PLEASE FOLLOW THESE WIRING AND PROGRAMMING INSTRUCTIONS FOR PROPER SYSTEM OPERATION:
(see full system wiring diagram/manual for complete detailed information)

1. **SP300 control unit and SP300Z expander(s)**
   For Systems up to 2 doorstations (TSMB or TT212 type) and max. 40 handsets (HT3011) you need 1 SP300.
   For Systems up to 4 doorstations (TSMB or TT212 type) and max. 40 handsets (HT3011) you need 1 SP300
   and 1 SP300Z.
   For Systems up to 6 doorstations (TSMB or TT212 type) and max. 40 handsets (HT3011) you need 1 SP300
   and 2 SP300Z.

2. **HT3011 apartment handset**
   For Systems with 2 HT3011 handsets in parallel, you need to add 1 model PIC.2.
   For Systems with 3 HT3011 handsets in parallel, you need to add 1 model PIC.3.
   For Systems with 4 HT3011 handsets in parallel, you need to add 1 model PIC.4.

   For additional chime or strobe output, you need 1 model AM300B for each HT3011 handset.

   If you would like to use the additional button on the HT3011 handset, you need to add 1 model BAR211 per system.
   The model BAR211 gives you a dry contact closure for 1.5 seconds.

3. **General wiring gauges required**

Wire size (gauge)	#22AWG	#20AWG
Distance between SP300 and Doorstation (TSMB or TT212)	35 m max.	60 m max.
Distance between SP300 and HT3011 handset(s)	160 m max.	280 m max.
Distance between SP300 and Door Release	35 m max.	60 m max.

4. **Programming of 'Bus' system from each entrance panel station**
   a. At the TT212 or TSMB speaker/microphone module, set DIP-SWITCH #1 to the "ON" position. You are now in the programming mode.
   b. Lift the handset in one apartment only. **Please make sure no other handsets are off-hook!**
   c. Press the push button at lobby panel which should call the handset which you lifted.
   d. Hang up the handset.
   e. Press the same push button again. Now the handset rings, and after you lift the handset you can talk to the lobby. NOTE: it is normal for the handset to ring 1-2 seconds after the lobby push button is depressed. For systems with handsets and video monitors, it is normal for the monitor to activate when the handset rings.
   f. Repeat steps "b." to "e." for all other handsets in the system.
   g. After you finished the programming of all of the handsets, at the TT212 or TSMB speaker/microphone module, set DIP-SWITCH #1 to the "OFF" position
   h. Now you are back to the normal mode.
   i. If you have a 2nd doorstation, repeat handset programming steps from #4 (above) from the 2nd door station.

5. **Additional programming instructions for systems with 2 door entrance panel stations**
   a. At the SP300, set DIP-SWITCH #1 to the "ON" position, You are now in the programming mode, and the GREEN LED should be lighted (steady).
   b. At the SP300, set DIP-SWITCH #4 to the "ON" position, and press one of the buttons at entrance panel #1 (it doesn't matter which button). Now you can install the door opener from entrance #1 to terminals "TÖ" at the SP300.
   c. At the SP300, set DIP-SWITCH #4 to the "OFF" position, and press one of the buttons at entrance panel #2 (it doesn't matter which button). Now you can install the door opener from entrance #2 to terminals "LT" at the SP300.
   d. At the SP300 set DIP-SWITCH #1 to the "OFF" position. You are back in the normal mode and the green LED is flashing.

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**PROGRAMMING INSTRUCTIONS
for the 'BUS' system with 1 or 2 Entrance
panels and push button type door station(s)**
Used with the S.T.R.™ HT3011 audio handsets or
VH30-2D type 'BUS' video-intercom system monitors

AWD084 Rev. 1 (11/03)