

Prepared (also subject responsible if other) Com-Net Ericsson EUSIAIRLC Bryan McWatters		FCC ID No.OWDTR-0007-E Exhibit 10		
Approved EUSIAIRLC Bryan McWatters	Checked	Date 10-18-2000	Rev A	Reference

FUNCTION OF ACTIVE CIRCUIT DEVICES

2.1033 (c) (10)

Schematic Designation

Function

Interface Board Unit : J700P I/F P/B Schematic Diagram

CR1-CR14
Z1

Light Emission
LCD Module

Main Board Unit : LOGIC

J700P Main Logic Block Schematic Diagram

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 Dig-
ital to Analogue conversions
OP Amp
Audio Power Amplifier
DSP
SRAM
CPU
Flash ROM
SRAM
EEPROM
SERIAL No. ROM
Regulator

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FUNCTION OF ACTIVE CIRCUIT DEVICES**2.1033 (c) (10)**Main Board Unit : RADIOJ700P Main Radio Block Schematic DiagramCR101,CR103,CR104Q101-Q104,U202Q201,Q207Q202-Q206,Q210,Q301,Q302U204,U208,U304,U306U101U201U203U205,U206,U207U301U305U307Z302Z303-Z305ProtectionRF AmplifierDC AmplifierSwitchSwitchIF Amplifier and MixerPA Module (RF Power Amplifier)QPSK Modulation ICRegulator ICOP AmpSynthesizer ICInverterSwitch and FilterOscillator

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ALIGNMENT PROCEDURE**2.1033 C (9)** (continued)

1. Test Equipment

Service Monitor	(HP8920B or equivalent)
DC Voltmeter	(Input Impedance > 1Megohm)
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. DC Power Supply to 7.5 Volts dc.
- g. Turn radio on/off switch to on position.
- h. Execute SPD Radio Programming Software.

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ALIGNMENT PROCEDURE

2.1033 C (9) (continued)

3. TX power and frequency set

- a. Enter Test Modecmd 0
- b. Set TX frequencycmd 70 xxxxxxxxxxxx
ex.) cmd 70 896000000 set to 896MHz
- c. Select TX power level cmd 71 x x x
ex.) cmd 71 2 0 2 set to 2W,nomal mode, high band
- d. TX key-up cmd 74 1

Channel	RX Frequency	TX Frequency	CTCSS /CDCSS	Wide /Narrow	TX Power
CH1	935.0125	896.0125		N	H
CH2	936.5000	897.5000		N	L
CH3	938.0000	899.0000	156.7	N	H
CH4	939.5000	900.5000		N	L
CH5	940.9875	901.9875	023	N	H
CH6	935.0125	935.0125		N	H
CH7	936.5000	936.5000	156.7	N	L
CH8	938.0000	938.0000		N	H
CH9	939.5000	939.5000	023	N	L
CH10	940.9875	940.9875		N	H
CH11	935.0125	935.0125		N	H
CH12	940.9875	940.9875		N	H
CH13					
CH14					
CH15					
CH16					

Figure 1 Conventional test channel