HAMILTON SAFE Entrance Control System (ECS) Trouble Shooting Guide



Document Number : 08-349

Crouzet Controller

The controller is completely wired and programmed at the Hamilton factory. Inputs and outputs along with IP addresses are listed below for troubleshooting purposes. See drawing 96-269 for more information.

	Input Details
11	Push bar door 1 allows exit – overrides manual lock
12	Door contact door 1 – verifies open or closed
13	Bond sensor door 1 maglock – verifies locked or unlocked
14	Door contact door 2 – verifies open or closed
15	Bond sensor door 2 maglock – verifies locked or unlocked
16	Door contact door 3 – verifies open or closed
17	Bond sensor door 3 maglock – verifies locked or unlocked
18	Push bar door 4 allows exit – overrides manual lock
19	Door contact door 4 – verifies open or closed
IA	Bond sensor door 4 maglock – verifies locked or unlocked
IB	IR door 1 – detects person between door 1 and weapon detector
IC	IR door 2 – detects person between weapons detector and door 2
ID	IR door 3 and 4 – detects person on exit side
IE	Weapon detector alarm – reset via admit switch
IF	Wireless admit – function same as admit switch
IG	Capture on exit input

	Output Details
01	Voice announcement on alarm
02	Green light – OK to exit door 4
O3	Green light – OK to enter door 1
O4	Green light – OK to enter door 3
O5	Red light – Do not enter door 2
O6	Maglock power door 1
07	Maglock power door 2
COMMON	For outputs O8, O9 & OA
O8	Maglock power door 3
O9	Maglock power door 4
OA	Cabin Lights

IP Addre	esses
Master Console	192.168.0.10
Slave Console	192.168.0.11
Crouzet Controller	192.168.0.210
Subnet Mask All	255.255.255.0

Entrance Control System Service Points Top Five

- 1.) Infra Red Detectors
- 2.) Maglocks
- 3.) Door Closers
- 4.) Loops
- 5.) Touch Bars

OA-203C Infrared Motion Sensor Adjustments

The OA-203C sensor for each door is adjusted at the Hamilton factory for each door and should not need additional adjustment. If adjustment becomes necessary, or the sensor is replaced, follow the instructions below. Refer to the photo for each adjustment location. The sensor is shown removed from the wall for clarity.



Operation Indicator

Width Adjustment Shutters

Sensitivity Switch – All doors should be set to "M" for medium sensitivity in most cases but some sites may require high sensitivity.

Dip Switches – Set the 8 switches for each door according to the following chart:

	Door 1	Door 2	Door 3	Door 4
1	UP	UP	UP	UP
2	DOWN	DOWN	DOWN	DOWN
3	UP	UP	DOWN	DOWN
4	DOWN	UP	UP	DOWN
5	UP	UP	UP	UP
6	DOWN	DOWN	DOWN	DOWN
7	UP	DOWN	UP	UP
8	DOWN	UP	DOWN	DOWN

Area Adjustment Screw – This screw has outer and inner adjustment as follows:

Using the snub end of the area adjustment tool, adjust the width angle left or right between 0° and 7° (3.5° per click). Set all doors to the middle setting.

Using the phillips end of the area adjustment tool, adjust the depth angle between -4° and +4° (1° per click). Set all doors 2 clicks to the right from center.

Width Adjustment Shutters – With the long slots in the screw heads facing vertical, the full pattern width will be obtained. Turning the left screw counter-clockwise reduces the left side of the pattern by 3.5° per click. Turning the right screw clockwise reduces the right side of the pattern by 3.5° per click.

- Door 1 Eliminate the right side only.
- Door 2 Eliminate the left side only.
- Door 3 Eliminate the right side only.
- Door 4 Eliminate the left side only.

Loops

1. If loops are present the weapons detector may alarm on its own. It may also alarm as soon as door 1 moves.

a. Verify that all the door closers have the isolation kits installed.

b. Make sure that the mullion between the glass has not slid down

to create a loop between the bottom rails.

c. Check to see if there are any electrical outlets, water pipes,

metal chairs, and etc.. on the outside wall of the Entrance

Control System. This side is the receiving side of the weapons detector, so it is more sensitive.

