

Auto Sentry[®] **CPT**

Central Payment Terminal

Installation Guide - Version 1.0



Defining the World of Car Wash Technology

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CHAPTER 1: Introduction

This document was written for installation technicians and electricians. A thorough understanding of electrical wiring, installation, local regulations, and safety protocols is required. No prior experience with the Auto Sentry® CPT is required.

Purpose

This guide is provided to assist you during installation of the Auto Sentry® CPT. This guide should be supplied to the electrician prior to the installation of cable and wiring to ensure the Auto Sentry® CPT system is installed properly.

Faulty installations are the major cause of system malfunctions. The Auto Sentry® CPT system must be installed exactly as described in this manual to ensure its reliability and proper operation.

WARNING: Failure to properly install the Auto Sentry® CPT system will void the warranty and could result in serious injury or death.

Many of the features you will find in the Auto Sentry® CPT system were integrated at the request of current car wash operators. We welcome your feedback and want to assure you that PSD Codax will always remain the best in the industry in car wash controller and management systems.

By reading the information and performing the procedures in this manual you should be able to:

- Install the Auto Sentry® CPT system level wiring
- Install the Auto Sentry® CPT communications wiring
- Troubleshoot problems if they occur

Rules for Installation

Before you begin, please read this entire manual.

WARNING: Imminent danger exists of electrical shock if the terminal is not installed by a certified electrical contractor.

- ALL wiring must meet local standards for electrical installation regulations.
- Cables can be contained in rigid PVC conduit or metal conduit.
- High-voltage (AC) and low-voltage (DC) must not be combined in a common conduit, junction box, or wire trough.
- Power for the Auto Sentry® CPT and any peripherals must come from the Power Distribution Box or dedicated UPS, as supplied by PSD Codax.

- Power for the Auto Sentry® CPT unit is conditioned from the PSD Codax Power Distribution Box. The heat exchanger power is not conditioned.
- The Auto Sentry® CPT and peripheral equipment must be properly earthed. See “Auto Sentry® CPT Measurements (Front View)” on page 15 for more information.
- Examine all boxes and cartons before disposing of them for manuals, cables, connectors, and other miscellaneous parts.

Related Documents

The following document is available for further reference:

- *Auto Sentry® CPT User Manual*

Environmental Statement

PSD strive to create top quality products that minimize impact on the environment. We work with all our partners to produce products that are in compliance with the relevant environmental regulations and legislation.



We also recognize our responsibility to minimize the quantity of electrical and electronic waste reaching landfill. For this reason, we encourage reuse or responsible disposal of waste electronic and electrical equipment (WEEE). All applicable products are marked with the crossed out wheeie bin label to indicate the need for responsible disposal.

CE Marking



The Auto Sentry® CPT is CE Certified. CE is a certification mark that indicates the conformity with health, safety, and environmental protection standards for products sold within the European Economic Area.

Warning Markings

The symbol below (found on equipment and hardware) indicates you should consult accompanying documentation before proceeding.



WARNING: Consult accompanying documentation before proceeding.

Cleaning

Wipe exterior of unit with damp cloth to clean. Do not use chemicals or cleaning agents.

Inspection Information

Preventative maintenance involves an inspection of the Auto Sentry® CPT unit daily for loose connections or damage by untrained or skilled operator.

Training and Support

Contact PSD Codax for additional training and support.

Wiring Colour Codes

The following table displays the harmonised core cable colours for electrical installation.

Alpha Code	Wire Type	Wire Colour
L	Live	Brown
N	Neutral	Blue
E	Earth	Green/Yellow

Table 1: Wiring Colour Codes

CHAPTER 2: Site Planning and Installation

Careful planning for the layout of the site will help eliminate possible problems with the start-up of your system and will ensure continued, reliable system operation.

Location

- The Auto Sentry® CPT unit has been designed to operate in an outdoor environment.
- The unit itself contains three hinged-panel doors. The unit must be located with enough clearance for the doors to open easily, without interfering with access.
- The unit must be located so that conduit connections can be easily made and the internal components can be accessed.

Dimensions, Measurements, and Ratings Specifications

The following table is for the Auto Sentry® CPT unit:

Dimension	Amount	Notes
Width	80 cm	—
Height	80 cm	—
Depth	63.8 cm	—
Weight	127 kg	—
Operating Temp.	-29 °C to 60 °C	—
Frequency	50/60 Hz	—
Supply Voltage	240V AC	Intended for permanently connected supply.
Max. Amps.	6 Amps @ 240V AC	—
IP Rating	IP66	Enclosures constructed for either indoor or outdoor to provide a degree of protection against falling dirt, rain, sleet, snow, windblown dust, splashing water, and hose-directed water that will be undamaged by the external formation of ice on the enclosure. Including protection against corrosion.

Table 2: Dimensions, Measurements, and Ratings Specifications for the Auto Sentry® CPT

Auto Sentry® CPT Power Requirements

- When mounting the unit, minimum clearances must meet local regulations.
- Electrician must provide a dedicated 240 V AC, 20 Amp circuit to the PSD Codax Power Distribution Box. This dedicated circuit must supply the UPS, and then provide conditioned power to the Auto Sentry® CPT.
- Electrician must provide a separate dedicated 240 V AC, 15 Amp circuit to the Auto Sentry® CPT to power the heat exchangers.
- The unit must be properly earthed. See “Earthing” on page 14 for more information.

Cable Sizing

Each installation will vary depending on what type of cable is used, the load (Amps), how long is the cable run, what type of building construction, the environment, and how many other cables are installed. Therefore, cable sizing would be decided and calculated to be site / installation specific. To determine cable size needed, the electrical contractor will refer to the electrical regulations book and make a decision for the best installation.

Cable Plan Guidelines

- All conduit must be rigid PVC or metal.
- All conduit runs should meet local regulations. Conduits shall be properly connected and securely fastened to the boxes with listed conduit hubs, and should be tightened to the torque specs of the manufacturer.
- High-voltage (AC) and low-voltage (DC) must not be combined in a common conduit, junction box, or wire trough.
- Use wiring ties and wire clamps inside unit to contain wires.

CONDUIT PLAN

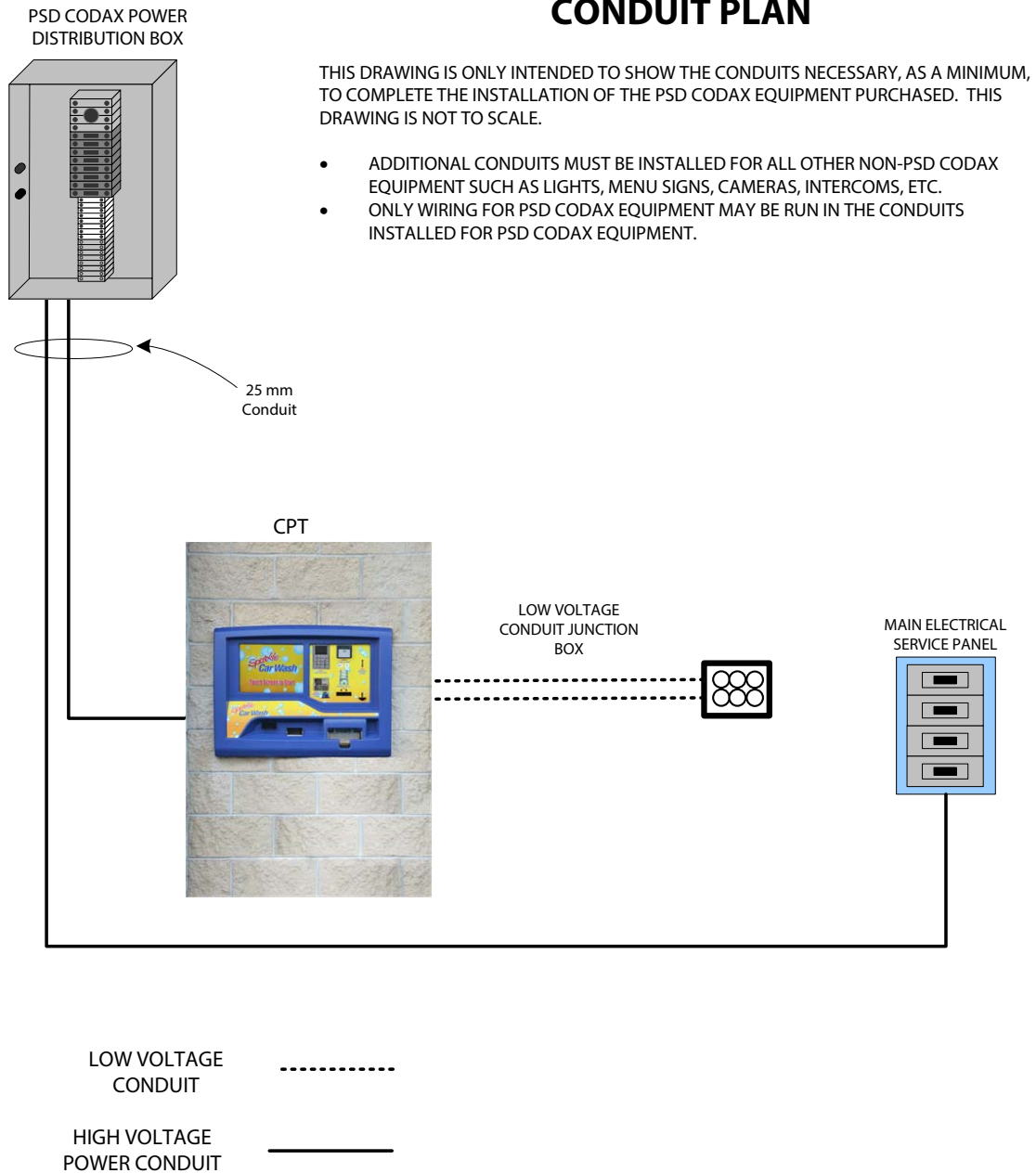


Figure 1. Conduit Plan

Earthing

The Auto Sentry® CPT and peripheral equipment must be properly earthed.

