Auto Sentry® CPT
Central Payment Terminal
Installation Guide - Version 1.0

Defining the World of Car Wash Technology
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<td>38</td>
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<td>Base of Auto Sentry CPT</td>
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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. Please read the entire manual before you begin.

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 ICS 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

Related Documents

The Auto Sentry® CPT User Manual is available for further reference.

Rules for Installation

WARNING: Imminent danger exists of electrical shock if the terminal is not installed by a certified electrical contractor.
ALL wiring must meet local regulations.

Wiring 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 ICS Power Distribution Box or dedicated UPS, as supplied by ICS.

Power for the Auto Sentry® CPT unit is conditioned from the ICS Power Distribution Box. The heat exchanger power is not conditioned.

The Auto Sentry® CPT and peripheral equipment must be properly grounded. See “Grounding” on page 19 for more information.

Examine all boxes and cartons before disposing of them for manuals, cables, connectors, and other miscellaneous parts.

Training and Support

Contact ICS for additional training and support.

Warning Markings

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

**WARNING:** Consult accompanying documentation before proceeding.

Inspection and Cleaning

- Wipe exterior of unit with damp cloth to clean. Do not use chemicals or cleaning agents.
- Preventative maintenance involves an inspection of the Auto Sentry® CPT unit daily for loose connections or damage by untrained or skilled operator.
CHAPTER 2: Site Planning

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.

- All wiring must be installed and used in accordance with local regulations.

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.
- Your wash and vacuum layout may be different from the drawings included in this installation guide.
Cable Plan

This drawing is only intended to show the conduits necessary, as a minimum, to complete the installation of the ICS equipment purchased. This drawing is not to scale.

-- Additional conduits must be installed for all other non-ICS equipment such as lights, menu signs, cameras, intercoms, and the like.
-- Only wiring for ICS equipment may be run in the conduits installed for ICS equipment.

Figure 1. Cable Plan
Auto Sentry® CPT Installation Guide

Auto Sentry® CPT Measurements (Front View)

The Auto Sentry® CPT was designed to be installed securely in an existing block wall, where on the other side of the wall, you can access the Auto Sentry® CPT from a room with a locked door. The hole needs be cut using the measurements in Figure 3.

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

Auto Sentry® CPT Installation
1. Cut the hole in the block wall according to the rough opening measurements in Figure 3.

![Figure 3. Cut Hole Measurements in block wall for Auto Sentry® CPT](image)

2. Snugly place the Auto Sentry® CPT unit in the hole in the wall.

3. From the back of the Auto Sentry® CPT, bolt the Auto Sentry® CPT to the block wall.

4. Cut the face of several blocks at 1.875” 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”.*

5. A mason can set these blocks all around the bill dispenser return drawer on the base of the Auto Sentry® CPT.

6. 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 25.

Auto Sentry® CPT (Side View) Brick Thickness

This drawing is the Side View of the Auto Sentry DCPT with open doors in the rear.

Figure 4. Auto Sentry® CPT Brick Thickness
Figure 5. Swing Door Clearance (Top View)
Auto Sentry® CPT Power Requirements

- Electrician must provide a dedicated 120 V AC, 20 Amp circuit to the ICS 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 120 V AC, 15 Amp circuit to the Auto Sentry® CPT to power the heat exchangers.
- The unit must be properly grounded. See “Grounding” on page 19 for more information.
- When mounting the unit, minimum clearances must meet local regulations.

Auto Sentry® CPT Wiring Guidelines

When running wires to and from the Auto Sentry® CPT unit, follow these guidelines:

- For an existing site, use a hole saw to drill new conduit holes through steel base if necessary. File and tape edges of new holes before affixing conduit.
- Run conduit and wire up through steel base into the unit.
- Use wiring ties and wire clamps inside unit to contain wires.

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.

