

Power 832 Application Notes – X-10 Automation (Manual Control)

Application: The ESCORT can be used to control up to 32 X-10 automation devices. This Application Note will cover the basic programming required for manual operation. Additional Application Notes are available for scheduling and output control.

Equipment:

- Power 832 control panel
- ESCORT 5580 module
- X-10 controller (PL-513 or PSC-04)
- X-10 lamp module

Special Notes:

Program Sections:	ESCORT Section [002]	- First System Options
	ESCORT Section [007]	- Number of Automation Transmissions
	ESCORT Section [130]	- Item #01 House Code & Unit Number
	ESCORT Section [131]	- Item #01 Miscellaneous Options
	ESCORT Section [134]	- Item #01 Schedule/Output Condition

Procedure:

To enter ESCORT programming, perform the following on any local touch tone phone:

- Enter [*] [*] [*] on any local touch tone phone to turn the ESCORT on
- Enter [*] [8] [ESCORT Service Code] – default is [5580]

For information regarding how the ESCORT is programmed, please refer to the ESCORT 5580 Installation Manual.

Step 1 – First System Options – ESCORT Section [002]

- Turn Option [03] ON to enable Home Automation.
- An access can be required to enter the [*] [5] Automation for additional security. If Option [04] is ON, an access code is required. If Option [04] is OFF, an access code is not required.

Step 2 – Number of Automation Transmissions – ESCORT Section [007]

The number of Automation transmissions can be changed to increase reliability. Since the Automation transmissions are non-confirmed and occur over the existing AC wiring of the premises, having the ESCORT transmit multiple On/Off commands can increase reliability.

- Program the number of on/off transmissions to be sent for each command.
- Note, each transmission takes approximately one second. The larger the number, the slower the Automation system will appear to operate.

Step 3 – Item #01 House Code & Unit Number – ESCORT Section [130]

Each light module has dials for selecting a unique address for each. A unique address is required for each light module so that the user can control them individually. One dial is used to select from letter [A] to [P], the other dial is used to select a number from [1] to [16].

- Referring to Appendix B, program the three digit code equivalent to the letter and number corresponding to the letter and number selected for the first X-10 light module (i.e. [A1] = [000]).

Step 4 – Item #01 Miscellaneous Options – ESCORT Section [131]

- Turn Option [01] ON to enable the X-10 module.
- Turn Option [02] ON to enable end user manual control.

Option [03] allows you to select if the X-10 module will be included in global commands. For example, several light modules may present to control downstairs lighting. At bedtime, rather than having to turn off each light module individually, the user could initiate a ‘global off’ command. All the light modules included in the global command option would be turned off.

- Turn Option [03] ON to include the X-10 module in the global command group. Turn Option [03] OFF to exclude the X-10 module from the global command group.
- Turn Option [04] ON to enable dimming.
- Option [05] is not used for manual control. It only applies if the X-10 module is being used in conjunction with schedules or outputs.
- Turn Option [06] ON so that the light will remain on until told to turn off.

The Escort can be programmed to announce different words when an X-10 module is activated/deactivated. Depending on the application, turn Option [07], [08] or [09] ON. Only turn ON one of these options. In the case of lighting, it is logical for the Escort to announce ‘on’ and ‘off’.

- Turn Option [07] ON so that the ESCORT will announce the light is on and off when activated.
- Turn Option [08] OFF.
- Turn Option [09] OFF.

Step 5 – Item #01 Schedule/Output Condition – ESCORT Section [134]

- Enter data [00] to disable schedule/output control.

Step 6 – Program Additional X-10 Modules

Repeat steps 3 through 5 for each X-10 module on the system. The programming is identical, however the Section numbers are different for each.

Summary:

The user will be able to turn on or off individual lights on the system using the [*] [5] command.

Power 832 Application Notes – X-10 Automation (Schedule Control)

Application: The ESCORT can be used to control up to 32 X-10 automation devices. This Application Note will cover the basic programming required for scheduling light control, specifically to turn a light on at 8:00 am and off at 8:00 pm, every day of the week. Additional Application Notes are available for output and manual control.

