NABCO ENTRANCES TECHNICAL BULLETIN

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S82 W18717 Gemini Drive
Muskego, WI, 53150
Phone: (877) 622-2694, Fax: (888) 679-3319
www.NabcoEntrances.com

Who is the contact?
Technical Support Department

Opus Control Programming Tips

This bulletin is intended to assist technicians with interpreting certain software behaviors that could exist on previous Opus controls (current software version is B21)

1) **If door is hard to open manually** - On all controls up to and including rev. B18
   1. Re-enter "0" for "hold closed force" under "optional settings". The software on early Opus controls may suggest it's already set to "0", but does not act like it. Entering "0" again will fix it.
   2. On outswing only: Check if shoe position and rod length are in accordance with the dimensions in the manual.
   3. Except GT710: Reduce the preload on the operator. The Opus is not dependent on preload since there is no cam and door position switches. <u>Maximum preload on GT8500's should be one notch on the operator spline to maintain ANSI 156.19</u>

2) **If door remains stalled after pushing open manually** - On all controls up to and including rev. B18
   This can happen if: "Manual Open Function" is set to "No Action" and "Manual Open Sensitivity" is set to "0". If "No Action" is desired, change "Manual Open Sensitivity" to anything other than "0".

3) **Control will not react to an activation signal** - All revisions
   1. At the main screen, confirm that "IN" or "EXT" highlights when an activation signal is applied. If not, check the wiring or the activation device.
   2. At the main screen, determine if "BA" is highlighted. If a 4-wire on/off/hold-open switch is being used, with a blue wire connected to terminal 8, then "Input BA Circuit" (found under "Input Settings") must be set to "Normally Closed". If a 3-wire switch is being used, or no switch is being used (nothing connected to terminal 8), then "Input BA Circuit" should be set to "Normally Open".
   3. At the main screen, if Status shows "Stopped" while the door is closed, and BA is not highlighted, turn off power for at least 4 seconds then turn on again. With the door still closed, status should now show "Fully Closed".
   4. Must navigate back to the main screen (as shown at right) for an activation signal to work.

```
Type:        GT710 Swing
Status:      Fully Closed
Error:       -----
Activation:  (IN)  EXT
Encoder:     Stable
Other:       (BA)  6B   SLS
         Keep Pushing Switch
           => Setting Mode
```

4) **Any sort of odd behavior on a sim-pair -** All revisions
   The issue may be that the controls are not communicating correctly.
   1. To fix it, do a "copy data" from one control to the other. One control should then indicate "Type 1" on the main screen, the other should indicate "Type 2". There is no rule as to which needs to be which, but they must be different than each other.
   2. See item 5 below for more info on copying data.

5) **To copy settings from one control to another in a sim-pair** - On all controls up to and including rev. B19 (* see below)
   1. On the control being programmed, after other settings are complete, go to "SimPair Setting" under "Optional Settings". Change to "Single Door" then back to "Normal Sim Pair" (or "Overlap Sim Pair"). Then, when moving back out of the programming, before reaching the main status screen, a prompt will come up to "Copy Settings" "Yes No". Select "Yes".
   *On controls with software version B20 and later, the "copy Settings" prompt will always appear when backing out of programming if the control is set to Sim Pair, without the need to select Single first.

6) **Closing functions (speed, latch-check, power close) don't work when opened manually** -
   On all controls up to and including rev. B17 (*see below)
   1. Change "manual open function" to something other than "no action". "stop and close" is usually ideal. * Closing functions are active when the door is opened manually on controls with software version B18 and later.

7) **On simultaneous pairs, using "stop & close" results in a "push and go" like function, opening both doors. Using "Push and Go" also opens both doors -** On all controls up to and including rev. B20
   Remove sim-pair harness, set both controls to "single door", parallel the common terminal and any input being used between both controls.

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Opus Control Programming Tips (continued…)

8) **Door sometimes does not close during latch check** - On all controls up to and including rev. B19
Symptom: When the door is used manually it closes every time. However, when the door is activated, once in a while it will stop at latch check and not continue to close.
   1. Increase latch check speed or try increasing operator arm preload (if GT710 - increase spring tension on hydraulic closer)
   2. If the adjustments from item 1 above causes the door to slam closed when activated during latch check, then turn on power close during latch check to resolve the base problem.

9) **Double Egress Pairs are not Synchronizing** - On all controls up to and including rev. B20
   1. Disconnect CANBus sim-pair harness and check Type1 or Type2 settings (refer also to item 4)
   2. Double egress door applications should set up as single doors with paralleled activation and safety signals.
   3. If the software version is B21, the CANbus cable can be connected for synchronized activation but all safety signals must remain paralleled.

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