DESCPRIPTIVE INFORMATION Parts List

<u>Reference No.</u>	Function	Part No.
10.1.11	PLL Synthesizer	
IC 141	PLL IC	MB15F73SP
X 1401	PCS/AMPS VCO	VC-2R8A26-0967/1750C
	<u>Transmitter</u>	
IC 133	PCS Power Amplifier	RF5154
IC 134	AMPS Power Amplifier	RF2192
IC 131	Switch	UPG2008TK
Q 1312,1314	Transister	DTC144EE
Q 1313,1314	Transister	DTA124XE
D 1304,1305	Diode	HSC88
XF 110	Diplexer	LFDP15N0040A
XF 112	PCS Duplexer	DFYK91G88LDGAA
XF 111	AMPS Duplexer	FAR-D5CN-881M50-D1N4
XF 132	PCS Isolator	CE0411G88DCA
XF 134	AMPS Isolator	CE053R836DCB
XF 131	PCS Couper	LDC10B190J1880
XF 133	AMPS Couper	LDC10B150J0836
XF 130	PCS RF SAW Filter	SF25-1880H8UU04
XF 135	AMPS RF SAW Filter	SAFSE836MAL0T
	Regulator	
IC 151	Regulator (3 OV)	R11400301B
IC 153	Regulator $(3.0V)$	R1140Q301D R11410291B
10 135	regulator (2.5 V)	11119201D
	<u>Receiver</u>	
IC 122	LNA/Mixer	RF2496
IC 121	PCS LNA	NE34018
Q 1205	Transister	2SC4617
XF 121	PCS/AMPS RF SAW Filter	SAWCD881MFA0T
XF 123	PCS IF SAW Filter	B4915
XF 122	AMPS IF SAW Filter	SAFC85.380MA15X
	IF AGC Circuit	
IC 130	TX AGC+Mixer IC	RFT3100
IC 123	RX AGC IC	IFR3000
D 1202 1203 1301 1302	Diode	HVC202A
D 1201 D1303	Diode	DAN235E
0 1203 01301	Transistor	DTC144EF
4 IN00, 41001		
	TCXO Circuit	
X 1400	ТСХО	KT18B-CCV30A-19.200M-T
Q 1401	Transistor	2SC4649

