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B&K Components Device Interface Protocol (BKC-DIP) Errata

Table Of Contents

1. (AUDIO MONITOR-1)	3
2. (AUDIO MONITOR-2)	4
3. (AUTO PRESET NAMING-1)	5
4. (CURRENT INPUT ALIASE-1)	6
5. (CURRENT INPUT ALIASE-2)	7
7. (DISPLAY-1)	8
8. (DISPLAY-2)	9
9. (NOISE-1)	10
10. (NOISE-2)	11
11. (NOISE-3)	12
12. (PRODUCT ID-1)	13
13. (REALTIME-1)	14
14. (TUNER-1)	15
15. (TUNER-2)	16
16. (TUNER-3)	17

1. (AUDIO MONITOR-1)

Affects:

BKC-DIP V1.01

AVR 101, Version 2.03

AVR 202, Version 2.03

REF 10, Version 2.03

REF 20, Version 2.03

PT 3, Version 2.03

Description:

BKC-DIP selection of Z1 Tape Input in the current preset does not work (0,S,P1=FF,3=7;). The unit incorrectly routes the Tape Input to both the Z1 Output AND the Tape Output (instead of the previous current Z1 input being routed to Tape Output) causing possibility of a feedback loop.

Work around:

To properly select Z1 Tape Input via BKC-DIP use the BKC-DIP command for the IR Tape button of (0,S,I,1=D0;) which will correctly select the Z1 Tape Input. When selecting other inputs, always simultaneously set the Tape Monitor to Off. For Example:

(0,S,P1=FF,3=0,40=0;)	Z1 Current Input Tuner, Tape Monitor Off
(0,S,P1=FF,3=1,40=0;)	Z1 Current Input V1, Tape Monitor Off
(0,S,P1=FF,2=1,40=0;)	Z1 Current Input V2, Tape Monitor Off
(0,S,P1=FF,3=3,40=0;)	Z1 Current Input TVV3, Tape Monitor Off
(0,S,P1=FF,3=4,40=0;)	Z1 Current Input DVD, Tape Monitor Off
(0,S,P1=FF,3=5,40=0;)	Z1 Current Input CD, Tape Monitor Off
(0,S,P1=FF,3=6,40=0;)	Z1 Current Input SAT, Tape Monitor Off
(0,S,I,1=D0;)	Select Tape Monitor

Fix:

Upgrade to V2.04 or later (where Z1 Current Input no longer includes TAPE, but the Tape Monitor parameter properly handles the Tape monitoring functionality).

2. (AUDIO MONITOR-2)

Affects:

BKC-DIP V1.01

AVR 101, Version 2.03

AVR 202, Version 2.03

REF 10, Version 2.03

REF 20, Version 2.03

Description:

BKC-DIP selection of Z2 V2 Input in the current preset does not work (0,S,P1=FF,3=7;). The unit incorrectly routes V2 Input to both the Z2 Output AND Z2/V2 Output (**regardless** of the V2LineSetting Tape/Line Option in the System Settings).

Work around:

To properly select Z2 V2 Input via BKC-DIP use the BKC-DIP command for the IR V2 button of (0,S,I,2=90;) which will correctly selects the Z2 V2 Input respecting the setting of V2 Line Out.

When selecting other inputs, always simultaneously set the V2 Monitor to Off. For example:

(0,S,P2=FF,3=0,8=0;)	Z2 Current Input Tuner, V2 Monitor Off
(0,S,P2=FF,3=1,8=0;)	Z2 Current Input V1, V2 Monitor Off
(0,S,I,2=90;)	Select V2 Monitor
(0,S,P2=FF,3=3,8=0;)	Z2 Current Input TVV3, V2 Monitor Off
(0,S,P2=FF,3=4,8=0;)	Z2 Current Input DVD, V2 Monitor Off
(0,S,P2=FF,3=5,8=0;)	Z2 Current Input CD, V2 Monitor Off
(0,S,P2=FF,3=6,8=0;)	Z2 Current Input SAT, V2 Monitor Off
(0,S,P2=FF,3=7,8=0;)	Z2 Current Input Tape, V2 Monitor Off

Fix:

Upgrade to V2.04 or later (where Z2 Current Input of V2 is ignored, but the V2 Monitor parameter properly handles the V2 monitoring functionality).

