## Exhibit 10

# FUNCTION OF ACTIVE CIRCUIT DEVICES

2.1033 (c) (10)

Schematic Designation

**Function** 

Interface Board Unit : SPD-2000 I/F P/B Schematic Diagram

CR1-CR14 Z1 Light Emission LCD Module

<u>Main Board Unit : LOGIC</u> <u>SPD-2000 Main Logic Block Schematic Diagram</u>

CR500,CR706-CR709,CR810-CR81,CR900-CR902 CR702-CR705 R700,CR701 Q700 Q500,Q501,Q701-Q705,Q900,Q901,Q902,Q903,Q904 U500

U501,U503,U705 U502 U600 U601 U700 U701 U702 U703 U704 U900,U902,U904 Protection Switching diode Schottky Barrier diode Buffer Switch Digitizing, Voice CODEC and Digital to Analogue conversions OP Amp Audio Power Amplifier DSP SRAM CPU Flash ROM **SRAM EEPROM** SERIAL No. ROM Regulator

## FUNCTION OF ACTIVE CIRCUIT DEVICES

2.1033 (c) (10) (continued)

Main Board Unit : RADIO SPD-2000 Main Radio Block Schematic Diagram

CR101,CR103,CR104,CR203 CR201 CR202 Q101-Q104,U202 Q201,Q207 Q105,Q202-Q206,Q301,Q302 U102,U304,U306 U101 U201 U203 U205,U206,U207 U301 U305 U307 Z302 Z303-Z305

Protection Attenuator Switching diode **RF** Amplifier DC Amplifier Switch Switch IF Amplifier and Mixer PA Module (RF Power Amplifier) **QPSK Modulation IC** Regulator IC OP Amp Synthesizer IC Inverter Switch and Filter Oscillator

#### ALIGNMENT PROCEDURE

### 2.1033 C (9)

 1. Test Equipment
 Service Monitor
 (HP8920B or equivalent)

 DC Power Supply
 (7.5 Volts at 3A)

 IBM Personal Computer
 (or compatible equivalent)

 Programming Interface
 (TQ3370)

 Serial Interface Cable
 SPD Radio Programming Software

 SPD Programming Cable
 (\_\_\_\_\_\_)

 BNC-BNC Cable
 DC Power Cable with Dummy Battery

2. Initial setup

a. Attach DC Power Cable with Dummy Battery to Radio and DC Power supply.

b. Attach Serial Interface Cable to Programming Interface and personal Computer.c. Attach Programming Cable to Radio and Programming Interface.

d. Attach RF coaxial cable (50 ohms) between antenna connector and service monitor (RF port). e. Attach BNC-BNC Cable between Programming Interface and Service Monitor.

(from RX AUDIO to AUDIO INPUT HI and from TX AUDIO to AUDIO OUTPUT)

f. Set DC Power Supply to 7.5 Volts dc.

g. Apply power to Radio, and turn radio on/off switch to on position.

h. Execute SPD Radio Programming Software.

#### ALIGNMENT PROCEDURE

2.1033 C	(9) (continued)		
3. TX fre	quency Adjustment a. Enter Test Mode b. Set TX frequency c. Key transmitter d. Adjust TX frequency	cmd 0 cmd 70 (frequency) cmd 74 1 cmd 8 (value)	(ex.) set to 806MHz cmd 70 806000000 (Key : cmd 74 1 , Unkey : cmd 74 0 ) value : 0-1023
4. TX po	wer Adjustment a. Enter Test Mode b. Set TX frequency c. Key transmitter d. Set TX power level	cmd 0 cmd 70 (frequency) cmd 74 1 cmd 71 x1 x2 x3	x1:power level setting (0=0.5W, 1=1W, 2=3W) x2:Tx band (0= 806-825 MHz, 1= 851-870 MHz) x3:frequency band location (0=low, 1=mid, 2=high)
5. Tx mo	odulation a. Enter Test Mode b. Set TX frequency c. Key transmitter d. Unmute Microphone e. Enable external mic f. Adjust the input level until g. Otherwise, when radio tran	cmd 0 cmd 70 (frequency) cmd 74 1 cmd 75 1 cmd 5 1 it becomes the modu smit v.52 data	(Unmute : cmd 75 1 , Mute : cmd 75 0) lation to expect. cmd 76
6. RX fre	quency Adjustment a. Enter Test Mode b. Set RX frequency	cmd 0 cmd 50 (frequency)	(ex.) set to 851MHz cmd 70 851000000