PCS/AMPS-Mode RF Block/Parts List

MODEL NO. SCP-6200

FCC USE ONIY

C1104 12P C1280 33P C1362 2,5P C2398 33P C1107 100P C1282 0.01U C1365 10P C2399 33P C1120 100P C1283 1000P C1283 1000P C1370 1U C2661 7P C1205 100P C1285 38P C1371 11U C2664 7P C1205 100P C1286 0.03U C1373 100P C2664 7P C1211 2.5P C1290 2.2U C1375 100P C2666 7P C1215 1000P C1303 390P C1376 100P C2666 7P C1216 1000P C1303 390P C1376 100P C2666 7P C1213 1000P C1303 390P C1378 100P C2676 7P C1216 1000P C1308 100P C1381 100P C2676 7P C1221	Ref NO.	Description								
C1104 12P C1281 33P C1365 10P C2399 33P C1107 100P C1282 0.01U C2660 2P	C1102	3P	C1280	33P	C1362	2.5P	C2398	33P		
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	C1104	12P	C1281	33P	C1365	10P	C2399	33P		
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	C1107	100P	C1282	0.01U	C1366	0.01U	C2660	22P		
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	C1120	100P	C1283	1000P	C1370	1U	C2661	7P		
C1205 100P C1286 0.0P C1287 8P C2664 PP C1211 2.5P C1200 2.2U C1375 100P C2666 PP C1211 5.5P C1301 390P C1378 TP C2666 PP C1215 100P C1303 390P C1378 TP C2667 TP C1215 1000P C1303 390P C1378 TP C2667 TP C1218 1000P C1308 100P C2687 TP C C1219 1000P C1308 100P C2677 TP C C1221 0.1U C1310 470P C1383 100P C2674 22P C C1222 0.01U C1313 100P C1406 0.1U C2677 1U C C1224 0.01U C1313 100P C1406 1.0U C2678 1U C C1224 0.01U C131	C1204	1P	C1285	3P	C1371	1U	C2662	7P		
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	C1205	100P	C1286	0.033U	C1373	100P	C2663	7P		
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	C1208	56P	C1287	8P	C1374	8P	C2664	7P		
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	C1211	2.5P	C1290	2.2U	C1375	100P	C2665	7P		
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	C1213	0.5P	C1301	390P	C1376	100P	C2666	7P		
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	C1215	1000P	C1302	390P	C1378	7P	C2667	7P		
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	C1216	100P	C1303	390P	C1379	100P	C2668	7P		
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	C1217	33P	C1304	390P	C1380	4.7U	C2669	7P		
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	C1218	1000P	C1305	22P	C1381	100P	C2671	7P		
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	C1219	1000P	C1308	1000P	C1382	0.01U	C2672	7P		
C1221 0.1U C1310 4700P C1384 100P C2674 22P C1224 0.01U C1312 0.01U C1401 0.01U C2676 1U C1224 0.01U C1313 100P C1406 0.1U C2677 1U	C1220	100P	C1309	0.1U	C1383	100P	C2673	7P		
C1222 2P C1311 0.1U C1385 0.01U C2675 22P C1224 0.01U C1312 0.01U C1406 0.1U C2676 1U C1235 0.01U C1314 0.01U C1406 0.1U C2677 1U C1231 1000P C1315 47P C1408 1000P C2679 1U	C1221	0.1U	C1310	4700P	C1384	100P	C2674	22P		
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	C1222	2P	C1311	0.1U	C1385	0.01U	C2675	22P		
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	C1224	0.01U	C1312	0.01U	C1401	0.01U	C2676	1U		
C1230 0.033U C1315 47P C1408 1000P C2678 1U C1231 0.000P C1315 47P C1408 10U C2689 1U C1232 0.033U C1316 47P C1410 2200P C2681 1U 1U C1234 2P C1317 47P C1410 2200P C2681 1U 1U C1234 1000P C1318 100P C1411 100U C2688 0.47U 1U C1238 1000P C1321 8P C1413 100U C2686 0.22U 1U 111 C1241 8P C1323 300P C1416 1000P C2688 0.22U 111 C1242 8P C1326 0.01U C1420 0.01U C2892 0.47U 111 C1244 8P C1326 0.01U C1421 1000P C2689 0.47U 1111 C1245 0.1U C1328 1000P C1421 1000P C2699 0.1U 1124 C1246	C1225	0.01U	C1313	100P	C1406	0.1U	C2677	1U		