3. (AUTO PRESET NAMING-1)

Affects:

BKC-DIP V1.01
PT 3, Version 2.03

Description:

The BKC-DIP eXecutive Save Preset Command (0,X,1,zoneNumber=presetNumber;cs16) does not respect the System Parameter setting of Preset Auto Naming. The saved preset's title is never Auto Named, regardless of the state of Preset Auto Naming.

Work around:

Implement a save using the equivalent IR commands:

(0, S, I, 1=2;)	IR Save command
(0, S, I, 1=destination digit;)	IR code for destination digit
:	:
(0, S, I, 1=C;)	IR Enter command

Example for Saving current preset to Preset 23:

(0, S, I, 1=2;)	IR Save command
(0, S, I, 1=4C;)	IR "2" command
(0, S, I, 1=CC;)	IR "3" command
(0, S, I, 1=C;)	IR Enter command

NOTE: IR commands for numbers are as follows:

7C	IR "0" command
8C	IR "1" command
4C	IR "2" command
CC	IR "3" command
AC	IR "4" command
6C	IR "5" command
EC	IR "6" command
9C	IR "7" command
5C	IR "8" command
DC	IR "9" command

Fix:

Upgrade to V2.04 or later where support for *autoNamingMode* was added to the Save Preset Command.

4. (CURRENT INPUT ALIASE-1)

Affects:

BKC-DIP V1.01

AVR 101, Version 2.03

AVR 202, Version 2.03

REF 10, Version 2.03

REF 20, Version 2.03

Description:

The BKC-DIP Current Input Aliase parameter for Surround Command

(0,S,F4=surroundCommand;), where surroundCommand = 0-3 on AVR 202/Ref 20 and 0-2 on AVR 101/Ref 10, actually sets the Aliased Surround Mode.

Work around:

Do not use Current Input Aliase to control Surround Command, but instead use specific inputs Surround Command from the following commands:

(0,G,P1=FF,3;) gets current input

Use the appropriate input Surround Command, i.e.:

(0,S,P1=FF,9=surroundCommand;) set tuner Surround Command to surroundCommand

(0,S,P1=FF,10=surroundCommand;) set V1 Surround Command to surroundCommand

(0,S,P1=FF,17=surroundCommand;) set V2 Surround Command to surroundCommand

:

(0,S,P1=FF,3A=surroundCommand;) set TAPE Surround Command to
surroundCommand

Fix:

Upgrade to V2.04 or later.

5. (CURRENT INPUT ALIASE-2)

Affects:

BKC-DIP V1.01

AVR 101, Versions 2.03 – 2.04
AVR 202, Versions 2.03 – 2.04
REF 10, Versions 2.03 – 2.04
REF 20, Versions 2.03 – 2.04
PT 3, Versions 2.03 – 2.04

BKC-DIP V1.02.00

AVR 202i, Versions 2.00 – 2.01
AVR 305, Versions 2.00 – 2.01
AVR 307, Versions 2.00 – 2.01
REF 30, Versions 2.00 – 2.01

Description:

The BKC-DIP Current Input Aliase parameters do not return information when issued a G (get) command. Using S (set) commands are fully functional.

Work around:

Do not use Current Input Aliase identifiers, but instead use specific inputs identifiers:

(0,G,P1=FF,3;) gets current input

Use the appropriate input Surround Command, i.e.:

(0,G,P1=FF,9;) get tuner Surround Command

(0,G,P1=FF,10;) get V1 Surround Command

(0,G,P1=FF,17;) get V2 Surround Command

:

(0,G,P1=FF,3A;) get TAPE Surround Command

Fix:

AVR 101, AVR 202, REF 10, REF 20, and PT 3:
Upgrade to V2.05 or later.

AVR 202I, AVR 305, AVR 307, and REF 30:
Upgrade to V2.02 or later.

7. (DISPLAY-1)

Affects:

BKC-DIP V1.01

AVR 101, Version 2.03 – Version 2.05

AVR 202, Version 2.03 – Version 2.05

REF 10, Version 2.03 – Version 2.05

REF 20, Version 2.03 – Version 2.05

BKC-DIP V1.02.00

AVR 202i, Version 2.00 – Version 2.04

AVR 305, Version 2.00 – Version 2.04

AVR 307, Version 2.00 – Version 2.04

REF 30, Version 2.00 – Version 2.04

Description:

BKC-DIP Set OSD Display with row and/or column 1 greater than max (i.e. x1C or yb) corrupts internal RAM buffer resulting in an invalid echo response.