Conduit Wiring Guidelines

- All conduit must be rigid PVC or metal.
- All conduit runs should meet local and national 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.
## Dimensions, Measurements, and Ratings Specifications

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Amount</th>
<th>Notes</th>
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<tbody>
<tr>
<td>Width</td>
<td>31 1/2”</td>
<td>—</td>
</tr>
<tr>
<td>Height</td>
<td>31 1/2”</td>
<td>—</td>
</tr>
<tr>
<td>Depth</td>
<td>29”</td>
<td>—</td>
</tr>
<tr>
<td>Weight</td>
<td>350 lbs.</td>
<td>—</td>
</tr>
<tr>
<td>Operating Temp.</td>
<td>-20 °F to 140 °F</td>
<td>—</td>
</tr>
<tr>
<td></td>
<td>-29 °C to 60 °C</td>
<td>—</td>
</tr>
<tr>
<td>Frequency</td>
<td>50/60 Hz</td>
<td>—</td>
</tr>
<tr>
<td>Supply Voltage</td>
<td>120 - 240 V AC</td>
<td>Intended for permanently connected supply.</td>
</tr>
<tr>
<td>Max. Amps.</td>
<td>10 Amps @ 120 V AC</td>
<td>System and Heat Exchanger</td>
</tr>
<tr>
<td>IPX Rating</td>
<td>NEMA 4X</td>
<td>Enclosures constructed for either indoor or outdoor use to provide a degree of protection to personnel against incidental contact with the enclosed equipment; to provide a degree of protection against falling dirt, rain, sleet, snow, windblown dust, splashing water, and hose-directed water; and that will be undamaged by the external formation of ice on the enclosure. Including protection against corrosion.</td>
</tr>
</tbody>
</table>
Grounding

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

Recommended and Accepted Grounding Methods

Proper system grounding is an extremely important part of the system installation. Grounds for all system devices should be wired to the main service electrical panel ground bus bar which, in turn, should be grounded to a ground rod. A conduit ground does not provide a sufficient ground. It is recommended that the neutral and ground bus bars be bonded together when it is not prohibited by local regulations.

The universal ground symbol identifies the grounding terminal located in the upper-left chamber, bottom left side near terminal blocks. A second ground is marked and located in the base, bottom-left side. This is the dedicated 120 V line for the heat exchanger.

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

**IMPORTANT:** Improper grounding will void equipment warranty.
Wire Gauge and Conduit Size

When planning the orientation of the wiring runs, follow the applicable ICS wiring diagrams and consider the layout of the components at the site.

To determine conduit size needed, see Table 2.

Table 2: Max. Number of Wires (THHN) in a Given Conduit Size

<table>
<thead>
<tr>
<th>—</th>
<th>½</th>
<th>¾</th>
<th>1</th>
<th>1 ¼</th>
<th>1 ½</th>
<th>2</th>
<th>2 ½</th>
<th>3</th>
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<tbody>
<tr>
<td>AWG 14</td>
<td>13</td>
<td>24</td>
<td>39</td>
<td>69</td>
<td>94</td>
<td>154</td>
<td>—</td>
<td>—</td>
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<td>AWG 12</td>
<td>10</td>
<td>18</td>
<td>29</td>
<td>51</td>
<td>70</td>
<td>114</td>
<td>164</td>
<td>—</td>
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<td>AWG 10</td>
<td>6</td>
<td>11</td>
<td>18</td>
<td>32</td>
<td>44</td>
<td>73</td>
<td>104</td>
<td>160</td>
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<tr>
<td>AWG 8</td>
<td>3</td>
<td>5</td>
<td>9</td>
<td>16</td>
<td>22</td>
<td>36</td>
<td>51</td>
<td>79</td>
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<td>AWG 6</td>
<td>1</td>
<td>2</td>
<td>6</td>
<td>11</td>
<td>15</td>
<td>26</td>
<td>37</td>
<td>57</td>
</tr>
<tr>
<td>AWG 4</td>
<td>1</td>
<td>1</td>
<td>4</td>
<td>7</td>
<td>9</td>
<td>16</td>
<td>22</td>
<td>35</td>
</tr>
<tr>
<td>AWG 3</td>
<td>1</td>
<td>1</td>
<td>3</td>
<td>6</td>
<td>8</td>
<td>13</td>
<td>19</td>
<td>29</td>
</tr>
<tr>
<td>AWG 2</td>
<td>1</td>
<td>1</td>
<td>3</td>
<td>5</td>
<td>7</td>
<td>11</td>
<td>16</td>
<td>25</td>
</tr>
<tr>
<td>AWG 1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>3</td>
<td>5</td>
<td>8</td>
<td>12</td>
<td>18</td>
</tr>
</tbody>
</table>
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, Wash Bays, Vacuums, and small commercial auto car wash (In-Bay). The wiring diagrams will vary. See the specific System Installation Guide drawings that you received from your sales representative.
Power and Low Voltage Wiring Layout

POWER CABLE PLAN
ICS AUTO SENTRY CPT
with ICS Power Distribution Box

*** THIS DRAWING IS MEANT ONLY TO SHOW THE TYPES OF CABLES THAT MUST BE RUN BETWEEN PIECES OF ICS 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. ***

