

Escort5580(TC) – PowerSeries Telephone Interface & Automation Control Module

The Escort5580(TC) module is a telephone interface module that turns any tone phone, local or remote, into a fully functional keypad. The Escort5580(TC) uses full sentence prompts to simplify operation. The module also includes an X-10 interface jack and can be used to support up to 32 X-10 devices with the addition of a PSC04 X-10 interface module.

The 'TC' designator in the part number indicates the unit also includes thermostat control. Up to 4 thermostats can be controlled.

The module contains an extensive 240+ word library. Up to 6 words can be programmed for all labels (zones, partitions, X-10 automation items) to simplify operation for the end user. Programming the Escort module is done using any local tone telephone or downloading.



Power 832 Application Notes – ESCORT Module Labels

Operation: The ESCORT module has programmable labels for zones, Partitions, keypad functions etc... Up to 6 words from the library can be programmed for each, including the ability to say any number between 0 and 999 three different ways.

Applications:

 Programmed labels make the system easier to use. Rather than reading an abbreviated LCD label or referring to a handwritten door label, the ESCORT will clearly announce the zone label. example – 'upstairs master bedroom window contact'

Program Sections:	ESCORT Section [451] to [482]	 Automation Item Labels
	ESCORT Section [521] to [528]	 Automation Mode Labels
	ESCORT Section [545] to [546]	– Miscellaneous System Labels
	ESCORT Section [561] to [562]	– System Partition Labels
	ESCORT Section [601] to [633]	- System Zone Labels

Label Library - Words

The word library is located in Appendix A of the ESCORT Installation manual and contains approximately 240 words. A three-digit number is assigned to each word. From the list, write down the three-digit numbers for each word required for each label.

For example – 'Living Room Motion Detector'	[127]	= Living
	[183]	= Room
	[145]	= Motion
	[054]	= Detector

Label Library – Numbers

The ESCORT has the ability to say any number from 0 to 999 three different ways, Combined, Ordered and Individual. Two of the six programmable words for a label are required to say a number, the first word is how you want the number stated, the second is the actual number itself.

The following is an example of how the ESCORT can say the number (401).

Combined	=	'Four Hundred and One'
Ordered	=	'Four Hundred and First'
Individual	=	'Four Zero One'

example – 'Second Floor Bedroom Smoke Detector' [001]

[002] = the number 2 (announced as 'Second')

- [079] = Floor
- [023] = Bedroom

= Ordered

- [197] = Smoke
- [054] = Detector

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 – Automation Item Labels – ESCORT Section [451] to [482]

NOTE – This step is only required if the ESCORT is being used for Automation control.

Enter the correct Section and enter the three-digit numbers for the label. If all 6 words are used, the ESCORT will announce the new label after the last three-digit word is entered, then will exit the Section. If all 6 words are not used, press the [#] to exit the Section and the ESCORT will announce the new label.

Step 2 – Automation Mode Labels – ESCORT Section [521] to [528]

NOTE – This step is only required if the ESCORT is being used for Automation control.

Enter the correct Section and enter the three-digit numbers for the label. If all 6 words are used, the ESCORT will announce the new label after the last three-digit word is entered, then will exit the Section. If all 6 words are not used, press the [#] to exit the Section and the ESCORT will announce the new label.

Step 3 – Miscellaneous System Labels – ESCORT Section [545] to [546]

Enter the correct Section and enter the three-digit numbers for the label. If all 6 words are used, the ESCORT will announce the new label after the last three-digit word is entered, then will exit the Section. If all 6 words are not used, press the [#] to exit the Section and the ESCORT will announce the new label.

Step 4 – System Partition Labels – ESCORT Section [561] to [562]

Enter the correct Section and enter the three-digit numbers for the label. If all 6 words are used, the ESCORT will announce the new label after the last three-digit word is entered, then will exit the Section. If all 6 words are not used, press the [#] to exit the Section and the ESCORT will announce the new label.

Step 5 – System Zone Labels – ESCORT Section [601] to [633]

Enter the correct Section and enter the three-digit numbers for the label. If all 6 words are used, the ESCORT will announce the new label after the last three-digit word is entered, then will exit the Section. If all 6 words are not used, press the [#] to exit the Section and the ESCORT will announce the new label.

