

Product Information

Bulletin



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SUBJECT: Safetran Base Control Module (BCM), 53408

NO: 4-02

CONCERN: Improved Reliability of RSSI Function to Prevent A-to-D Converter Lockup

DATE: 1-24-03

I. BACKGROUND

Early versions of Safetran’s Base Control Module (BCM), part number 53408, showed a tendency for the A-to-D converter circuitry to lock up and disable the receive signal strength indication (RSSI) function. This problem was corrected by a minor hardware update and a software change on the 53409 module contained in the 53408.

Updated hardware is identified by revision B7 or later on the sub-assembly label located at the back of the BCM case (see figure 1). Updated hardware **MUST** have software version 406W or later installed to correct the problem.

If hardware is revision B6 or earlier, return it to Safetran for update to the current revision. Safetran will update units returned within 2 years from the date of this bulletin without charge. Units returned after the 2-year period will incur a nominal repair charge.

This bulletin applies only to hardware updated to revision B7 and later.

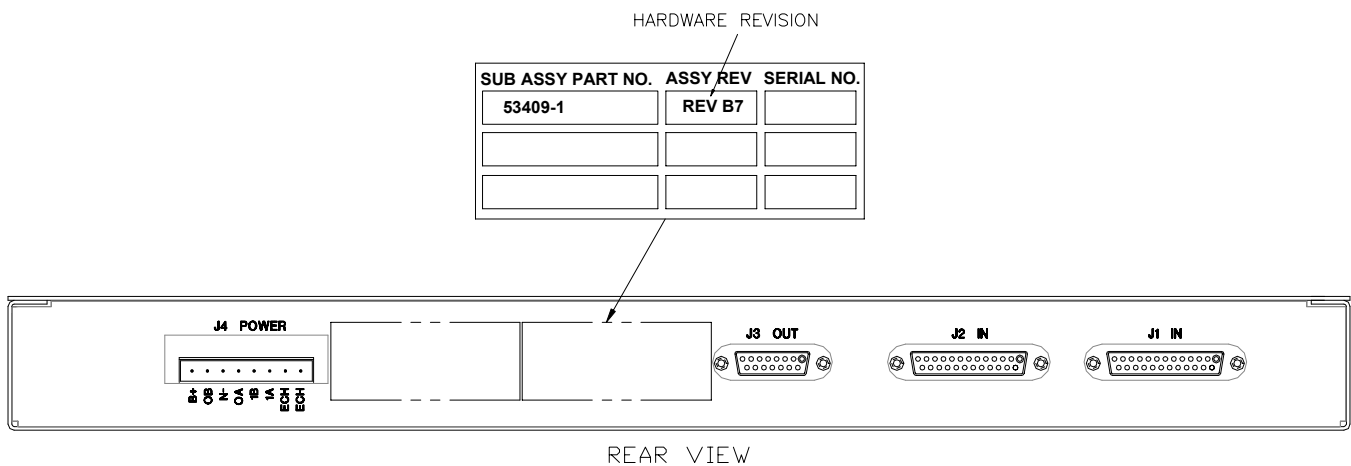


Figure 1. Hardware Revision Identification

II. SOFTWARE IDENTIFICATION

To determine the software version currently installed in the BCM, use the front-panel Select and Enter push buttons as follows:

1. Press Select. The Site Edit menu is displayed.
2. Press Select. The RF Edit menu is displayed.
3. Press Select. Port J1 is displayed.
4. Press Select. Port J2 is displayed.
5. Press Select. Port DC is displayed.
6. Press Select. The Diagnostic menu is displayed.
7. Press ENTER. The ATCS address is displayed.
8. Press Select. The GC: status (null) is displayed.
9. Press Select. The current BCM software version is displayed.

NOTE

If version 406W or later is currently installed, do not proceed.
The unit is already updated.

III. SOFTWARE INSTALLATION INSTRUCTIONS

New versions of the executive program are distributed as BCMxxx.y.BIN, where xxx is the major version number and y is the minor revision letter.

To load the new executive program, proceed as follows:

1. Connect the COMM port of a laptop PC to the 53408 front-panel DIAGNOSTICS port.
2. Install the BCM406W.BIN file in the configuration directory containing the C53105.EXE program.
3. Run the C53105.EXE program. The Main Editor Screen is displayed.

NOTE

If any error messages are encountered type <ESC> to bypass these messages. The error banners are simply to alert the user that the CRC (cyclic redundancy check) of the new codeplug is different from the existing codeplug. This feature is used to prevent accidentally loading codeplug configurations.

4. Hold down the **ALT** key and type **O**. The **Online** drop-down menu is displayed.

5. Select **Terminal** from the drop-down menu. The Online Terminal Screen is displayed.
6. Press the **ENTER** key. Verify that the “*” prompt is displayed.
7. Type **TEST**. **TEST** appears on the screen to the right of the *.
8. Press the **ENTER** key. The BCM reboots.
9. As the BCM reboots, but before the start of the BCM test sequence, hold down the **CTRL** and **A** keys until **SCC3 Debug>** is displayed on the screen.

In most cases, one or more happy face icons will appear following **SCC3 Debug>** as shown below:

```
*TEST

Safetran 68302 Debugger Version 1.8

SCC3 debug> ☺☺☺☺
```

10. Press the **ENTER** key. Disregard the following statement if it appears:

```
?Invalid command -- type '?' for help
SCC3 debug>
```

11. Type **W**, then press the **ENTER** key.

The watch-dog timer is disabled and the following statement is added to the display:

```
SCC3 debug> W
*** WATCHDOG kick enabled ***
SCC3 debug>
```

NOTE

“W” must be typed and **ENTER** pressed within 15 seconds or the BCM will reboot.

12. Type **GF4**, then press the **ENTER** key.

The following statement is added to the display:

```
SCC3 debug> GF4
Booting from serial port
```

The following prompt is displayed:

Enter Filename

*.bin

18. Type **Y** to reprogram the Flash. The following message is added to the display:

```
Program the Flash (Y/N) ?Y
Erasing Flash memory...
Writing Flash memory...
Flash programming completed
```

19. When the BCM reboots, verify that the correct software version number is displayed on the PC screen.

20. The software installation is now complete.