- DSL / HIGH SPEED CABLE MODEM
- ROUTER
- AUTO SENTRY CPT
- ICS POWER DISTRIBUTION BOX
- Site’s MAIN Service Electrical Panel
- UPS 2200 Battery Backup supplied by ICS
- ICS supplied CAT 6 shielded
- Site supplied cable from a 20 AMP breaker in the site’s main electrical service panel providing an individual line, neutral, and ground to the ICS Power Distribution Box.
- ICS supplied 14/3 shielded
- ICS supplied UPS cables
- Site supplied cable from a dedicated 15 AMP breaker in the site’s main electrical service panel providing an individual line, neutral, and ground to the Auto Sentry CPT for the heat exchangers. Terminations must be completed as per the provided Auto Sentry CPT power termination diagram. The ground wire must be terminated on the mechanical ground lug in the electrical panel.

A – High Voltage Conduit
B – Low Voltage Conduit

Figure 6. Power Layout
**POWER CABLE SCHEDULE**

**AUTO SENTRY CPT**

with ICS 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 ICS 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.***

<table>
<thead>
<tr>
<th>KEY</th>
<th>WIRE TYPE</th>
<th>PROVIDED BY</th>
<th>TERMINATION LOCATIONS</th>
<th>TERMINATED BY</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>3-12 GA. THHN</td>
<td>ELECTRICIAN FROM CPT TO MAIN SERVICE ELECTRICAL PANEL 15 AMP BREAKER (120 VAC)</td>
<td>ELECTRICIAN</td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>14/3 SHIELDED</td>
<td>ICS FROM MAIN SERVICE ELECTRICAL PANEL TO THE ICS POWER DISTRIBUTION BOX 20 AMP BREAKER (120 VAC)</td>
<td>ELECTRICIAN</td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>14/3 SHIELDED</td>
<td>ICS FROM CPT TO ICS POWER DISTRIBUTION BOX 20 AMP BREAKER (120 VAC)</td>
<td>ELECTRICIAN</td>
<td></td>
</tr>
<tr>
<td>E</td>
<td>14/3 SHIELDED</td>
<td>ICS FROM ICS POWER DISTRIBUTION BOX TO UPS 2200 BACKUP BATTERY (120 VAC)</td>
<td>ELECTRICIAN</td>
<td></td>
</tr>
<tr>
<td></td>
<td>14/3 SHIELDED</td>
<td>ICS FROM UPS 2200 BACKUP BATTERY TO ICS POWER DISTRIBUTION BOX (120 VAC)</td>
<td>ELECTRICIAN</td>
<td></td>
</tr>
<tr>
<td>F</td>
<td>CAT 6 SHIELDED</td>
<td>ICS FROM SWITCH TO CPT NETWORK PORT</td>
<td>ELECTRICIAN</td>
<td></td>
</tr>
<tr>
<td>G</td>
<td>CAT 6 SHIELDED</td>
<td>ICS FROM SWITCH TO CPT FOR CREDIT CARD READER ONLY PORT</td>
<td>ELECTRICIAN</td>
<td></td>
</tr>
</tbody>
</table>

**NOTES:** ALL WIRING FOR ICS 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 Cable Schedule**
AC Power Terminations

ICS SUPPLIED
14/3 SHIELDED CABLE FROM 15 AMP CIRCUIT BREAKER WITHIN THE ICS POWER DISTRIBUTION BOX TO THE UPS 800 BACKUP BATTERY

SITE SUPPLIED 3 – 12 GA. THHN CABLE FROM A 15 AMP BREAKER IN THE SITE’s MAIN ELECTRICAL SERVICE PANEL PROVIDING AN INDIVIDUAL LINE, NEUTRAL, AND GROUND TO THE POWER TERMINAL BLOCK FOR THE HEAT EXCHANGERS.