NOTE – The last System zone label, Section [633], is for PGM2 if it is being used for two-wire smoke detectors.

Escort5580TC and EMS-100 – Setting Temperatures

Application: This application will describe how the user can select the temperature set points for the different Occupancy Settings (Day Setting, Night Setting, Away Setting and Aux Setting), using a touch tone telephone, the LCD keypad or the EMS-100 thermostat.

Equipment:

- Power 832 v2.x or greater
- LCD5500 v2.1 or greater (optional)
- Escort5580TC Module
- EMS-100 Thermostat
- EMS-ITS Internal Temperature Sensor (optional)
- EMS-OTS Outdoor Temperature Sensor (optional)

Special Notes:

- 1. The Application Note assumes that the EMS-100 will be used to control both heating and cooling.
- 2. The user cannot 'temporarily' change the temperature. Any time the user manually changes the temperature set point for an Occupancy Setting, it will change to the new setting.

Program Sections: None

Programming the Temperature Set Points for an Occupancy Setting via the EMS-100

The EMS-100 uses symbols to display the present Occupancy Setting (Day = sun, Night = moon; Away = house and cloud, AUX = house only). The [Day/Night] key will allow the user to toggle between Day and Night Occupancy Settings <u>or</u> Away and Aux Settings.

Note - The [Day/Night] key on the EMS-100 is limited to changing between two Occupancy settings only (Day/Night or Away/Aux). If the unit is in Day or Night Occupancy Setting, the [Day/Night] key will toggle between the two. If the EMS-100 is in Aux or Away Occupancy Setting, the [Day/Night] key will toggle between the two.

The Escort and LCD keypad allow you to change between all four Occupancy Settings. To set the heating and cooling temperatures for a Setting, perform the following functions on the EMS-100:

- 1. Press the [Day/Night] key and ensure the unit the correct Occupancy Setting is displayed.
- 2. Press the [Setting] key until the word COOL is displayed (small snowflake).
- 3. Use the [Up]/[Down] arrows to set the temperature that cooling should begin.
- 4. Press the [Setting] key until the word HEAT appears (small flame).
- 5. Use the [Up]/[Down] arrow keys to set the temperature that heating should begin.
- 6. Press the [Setting] key until the word AUTO appears (small snowflake and small flame).

Programming the Temperature Set Points for an Occupancy Setting via the LCD Keypad

Press [*] to bring up the user command menu.

- Step 1 Scroll to 'Thermostat Ctrl' then press the [*] key to select the option.
- Step 2 Scroll to the correct Thermostat (1 through 4) then press the [*] key to select the option.
- Step 3 Scroll to 'Occupancy Mode' then press the [*] key to select the option.
- Step 4 Scroll through the 4 different Occupancy Settings (the Occupancy Setting the EMS-100 is in will appear with a [*] beside it. When the desired Occupancy Setting is displayed, press the [*] key to select it.
- Step 5 Scroll to 'Setting Temp.' then press the [*] key to select the option.
- Step 6 Scroll to 'Heat Temp.' then press the [*] key to select the option.
- Step 7 The keypad will display the following:

Temp. is 72° <> 68° Heat	Use the arrow keys $(<>)$ to select the desired temperature then press the [*] key to save and exit.
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Step 8 – Scroll to 'Cool Temp.' then press the [*] key to select the option. Step 9 – The keypad will display the following:

Temp. is 72°	<>	
74° Cool		

Use the arrow keys (<>) to select the desired temperature then press the [*] key to save and exit.

Continue these steps to set the temperature set points for the other Occupancy Settings being used in the installation.

Programming the Temperature Set Points for an Occupancy Setting using the Escort

On any local, touch tone telephone, enter the Local/Remote Access Code - [*] [*]

Step 1 – Press [*] [5] [2] for Temperature Control

Escort will announce: 'For Individual Thermostat Control, press [1]'

Step 2 – Press [1] for Thermostat Control

Escort will announce: 'The

'Thermostat XX' 'Interior Temperature is XX degrees' 'Exterior Temperature is XX degrees' 'The Occupancy Setting is Auxiliary/Day/Away/Night' 'The Fan is On/Automatic'

'To set Temperature, press [1]' 'For Occupancy Setting, press [2]' 'For Thermostat Setting, press [3] 'For Fan Control, press [4]'

Step 3 – Press [2] for Occupancy Setting Setting

The Escort will announce the present Occupancy Setting. Press the [1] key until the desired Occupancy Setting is announced, then press the [#] key to save and exit.