Earthing to Local Regulations

Proper earthing is an extremely important part of the system installation. Earthing for all system devices should be wired to the breaker panel earth clamp bar which, in turn, should be earthed to an earthing rod. It is recommended that the neutral and earth clamp bars be bonded together when it is not prohibited by local regulations.



The universal earthing symbol identifies the earthing terminal located in the upper left chamber, bottom left side near terminal blocks. A second earthing terminal is marked and located in the base, bottom left. This is the dedicated 240 V line for the heat exchanger.

WARNING: Earth wire must be connected to the earth terminals. Failure to properly earth the unit could result in unit failure and/or bodily injury.

IMPORTANT: Improper earthing will void equipment warranty.

Auto Sentry® CPT Measurements (Front View)

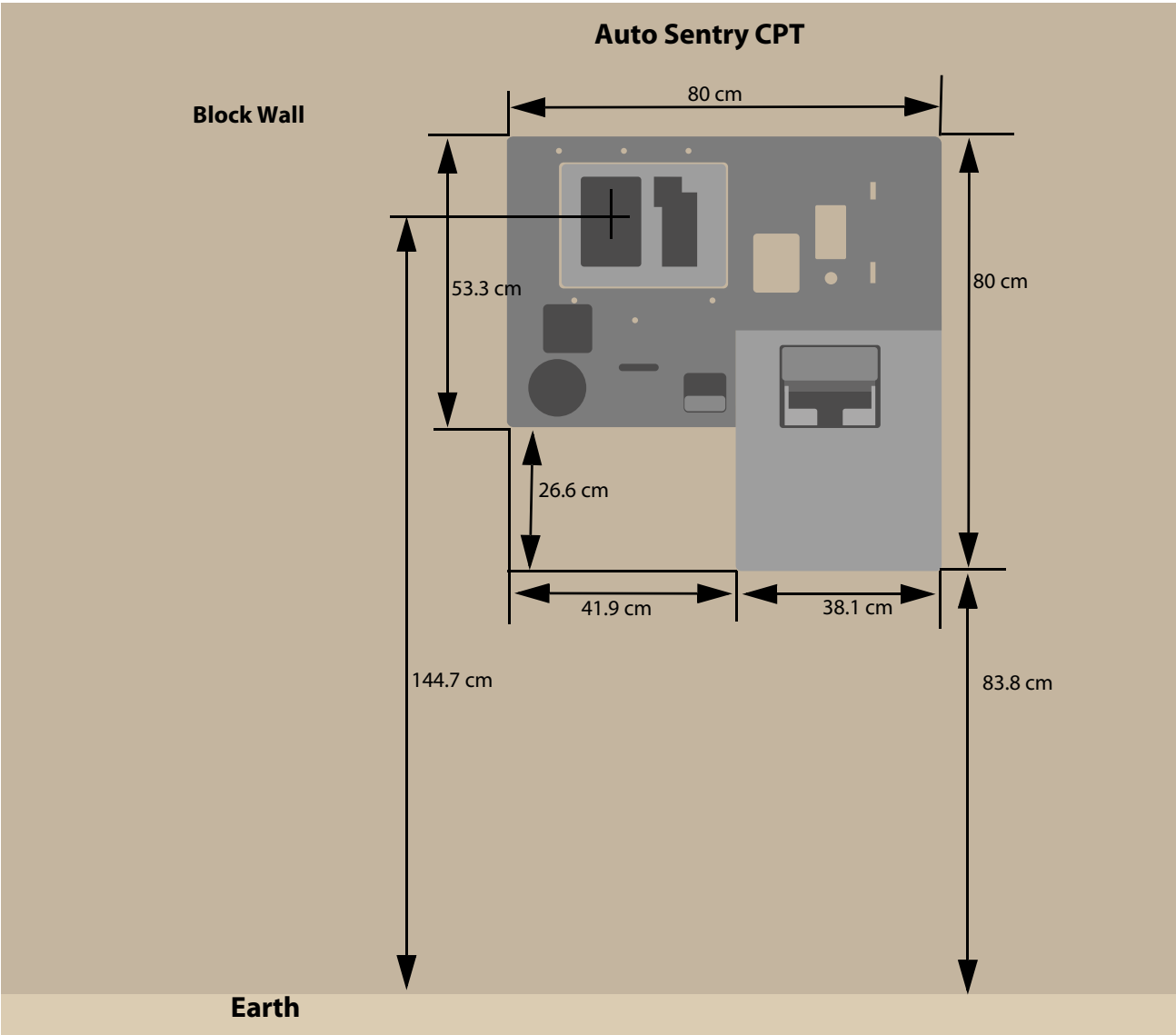


Figure 2. Auto Sentry® CPT Measurements (Front View)

Auto Sentry® CPT Installation

The Auto Sentry® CPT was designed to be installed securely in an existing block wall, where the outside wall is where customers use the Auto Sentry® CPT, and the inside of the wall, you can access the Auto Sentry® CPT from a room with a locked door. The hole needs to be cut using the measurements in Figure 3. These measurements will assure you that the plastic cover will mask the gap from the rough opening in the block wall.

If you are installing the Auto Sentry® CPT in a thinner type of wall that is not strong enough to hold the weight of the Auto Sentry® CPT like aluminum or similar type of wall, consider a strong metal table or similar to hold the weight of the Auto Sentry® CPT. Every installation is different and this manual is written assuming you are installing in a block wall.

If you are installing the Auto Sentry® CPT in a thinner wall, such as aluminum, it may not be required for you to cut out the bill dispenser area in the wall as shown in Figure 3.

- 1 Cut the hole in the block wall according to the rough opening measurements in Figure 3.

IMPORTANT: If the wall you are cutting is not a block wall, contact your PSD Codax sales person before cutting the hole.

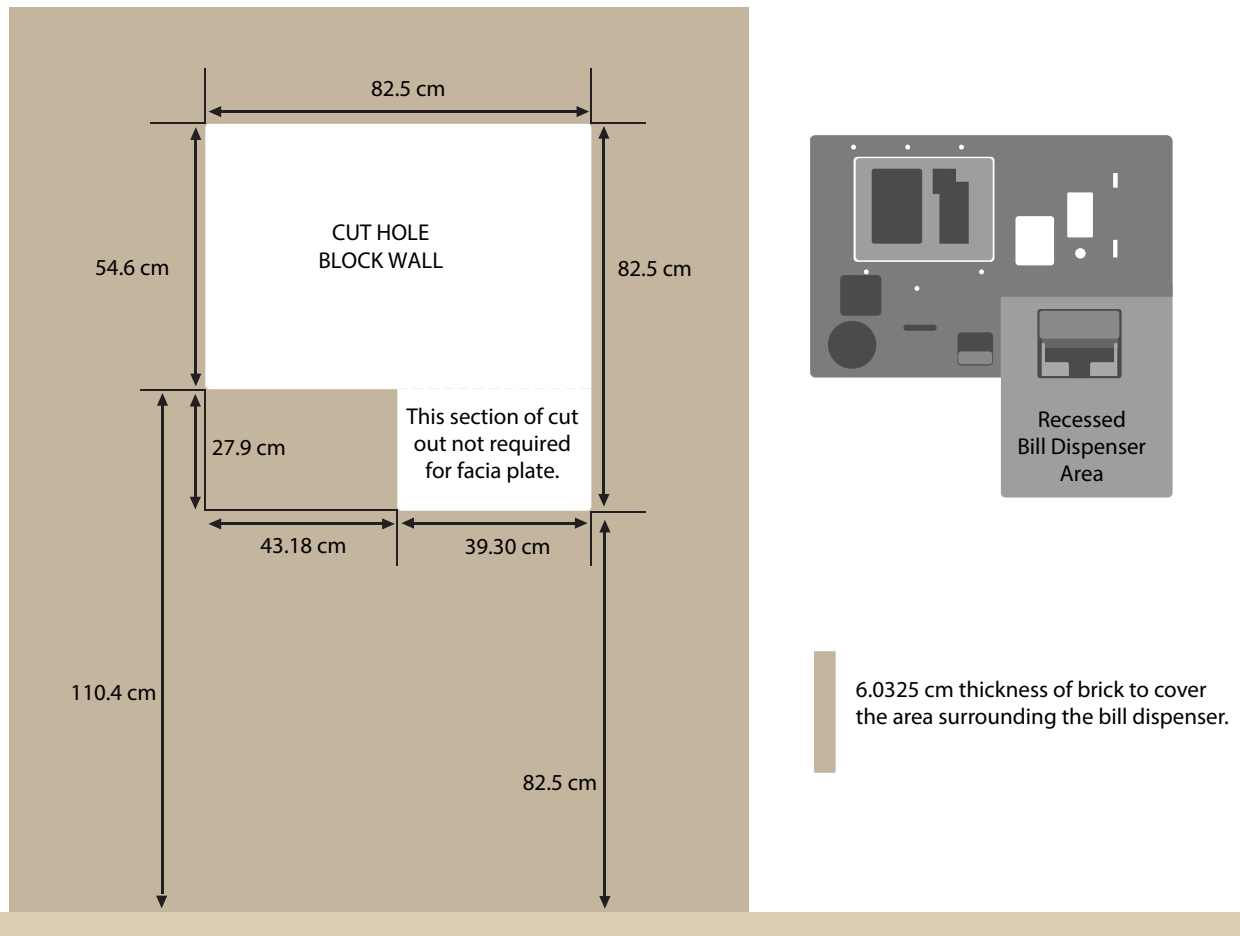


Figure 3. Rough Opening Measurements in block wall for Auto Sentry® CPT

- 2 Place the Auto Sentry® CPT unit snug in the hole in the opening of the block wall.