WIRE COLOR KEY
WHITE = NEUTRAL
BLACK = LINE
GREEN/YELLOW = GROUND

Figure 8. AC Power Terminations

Figure 9. 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 an Electronics Industrial Association (EIA) standard RS-232 communications protocol and not be installed over a hazardous location.
- RS-232 communication must not exceed 100 feet. 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

Figure 10. Low Voltage Wire Layout
**Network, Communications and Control Wiring**

<table>
<thead>
<tr>
<th>Identifier</th>
<th>Wire Type</th>
<th>Provided By</th>
<th>Termination Locations</th>
<th>Terminated By</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>CAT 6 Shielded</td>
<td>ICS</td>
<td>FROM 100/1000 BASE-T WALL PLATE TO CPT FOR NETWORK</td>
<td>ELECTRICIAN</td>
</tr>
<tr>
<td>B</td>
<td>CAT 6 Shielded</td>
<td>ICS</td>
<td>FROM 100/1000 BASE-T WALL PLATE TO CPT FOR CARD READER</td>
<td>ELECTRICIAN</td>
</tr>
</tbody>
</table>

**NOTE:** All wiring for ICS equipment to be run by a representative of the car wash and must be home-runned from point to point. Splicing of wires is not allowed.

**Figure 11. Low Voltage Wire Schedule**

**Port Assignments**

<table>
<thead>
<tr>
<th>Device</th>
<th>Port Type and Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bill Acceptor</td>
<td>COM Port 2</td>
</tr>
<tr>
<td>Coin Acceptor</td>
<td>COM Port 3</td>
</tr>
<tr>
<td>Bill Dispenser</td>
<td>COM Port 4</td>
</tr>
<tr>
<td>SIO Board</td>
<td>COM Port 6</td>
</tr>
<tr>
<td>Touch Screen</td>
<td>USB</td>
</tr>
<tr>
<td>Receipt Printer</td>
<td>USB</td>
</tr>
<tr>
<td>Barcode Reader</td>
<td>USB (Virtual COM Port 5)</td>
</tr>
<tr>
<td>Coin Hoppers</td>
<td>SIO Board</td>
</tr>
</tbody>
</table>

**Table 3: Port Assignments**
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, contact ICS sales for more information: 800-246-3469
Exterior Components Chip and PIN

The Auto Sentry® CPT exterior components for the Chip and PIN are displayed in Figure 12.

![Figure 12. Exterior Components Auto Sentry® CPT](image)

<table>
<thead>
<tr>
<th>#</th>
<th>ICS Part Number</th>
<th>Description</th>
<th>#</th>
<th>ICS Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>AS2TOUCH15Z2</td>
<td>15” touch screen.</td>
<td>2</td>
<td>CPMOPINPAD</td>
<td>PIN pad</td>
</tr>
<tr>
<td>3</td>
<td>CPLECARDREADUS</td>
<td>Moneris card reader assembly.</td>
<td>4</td>
<td>ASPRHEC</td>
<td>USB receipt printer.</td>
</tr>
<tr>
<td>5</td>
<td>ASSPEAKER</td>
<td>Speaker for the Auto Sentry.</td>
<td>6</td>
<td>CPMOCONTREADUS</td>
<td>MonerisMoneris Contactless reader.</td>
</tr>
<tr>
<td>7</td>
<td>AS2COINACC</td>
<td>Coin acceptor.</td>
<td>8</td>
<td>AS3BILLACCU</td>
<td>Bill acceptor, upstacker.</td>
</tr>
<tr>
<td>9</td>
<td>AS2COINACC</td>
<td>Coin return cup.</td>
<td>10</td>
<td>AS2COINFLIP</td>
<td>Coin return cup with flip door.</td>
</tr>
<tr>
<td>11</td>
<td>AS2BILLDISPFLIP</td>
<td>Bill return cup with flip door.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Table 4: Exterior Components for the
Interior Components Upper-left Chamber Chip and PIN

Figure 13. Interior Components Upper-left Chamber Chip and PIN
<table>
<thead>
<tr>
<th>#</th>
<th>ICS Part Number</th>
<th>Description</th>
<th>#</th>
<th>ICS Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>AS2TERMB</td>
<td>Terminal blocks. (not shown)</td>
<td>6</td>
<td>AS2PWRC</td>
<td>Power supply +5 +12 +24 +36 V DC</td>
</tr>
<tr>
<td></td>
<td>AS2TERMBRK10</td>
<td>10-Amp fuses. US.</td>
<td>7</td>
<td>AS2COINACC</td>
<td>Coin acceptor.</td>
</tr>
<tr>
<td></td>
<td>AS2TERMBC-</td>
<td>(2 or 3) Terminal block, ground.</td>
<td>8</td>
<td>ASEMIFILTER</td>
<td>EMI filter for AC V.</td>
</tr>
<tr>
<td></td>
<td>AS2TERMBCW</td>
<td>(2) Terminal block, AC, white.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>CPMOCONTREADUS</td>
<td>Contactless Tap N Go reader.</td>
<td>9</td>
<td>H/CCONTROLBD</td>
<td>Heater/cooler control board.</td>
</tr>
<tr>
<td>3</td>
<td>CPMOPINPAD</td>
<td>PIN pad.</td>
<td>10</td>
<td>ASPSSWITCH</td>
<td>Power switch, illuminated.</td>
</tr>
<tr>
<td>4</td>
<td>AS3BILLACCU</td>
<td>Bill acceptor, upstacker.</td>
<td>11</td>
<td>ASPUSHBUT</td>
<td>Push button for service access.</td>
</tr>
<tr>
<td>5</td>
<td>CPMOCARDREADUS</td>
<td>Card reader assembly with cable.</td>
<td>12</td>
<td>AS3BILLACCU</td>
<td>Bill acceptor, upstacker.</td>
</tr>
</tbody>
</table>