Step 4 – Press [1] to Set the Temperature

The Escort will announce:	'Cool Temperature is XX Degrees'
	'Heat Temperature is XX Degrees'
	'To change Cool Temperature, press [1]'
	'To change Heat Temperature, press [2]'

Step 5 – Press [1] to Set the Cool Temperature

The Escort will ask you to enter a two-digit number for the new Cool Temperature set point. After it is entered, the Escort will read back the new temperature set point.

Step 6 – Press [2] to Set the Heat Temperature

The Escort will ask you to enter a two-digit number for the new Heat Temperature set point. After it is entered, the Escort will read back the new temperature set point.

Continue these steps to program the temperature set points for all the different Occupancy Settings being used.

Escort5580TC and EMS-100 – Thermostat Output Control

Application: This application will provide an example for setting the temperature depending on the armed status of the panel. The Escort will change the temperature to the programmed setting when the panel is armed in the Stay or Away setting, or when disarmed.

Equipment:

- Power 832 v2.x or greater
- LCD5500 v2.1 or greater (optional)
- Escort5580TC Module
- EMS-100 Thermostat
- EMS-ITS Internal Temperature Sensor (optional)
- EMS-OTS Outdoor Temperature Sensor (optional)

Special Notes:

- 1. The Application Note assumes that the EMS-100 will be used to control both heating and cooling.
- 2. The user cannot 'temporarily' change the temperature. Any time the user manually changes the temperature set point for an Occupancy Setting, it will change to the new setting.

Program Sections:	Escort Section [800]	- Thermostat 1 Options
	Escort Section [803]	- Thermostat 1 Day Setting Output Option
	Escort Section [804]	- Thermostat 1 Day Setting PGM Output
	Escort Section [808]	- Thermostat 1 Night Setting Output Option
	Escort Section [809]	- Thermostat 1 Night Setting PGM Output
	Escort Section [818]	- Thermostat 1 Away Setting Output Option
	Escort Section [819]	- Thermostat 1 Away Setting PGM Output
	Panel Section [010], [143]	- PC5208 PGM Output Programming

Procedure:

For information regarding how the Escort is programmed, please refer to the Escort5580TC Installation Manual.

Step 1 – Thermostat 1 Options – Escort Section [800]

- Turn Option [01] ON to enable the thermostat.
- Turn Option [02] ON if an EMS-OTS outdoor temperature sensor is connected.
- Turn Option [03] ON if the thermostat will be used to control heating.
- Turn Option [04] ON if the thermostat will be used to control cooling.
- Turn Option [05] ON so the Day Occupancy Setting will always activate by output control.
- Turn Option [06] ON so the Night Occupancy Setting will always activate by output control.
- Turn Option [07] OFF as the Aux Occupancy Setting will not be used.
- Turn Option [08] ON so the Away Occupancy Setting will always activate by output control.

Step 2 – Thermostat 1 Day Occupancy Setting Output Option – Escort Section [803]

Program data [01] for output control only. The user will always have manual control as well.

Step 3 - Thermostat 1 Day Occupancy Setting PGM Output – Escort Section [804]

Program data [03]. The Escort will adjust the temperature to the value programmed for the Day Occupancy Setting when PGM Output [03] is activated by the panel.

Step 4 – Thermostat 1 Night Occupancy Setting Output Option – Escort Section [808]

Program data [01] for output control only. The user will always have manual control as well.

Step 5 - Thermostat 1 Night Occupancy Setting PGM Output – Escort Section [809]

Program data [05]. The Escort will adjust the temperature to the value programmed for the Night Occupancy Setting when PGM Output [05] is activated by the panel.

Step 6 – Thermostat 1 Away Occupancy Setting Output Option – Escort Section [818]

Program data [01] for output control only. The user will always have manual control as well.