- 3 From the back of the Auto Sentry® CPT, bolt the Auto Sentry® CPT to the block wall using the flange supplied with the Auto Sentry CPT delivery.
- 4 The rough opening gap can be sealed using grout and expanding foam or similar.
- 5 Cut the face of several blocks at 6.0325 cm thickness. These blocks will be used as a veneer to cover the base of the Auto Sentry® CPT and cover the CPT around the Note Dispenser so it appears to have been built in the block wall.



See Figure 4, "Auto Sentry® CPT Brick Thickness,".

- 6 A mason can set these blocks all around the Note Dispenser return drawer on the base of the Auto Sentry® CPT.
- 7 Install the front plastic cover on the front of the Auto Sentry® CPT.

For more information on wiring your Auto Sentry® CPT:



See Figure 3, "System Wiring," on page 21.



See Figure 4, "Communications Wiring," on page 27.

Auto Sentry® CPT (Side View) Brick Thickness

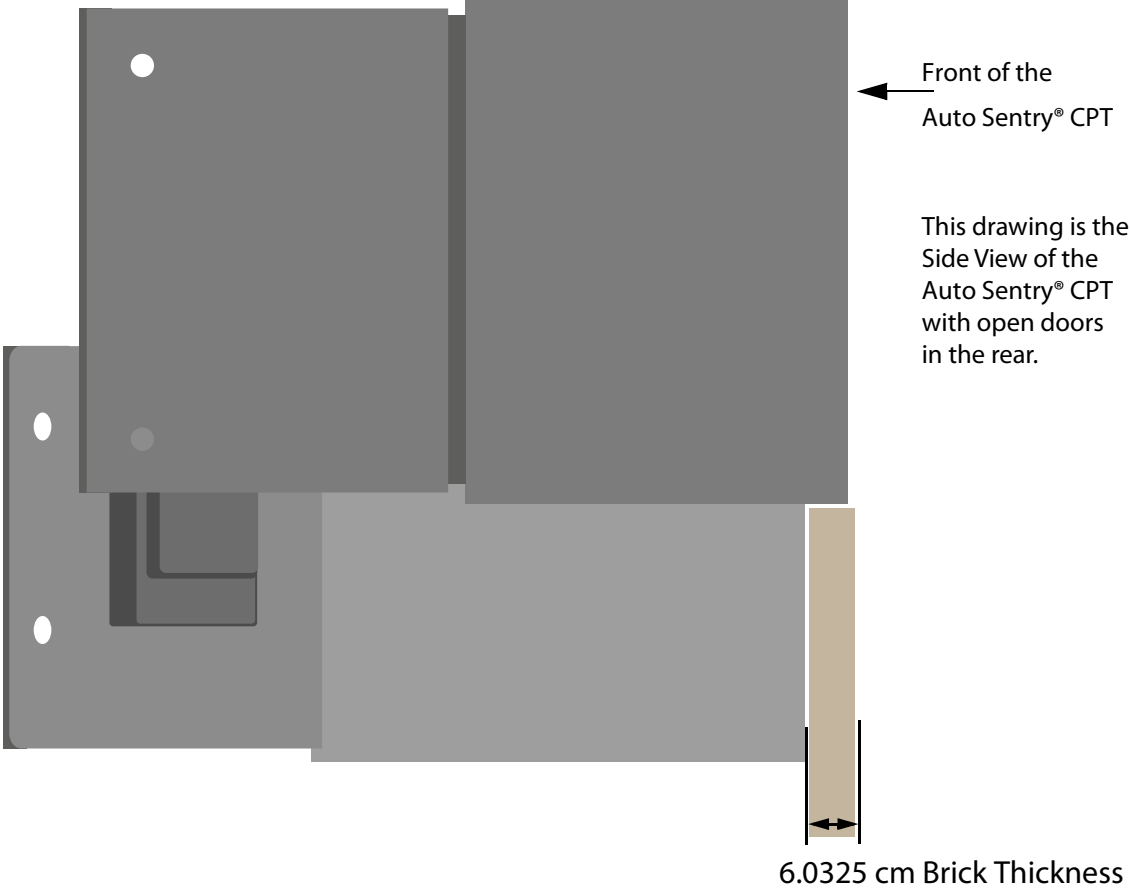


Figure 4. Auto Sentry® CPT Brick Thickness

Auto Sentry® CPT Swing Door Clearance (Top View)

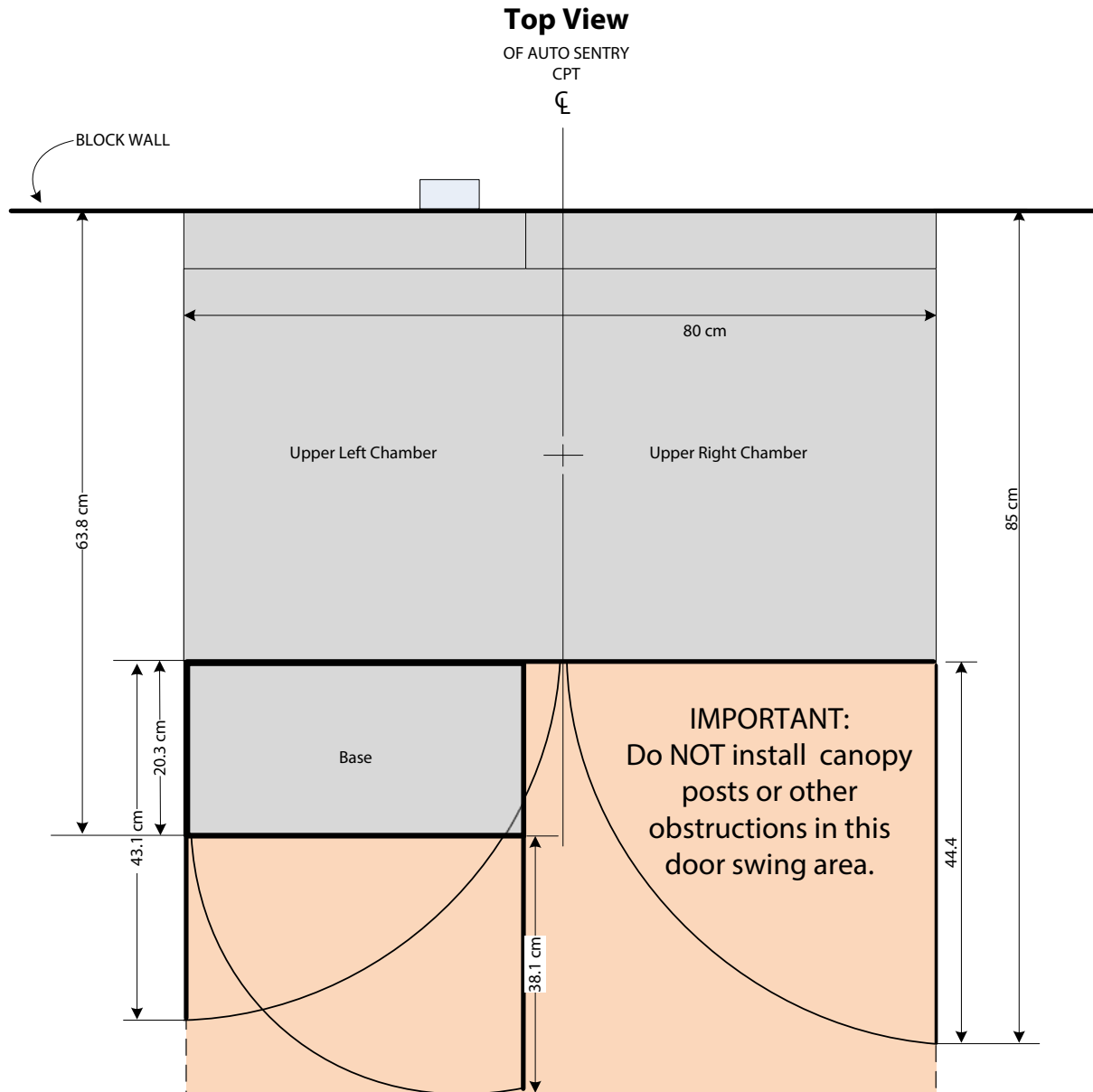


Figure 5. Swing Door Clearance (Top View)

CHAPTER 3: System Wiring

The Auto Sentry® CPT main power input is wired to the terminal block in the rear, upper-left chamber. The heat exchanger power input is also located in the upper-left chamber.

The CPT has the ability to link with differing types of wash equipment and vacuum, for example, Jet Wash Bays, Vacuums, and small commercial auto car wash (In-Bay). The wiring diagrams will vary.