C1231 1000P C1315 47P C1408 10U C2679 IU C1232 0.033U C1316 47P C1410 2200P C2681 IU IU C1234 2P C1317 47P C1411 0.22U C2682 IU IU C1236 1000P C1318 10P C1413 10U C2684 0.47U IU C1238 1000P C1320 4P C1413 10U C2685 0.22U IU IU C1240 0.01U C1322 3300P C1416 100P C2687 0.22U IU IU <td>C1230</td> <td>0.033U</td> <td>C1314</td> <td>0.01U</td> <td>C1407</td> <td>1000P</td> <td>C2678</td> <td>1U</td> <td></td> <td></td>	C1230	0.033U	C1314	0.01U	C1407	1000P	C2678	1U		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	C1231	1000P	C1315	47P	C1408	10U	C2679	1U		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	C1232	0.033U	C1316	47P	C1410	2200P	C2681	1U		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	C1234	2P	C1317	47P	C1411	0.22U	C2682	1U		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	C1236	1000P	C1318	100P	C1412	1200P	C2683	0.47U		
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	C1237	0.01U	C1319	4P	C1413	10U	C2684	0.47U		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	C1238	1000P	C1320	4P	C1414	0.01U	C2685	0.22U		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	C1239	1000P	C1321	8P	C1415	1000P	C2686	0.22U		
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	C1240	0.01U	C1322	3300P	C1416	100P	C2687	0.22U		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	C1241	8P	C1323	3300P	C1417	4700P	C2688	0.22U		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	C1242	8P	C1324	100P	C1418	0.47U	C2689	0.22U		
C1245 5P C1326 0.01U C1420 0.01U C2692 0.47U C1246 0.01U C1327 0.01U C1421 1000P C2693 0.47U C1248 0.01U C1328 1000P C1422 1000P C2694 0.47U C1249 0.01U C1329 1000P C1421 1000P C2696 0.1U C1250 0.01U C1330 0.12U C1424 100P C2697 0.1U C1251 4700P C1331 560P C1425 100P C2698 0.1U C1252 1000P C1332 1000P C1426 27P C2699 0.1U C1253 0.01U C1333 82P C1427 0.01U C1255 0.01U C1336 0.01U C1506 2.2U </td <td>C1243</td> <td>0.5P</td> <td>C1325</td> <td>0.10</td> <td>C1419</td> <td>0.022U</td> <td>C2691</td> <td>0.22U</td> <td></td> <td></td>	C1243	0.5P	C1325	0.10	C1419	0.022U	C2691	0.22U		
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	C1245	5P	C1326	0.01U	C1420	0.010	C2692	0.470		
C1248 0.01U C1328 1000P C1422 1000P C2694 0.47U C1249 0.01U C1320 1000P C1423 1000P C2696 0.1U C1250 0.01U C1330 0.12U C1424 100P C2697 0.1U C1251 4700P C1331 560P C1425 100P C2698 0.1U C1252 1000P C1332 1000P C1426 27P C2699 0.1U C1253 0.01U C1333 82P C1427 0.01U C1254 0.01U C1335 7P C1501 10U C1255 0.01U C1336 0.01U C1502 1U	C1246	0.01U	C1327	0.01U	C1421	1000P	C2693	0.470		
C1249 0.01U C1329 1000P C1424 100P C2696 0.1U C1250 0.01U C1330 0.12U C1424 100P C2697 0.1U C1251 4700P C1331 560P C1425 100P C2698 0.1U C1252 1000P C1332 1000P C1425 100P C2698 0.1U C1253 0.01U C1333 82P C1427 0.01U C1254 0.01U C1335 7P C1501 10U C1255 0.01U C1335 7P C1502 1U C1256 0.01U C1336 0.01U C1506 2.2U	C1248	0.01U	C1328	1000P	C1422	1000P	C2694	0.470		
C1230 0.010 C1330 0.120 C1424 100P C2697 0.10 C1251 4700P C1331 560P C1425 100P C2698 0.1U	C1249	0.01U	C1329	1000P	C1423	1000P	C2696	0.1U		
C1251 4700P C1331 560P C1425 100P C2698 0.1U C1252 1000P C1332 1000P C1426 27P C2699 0.1U C1253 0.01U C1333 82P C1427 0.01U C C C1254 0.01U C1334 82P C1501 10U C1255 0.01U C1335 7P C1502 1U C1256 1000P C1336 0.01U C1506 2.2U	C1250	0.01U	C1330	0.120	C1424	100P	C2697	0.1U		