Step 7 - Thermostat 1 Away Occupancy Setting PGM Output – Escort Section [819]

Program data [04]. The Escort will adjust the temperature to the value programmed for the Away Occupancy Setting when PGM Output [04] is activated by the panel.

Step 8 – PGM Output 03 to 10 Programming – Panel Section [010], [143]

Three different outputs are needed; stay arm, away arm and disarm. To get an output to activate for disarm status, we must 'invert' an output programmed for armed status.

Section [010] - Program the following:

PGM 03	data [05]	data [05] for 'Armed Status'
PGM 04	data [17]	data [17] for 'Away Arm'
PGM 05	data [18]	data [18] for 'Stay Arm'

Section [143] – Program the following:

Turn Option [1] ON	enable partition 1
Turn Option [2] ON	enable partition 2
Turn Option [3] OFF	will 'invert' the output – instead of activating when
	the panel is armed, the output will activate when the
	panel is disarmed.

Operation: When the panel is armed in the 'stay' setting, the panel will activate PGM Output [05] and the Escort will adjust the temperature to the value programmed for the Night Occupancy Setting. When the panel is armed in the away setting, the panel will activate PGM Output [04] and the Escort will adjust the temperature to the value programmed for the Away Occupancy Setting. When the panel is disarmed, the panel will activate PGM Output [03], and the Escort will adjust the temperature to the value programmed for the Day Occupancy Setting.

Escort5580TC and EMS-100 - Thermostat Scheduling Control

Application: Typical home installation with one thermostat. This application will provide an example for setting the temperature by schedule. The Escort will automatically change the temperature to the programmed setting at 8:00 am and 11:00 pm.

Equipment:

- Power 832 v2.x or greater
- LCD5500 v2.1 or greater (optional)
- Escort5580TC Module
- EMS-100 Thermostat
- EMS-ITS Internal Temperature Sensor (optional)
- EMS-OTS Outdoor Temperature Sensor (optional)

Special Notes:

- 1. The Application Note assumes that the EMS-100 will be used to control both heating and cooling.
- 2. The user cannot 'temporarily' change the temperature. Any time the user manually changes the temperature set point for an Occupancy Setting, it will change to the new setting.

Program Sections:	Escort Section [030] to [032]	- Schedule [01] Programming
-	Escort Section [033] to [035]	- Schedule [02] Programming
	Escort Section [800]	- Thermostat 1 Options
	Escort Section [801]	- Thermostat 1 Day Setting Schedules
	Escort Section [803]	- Thermostat 1 Day Setting Output Option
	Escort Section [806]	- Thermostat 1 Night Setting Schedules
	Escort Section [808]	- Thermostat 1 Night Setting Output Option

Procedure:

For information regarding how the Escort is programmed, please refer to the Escort5580TC Installation Manual.

Step 1 – 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. The new temperature will be set when the schedule is activated (On Time) so no Off Time is required. Schedule [01] will be used for the Day Occupancy Setting (starting at 8:00 am) and will be programmed as follows:

- Program data [0800] in Section [030] (8:00 am On Time)
- Program data [9999] in Section [031] (no Off Time is required)
- Turn Options [01] through [07] ON in Section [032] to enable all days of the week.

Step 2 – Schedule [02] Programming – Escort Section [033] to [035]

Schedule [02] will be used for the Night Occupancy Setting (starting at 11:00 pm) and will be programmed as follows:

- Program data [2300] in Section [033] (11:00 pm On Time)
- Program data [9999] in Section [034] (no Off Time is required)
- Turn Options [01] through [07] ON in Section [035] to enable all days of the week.

Step 3 – Thermostat 1 Options – Escort Section [800]

- Turn Option [01] ON to enable the thermostat.
- Turn Option [02] ON if an EMS-OTS outdoor temperature sensor is connected.
- Turn Option [03] ON if the thermostat will be used to control heating.
- Turn Option [04] ON if the thermostat will be used to control cooling.
- Turn Option [05] ON so the Day Occupancy Setting will always activate by schedule.
- Turn Option [06] ON so the Night Occupancy Setting will always activate by schedule.
- Turn Option [07] and [08] OFF as the Away and Auxiliary Occupancy Settings are not being used.