Power Cable Plan with Power Distribution Box

*** THIS DRAWING IS MEANT ONLY TO SHOW THE TYPES OF CABLES THAT MUST BE RUN BETWEEN PIECES OF PSD CODAX EQUIPMENT. THIS DRAWING IS NOT TO SCALE. THE INDIVIDUAL WHO RUNS THE CABLING MUST ENSURE THAT AMPLE CABLE IS AVAILABLE AT EITHER END TO FACILITATE TERMINATION. THE TERMINATION POINTS OF THE CABLES ARE NOT SHOWN ON THIS DOCUMENT. ***

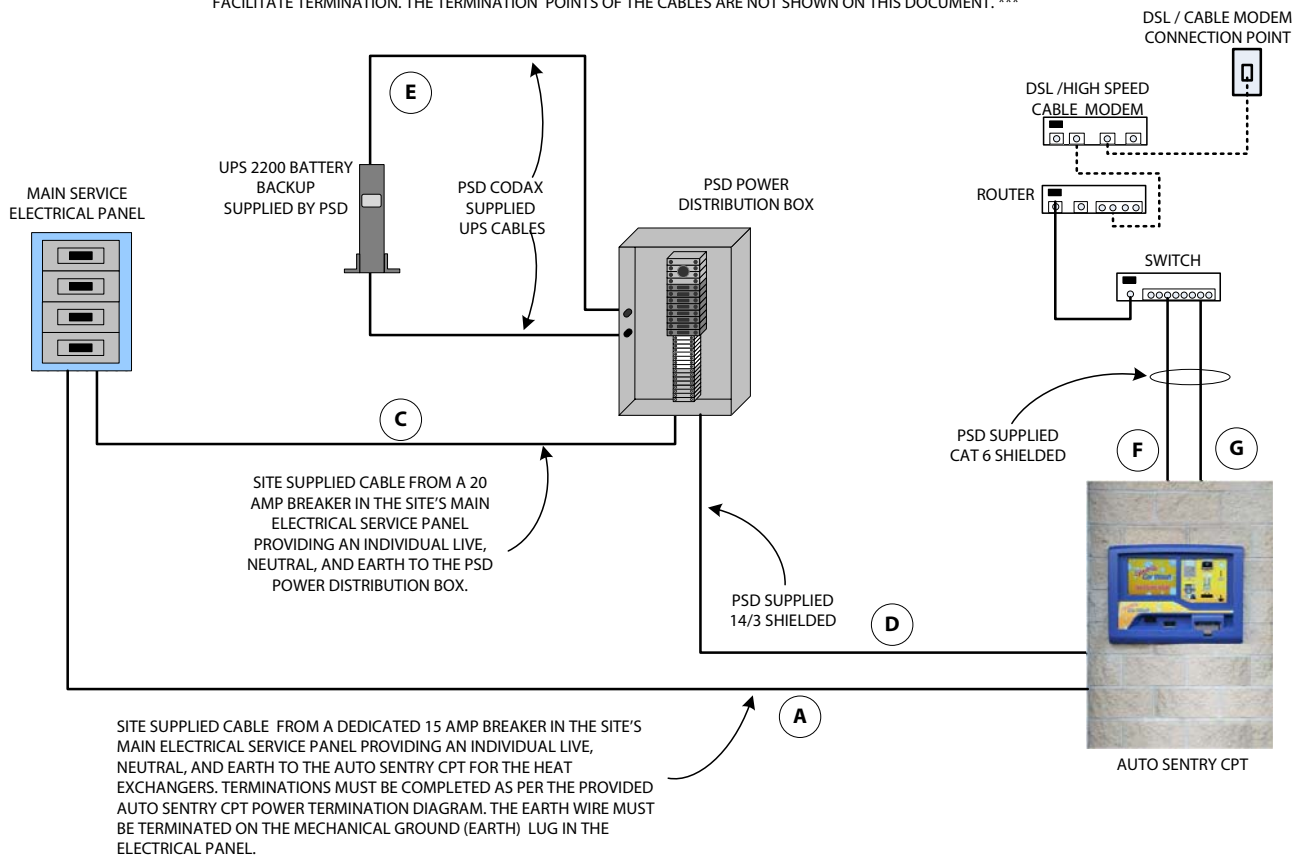


Figure 6. Power Cable Plan with Power Distribution Box

Power Cable Schedule with PSD Power Distribution Box

POWER CABLE SCHEDULE AUTO SENTRY CPT with PSD Power Distribution Box

*** NOTE: The wiring and terminations are the responsibility of the owner, electrician, and/or supplied contractor. Please have an electrician and/or owner supplied contractor complete all of the site's wiring installation and terminations prior to the PSD technician coming on site. All permanent site wiring connections must be performed by a licensed electrician that must comply with all local and national codes.***

KEY	WIRE TYPE	PROVIDED BY	TERMINATION LOCATIONS	TERMINATED BY
A	CABLE	ELECTRICIAN	FROM CPT TO MAIN SERVICE ELECTRICAL PANEL 15 AMP BREAKER (240 VAC)	ELECTRICIAN
C	14/3 SHIELDED	PSD	FROM MAIN SERVICE ELECTRICAL PANEL TO POWER DISTRIBUTION BOX 20 AMP BREAKER (240 VAC)	ELECTRICIAN
D	14/3 SHIELDED	PSD	FROM CPT TO PSD POWER DISTRIBUTION BOX 20 AMP BREAKER (240 VAC)	ELECTRICIAN
E	14/3 SHIELDED 14/3 SHIELDED	PSD PSD	FROM PSD POWER DISTRIBUTION BOX TO UPS 2200 BACKUP BATTERY (240 VAC) FROM UPS 2200 BACKUP BATTERY TO PSD POWER DISTRIBUTION BOX (240 VAC)	ELECTRICIAN ELECTRICIAN
F	CAT 6 SHIELDED	PSD	FROM SWITCH TO CPT NETWORK PORT	ELECTRICIAN
G	CAT 6 SHIELDED	PSD	FROM SWITCH TO CPT FOR CREDIT CARD READER ONLY PORT	ELECTRICIAN

NOTES: ALL WIRING FOR PSD EQUIPMENT TO BE RUN BY AN ELECTRICIAN AND MUST BE A SINGLE CABLE FROM POINT TO POINT. SPLICING OF WIRES IS NOT ALLOWED.

Figure 7. Power Wire Schedule with PSD Power Distribution Box

Power Cable Schedule without Power Distribution Box

POWER CABLE PLAN PSD AUTO SENTRY CPT without PSD Codax Power Distribution Box

*** THIS DRAWING IS MEANT ONLY TO SHOW THE TYPES OF CABLES THAT MUST BE RUN BETWEEN PIECES OF PSD CODAX EQUIPMENT. THIS DRAWING IS NOT TO SCALE. THE INDIVIDUAL WHO RUNS THE CABLING MUST ENSURE THAT AMPLE CABLE IS AVAILABLE AT EITHER END TO FACILITATE TERMINATION. THE TERMINATION POINTS OF THE CABLES ARE NOT SHOWN ON THIS DOCUMENT. ***

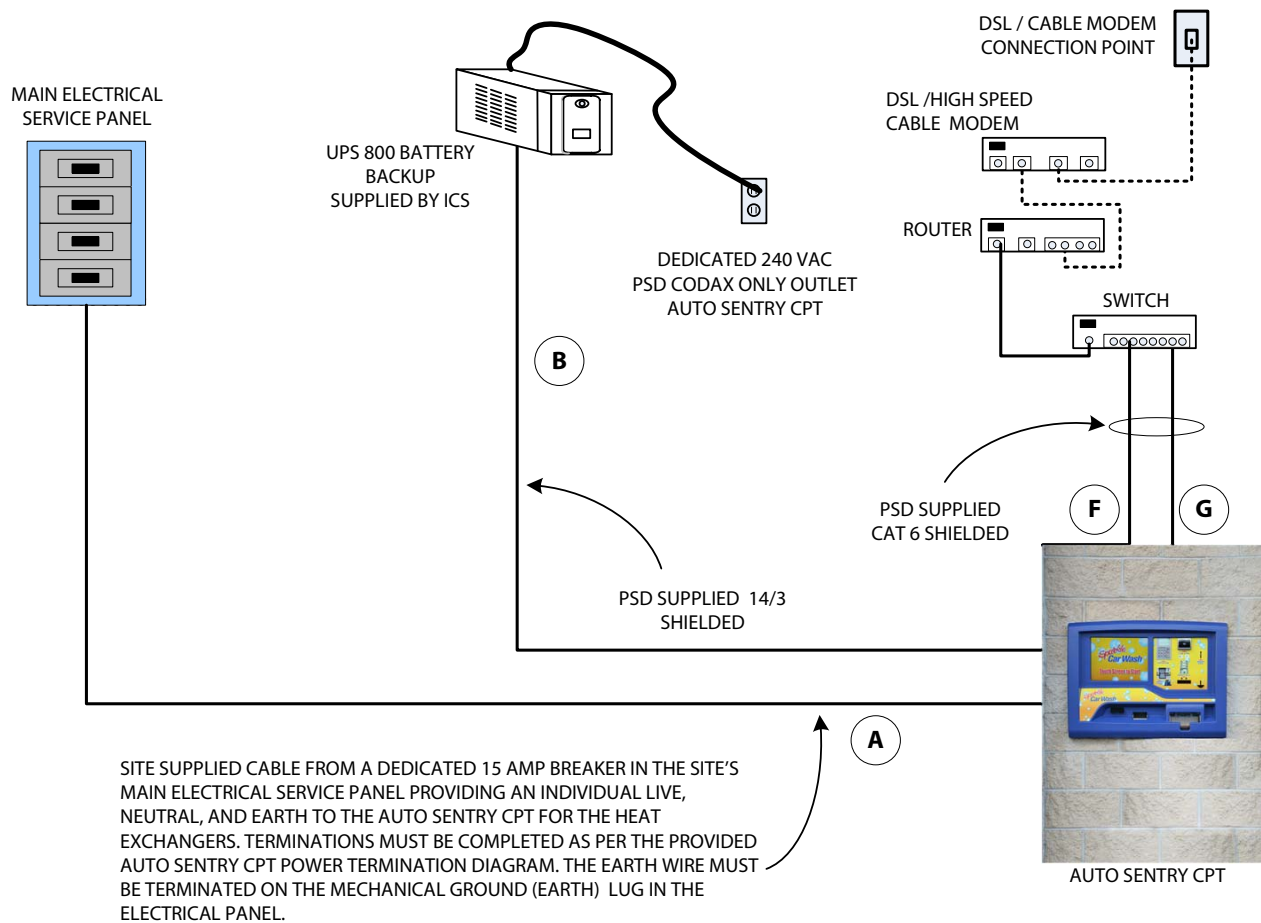


Figure 8. Power Cable Schedule without Power Distribution Box

Power Cable Schedule without PSD Power Distribution Box

*** NOTE: The wiring and terminations are the responsibility of the owner, electrician, and/or supplied contractor. Please have an electrician and/or owner supplied contractor complete all of the site's wiring installation and terminations prior to the PSD technician coming on site. All permanent site wiring connections must be performed by a licensed electrician that must comply with all local and national codes.***