Work around:

None. Don't send invalid OSD rows or columns (valid is 0h to Ah for rows and 0h to 1B or columns).

Fix:

AVR 101, AVR 202, REF 10, REF 20:
Upgrade to Version 2.06 or later.

AVR 202i, AVR 305, AVR 307, REF 30:
Upgrade to Version 2.05 or later.

8. (DISPLAY-2)

Affects:

BKC-DIP V1.01

AVR 101, Version 2.03 – Version 2.05

AVR 202, Version 2.03 – Version 2.05

REF 10, Version 2.03 – Version 2.05

REF 20, Version 2.03 – Version 2.05

BKC-DIP V1.02.00

AVR 202i, Version 2.00 – Version 2.04

AVR 305, Version 2.00 – Version 2.04

AVR 307, Version 2.00 – Version 2.04

REF 30, Version 2.00 – Version 2.04

Description:

Using BKC-DIP/RS-232 display command in Overlay mode (i.e. M1) after a display command in Non-Overlay (i.e. M0, "blue screen") does not display text in Overlay mode

Work around:

Send Non-overlay mode display message with shortest possible timeout (i.e. T1), then after display refreshes, issue Overlay Mode display command.

Fix:

AVR 101, AVR 202, REF 10, REF 20:

Upgrade to Version 2.06 or later.

AVR 202i, AVR 305, AVR 307, REF 30:

Upgrade to Version 2.05 or later.

9. (NOISE-1)

Affects:

BKC-DIP V1.01

AVR 101, Version 2.03

AVR 202, Version 2.03

REF 10, Version 2.03

REF 20, Version 2.03

Description:

Unit will incorrectly skip the Subwoofer channel using the BKC-DIP eXecutive Command (0,X,5;), Noise Increment Command, via BKC-DIP if the LFE Setting is set to OFF. Conversely, the unit will incorrectly increment to the subwoofer if the LFE Setting is **NOT** OFF even though subwoofer is set to NONE in the speaker setup menu. The system software incorrectly uses LFE Setting = OFF to determine that there is no subwoofer, when it should use Sub Setting = NONE (subwoofer NONE).

Also, the string "Spkr St = n" (where n is some number) will be displayed when using the Noise Increment Command (0,X,5;).

Work around:

Method 1:

If sub present

Temporarily change LFE Setting a non-OFF setting, (0,S,S,14=1;) -12 dB for example, (so the software believes there is a subwoofer) before using the BKC-DIP eXecutive Noise Increment command.

Else no sub present

Temporarily change LFE Setting to OFF (0,S,S,14=0;) if subwoofer is not present (so the software believes there is not a subwoofer) before using the BKC-DIP eXecutive Noise Increment command.

Method 2:

Don't use the Noise Increment command. Instead explicitly enable/disable various channels using the eXecutive Noise Steering commands:

(0,X,4,0=1;) Left Front noise on, all others off

(0,X,4,1=1;) Center noise on, all others off

 : :

(0,X,4,5=1;) Subwoofer noise on, all others off

Fix:

Upgrade to Version 2.04 or later.

10. (NOISE-2)

Affects:

BKC-DIP V1.01

AVR 101, Version 2.03

AVR 202, Version 2.03

REF 10, Version 2.03

REF 20, Version 2.03

Description:

If the Noise Generator State is set to Off using the BKC-DIP eXecutive Command (0,X,3,0;) without the Noise generator previously being active, the unit will be muted.

NOTE: Attempts to activate the Noise Generator using the BKC-DIP eXecutive Command (0,X,3,1;) are ignored if the unit is in Sleep (this is an easy way to created "unmatched" Noise Gen On/Off pairs).

Work around:

Always send a pair of messages to assure that the noise generator is on before attempting to turn it off:

(0,X,3,1;) potentially redundant eXecutive noise generator On command

(0,X,3,0;) eXecutive noise generator Off command

Fix:

Upgrade to Version 2.04 or later.

11. (NOISE-3)

Affects:

BKC-DIP V1.01

AVR 101, Version 2.03

AVR 202, Version 2.03

REF 10, Version 2.03

REF 20, Version 2.03

Description:

The Right Rear and Left Rear speaker indices swapped when using the Noise Steering Command (0,X,4, *speakerIndex=onOff* ... ;cs16).