C1232 1000P C1426 27P C2699 0.1U C1253 0.01U C1333 82P C1427 0.01U C1254 0.01U C1334 82P C1501 10U C1255 0.01U C1335 7P C1502 1U C1255 0.01U C1336 0.01U C1506 2.2U C1257 22P C1337 100P C1507 1U C1260 0.1U C1339 56P <t< td=""><td>C1251</td><td>4700P</td><td>C1331</td><td>560P</td><td>C1425</td><td>100P</td><td>C2698</td><td>0.1U</td><td></td><td></td></t<>	C1251	4700P	C1331	560P	C1425	100P	C2698	0.1U		
C1233 0.010 C1333 82P C1427 0.010	C1252	1000P	C1332	1000P	C1420	27P	C2699	0.10		
C1234 0.010 C1334 62P C1301 100 C1255 0.010 C1335 7P C1502 10	C1253	0.01U	C1333	82P	C1427	1011				
C1255 0.00P C1336 0.01U C1506 2.2U C1256 1000P C1337 100P C1507 1U	C1255	0.01U	C1334	02F 7D	C1501	100				
C1250 10001 C1350 0.010 C.200 2.20 C1257 22P C1337 100P C1507 1U	C1256	1000P	C1333	0.011	C1502	2.911				
C1257 22P C1338 100P C1507 100P C1259 22P C1338 100P C1508 100P C1260 0.1U C1339 56P	C1257	22D	C1330	100P	C1507	1II				
C1260 0.1U C1339 56P	C1250	~~1 99D	C1337	100P	C1502	100P				
C1200 C1300 C1300 S00 C1261 1000P C1340 2P C1262 1000P C1341 100P C1263 0.01U C1342 1000P C1264 100P C1343 1000P C1265 0.01U C1344 15P C1266 0.1U C1345 15P C1267 0.01U C1348 15P C1270 0.1U C1348 15P C1271 100P C1350 15P C1273 1000P C1351 0.01U C1275 1000P C1352 12P C1276 1000P C1353 4.7U C1277 1000P C1353 4.7U	C1260	0.1U	C1330	56P	01300	1001				
C1261 1000P C1341 100P C1262 1000P C1341 100P C1263 0.01U C1342 1000P C1264 100P C1343 1000P C1265 0.01U C1344 15P C1266 0.1U C1345 15P C1267 0.01U C1346 6P C1270 0.1U C1348 15P C1271 100P C1350 15P C1273 1000P C1351 0.01U C1275 1000P C1352 12P C1276 1000P C1353 4.7U C1277 1000P C1357 3P	C1261	1000P	C13/0	9P						
C1263 0.01U C1342 1000P C1264 100P C1343 1000P C1265 0.01U C1344 15P C1266 0.1U C1345 15P C1267 0.01U C1346 6P C1270 0.1U C1348 15P C1271 100P C1350 15P C1273 1000P C1351 0.01U C1275 1000P C1352 12P C1276 1000P C1353 4.7U C1277 1000P C1357 3P	C1262	1000P	C1340	100P						
C1263 100P C1343 1000P C1264 100P C1343 1000P C1265 0.01U C1344 15P	C1263	0.01U	C1342	1000P						
C1265 0.01U C1344 15P C1265 0.1U C1345 15P C1267 0.01U C1345 15P C1267 0.01U C1346 6P C1270 0.1U C1348 15P C1271 100P C1350 15P C1273 1000P C1351 0.01U C1275 1000P C1352 12P C1276 1000P C1353 4.7U C1277 1000P C1357 3P	C1264	100P	C1343	1000P						
C1266 0.1U C1345 15P C1267 0.01U C1346 6P C1270 0.1U C1348 15P C1271 100P C1350 15P C1273 1000P C1351 0.01U C1275 1000P C1352 12P C1276 1000P C1353 4.7U C1277 1000P C1357 3P	C1265	0.01U	C1344	15P						
C1267 0.01U C1346 6P C1270 0.1U C1348 15P C1271 100P C1350 15P C1273 1000P C1351 0.01U C1275 1000P C1352 12P C1276 1000P C1353 4.7U C1277 1000P C1357 3P	C1266	0.1U	C1345	15P			1			
C1270 0.1U C1348 15P C1271 100P C1350 15P C1273 1000P C1351 0.01U C1275 1000P C1352 12P C1276 1000P C1353 4.7U C1277 1000P C1357 3P	C1267	0.01U	C1346	6P			1			
C1271 100P C1350 15P C1273 1000P C1351 0.01U C1275 1000P C1352 12P C1276 1000P C1353 4.7U C1277 1000P C1357 3P	C1270	0.1U	C1348	15P						
C1273 1000P C1351 0.01U C1275 1000P C1352 12P C1276 1000P C1353 4.7U C1277 1000P C1357 3P	C1271	100P	C1350	15P						
C1275 1000P C1352 12P C1276 1000P C1353 4.7U C1277 1000P C1357 3P	C1273	1000P	C1351	0.01U						
C1276 1000P C1353 4.7U C1277 1000P C1357 3P	C1275	1000P	C1352	12P						
C1277 1000P C1357 3P	C1276	1000P	C1353	4.7U						
	C1277	1000P	C1357	3P						