Step 4 – Thermostat 1 Day Occupancy Setting Schedule Assignment – Escort Section [801]

Turn Option [01] ON for the Day Occupancy Setting to follow Schedule [01].

Step 5 – Thermostat 1 Day Occupancy Setting Output Option – Escort Section [803]

Program data [02] for schedule control only. The user will always have manual control as well.

Step 6 – Thermostat 1 Night Occupancy Setting Schedule Assignment – Escort Section [806]

Turn Option [02] ON for the Night Occupancy Setting to follow Schedule [02].

Step 7 – Thermostat 1 Night Occupancy Setting Output Option – Escort Section [808]

Program data [02] for schedule control only. The user will always have manual control as well.

Operation: At 8:00 am, every day, the Escort will adjust the temperature to the value programmed for theDay Occupancy Setting and at 11:00 pm the Escort will adjust the temperature to the value programmed for the Night Occupancy Setting.

Power 832 Application Notes – ESCORT Module

Operation: The PC5580 ESCORT module will turn any touch tone telephone, either local or remote, into a fully functional keypad.

Applications:

- 1. Reduce the number of keypads required for a system.
- 2. ESCORT talks in clear, easy to understand sentences. Helps to guide a user through all functions and features and will provide 'talking' confirmation of key presses.
- 3. Allows a user to check the status of the system, as well as arm and disarm for maintenance people while on vacation or at the office.

Special Notes:

- 1. All ESCORT programming is done through an on-site touch tone telephone or via the downloading software.
- 2. To program labels into the ESCORT, refer to Application Notes ESCORT Module Labels.
- 3. If a phone line trouble is present, the ESCORT will provide a 20 mA loop current so that the system can still be accessed through a local phone.

Program Sections:	ESCORT Section [001]	- Service Code
	ESCORT Section [002]	 First System Options
	ESCORT Section [003]	– Status Prompt Mask
	ESCORT Section [004]	 Star Function Prompt Mask
	ESCORT Section [005] to [006]	 Local Programming Lockout
	ESCORT Section [020]	- Local/Remote Phone Access Code
	ESCORT Section [021]	 Phone Access Options

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 – Service Code – ESCORT Section [000]

Enter a new 4 digit ESCORT Service Code.

Step 2 – First System Options – ESCORT Section [001]

This Section is used to select which Partitions can be accessed. To allow the user to access Partition 1, turn Option [1] ON. To allow the user to access Partition 2, turn Option [2] ON.

Step 3 – Status Prompt Mask – ESCORT Section [002]

Certain messages can be deleted from the ESCORT to help reduce confusion to the end user. Turn the corresponding Option OFF to disable unwanted messages.

Step 4 – Star Function Prompt Mask – ESCORT Section [003]

Certain [*] function messages can be deleted from the ESCORT if they are not applicable to the installation. For example, if auto arming is not being used, deleting these messages can help reduce confusion and unwanted questions. Turn the corresponding Option OFF to disable unwanted messages.

Step 5 – Local Programming Lockout – ESCORT Section [005] to [006]

The ESCORT can be programmed to 'lockout' after an incorrect number of Service Codes are entered. Program the number of incorrect Service Codes required to cause 'lockout' in Section [005] and the number of minutes for the 'lockout' duration in Section [006]. While in 'lockout' the ESCORT will not allow local programming, even if the correct Service Code is entered.

Step 6 – Local/Remote Phone Access Code – ESCORT Section [020]

Certain answering machines use the [*] key as a function key and may interfere with the [*] [*] [*] command required to turn the ESCORT on. Reprogram the Local/Remote Access Code if this is the case. Ensure that at least one [*] or [#] is in the code.

Step 7 – Phone Access Options – ESCORT Section [021]

This Section is used to determine access to the ESCORT. If only local access is required, turn Option [1] ON. If both local and remote access is required, turn Option [1] OFF.

A valid access code is always required to access the ESCORT remotely. If you want an access code to be required to access the ESCORT locally, or if the system has two Partitions and you need access to both via the ESCORT, turn Option [2] ON. If the system has one Partition and an access code is not required for local access, turn Option [2] OFF.

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 (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 of 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 (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] ESCORT Section [007]	 First System Options 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.