Date: **September 11, 2000**

Subject: **FIRMWARE UPGRADE—VERSION 2.04**

Model: **BKS-R1607, BKS-R1608, BKS-R3209 BKS-R3210**

Serial No: **SEE TEXT**

DESCRIPTION

Version 2.04 firmware is now available. The new firmware implements the following new features and program improvements.

PARTS REQUIRED

Part No.	Description	Qty.
8-759-712-69	IC29EE512-CPU244-V2.04, IC7	1

NEW FEATURES

Version 2.01

- Primary station with a matrix size of 1024 x 1024 is now supported.
  - SOURCE/DEST 16/32 type now supported.
  - 16/32 type mode now auto selectable, enabling use of 1 to 512 and 1 to 1024 primary stations.
  - Panel setup data is updated to accommodate expanded matrix size.
- New Panel Operation
  - When X-Y is selected from BKS-R3210, pressing one of 1 to 16 and TYPE buttons simultaneously is now equivalent to pressing one of 17 to 32 buttons.
  - "NotAvail" is now displayed on BKS-R1607 or BKS-R3210 if a destination is selected that is not set as available.
  - DVS-128 monitor signal can now be switched.
  - CHOP function is added. CHOP MODE is made available/unavailable by holding LOCK button for three seconds.
    Switching speed in CHOP mode can be changed in BKS-R1607 and BKS-R3210 only.

PROGRAM IMPROVEMENTS

Version 1.12

- Setup data can now be backed up when defining mother/daughter units.

- ON/OFF settings for discrete destinations found in Available Destination Table can now be changed by holding down Assign key and using Selector knob.

- Source data in preset window now displays correctly even if selected and DEST is pressed.

- When Key1 button is assigned as AUX in setup menu, Key1 lights up.

- Source name is changed so DEST button turns ON/OFF when BKS-R3210 connects to S-BUS monitor.

- Breakaway function display appears when connecting S-BUS monitor.

Version 2.02

- When unit is connected to primary stations other than DVS-128, BKPF-R70A, or HDS-X3000 series (devices that support P2 protocol), and a secondary station is called from terminal menu, characters above TYPE NAME 17 now display correctly.

Version 2.03

- System no longer hangs when rotating a rotary encoder after sending DESCRIPTION name to a primary station.

Version 2.04

When unit is connected to primary stations DVS-128, BKPF-R70A, or HDS-X3000 series:

- TYPE indication no longer changes to 17TYPE or higher under the following conditions:
  - Secondary station is called from terminal menu.
  - From O: SET AVAILABLE SOURCE/DESTINATION menu, number assigned to SOURCE or DESTINATION is between 800 and 999.
  - Terminal number assigned to SOURCE or DESTINATION is between 1 and 512 (P1 area).

RTRM99-003R1, RTRM99-006, RTRM99-013, RTRM00-003, RTRM00-023

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- When two or more routes are set for selection, more than two routes can now be selected from R: SET ROUTE.

  Previously, when attempting to select more than two routes, "Not Found" message displayed in BKS-R1607/R3210 Indication window, and BKS-R1608/R3209 error indicator lighted up.

- Switching is no longer disabled when downloading BKS-R1607/R1608/R3209/R3210 data from BZR-2000.

  Previously, X: DISPLAY S-BUS COMMUNICATION level changed to 0.

- CART + protocol error correction is improved.

NOTES ON INSTALLATION

- To install new upgrade, perform one of the following two installation procedures.

- When upgrading from V1.00, V1.11 or V1.12, it is necessary to initialize and reset setup data.

- When upgrading directly from V1.10 or lower, and Installation Procedure B is performed, it is necessary to:

  - Perform installation procedure twice. (Software must be downloaded twice.)
  - Reinstall setup data.

INSTALLATION PROCEDURE A

Upgrade by Replacing ROM

1. Remove top panel.
2. On CPU-244 board, replace IC7 (zone D-2) with new EPROM.
3. While pressing buttons 1 and 2 simultaneously, turn main power on to initialize system.
4. Reset panel setup data.

CAUTION: Programmable devices are easily damaged by static electricity. Make sure the equipment is powered OFF and you are grounded to the unit with a cable that contains a 1MΩ resistor between you and GND when installing programmable devices. Work with caution when grounded to the unit.

INSTALLATION PROCEDURE B

Upgrade Using S-BUS Interface

A control panel on which V2.04 is installed can perform version upgrade on other panels through S-BUS interface as follows:

1. From terminal, call setup display of panel already upgraded to V2.04.
2. Press CTRL-X and CTRL-P.
3. When upgrade display appears, enter station number of panel to be upgraded.

   NOTE: Enter "A" to upgrade all panels with the same model simultaneously.

4. While pressing buttons 1 and 2 simultaneously, turn main power on to initialize system.
5. Reset panel setup data.

ORDERING INFORMATION

NOTE: To order upgrades or for regional service center and parts ordering information, refer to the following document, which lists all contact telephone numbers:

Technical Bulletin *001999000*

Canadian Customers: Order parts from your usual supplier.

SERIAL NUMBERS

BKS-R1607	10,001–10,890
BKS-R1608	10,001–10,860
BKS-R3209	10,001–13,160
BKS-R3210	10,001–11,040