PCS/AMPS-Mode RF Block/Parts List

MODEL NO. SCP-6200

FCC USE ONIY

Ref NO.	Description	Ref NO.	Description	Ref NO.	Description	Ref NO.	Description	Ref NO.	Description
R1101	0	R1350	22	R2396	10				
R1103	0	R1352	0	R2397	10				
R1107	0	R1360	47k	R2398	1k				
R1206	10k	R1401	680	R2683	100k				
R1207	10k	R1402	15k	R2684	150				
R1208	10k	R1403	47k	R2685	150				
R1209	47	R1409	27	R2688	1k				
R1210	100	R1410	0	R2689	330k				
R1211	10k	R1411	10k	R2692	150				
R1212	10k	R1412	0	R2693	68				
R1217	10k	R1413	1.8k	R2694	150				
R1219	10k	R1414	0	R2695	68				
R1220	13k	R1415	1k	R2696	150				
R1221	6.8k	R1416	1k	R2697	68				
R1222	1k	R1417	51	R2698	150				
R1223	3.3	R1418	1k	R2699	330				
R1224	3.3	R1419	1k	RB121	1kX4				
R1225	1k	R1420	1k	RB122	1kX4				
R1226	10K	K1425	10	1H161	68K				
R1227	10k	K1510	U 1.01-						
K1228	1UK	K1601	1 ðK			┨────┤		┨────┤	
R1229	4.7K	R1602	овк						
R1230	10								
R1233	8.2K								
R1234	100								
R1245 D1947	22 971	-		-					
D1247	2.7K	-		-					
R1240	5 1k								
R1249	15k								
R1250	6.8k	-		-					
R1251	10	-		-					
R1260	0								
R1290	56	-		-					
R1301	1k	-		-					
R1302	1k								
R1303	0								
R1304	47	-		-					
R1305	10k	-		-					
R1306	0								
R1307	12k								
R1308	3.6k								
R1309	10k								
R1310	10k								
R1311	10k								
R1314	100								
R1315	1.5k								
R1316	1k								
R1321	56								
R1323	270								
R1324	0								
R1325	120								
R1329	1K								
R1330	1.8k								
R1331	1UK								
R1332	50K								
K1333	50								
K1335	U								

PCS/AMPS-Mode RF Block/Parts List

MODEL NO. SCP-6200

FCC USE ONIY

Ref NO.	Description	Ref NO.	Description	Ref NO.	Description	Ref NO.	Description	Ref NO.	Description
L1100	3.3n	L2396	220n	-					
L1102	8.2n	L2397	220n						
L1103	3.9n	L2398	220n	-					
L1105	18n	L2399	220n						
L1108	1.8n								
L1109	12n								
L1202	10n								
L1203	82n								
L1205	1n								
L1207	1.5n								
L1208	4.7n								
L1209	22n								
L1210	3.3n								
L1212	5.6n								
L1213	120n								
L1214	43n								
L1215	43n								
L1216	270n	-							
L1217	68n	-							
L1218	270n								
L1219	47n	-							
L1220	12n								
L1221	12n	-							
L1222	56n	-							
L1223	30N								
L1224	1.3fl								
L1220	2/11 220m								
L1201	22011 27p								
L1301 L1202	2711 27n	-		-					
L1302 L1302	$\frac{2711}{4.7n}$								
L1303	4.711 4.7n								
L1305	10n	-		-					
L1306	27n								
L1307	8.2n								
L1308	12n	-							
L1309	8.2n	-		-					
L1310	4.7n	-		-					
L1311	1.5n								
L1312	15n								
L1313	2.2n								
L1316	4.7n	-		-					
L1318	5.6n								
L1320	600 Ohm								
L1321	600 Ohm								
L1322	600 Ohm								
L1330	5.6n								
L1331	39n								
L1332	22n								
L1334	3.9n								
L1336	1n								

FCC TEST MODE OPERATION MANUAL

[FCC TEST Start Up]

1): Push the "POWER" Key.

(LCD Display)

=== START SCREEN ===

*** Un-decision ***

2): It transits to "Test_Mode".

Push the "menu" Key and Push the "Left" Key.

(LCD Display)



3): Push the "2" Key, then entered the FCC TEST Mode.





[PCS Inspection Mode] [AMPS Inspection Mode]

When the above screen, push either the " 🚽 (left)" Key or the " 🕨 (right)" Key.