Equipment:

- Power 832 control panel
- ESCORT 5580 module
- X-10 controller (PL-513 or PSC-04)
- X-10 light module

Special Notes:

Program Sections:	ESCORT Section [002]	- First System Options
	ESCORT Section [007]	- Number of Automation Transmissions
	ESCORT Section [130]	- Item #01 House Code & Unit Number
	ESCORT Section [131]	- Item #01 Miscellaneous Options
	ESCORT Section [132]	- Item #01 Schedule Assignment
	ESCORT Section [134]	- Item #01 Schedule/Output Condition
	ESCORT Section [030] to [032]	- Schedule #01 Programming

Procedure:

To enter ESCORT programming, perform the following on any local touch tone phone:

- Enter [*] [*] [*] on any local touch tone phone to turn the ESCORT on
- Enter [*] [8] [ESCORT Service Code] – default is [5580]

For information regarding how the ESCORT is programmed, please refer to the ESCORT 5580 Installation Manual.

Step 1 – First System Options – ESCORT Section [002]

- Turn Option [03] ON to enable Home Automation.
- An access can be required to enter the [*] [5] Automation for additional security. If Option [04] is ON, an access code is required. If Option [04] is OFF, an access code is not required.

Step 2 – Number of Automation Transmissions – ESCORT Section [007]

The number of Automation transmissions can be changed to increase reliability. Since the Automation transmissions are non-confirmed and occur over the existing AC wiring of the premises, having the ESCORT transmit multiple On/Off commands can increase reliability.

- Program the number of on/off transmissions to be sent for each command.
- Note, each transmission takes approximately one second. The larger the number, the slower the Automation system will appear to operate.

Step 3 – Item #01 House Code & Unit Number – ESCORT Section [130]

Each light module has dials for selecting a unique address for each. A unique address is required for each light module so that the user can control them individually. One dial is used to select from letter [A] to [P], the other dial is used to select a number from [1] to [16].

- Referring to Appendix B, program the three digit code equivalent to the letter and number corresponding to the letter and number selected for the first X-10 light module (i.e. [A1] = [000]).

Step 4 – Item #01 Miscellaneous Options – ESCORT Section [131]

- Turn Option [01] ON to enable the X-10 module.
- Turn Option [02] ON to enable end user manual control.

Option [03] allows you to select if the X-10 module will be included in global commands. For example, several light modules may present to control downstairs lighting. At bedtime, rather than having to turn off each light module individually, the user could initiate a ‘global off’ command. All the light modules included in the global command option would be turned off.

- Turn Option [03] ON to include the X-10 module in the global command group. Turn Option [03] OFF to exclude the X-10 module from the global command group.
- Turn Option [04] ON to enable dimming.
- Turn Option [05] ON so that the light module will always turn on or off when scheduled to do so.
- Turn Option [06] ON so that the light will remain on until told to turn off.

The Escort can be programmed to announce different words when an X-10 module is activated/deactivated. Depending on the application, turn Option [07], [08] or [09] ON. Only turn ON one of these options. In the case of lighting, it is logical for the Escort to announce ‘on’ and ‘off’.

- Turn Option [07] ON so that the ESCORT will announce the light is on and off when activated.
- Turn Option [08] OFF.
- Turn Option [09] OFF.

Step 5 – Item #01 Schedule Assignment – ESCORT Section [132]

Each X-10 module can be programmed to follow any or all of the 16 available schedules. In our application, only one schedule is required.

- Turn Option [01] to enable Schedule #01.

Step 6 – Item #01 Schedule/Output Condition – ESCORT Section [134]

- Enter data [02] to enable schedule control.

Step 7 – ESCORT Schedule #01 Programming – ESCORT Section [030] to [032]

Each of the 16 schedules contain three program items; On time, Off Time and Day of the Week selection.

- Program data [0800] in Section [030] (8:00 am On Time)
- Program data [2000] in Section [031] (8:00 pm Off Time)
- Turn Options [01] through [07] ON to enable all days of the week.

Step 8 – Program Additional X-10 Modules

Repeat steps 3 through 7 for each X-10 module on the system. The programming is identical, however the Section numbers are different for each.

Summary:

The user will be able to turn on or off individual lights on the system using the [*] [5] command. In addition, the light will automatically turn on at 8:00 am and automatically turn off at 8:00 pm.

Power 832 Application Notes – X-10 Automation (Output Control)

Application: The ESCORT can be used to control up to 32 X-10 automation devices. This Application Note will cover the basic programming required for output control, specifically to turn a light on when an alarm occurs. Additional Application Notes are available for scheduling and manual control.