*Table 5: Interior Components Upper-left Chamber Chip and PIN*
### Interior Components Upper-Right Chamber (without tray)

![Image](image-url)

**Figure 14. Interior Components Upper-Right Chamber**

<table>
<thead>
<tr>
<th>#</th>
<th>ICS Part Number</th>
<th>Description</th>
<th>#</th>
<th>ICS Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>AS3DISPASSM1</td>
<td>Secure Heavy Duty Touch Screen</td>
<td>6</td>
<td>AS3ENCH-CHAINBKT</td>
<td>Bracket.</td>
</tr>
<tr>
<td>2</td>
<td>AS2TOUCH1SZCNCD</td>
<td>Touch Controller Card.</td>
<td>7</td>
<td>AS2CHAIN</td>
<td>Coin drawer cable chain.</td>
</tr>
<tr>
<td>3</td>
<td>ASPRHEC</td>
<td>Receipt printer.</td>
<td>8</td>
<td>ASSPEAKER</td>
<td>Speaker.</td>
</tr>
<tr>
<td>4</td>
<td>AS3ENCCRDC</td>
<td>Coin return cup.</td>
<td>9</td>
<td>ASBSIO</td>
<td>SIO board.</td>
</tr>
<tr>
<td>5</td>
<td>AS3MB170WN7</td>
<td>Mother board.</td>
<td>10</td>
<td>AS3DRSW</td>
<td>Door Switch (2 pieces)</td>
</tr>
</tbody>
</table>

**Table 6: Interior Components**
Interior Components Upper-Right Chamber (with tray)

Figure 15. Upper-right Chamber with Tray

Figure 16. Upper-right Chamber with Vibration Detector mounted on Center Security Wall
<table>
<thead>
<tr>
<th>#</th>
<th>ICS Part Number</th>
<th>Description</th>
<th>#</th>
<th>ICS Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>COIN HOPPERS</td>
<td></td>
<td></td>
<td>VIBRATIONSEN</td>
<td>Electronic Vibration Detector Only</td>
</tr>
<tr>
<td></td>
<td>ASCOINHOP25</td>
<td>Coin Hopper for 0.25 denominations.</td>
<td></td>
<td>VIBRATIONSE-</td>
<td>Electronic Vibration Detector System</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>NASSM</td>
<td>Kit</td>
</tr>
<tr>
<td></td>
<td>ASCOINHOP01</td>
<td>Coin Hopper for 0.01 denominations.</td>
<td></td>
<td>VIBRATIONSE-</td>
<td>Electronic Vibration Detector System</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>NASSM</td>
<td>Kit</td>
</tr>
<tr>
<td></td>
<td>ASCOINHOP05</td>
<td>Coin Hopper for 0.05 denominations.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>ASCOINHOP100</td>
<td>Coin Hopper for 1.00 denominations.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>ASCOINHOP25</td>
<td>Coin Hopper for 0.25 denominations.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
<td>Coin Hopper Tray</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Table 7: Upper-right Chamber Coin Hoppers and Vibration Detector**
## Rear Door Components

**Figure 17. Rear Door Components**

<table>
<thead>
<tr>
<th>#</th>
<th>ICS Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>ASDRLOCK, ASDRKEY</td>
<td>Door lock bezel.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Door lock.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Door lock key. (not shown)</td>
</tr>
<tr>
<td>2</td>
<td>AS3HEATCOOL-1</td>
<td>Heat exchanger assembly.</td>
</tr>
</tbody>
</table>

*Table 8: Rear Door Components*
## Security Locks

![Figure 18. Security Locks in Upper Chambers](image)