Push the " ▶ (right)" Key, then switched AMPS Mode (Displayed the Initial Screen of AMPS Mode) (The Initial Screen of AMPS Mode is RX setting screen; See Page 3)

[AMPS Mode]

1) RX Mode (Receiving only)

(LCD Display) FCC AMPS RX MODE CHANNEL RVPATH

MODE	: " RX "
CHANNEL	: "CH: Current Channel Number"
RV PATH	: "Dis or Ena"
	(Dis =Disable Receiving voice path)
	(Ena =Enable Receiving voice path)

2) RX and TX mode

1) Push "TALK" Key. (LCD Display)

· · · · · · · · · · · · · · · · · · ·	
FCC AMPS	TX
MODE	
CHANNEL	RV PATH
COMPRESS	OR
POWER	VOICE PATH

MODE	: "TX"
CHANNEL	: "CH: Current Channel Number"
COMPRESSOR	: "Comp : ON" or "Comp : OFF"

POWER	: "Tx Pwr : Number of 0 to 7"
	The target Tx power is as followers .
	0 = 1 = 2 = 24.3 dBm
	3 = 23.0 dBm
	$4 = 19.0 \ \mathbf{dBm}$
	5 = 15.0 dBm
	6 = 11.0 dBm
	7 = 7.0 dBm
RV PATH	: "Dis or Ena"
	(Dis =Disable Receiving voice path)
	(Ena =Enable Receiving voice path)
VOICE PATH	: "FREE, HAND or HEAD"

3) RX Mode (default)



1) Setting the channel

Push the " * " Key.

(Sequentially switched " $383 \rightarrow 799 \rightarrow 991$ ")

2) Switch the mod. (RX mode to RX/TX Mode)

Push the "TALK" Key. (Switched to RX/TX Mode)

<RX Mode Parameter>

TX/RX Voice Pat	h : Dis	TX : OFF
Mic	: OFF	RX : ON
Speaker : OFF		ANT : Inner Antenna active

4) RX / TX Mode



1) Setting the Channel

Push the "*" Key

(Sequentially switched " $383 \rightarrow 799 \rightarrow 991$ ")

Note : If displayed TX : SAT+DTMF, can not set the Channel.

Please change another modulation. (See next section)

2) Setting the Modulation

Push the " **(**Up) " Key

(Sequentially switched "No Modula \rightarrow VOICE \rightarrow WBD \rightarrow SAT \rightarrow

 $ST \rightarrow SAT+VOICE \rightarrow SAT+ST \rightarrow SAT+DTMF$)

No Modula	: No Modulation
VOICE	: Mic ON, that is, activated Audio path.
WBD	: Activated Wide Band Data
SAT	: Output SAT
ST	: Output ST
SAT+VOICE	: Mic. ON, modulation signal is Voice added SAT
SAT+ST	: the modulation signal is SAT added ST.
SAT+DTMF	: the modulation signal is SAT added DTMF.

3) Setting the compressor

Push the "3" Key	: Compressor ON (displayed "Comp : ON")
Push the " CLR " Key	: Compressor OFF (displayed "Comp: OFF")

Note: When set the SAT+DTMF Mode, then can not to set the compresor.

4) Setting the transmission power level.

Displayed the transmission level No, that is, 0 to 7. Push the "**4**" Key. (Up the transmission level, decrement a number) Push the "**6**" Key. (Down the transmission level, increment a number) Note: When set the **SAT+DTMF** Mode, then can not to set the **power level**.

5) Switch the Mode. (TX Mode \rightarrow RX Mode)

Push the "END" Key.

Note: When set the **SAT+DTMF** Mode, then can not to switch the **RX Mode**.

6) Setting the Voice path

Push the "1" Key. (Enable the receiving voice path)Push the "2" Key. (Disable the receiving voice path)Note: When set the SAT+DTMF Mode, then can not to set the receiving voice path.

7) Change the CODEC path.

Push the "#" Key. (Sequentially switched " FREE → HAND → HEAD ") Note: Except VOICE and SAT+VOICE modes, can not change the voice path. FREE: External I/F active HAND: Internal Mic active HEAD: Ear/Mic active

When input the voice signal, let you set the "FREE" and use the External I/F.

8) Quit.

Push the "END" Key. (TX Mode → RX Mode)
Push the "END" Key. (Exit FCC AMPS Test Mode.)
(Display change the initial Screen, see page 2)

Push the "**END**" Key . (Exit FCC Test Mode.) (Display change the initial Screen, see page 1)

[PCS Mode]

1) Tx, TRx and Rx Mode

(Tx mode)



(Tx/Rx mode)



(Rx Mode)



PCS Initial screen is Tx mode.