Touch Bars

Securitron (Touch Sense)

Locknetics – Touch Bar (New in 2005)

Verify that when it is touched or pushed it releases the door (This applies to both touch bars). If the switch is out of adjustment it could be telling the system that it is pushed, which in the case of door 1 will not let door 2 open. In the case of door 4, it will not let door 3 open, so if you have these symptoms you should check the door push bars.

Maglocks

1. Clean the armature (strike) plate and maglock with scotch bright.

2. Make sure the armature (strike) plate is loose enough to seat flat against the maglock.

3. Check appropriate input on the Allen Bradley to see if the lock is showing that it is locked.

- a. Door 1 Locked = Input 9
- b. Door 2 Locked = Input 13
- c. Door 3 Locked = Input 14
- d. Door 4 Locked = Input 15

4. Check to see if the door is seated in the opening, not racked out in one corner, which may not allow the armature (strike) plate to sit flat on the maglock.

Door Closers

1. Make sure the closer is adjusted to leave tension on the door once it is closed. This is really important on doors 1 and 4.

2. Adjust the backstop on door 4 to avoid the wind pulling the adjustable slide arm out of adjustment.

3. In some cases it may require a door stop for door 4 so it does not continue to have problems



		Device Connection	24 - VDC	Common			24 - VUC		N.O.	Common	Power	N.O.					N.C.		Common Power	QN	- CN	N.O.			Common Power																							System	na Dotaile
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Wireless Receiver Installed







											To determine which wire is wire number 1, hold the cable so that the end of the plastic RJ-45 tip (the part that goes into a wall jack first) is facing away from you. Face the clip down so the copper side faces up (the springy clip will now be parallel to the floor). When looking down on the copper side, wire 1 will be on the far left.	2010 Entrance Control System New Touch Screen Wiring Details	With Crouzet Controller and Inovonics Wireless Receiver Installed	Page: 5of6 Drawing Number : 96-269 Date : 10/9/0
lor Chart	uguonu	Color	Orange / White	Orange	Green / White	Blue	Blue / White	Green	Brown / White	Brown				
RJ-45 Co	ou algul-	Wire	~	2	က	4	5	9	7	8			R	

Programming the Metal Detector

The following chart shows the user adjustable settings on the metal detector. Ceia factory values are shown along with the recommended values for use in the ECS. Adjust these settings as needed.

Adjustable Setting	Ceia Factory Value	Recommended Value for ECS
Sensitivity	SE = 19	SE = 25
Max. Detection Speed	DS = 5	DS = 5
Baud Rate	BR = 9600	BR = 9600
TX Channel	CH = 50	CH = 50
Alarm Duration	AD = 1C	AD = 1C
Alarm Volume	AV = 3	As desired by customer
Alarm Tone	AT = 2	As desired by customer
Reset Mode	RM = A	RM = A



Metal Detector Keypad

Follow these steps to program the recommended values:

1) To begin there should be four dashes on the left side of the split screen. This

is normal operation mode with no metal detector activation and no alarms.

- 2) Press the **PROG** key. Four dashes should appear on the right side of the split screen indicating program mode.
- 3) Press the **ENTER** key and then use the ★ & ★ arrow keys to scroll through the available program items.
- 4) While the item you wish to change is displayed (such as SE for Sensitivity) press the **ENTER** key and the current value will start flashing. Use the ↑ or ↓ arrow key to change the value as appropriate and then press the **ENTER** key again.
- 5) Use the ★ & ★ arrow keys to locate other settings and repeat step 4 as necessary to change their values. While programming the Alarm Volume and Alarm Tone you will hear the new sound as the value is changed with the arrow keys.
- 6) Once all items are programmed properly press the **PROG** key to exit program mode. Four dashes will once again appear on the left side of the split screen.





Programming the Wireless Transmitters

Up to (4) FA203S transmitters can be programmed to activate the FA404R receiver. Use the following procedure to program each transmitter used.

- 1) Pry off the cover from the receiver using a flat blade screwdriver at the slots on the sides. Also pry open each transmitter case the same way.
- 2) Attach one end of the programming cable to the receiver. Polarity is not important.
- 3) Place the receiver in programming mode by holding the Transmitter Programming Button for at least 1 second. The LED for transmitter 1 will either come on solid meaning that input is already programmed or the LED will blink meaning that input is not programmed. Pressing and holding the

Transmitter Programming Button again selects transmitter 2. Repeat this step as necessary to view the programming status of each transmitter input.