Equipment:

- Power 832 control panel
- ESCORT 5580 module
- X-10 controller (PL-513 or PSC-04)
- X-10 light module

Special Notes:

Program Sections:	ESCORT Section [002]	- First System Options
	ESCORT Section [007]	- Number of Automation Transmissions
	ESCORT Section [130]	- Item #01 House Code & Unit Number
	ESCORT Section [131]	- Item #01 Miscellaneous Options
	ESCORT Section [134]	- Item #01 Schedule/Output Condition
	ESCORT Section [401]	- Item #01 Output Follower

Procedure:

To enter ESCORT programming, perform the following on any local touch tone phone:

- Enter [*] [*] [*] on any local touch tone phone to turn the ESCORT on
- Enter [*] [8] [ESCORT Service Code] – default is [5580]

For information regarding how the ESCORT is programmed, please refer to the ESCORT 5580 Installation Manual.

Step 1 – First System Options – ESCORT Section [002]

- Turn Option [03] ON to enable Home Automation.
- An access can be required to enter the [*] [5] Automation for additional security. If Option [04] is ON, an access code is required. If Option [04] is OFF, an access code is not required.

Step 2 – Number of Automation Transmissions – ESCORT Section [007]

The number of Automation transmissions can be changed to increase reliability. Since the Automation transmissions are non-confirmed and occur over the existing AC wiring of the premises, having the ESCORT transmit multiple On/Off commands can increase reliability.

- Program the number of on/off transmissions to be sent for each command.
- Note, each transmission takes approximately one second. The larger the number, the slower the Automation system will appear to operate.

Step 3 – Item #01 House Code & Unit Number – ESCORT Section [130]

Each light module has dials for selecting a unique address for each. A unique address is required for each light module so that the user can control them individually. One dial is used to select from letter [A] to [P], the other dial is used to select a number from [1] to [16].

- Referring to Appendix B, program the three digit code equivalent to the letter and number corresponding to the letter and number selected for the first X-10 light module (i.e. [A1] = [000]).

Step 4 – Item #01 Miscellaneous Options – ESCORT Section [131]

- Turn Option [01] ON to enable the X-10 module.
- Turn Option [02] ON to enable end user manual control.

Option [03] allows you to select if the X-10 module will be included in global commands. For example, several light modules may present to control downstairs lighting. At bedtime, rather than having to turn off each light module individually, the user could initiate a ‘global off’ command. All the light modules included in the global command option would be turned off.

- Turn Option [03] ON to include the X-10 module in the global command group. Turn Option [03] OFF to exclude the X-10 module from the global command group.
- Turn Option [04] ON to enable dimming.
- Turn Option [05] ON so that the light module will always turn on when the panel goes into alarm and always turns off when the alarm is silenced.
- Turn Option [06] ON so that the light will remain on until told to turn off.

The Escort can be programmed to announce different words when an X-10 module is activated/deactivated. Depending on the application, turn Option [07], [08] or [09] ON. Only turn ON one of these options. In the case of lighting, it is logical for the Escort to announce ‘on’ and ‘off’.

- Turn Option [07] ON so that the ESCORT will announce the light is on and off when activated.
- Turn Option [08] OFF.
- Turn Option [09] OFF.

Step 5 – Item #01 Schedule/Output Condition – ESCORT Section [134]

- Enter data [01] to enable output control.

Step 6 – Automation Item #01 Output Follower – ESCORT Section [401]

Any X-10 module can be programmed to turn on when an output of the panel is turned on, and turn off when the same output is turned off. PGM outputs [03] through [14] are available for X-10 output control.

- Program data [03] in Section [401] so that X-10 module #01 will follow PGM output [03].

When using PGM outputs [03] through [14] for X-10 module output control, it is not necessary to connect the associated module to the panel (PC5208 module for PGM outputs [03] to [08], PC5204 module for PGM outputs [11] to [14]) to use the PGM output. When the panel turns on or off PGM outputs [03] to [14], whether or not the associated module is actually present, the panel communicates the information via the KEYBUS. The ESCORT module is also connected to the KEYBUS. When it sees the panel attempting to turn PGM outputs on or off, it checks programming to see if it should also turn X-10 modules on or off. This is why PGM1 and PGM2 cannot be used for X-10 output control. These outputs are on the main control and the panel does not need to send the information via the KEYBUS to turn these outputs on or off.

Step 7 – Programmable Output Options – Panel Section [010]

- Program data [01] for PGM3 (Burglary and Fire Bell Output).

Step 8 – Program Additional X-10 Modules

Repeat steps 3 through 7 for each X-10 module on the system. The programming is identical, however the Section numbers are different for each.

Summary:

The user will be able to turn on or off individual lights on the system using the [*] [5] command. In addition, the light will automatically turn on when an alarm occurs and will turn off when the alarm is cleared.