Work around:

Account for incorrect index response when generating Noise Steering commands:

(0,X,4,3=1;cs16) Index **3** activates **Left** Rear (instead of Right Rear)

(0,X,4,4=1;cs16) Index **4** activates **Right** Rear (instead of Left Rear)

Fix:

Upgrade to Version 2.04 or later.

12. (PRODUCT ID-1)

Affects:

BKC-DIP V1.01

AVR 101, Version 2.03

AVR 202, Version 2.03

REF 10, Version 2.03

REF 20, Version 2.03

Description:

BKC-DIP Z2 Product ID, system parameter 2Ch, has an incorrect maximum value of 1h (implying values 0h and 1h are acceptable), when should range be 10h (valid values of 0h through 10h).

This makes it impossible to set Z2 product ID above 1h (product ID 2) via the BKC-DIP interface.

Thus using BKC-DIP, it is not possible to access Z2 Product ID's 3 through 16.

Work around:

None.

Fix:

Upgrade to Version 2.04 or later.

13. (REALTIME-1)

Affects:

BKC-DIP V1.02

AVR 202i, Version 2.00 – Version 2.04

AVR 305, Version 2.00 – Version 2.04

AVR 307, Version 2.00 – Version 2.04

REF 30, Version 2.00 – Version 2.04

Description:

BKC-DIP Realtime Update events trigger by OSDUpdate and/or FPUpdate are not always generated when display changes (primarily when fast IR messages are causing display updates, specifically VOL +/-). This poses problems for applications that need to be synchronized to reflect the FP or OSD state, as the unit doesn't reliably indicate a state change.

Work around:

Monitor Updates from IR and Front Panel in addition to the OSD and Front Panel Realtime events. Thus if a Realtime event is not generated the IR/FP command indicates that the displays have most likely changed.

Fix:

Upgrade to V2.05 or later.

14. (TUNER-1)

Affects:

BKC-DIP V1.01

AVR 101, Version 2.03

AVR 202, Version 2.03

REF 10, Version 2.03

REF 20, Version 2.03

PT3, Version 2.03

Description:

When updating the tuner frequency via BKC-DIP, an internal variable is not updated. This variable is initialized to 0 (the lowest frequency setting, i.e. 520 kHz AM and 87.5 MHz FM (for domestic units)) on factory reset, and updated correctly when using IR commands (including direct frequency entry and tune +/-). The problem manifests itself when the user then recalls a preset or tuner channel that is "Open" after previously setting the frequency via RS232. The tuner "Open" frequency will NOT reflect the last frequency entered via RS232, but instead the last frequency entered via IR (or if IR has never been used, the factory reset value of 0).

Work around:

Set frequencies explicitly in Preset or Tuner Channel before recalling, thus eliminating issues with "Open" tuner frequencies.

Fix:

Upgrade to V2.04 or later.

15. (TUNER-2)

Affects:

BKC-DIP V1.01

AVR 101, Version 2.03 - 2.04

AVR 202, Version 2.03 - 2.04

REF 10, Version 2.03 - 2.04

REF 20, Version 2.03 - 2.04

Description:

Updating the Zone 2 Band for the current preset, (0,s,P2=FF,4=*band*;) does not properly update the tuner hardware.

Work around:

When updating the Zone 2 current preset Band, also write same value to Zone 1 current preset Band. Since there is physically only one Tuner shared between the two zones, the hardware is properly updated via the Zone 1 set command, and the Zone 2 data structure is kept up to date using its corresponding set command.

Set Zone 2 Band to AM:

(0,S,P2=FF,4=0;)

(0,S,P1=FF,4=0;)

Set Zone 2 Band to FM:

(0,S,P2=FF,4=1;)

(0,S,P1=FF,4=1;)

Set Zone 2 current preset Band to AM (as usual)

Set Zone 1 current preset Band the same as Zone 2

Set Zone 2 current preset Band to PM (as usual)

Set Zone 1 current preset Band the same as Zone 2

Fix:

Upgrade to V2.05 or later.

16. (TUNER-3)

Affects:

BKC-DIP V1.02.00

AVR 202i, Versions 2.00 – 2.01

AVR 305, Version 2.00 - 2.01

AVR 307, Version 2.00 - 2.01

REF 30, Version 2.00 - 2.01

Description:

Changing FM Mono/Stereo setting of the tuner in the current preset does not update the tuner hardware.

Work around:

After changing the FM Mono/Stereo setting, momentarily change the frequency or the band and then back again. This causes the hardware to be refreshed.

Fix:

Upgrade to V2.02 or later.