1) Mode switch

Push the **"#"** Key. (Sequentially switched "**Tx** mode → **TRx** mode → **Rx** mode ")

2) Channel Number setting

Push the " * " Key. (Sequentially switched " $\mathbf{25} \rightarrow \mathbf{600} \rightarrow \mathbf{1175}$ ")

3) Quit

Push the "**END**" Key . (Exit FCC PCS Test Mode.) (Display change the initial Screen, see page 2)

Push the "END" Key . (Exit FCC Test Mode.) (Display change the initial Screen, see page 1)

AEZSCP-62H



SCP-6200 Adjustment Discription for Mass production.

1-163-417-00	SCP-6200/H.US

Eng. Section	Personal Telecommunication Division Technical Engineering Department RF Group
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No.	Contents
1	Set-Up for Tune-Up and Adjustment of Transmitter
2	Alignment Procedure
3	Adjust Value
4	Measurement Specification of Adjustment

Controller PC-OUT/POWER-SUPPLY Personal Computer **DC-POWER** SUPPLY RF Cable GPIB Control HP8924 0 CDMA Mobile Station Test Set *HP8924 Must need to Calibrate before Adjustment. 1. Power on and Setup to Config Menu(Shift + Test Key). 2. Setup to Service Menu and Change to "TEMP_SENSE" of Voltmeter Connection . 3. After 30 minutes, Check for TEMP_SENSE Meter Stabilization or 0.5V(=50 degreeC). . 4. Setup to RF chan std is "US PCS" and Alt pwr ms cal band is "MS AMPS" . SCP-6200 Handset 5. Change to CDMA Scrns and Change AVG Power mode to Chan Power mode. ←Shield Box 6. Start Calibration(About 3 minutes : Transmitter tester calibration). 7. Next, Return to Config Menu and Start Rfgen Lvl Calibration (few Seconds).

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

2 Alignment Procedure





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3.Adjustment Value 1.AMPS Adjustment

ITEM	Sub-ITEM	Handset Setup(Internal Setup)	HP8924 Setup	Adj. Value	Accuracy of NV-Value
Tx-Power Adjustment	PL=0,1,2	<u>Normal Test Mode</u>	AMPS Mode	+24.3dBm	
	PL=3	Tx AGC SET : 3-2-3-2	Txpower :dBm Mode	+23.0dBm	
	PL=4			+19.0dBm	
	PL=5			+15.0dBm	
	PL=6			+11.0dBm	
	PL=7			+ 7.0dBm	
x-Power Frequency	Bk 0=1017ch	FCC Test Mode	PL=0	+23.8dBm	
Adjustment	Bk 1=46ch			+23.8dBm	
U U	Bk 2=98ch			+23.8dBm	
	Bk 3=150ch			+24.1dBm	
	Bk 4=202ch			+24.1dBm	
	Bk 5=254ch			+24.1dBm	
	Bk 6=306ch			+24.1dBm	
	Bk 7=358ch			+24.1dBm	
	Bk 8=410ch			+24.1dBm	
	Bk 9=462ch			+24.1dBm	
	Bk10=514ch			+24.1dBm	
	Bk11=566ch			+24.1dBm	
	Bk12=618ch			+24.1dBm	
	Bk13=670ch			+24.0dBm	
	Bk14=722ch			+24.0dBm	
	Bk15=774ch			+24.0dBm	
requency Sensibility		FCC Test Mode : AMPS	AF ANL Mode	7.7KHz dev.	dev. 7.7kHz±0.1kHz
Adjustment		Tx : ST,CH : 358	Detector : Pk±Max		*
			DE-EMPH:750us		NV_FM_FREQ_SENSE_GAIN_I
			Fil1:>300Hz,Fil2:<15kHz pass		
SSI Adjustment	-60dBm In	FCC TEST Mode	-60dBm RFinput	-60dBm :	NV_FM_RSSI_I
U U	-113dBm In	RSSI=Filter*116+AgcRSSI*47	-113dBm RFinput	BAR4	
			-	BAR1	