KEY	WIRE TYPE	PROVIDED BY	TERMINATION LOCATIONS	TERMINATED BY
A	CABLE	ELECTRICIAN	FROM CPT TO MAIN SERVICE ELECTRICAL PANEL 15 AMP BREAKER (240 VAC)	ELECTRICIAN
B	14/3 SHIELDED	PSD	FROM CPT TO UPS 800 BACKUP BATTERY (240 VAC)	ELECTRICIAN
F	CAT 6 SHIELDED	PSD	FROM SWITCH TO CPT NETWORK PORT	ELECTRICIAN
G	CAT 6 SHIELDED	PSD	FROM SWITCH TO CPT FOR CREDIT CARD READER ONLY PORT	ELECTRICIAN

NOTES: ALL WIRING FOR PSD EQUIPMENT TO BE RUN BY AN ELECTRICIAN AND MUST BE A SINGLE CABLE FROM POINT TO POINT. SPLICING OF WIRES IS NOT ALLOWED.

Figure 9. Power Cable Schedule without PSD Power Distribution Box

CPT Power Terminations

AUTO SENTRY CPT (Central Payment Terminal) AC POWER TERMINATIONS

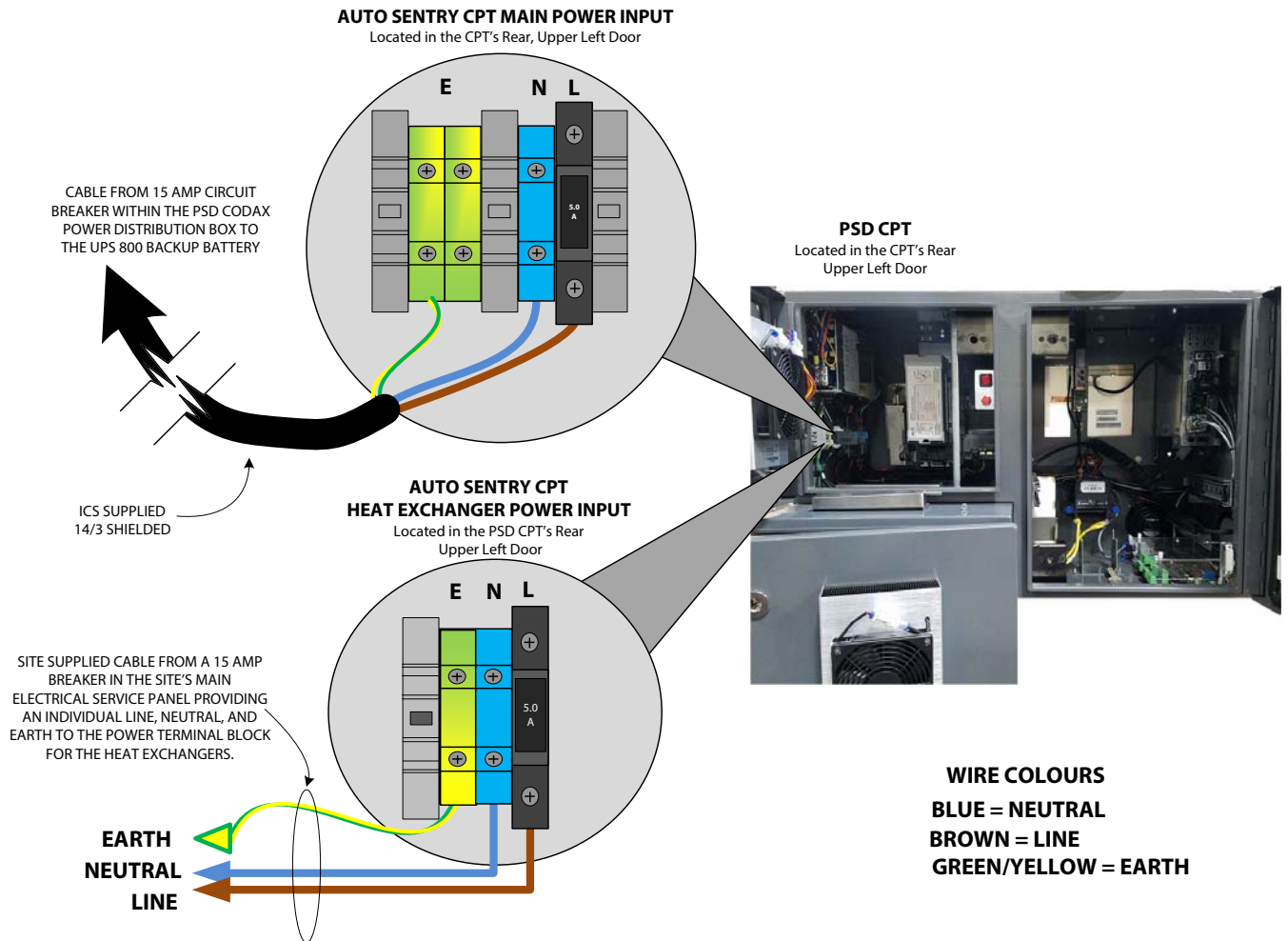


Figure 10. CPT Power Terminations

Auto Sentry® CPT AC Power Terminations

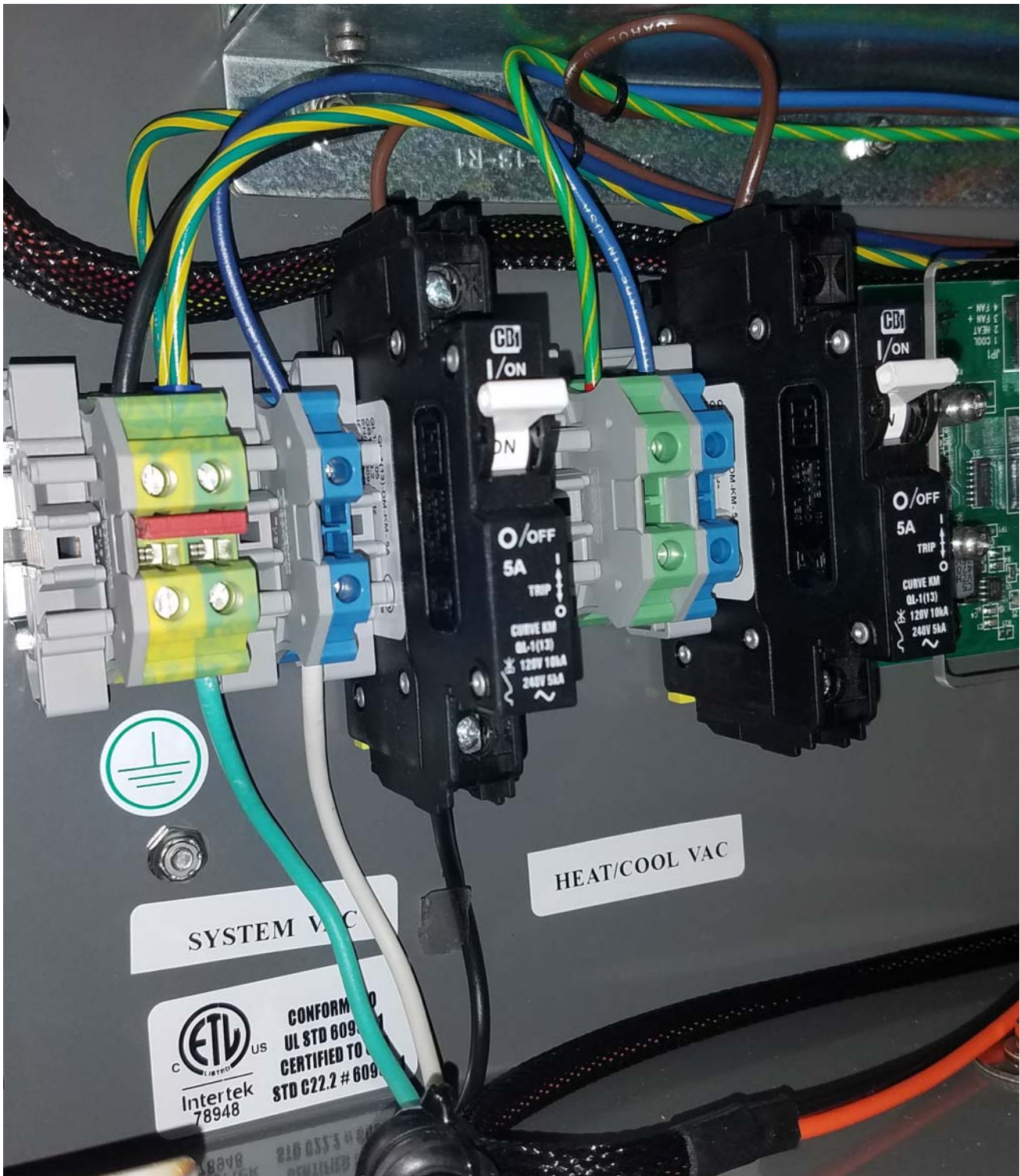


Figure 11. Auto Sentry® CPT AC Power Terminations Photo

CHAPTER 4: Communications Wiring

This section describes wiring for RS-422 and RS-485 communications.

