Test Specification RBSIII

Equipment required:

Oscilloscope, ESPIII, RF Tester (Motorola Service Monitor or Equivalent Device)

PROCEDURE:

1. Attach coaxial cable between radio's antenna jack and service monitor 'RF I/O'.
2. Set service monitor to frequency of radio under test and attenuation to 40dB..
3. Connect a network cable from the RJ-5 connector on the RLAN board to a Remanco Network..
4. Turn on the power to the RBS and program the radio using the "TOESP" program.
5. Depress the 'TEST' button (farthest from the antenna) 5 times to get to the TRANSMIT 1,0,1,0 Mode.
6. Check to achieve a frequency error of less than ±500 Hz.
7. Depress 'TEST' button one more time (test 6) to enter Receive Mode.
8. Set service monitor frequency to <u>52.95</u> MHz above radio frequency under test and attenuation to 0dB.
9. Move coaxial cable to 'Ant. In' connector and change monitor setting to 'Ant In'.
10. Verify a frequency error of less than ±500 Hz.
11. Disconnect the coaxial cable from the RBSIII.
12. Start ESPIII of the same frequency transmitting 1,0,1,0's. (#2 Key in TEST mode)
13. Adjust R11 to mid range (7 turns from either end.
14. Place RBS in ECHO Mode (test #1).
15. Depress the 'SEND' key or cycle power to ESP and verify a "1" appears on the display.
16. Depress '*' key to enter "ALPHA" Mode.
17. Verify Alphabetic keys echo to the display from a distance of at least 15 Feet.
18. Reset RBS.
19. Power Unit up and verify that it has been recognized by the system.
20. Verify that you can access the Vision system (open checks, order items, etc.).

Test Mode (Right Push Button)

Mode	Pushes	Function	Comments
0	0	Normal	Will operate normally
1	1	ECHO Mode	Will echo characters sent from ESPIII
2	2	Performance Mode	Determines RF performance with ESPIII
3	3	Transmit Low	Transmits a continuous "0"
4	4	Transmit High	Transmits a continuous "1"
5	5	Transmit High, Low...	Transmits continuously "1,0,1,0..."
6	6	Receive	Continuously in the Receive mode