 8		SG LV=-68.8dBm	-68.8dBm	
	Table 9		SG LV=-63.5dBm	-63.5dBm	
	Table 10		SG LV=-58.1dBm	-58.1dBm	
	Table 11		SG LV=-52.8dBm	-52.8dBm	
	Table 12		SG LV=-47.5dBm	-47.5dBm	
	Table 13		SG LV=-42.2dBm	-42.2dBm	
	Table 14		SG LV=-36.9dBm	-36.9dBm	
	Table 15		SG LV=-31.6dBm	-31.6dBm	
	Table 16		SG LV=-26.3dBm	-26.3dBm	
	Table 17		SG LV=-21.0dBm	-21.0dBm	
RX AGC Frequency Adjustment	Bk 0=1017ch	Normal Mode	RF INPUT(SG) LV=-63.5dBm	AGC DIFF.	
	Bk 1=46ch	Reference ch :358ch	Change to Channel 16 Time.	AGC DIFF.	
	Bk 2=98ch	Deference of Center ch AGCsym.		AGC DIFF.	
	Bk 3=150ch	Change to Channel 16 Time.		AGC DIFF.	
	Bk 4=202ch	OFF Line Mode		AGC DIFF.	
	Bk 5=254ch			AGC DIFF.	
	Bk 6=306ch			AGC DIFF.	
	Bk 7=358ch			Center CH	
	Bk 8=410ch			AGC DIFF.	
	Bk 9=462ch			AGC DIFF.	
	Bk10=514ch			AGC DIFF.	
	Bk11=566ch			AGC DIFF.	
	Bk12=618ch			AGC DIFF.	
	Bk13=670ch			AGC DIFF.	
	Bk14=722ch			AGC DIFF.	
Bk15=774ch			AGC DIFF.		



2. CDMA TX & TX-LIMIT Adjustment

ITEM	Sub-ITEM	Handset Setup(Internal Setup)	HP8924 Setup	Adj. Value	Accuracy of NV-Value	
Tx-RASRAM → Adjustment		Nomal Test Mode	CDMA Ch=358ch	+23.5dBm		
			SG level is cording to the transmission power level of MS	-50.0dBm		
&		TOTAL:36Parametor				
		Symbol				
		-50.0dBm	+23.5dBm			
	Tx-Limit → Adjustment	Table 1		CDMA Ch=358ch	+11.75dBm	
		Table 2			+13.1dBm	
		Table 3			+14.4dBm	
		Table 4			+15.7dBm	
		Table 5			+17.1dBm	
		Table 6			+18.4dBm	
		Table 7			+19.7dBm	
		Table 8			+21.1dBm	
		Table 9			+22.4dBm	
		Table 10			+23.7dBm	
		Table 11			+25.1dBm	
		Table 12			+26.4dBm	
		Table 13			+27.7dBm	
		Table 14			+29.0dBm	
Table 15				+30.4dBm		
Table 16				+31.7dBm		
OFFSET		Offset : 18.4dB(Table 6)			+19.7dBm	
SPN	Spn : 26.4dBm(Table 12)			+29.0dBm		

## 4. Measurement Specification of Adjustment

### CDMA Measurement Specification

Measurement Item	Standard Item	IS98C Standard Spec	Measurement Spec	Measurement Condition	Measurement Channel	Others
<i>RTC Demod. of FW.ch</i> AWGN Test6(Eb/Nt=4.6) AWGN Test12(Eb/Nt=2.9)	98C:9.3.3	1%(0.010) 1%(0.010)	1%(0.010) 1%(0.010)	Rate1 1200(TEST6) Rate2 1800(TEST12)	383ch 383ch	
<i>Waveform Quality</i> RHO Frequency Err Rate Time Offset	98C:10.3.2	>0.944 ±300Hz ±1 μ S	>0.944 ±300Hz ±1 μ S	Rateset2 SVC opt9 14400bps Traffic Ec/Io -12.3dB	1013ch,383ch,777ch 1013ch,383ch,777ch 1013ch,383ch,777ch	
<i>TTC Range of Openloop</i> Openloop Power Test1 Openloop Power Test2 Openloop Power Test3	98C:10.4.1	dBm -48±9.5(CLASS III) -8±9.5(CLASS III) 20±9.5(CLASS III)	dBm -48±9.5(CLASS III) -8±9.5(CLASS III) 20±9.5(CLASS III)	Rateset2 SVC opt9 14400bps	1013ch,383ch,777ch 1013ch,383ch,777ch 1013ch,383ch,777ch	
<i>TTC Range of Closedloop</i> Closedloop Full Power Closedloop Max Power Closedloop Min Power	98C:10.4.4	RF Output = -15dBm >+24dB <-24dB	-16±3dBm >+24dB <-24dB	Rateset2 SVC opt9 14400bps	1013ch,383ch,777ch 1013ch,383ch,777ch 1013ch,383ch,777ch	
<i>TTC Min. Controlled Pow</i> Minimum Controlled Pow	98C:10.4.6	-50dBm/1.23MHz	-50dBm/1.23MHz	Rateset2 SVC opt9 14400bps	1013ch,383ch,777ch	
<i>RTC Receiver Sensitivity</i> Receiver Sensitivity FER	98C:9.4.1	0.5%(Confidence95%)	0.5%(Confidence95%)	Rate2 Full -104.0dBm	1013ch,383ch,777ch	
<i>Single Tone Desens.</i> Sensitivity FER	98C:9.4.2	1.0%(Confidence95%)	1.0%(Confidence95%)	Tone Offset ±900kHz	1013ch,383ch,777ch	
<i>TTC Max RF Output Pow</i> Max Power Output Max Power Spurious(Ch) Max Pow.Spurious Freqoff	98C:10.4.5	> 0.2W < -42dBc	22.0dBm - 24.0dBm < -42dBc		1013ch,383ch,777ch 1013ch,383ch,777ch 1013ch,383ch,777ch	