ĪŤEM	Sub-ITEM	Handset Setup(Internal Setup)	HP8924 Setup	Adj. Value	Accuracy of NV-Value
Rx-RASRAM	Table 1	Normal Mode	CDMA Ch=563 :SG LV=-106.0dBm	-106.0dBm	<i>.</i>
Adjustment	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	
X AGC Frequency	Bk 0=38ch	Normal Mode	<u>RF INPUT(SG) LV=-63.5dBm</u>	AGC DIFF.	
Adjustment	Bk 1=113ch	Reference ch :1163ch	Change to Channel 16 Time.	AGC DIFF.	
	Bk 2=188ch	Deference of Center ch AGCsym.		AGC DIFF.	
	Bk 3=263ch	Change to Channel 16 Time.		AGC DIFF.	
	Bk 4=338ch	OFF Line Mode		AGC DIFF.	
	Bk 5=413ch			AGC DIFF.	
	Bk 6=488ch			AGC DIFF.	
	Bk 7=563ch			AGC DIFF.	
	Bk 8=638ch			AGC DIFF.	
	Bk 9=713ch			AGC DIFF.	
	Bk10=788ch			AGC DIFF.	
	Bk11=863ch			AGC DIFF.	
	Bk12=938ch			AGC DIFF.	
	Bk13=1013ch			AGC DIFF.	
	Bk14=1088ch			AGC DIFF.	
	Bk15=1163ch			REF CH.	

3.PCS TX & TX-LIMIT Adjus	stment				
ITEM	Sub-ITEM	Handset Setup(Internal Setup)	HP8924 Setup	Adj. Value	Accuracy of NV-Value
Tx-RASRAM -		<u>Nomal Test Mode</u>	PCS Ch=1163ch	+22.2dBm	
Adjustment			SG level is ccording to the transmission	-50.0dBm	
			power level of MS		
Adjusted by					
Low Power Mode &					
High Power Mode					
0					
&		TOTAL:36Parametor			
		Symbol			
		-50.0dBm +22.2dBm			
Tx-Limit 🔶	Table 1		PCS Ch=1163ch	+8.75dBm	
Adjustment	Table 2			+10.1dBm	
	Table 3			+11.4dBm	
*Only for	Table 4			+12.7dBm	
High Power Mode	Table 5			+14.1dBm	
0	Table 6			+15.4dBm	
	Table 7			+16.7dBm	
	Table 8			+18.1dBm	
	Table 9			+19.4dBm	
	Table 10			+20.7dBm	
	Table 11			+22.1dBm	
	Table 12			+22.2dBm	
	Table 13			+22.2dBm	
	Table 14			+22.2dBm	
	Table 15			+22.2dBm	
	Table 16			+22.2dBm	
	OFFSET	Offset : 16.7dB(Table 7)		+16.7dBm	
	SPN	Spn : 22.2dBm(Table 14)		+22.2dBm	

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.Tx AGC Frequency Adju	stment and Tx Lin	nit Frequency Adjustment.			
TX AGC Frequency		Nomal Test Mode	RF INPUT(SG) LV=Low:-63.5dBm		
Adjustment		Reference ch :1163ch	High:-92.0dBm		
		Difference of Center ch AGCsym.	Change to Channel 16 Time.		
Adjusted by		Change to Channel 16 Time.			
Low Power Mode &	BK 0~14 *1				
High Power Mode	(ch)	note: 12Symb=1.0dBm		Tx-Pow diff.	
		Supplementary value:Difference of T	Supplementary value:Difference of TX-power change to symb.		
	Rk15-1163ch				
HDET Frequency	BRIJ-110JUI	Nomal Test Mode	RF INPUT(SG) LV=HDET:-92dBm		
Adjustment		Reference ch :1163ch	Change to Channel 16 Time.		
		Difference of Center ch AGCsvm.			
		Change to Channel 16 Time.			
	BK 0~14 *1	8			
	(ch)	HDET: difference of HDET		Tx-Pow diff.	HDET diff.
	~ /	Difference of HDET			
	Bk15=1163ch				
TX Limit Frequency		Nomal Test Mode	<u>RF INPUT(SG) LV=-92.0dBm</u>		
Adjustment		Reference ch : 1163ch	Change to Channel 16 Time.		
		Difference of Center ch AGCsym.			
		Change to Channel 16 Time.		*0	
	BK 0~14 *1	Note: convert the difference to AGC value		*Z	
	(ch)	Supplementary value: Difference of F	IDET value change to AGC		
				—	
				—— [
	Bk15=1175ch			*3	