Installation Requirements

- All peripheral equipment connected to the RS-232 ports must be Listed, have local recommended standard RS-232 communications protocol, and not be installed over a hazardous location.
- RS-232 communication must not exceed approximately 30 Metres. RS-232 communication wires must be in a separate PVC conduit from any AC wires.
- Communications equipment signal wires must also be run in separate rigid PVC or metal conduit, separate from any power conduits.

Low Voltage Layout

*** THIS DRAWING IS MEANT ONLY TO SHOW THE TYPES OF WIRING THAT MUST BE RUN BETWEEN PIECES OF PSD CODAX EQUIPMENT. THE INDIVIDUAL RUNNING THE WIRING MUST ENSURE THAT AMPLE WIRE IS AVAILABLE AT EITHER END TO FACILITATE TERMINATION. THE TERMINATION POINTS OF THE CABLES ARE NOT SHOWN ON THIS DOCUMENT THIS DRAWING IS NOT TO SCALE.***

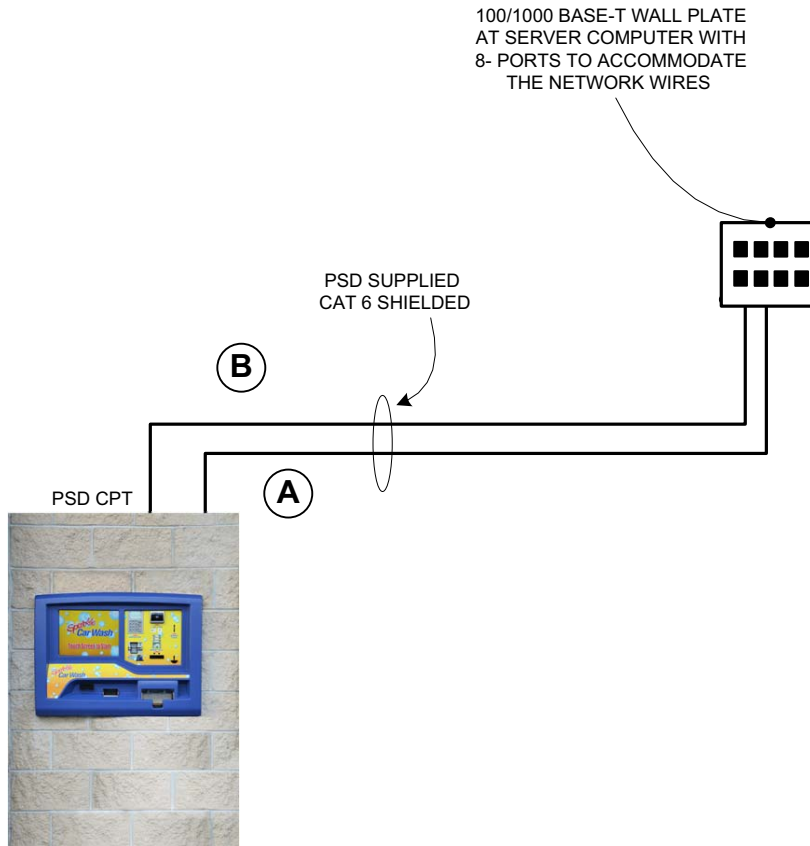


Figure 12. Low Voltage Wire Layout

NETWORK, COMMUNICATIONS AND CONTROL WIRING

IDENTIFIER	WIRE TYPE	PROVIDED BY	TERMINATION LOCATIONS	TERMINATED BY
A	CAT 6 SHIELED	PSD	FROM 100/1000 BASE-T WALL PLATE TO CPT FOR NETWORK	ELECTRICIAN
B	CAT 6 SHIELED	PSD	FROM 100/1000 BASE-T WALL PLATE TO CPT FOR CARD READER	ELECTRICIAN

NOTES: ALL WIRING FOR PSD EQUIPMENT TO BE RUN BY AN ELECTRICIAN AND MUST BE A SINGLE WIRE CABLE FROM POINT TO POINT. SPLICING OF WIRES IS NOT ALLOWED.

Figure 13. Low Voltage Wire Schedule

Port Assignments

Table 3: Port Assignments

Device	Port Type and Location
—	COM Port 1
Note Acceptor	COM Port 2
Coin Acceptor	COM Port 3
Note Dispenser	COM Port 4
SIO Board	COM Port 6
Touch Screen	USB
—	USB
Receipt Printer	USB
Barcode Reader	USB (Virtual COM Port 5)
Coin Hoppers	SIO Board

CHAPTER 5: Parts Identification

This chapter provides details on identifying the Auto Sentry® CPT exterior and interior components and locations. Both exterior and interior components, wires, accessories, and the more items are available for purchase or reorder.

The Auto Sentry® CPT also includes plastic panels to fit the exterior of the metal unit. Panels may be purchased separately.

NOTE: If you cannot find the part in the following diagrams, visit the PSDCodax.com support technical support.

Exterior Auto Sentry® CPT Components

The Auto Sentry® CPT exterior components for the Levago Chip and PIN are displayed in Figure 14.



Figure 14. Exterior Components Auto Sentry® CPT

#	PSD Part Number	Description	#	PSD Part Number	Description
1	AS2TOUCH15Z2	15" touch screen.		OPTIONAL (not shown)	
2		PIN pad.	-	BARCODERDR	Barcode reader. (Optional and additional fees apply.)
3		Levago card reader assembly.	-	BARCODE-HOUSWEDG	Barcode wedge. (Optional and additional fees apply.)
4	ASPRHEC	USB receipt printer.	-	BARCODEHOUSING	Barcode housing. (Optional and additional fees apply.)
5	ASSPEAKER	Speaker for the Auto Sentry.	-	CAMERAASSM1	Camera assembly. (Optional and additional fees apply.)
6		Levago Contactless reader.			
7	AS2COINACC	Coin acceptor and return cup.			
8	AS3BILLACCU	Note acceptor, upstacker.			
9	AS2COINACC	Coin return cup.			
10	AS2COINFLIP	Coin return cup with flip door.			
11	AS2BILLDISPFLIP	Note cup return flip door.			

Table 4:

Interior Components Upper-left Chamber

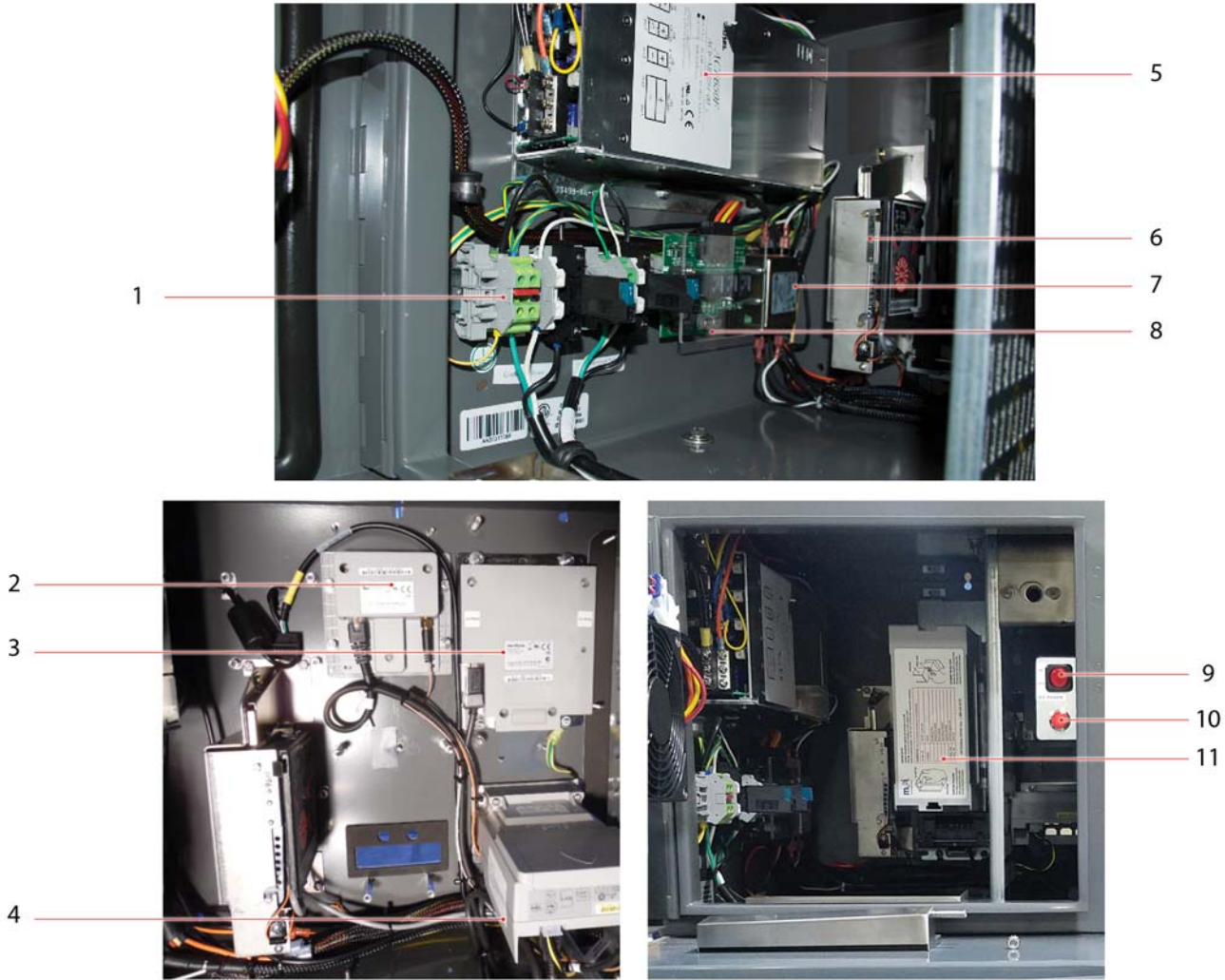


Figure 15. Interior Components Upper-left Chamber

#	PSD Part Number	Description	#	PSD Part Number	Description
1	AS2TERMB	Terminal blocks. (not shown)	6	AS2COINACC	Coin acceptor (return cup not shown.)
	AS2TERMBRK10	10-Amp fuses. US.	7	ASEMIFILTER	EMI filter for AC V.
	AS2TERMBRK6	6-Amp fuses. US.			
	BREAKER5AMP	5-Amp fuses. EU.			
	AS2TERMBLOCK-GND	(2 or 3) Terminal block, earth.	8	H/CCONTROLBD	Heater/cooler control board.
	AS2TERMBLOCKW	(2) Terminal block, AC, white.			
2	CONTREADUS	Contactless Tap N Go reader.	9	ASPSSWITCH	AC Power switch, illuminated.
3		PIN Pad.	10	ASPUSHBUT	Push button for service screen access.
4	CARDREADUS	Card reader assembly with cable.	11	AS3BILLACCU	Note acceptor, upstacker.
5	AS2PWRC	Power supply +5 +12 +24 +36 V DC			

Table 5: Interior Components Upper-left Chamber Chip and PIN

Interior Components Upper-Right Chamber (without tray)

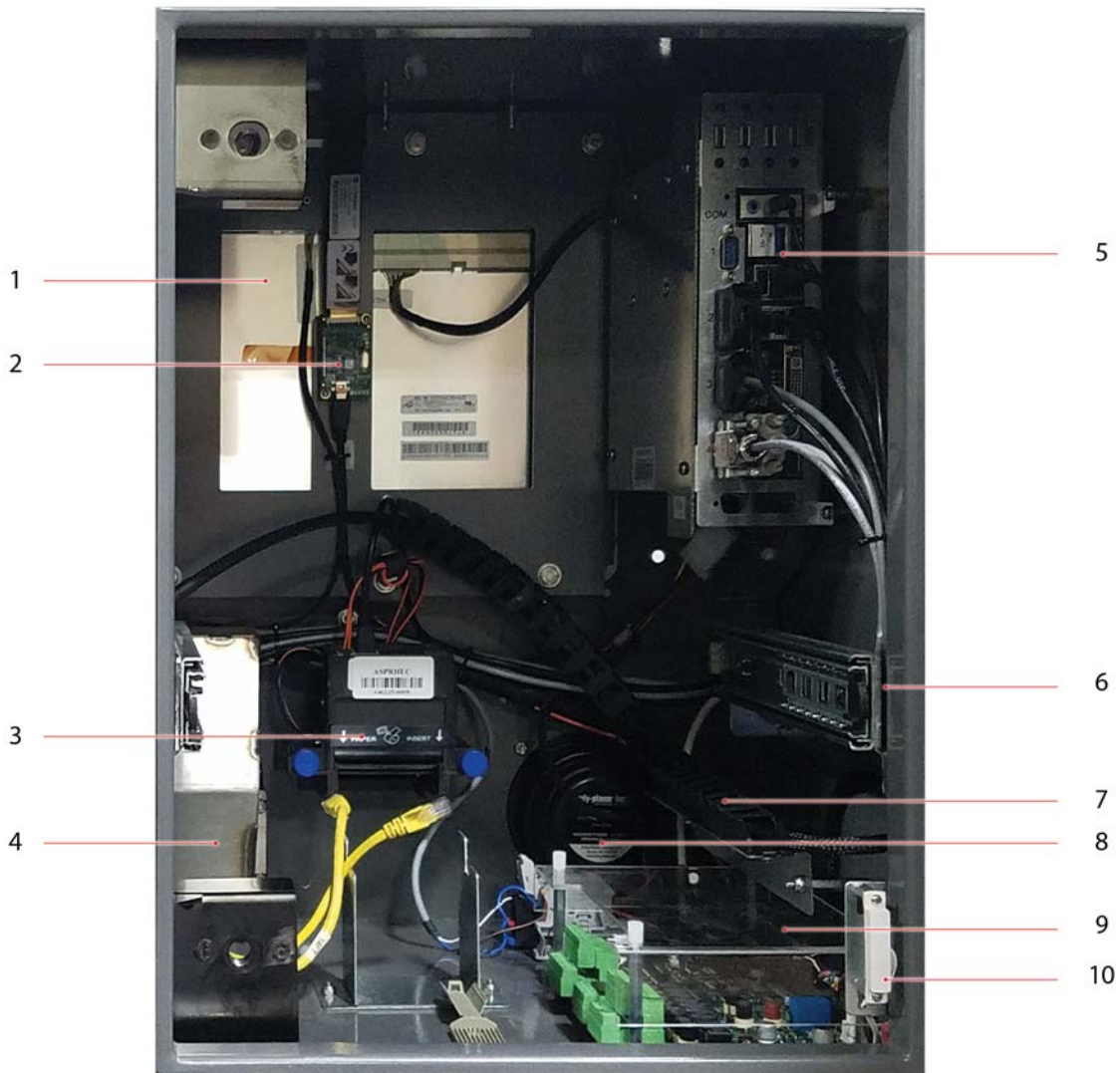


Figure 16. Interior Components Upper-Right Chamber

#	PSD Part Number	Description	#	PSD Part Number	Description
1	AS3DISPASSM1	Secure Heavy Duty Touch Screen	6	AS3ENCH-CHAINBKT	Bracket.
2	AS2TOUCH15ZCNCD	Touch Controller Card.	7	AS2CHAIN	Coin drawer cable chain.
3	ASPRHEC	Receipt printer.	8	ASSPEAKER	Speaker.
4	AS3ENCCRDC	Coin return cup.	9	ASBSIO	SIO board.
5	AS3MB170WN7	Mother board.	10	AS3DRSW	Door Switch (2 pieces)

Table 6: Interior Components Upper-Right Chamber Descriptions

Interior Components Upper-Right Chamber (with tray)



Figure 17. Upper-right Chamber with Tray



Figure 18. Upper-right Chamber with Vibration Detector

#	PSD Part Number	Description	#	PSD Part Number	Description
1	COIN HOPPERS		3	VIBRATIONSEN	Electronic Vibration Detector Only
	ASCOINHOPEUR100	Coin Hopper for 1.00 Euros.		VIBRATION-SENASSM	Electronic Vibration Detector System Kit
	ASCOINHOPEUR200	Coin Hopper for 2.00 Euros.			
2		Coin Hopper Tray			

Table 7: Upper-right Chamber Coin Hoppers and Vibration Detector

Rear Door Components

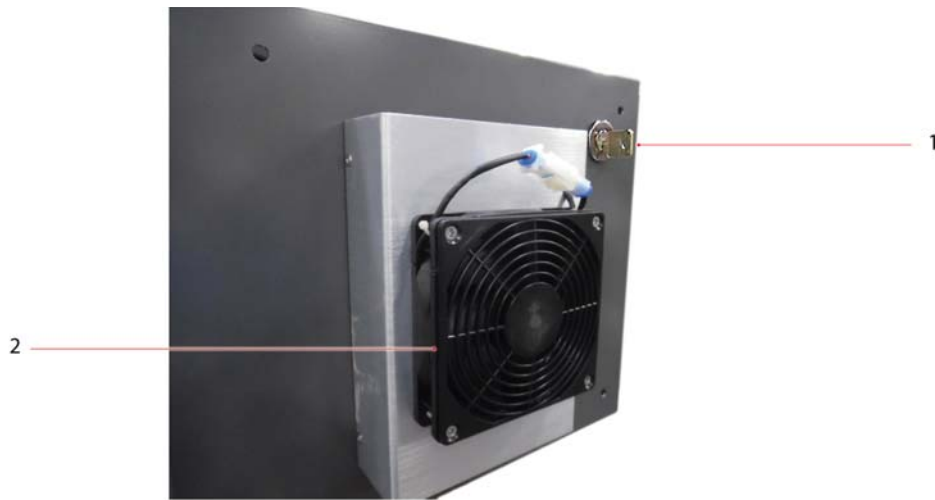


Figure 19. Rear Door Components

#	PSD Part Number	Description
1	ASDRLOCK ASDRKEY	Door lock bezel. Door lock. Door lock key. (not shown)
2	AS3HEATCOOL-1	Heat exchanger assembly.

Table 8: Rear Door Components

Security Locks



Figure 20. Security Locks in Upper Chambers

#	PSD Part Number	Description
See Figure 20.		
1	AS3ENCCFRMDBLHDL	Double security lock frame. (Top of CPT head)
2	AS3ENCCFRMSGHLHDL	Single security lock frame. (Bottom of Right Chamber)
4	AS3ENCBUSHHDL	Bushing
5	AS3ENCCFRMDBLHDL	Bolt
6	AS3ENCHBLKHDL	Block (Not Shown. Block is behind the frame. See # 2 in Figure 20.)