<table>
<thead>
<tr>
<th>#</th>
<th>ICS Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>AS3ENCCFRMDBLHDL</td>
<td>Double security lock frame. (Top of CPT head)</td>
</tr>
<tr>
<td>2</td>
<td>AS3ENCCFRMSGLHDL</td>
<td>Single security lock frame. (Bottom of Right Chamber)</td>
</tr>
<tr>
<td>4</td>
<td>AS3ENCBUSHHDL</td>
<td>Bushing</td>
</tr>
<tr>
<td>5</td>
<td>AS3ENCCFRMDBLHDL</td>
<td>Bolt</td>
</tr>
<tr>
<td>6</td>
<td>AS3ENCHBLKHDL</td>
<td>Block (Not Shown. Block is behind the frame. See # 2 in Figure 18.)</td>
</tr>
</tbody>
</table>

*Table 9: Security Locks in upper chambers*
Figure 19. Security Lock Frames, Interior Base
Figure 20. Bushing and Bolt

<table>
<thead>
<tr>
<th>ICS Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 AS3ENCFRMBSDL</td>
<td>Single Lock frame. (Base of CPT)</td>
</tr>
<tr>
<td>2 AS3ENCBUSHSSDL</td>
<td>Bushing.</td>
</tr>
<tr>
<td>3 AS3ENCBLTBSDL</td>
<td>Bolt.</td>
</tr>
<tr>
<td>AS3ENCBLKBSDL</td>
<td>Block (Not Show. Block is behind Security Lock Frame. See #1 in Figure 19.)</td>
</tr>
</tbody>
</table>

Table 10: Locks Figure 19 and Figure 20
## Base of CPT

![Image of CPT Interior Base](image)

### Figure 21. CPT Interior Base

<table>
<thead>
<tr>
<th>ICS Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 AS3DRSW</td>
<td>Door switch. (Includes two pieces for complete switch.)</td>
</tr>
<tr>
<td>2 ASPUSHBUT</td>
<td>Service screen button.</td>
</tr>
<tr>
<td>3 AS3HEATCOOL-1</td>
<td>Heat exchanger.</td>
</tr>
<tr>
<td>4</td>
<td>Security Door Locks. “Security Locks” on page 35</td>
</tr>
</tbody>
</table>

**Table 11: Auto Sentry CPT Interior Base**
Base of Auto Sentry CPT

Figure 22. Base of Auto Sentry CPT without bill dispenser
Table 12: Base of Auto Sentry® CPT with Bill Dispenser Tray

<table>
<thead>
<tr>
<th>ICS Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1  PWRSUP24V</td>
<td>Power Supply for the Heat Exchangers.</td>
</tr>
<tr>
<td>2  AS2CBL61</td>
<td>24 Volt (Low Voltage) power cable for the heat exchangers.</td>
</tr>
<tr>
<td>3  BDGENMEGADUAL</td>
<td>Gen Mega Bill Dispenser Single Only.</td>
</tr>
</tbody>
</table>
Figure 24. Gen Mega Single Bill 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

<table>
<thead>
<tr>
<th>ICS Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 AS3FP</td>
<td>Front panel.</td>
</tr>
<tr>
<td>2 DECALASCUSTOM</td>
<td>Decals for payment area.</td>
</tr>
</tbody>
</table>

Table 13: Front View
Index

A
AC power terminations 24
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AS2CBL61 40
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AS2COINFLIP 28
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AS2TERMB 30
AS2TERMBLOCKGND 30
AS2TERMBLOCKW 30
AS2TERMBRK10 30
AS2TERMBRK6 30
AS3FP 42
AS3HEATCOOL 38
ASBILLAC24V 28, 30
ASDRKEY 34
ASDRLock 34
ASEMIFILTER 30
ASPRHEC 28, 31
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ASPBUSHBUT 30
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# Document Change History

## Table 1: Document Change History

<table>
<thead>
<tr>
<th>Document Version</th>
<th>Date</th>
<th>Contributor Initials</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0</td>
<td>2/5/2018</td>
<td>WS, KK, KK, BM, TR</td>
<td>First release in US. UK documentation was released first.</td>
</tr>
</tbody>
</table>
Mission Statement:

It is our passion to leverage our experience as car wash operators, our position as a Market Leader, and our ability to incorporate advanced technology into Visionary products, which enables our Customers to differentiate their operations, achieve a distinct competitive advantage, and maximize their earnings.