

SERVICE BULLETIN

| | |
|-------------------------|-----------------|
| BULLETIN NUMBER: | SB-0053 |
| REVISION: | 1-0-0 |
| DATE: | FEB 2011 |

| | |
|-----------------------------|--|
| PRODUCT DESCRIPTION: | MT-3 Crystal Operation for SR-39-1 with v7 Motherboard |
|-----------------------------|--|

| | |
|----------------------------|---------|
| DE REFERENCE / ECO: | CO 6636 |
|----------------------------|---------|

| | |
|---------------------------|--|
| PRODUCTS AFFECTED: | Model Number: SR-39-1 (PCB 50016 Version 7 and newer) |
|---------------------------|--|

PROBLEM: Daniels has discovered that the MT-3 crystal radios are not compatible with subracks using motherboard PCB 50016 Version 07 and newer. For mainboard ID location, see Figure 1.

When a crystal module is installed in a subrack containing the Version 7 motherboard, the RF frequency offset of the radio can be pulled off by 5 kHz and 10 kHz. This is because there is a pull-up resistor on the D28 and D30 lines that Daniels needed to add during the subrack redesign to allow for proper operation of the AM receivers and transmitters front panel handle display.

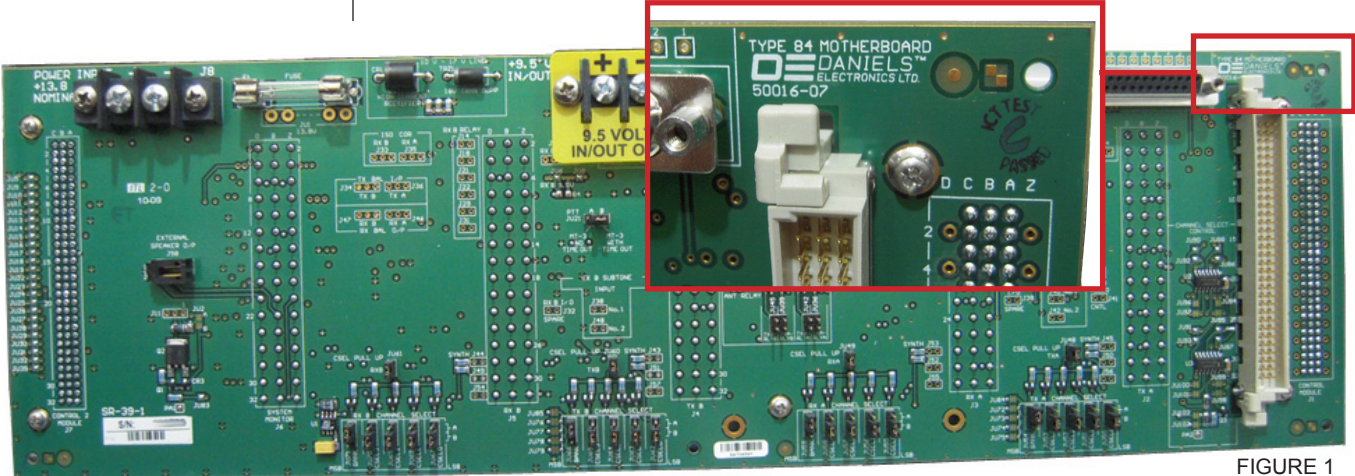


FIGURE 1

SERVICE BULLETIN

SOLUTION: In order to make the crystal units work in the new subracks, the following resistors must be removed from the motherboard (for illustrations, see Figure 2):

For RXA MT-3 Crystal Operation: R9, R10

R9

WAS 1150-5B1003FP RES., SM, 100K 1206, 1%,100ppm KOA RK73H2BTDD1003F
NOW Not Installed

R10

WAS 1150-5B1003FP RES., SM, 100K 1206, 1%,100ppm KOA RK73H2BTDD1003F
NOW Not Installed

For TXA MT-3 Crystal Operation: R6, R11

R6

WAS 1150-5B1003FP RES., SM, 100K 1206, 1%,100ppm KOA RK73H2BTDD1003F
NOW Not Installed

R11

WAS 1150-5B1003FP RES., SM, 100K 1206, 1%,100ppm KOA RK73H2BTDD1003F
NOW Not Installed

For RXB MT-3 Crystal Operation: R5, R8

R5

WAS 1150-5B1003FP RES., SM, 100K 1206, 1%,100ppm KOA RK73H2BTDD1003F
NOW Not Installed

R8

WAS 1150-5B1003FP RES., SM, 100K 1206, 1%,100ppm KOA RK73H2BTDD1003F
NOW Not Installed

For TXB MT-3 Crystal Operation: R7, R12

R7

WAS 1150-5B1003FP RES., SM, 100K 1206, 1%,100ppm KOA RK73H2BTDD1003F
NOW Not Installed

R12

WAS 1150-5B1003FP RES., SM, 100K 1206, 1%,100ppm KOA RK73H2BTDD1003F
NOW Not Installed

NOTE: Once these resistors have been removed, the subrack motherboard will no longer allow operation of the AM front panel handle displays.
Removing these resistors will not effect MT-4E operation.

SERVICE BULLETIN

This Page Intentionally Left Blank

RETURN REQUESTS: To obtain an RMA number and shipping instructions, please contact the service department at 1-800-664-4066 or service@danelec.com

REVISION HISTORY:

| Rev | Date | Description |
|------------|--------------|--------------------|
| 1-0-0 | Feb 15, 2011 | First Release |