Table 9: Security Locks in upper chambers



Figure 21. Security Lock Frames, Interior Base



#	PSD Part Number	Description
Bottom Chamber		
1	AS3ENCFRMBSDL	Single lock frame. (Base of CPT)
2	AS3ENC-BUSHBSDL	Bushing
3	AS3ENCBLTBSDL	Bolt
4	AS3ENCBLKBSDL	Block (Not Shown. Block is behind Security Lock Frame. See #1 in Figure 21.)

Table 10:

Base of CPT



Figure 22. CPT Interior Base

#	PSD Part Number	Description
1	AS3DRSW	Door switch. (Includes two pieces for complete switch.)
2	ASPUSHBUT	Service screen button.
3	AS3HEATCOOL-1	Heat exchanger.
4		Security Door Locks. "Security Locks" on page 38
5	AS3ENCBILLCUP	Note Cup (not shown)

Table 11: Auto Sentry CPT Interior Base

Base of Auto Sentry CPT

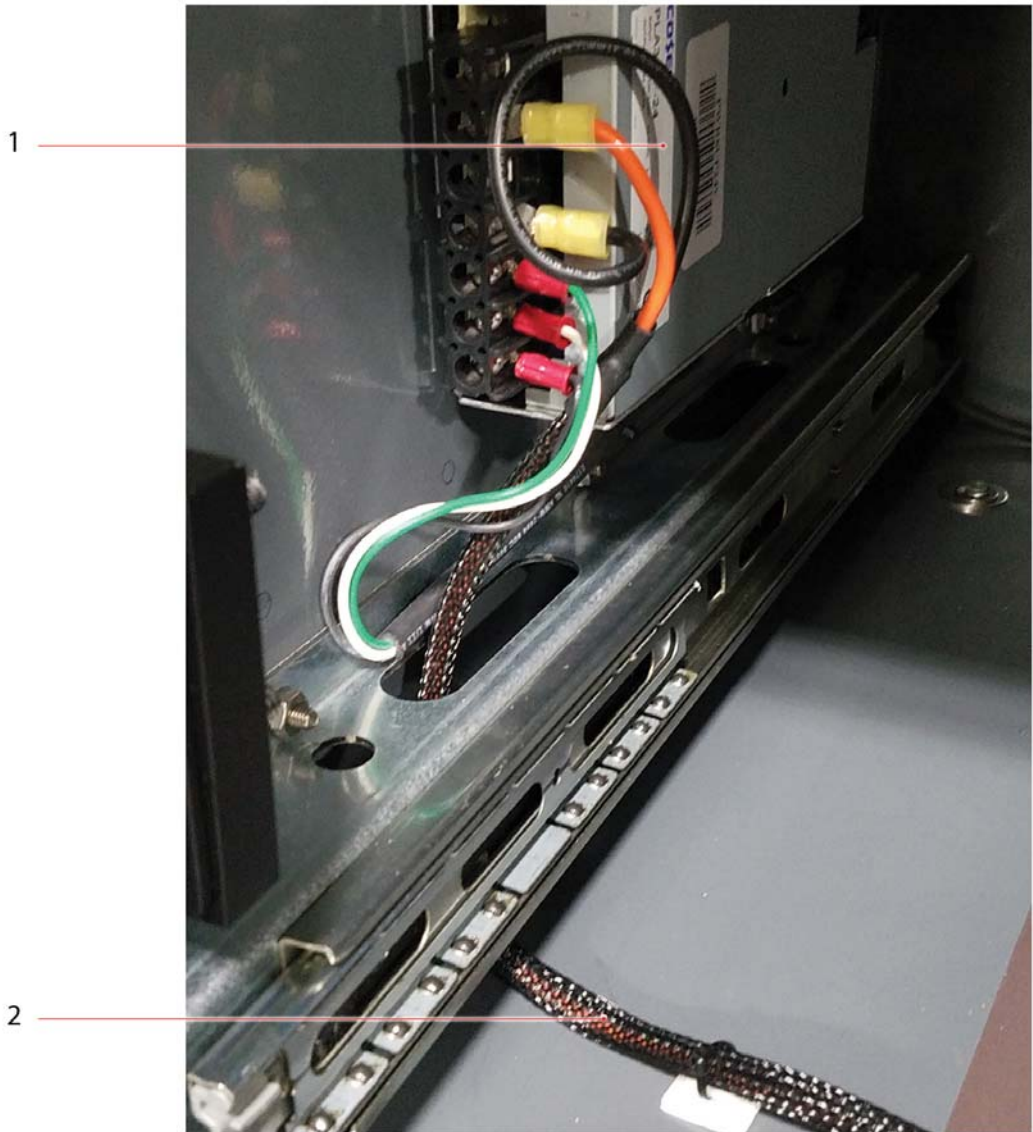


Figure 23. Base of Auto Sentry CPT with Gen Mega Note dispenser tray



	PSD Part Number	Description
1	PWRSUP24V	Power Supply for the Heat Exchangers.
2	AS2CBL61	24 Volt (Low Voltage) power cable for the heat exchangers.
3	BDGENMEGADUAL	Gen Mega Note Dispenser Single Only.
4	AS3ENCBILLCUP	Note Cup (Not shown. Behind Note Dispenser.)

Table 12: Base of Auto Sentry CPT with Note Dispenser Tray

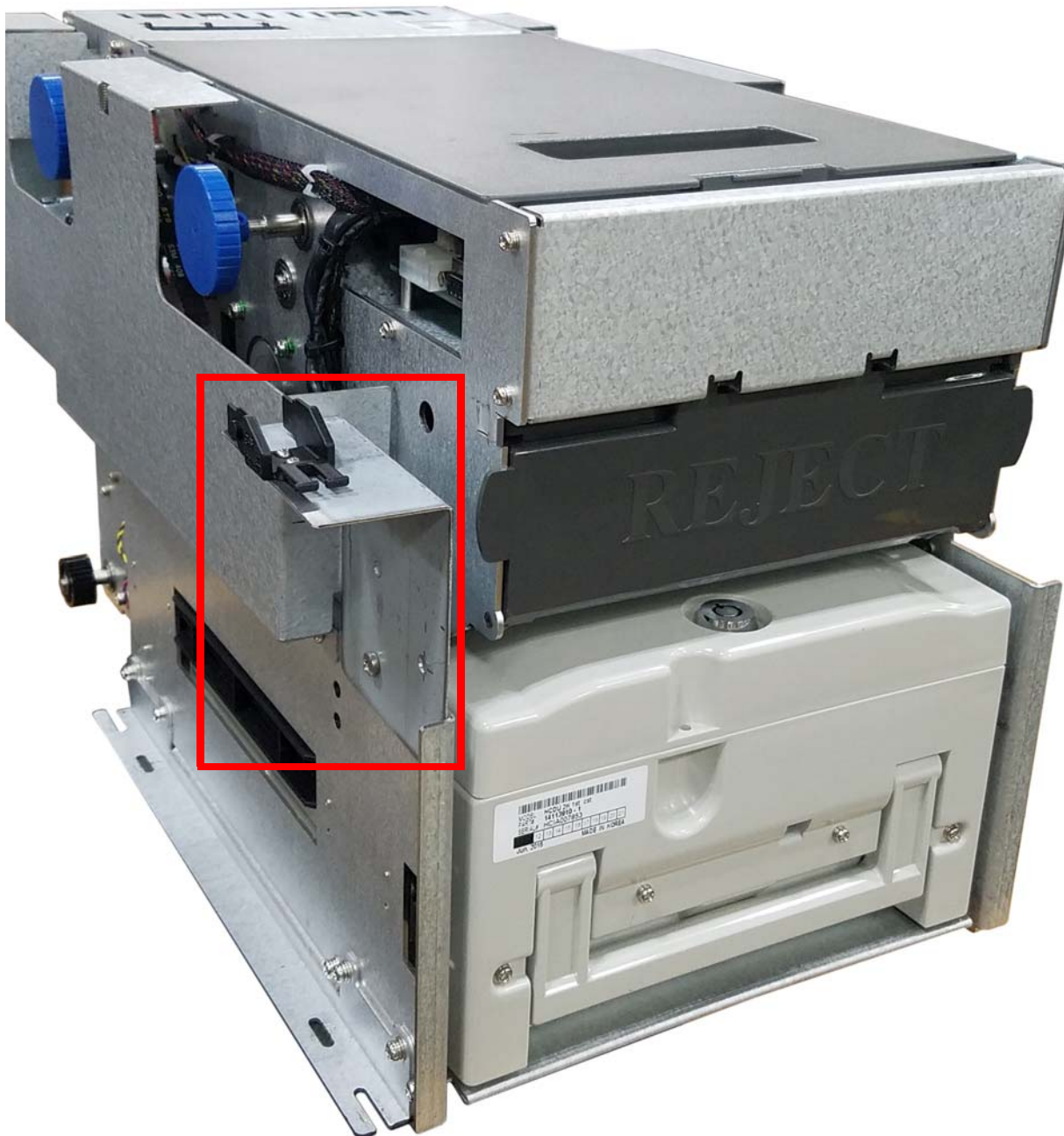


Figure 24. Gen Mega Single Note Dispenser Cable Bracket

Plastic Panel Identification

The Auto Sentry® CPT includes plastic panels. The following drawings identify the part numbers for each panel.

Front View



Figure 25. Front View

	PSD Part Number	Description
1	AS3FP	Front panel.
2	DECALASCUSTOM	Decals for payment area.

Table 13: Front View

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Environmental Statement

PSD strive to create top quality products that minimize impact on the environment. We work with all our partners to produce products that are in compliance with the relevant environmental regulations and legislation.

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