- 4) With the LED blinking for the transmitter input you wish to program, connect the other end of the programming cable to a transmitter. Press the Transmitter Reset Button on the transmitter for at least 2 seconds. If successful, the LED on the receiver will change from blinking to steady when the button is released. After a short time period programming mode will exit automatically. Programming mode will also exit after approximately 30 seconds of inactivity.
- 5) Re-enter programming mode and repeat step 4 for each additional FA203S transmitter you wish to program.
- 6) Make sure that only one transmitter is programmed for each input. To delete a programmed input, press the Reset/Delete Button on the receiver while that input LED is lit in programming mode.

If a battery is removed or replaced in a transmitter it is not necessary to reprogram it. Simply press the Transmitter Reset Button after installing the battery.



Removing the Transmitter Cover

FA404R Receiver



Transmitter Reset Button



Programming Cable

Programming Wireless Admit Switches

Document Number: 08-338

Date: 10/17/11

Hold "B" button until you see:

"REMOTE ON NOW"

Push the grey button on the key-fob remote until the "REMOTE ON NOW" goes off then the remote should be programmed.

Test the remote to see if it is resetting the system you should see a "C-1" pop up in the lower right hand corner of the controller display when it is pushed.





Wireless Receiver

Note:

If more than one remote is desire repeat as needed there is no limit to the number of remotes that can be set up.

Key Fob

LCN 4041 Door Closer Adjustments

The door closer assemblies for all four doors of the ECS are installed and adjusted at the factory. In most cases the factory adjustments are satisfactory and do not need to change. Use the following guides if and when further adjustments are required.

When installing glass in a door it will be necessary to separate the door closer arm. The following procedures show how to properly adjust the arm after it is reconnected.



Use the procedure to the right if it ever becomes necessary to lock the closer arm in the open position. Be sure to readjust the closer arm using the previous instructions when returning the door to normal operation.



Hold Open Arm Adjustment

The speed that a door closes is an important consideration. If it closes too fast it can hinder a handicapped person or someone with children; if it closes too slow it causes a delay during entrance or exit because of the "man-trap" operation. Refer to the drawing below for the location of the closer speed adjustments.

Closer Speed Adjustments



Power – Adjusts the spring power for the size of the door. Leave on the factory setting of "3". *Backcheck* – Controls the amount of resistance to opening the door past a selectable point to prevent the door from being slammed into an adjacent wall.

Main Speed – Controls how fast the door closes from fully open to within about 5 degrees of closed. The main speed and latch speed should be adjusted to equal times.

Latch Speed – Controls how fast the door closes for those last few inches. The main speed and latch speed should be adjusted to equal times.



Rev - 2	
LIST	
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Rev - 1

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MD SCOPE SOFTWARE COD 26894 5 PORT DIGITAL SWITCH ***OPTIONAL *** DOOR DECAL KIT - COMPLETE - SPANISH ***OPTIONAL ***

E10106 E10129 H10098

***** *****

ECSTN-011 ECSTN-023 ECSTN-024	, PART NO.	DESCRIPTION	QTY.
ECSTN-023	B10244	UPRIGHT GLASS CHANNEL - DOOR 2	-
EC TAL OB A	B10245	UPRIGHT GLASS CHANNEL	5
オウシートニッシュ	B10262	GLASS CHANNEL - TOP & BOTTOM RAIL	9
ECSTN-026	B10208	REAR CENTER POST COVER - TOP PANEL	-
ECSTN-027	B10209	REAR CENTER POST COVER - CENTER PANEL	-
ECSTN-028	B10207	REAR CENTER POST COVER - BOTTOM PANEL	-
****	E10082	FRONT CENTER POST RED-GREEN LIGHT ASSEMBLY	-
****	E10084	REAR CENTER POST RED-GREEN LIGHT W/ MIC ASSEMBLY	-
ECSTN-058	B10246	LEXAN SPACER - BOTTOM RAIL	9
ECSTN-059	B10247	LEXAN SPACER - TOP OUTER RAIL	4
ECSTN-060	B10248	LEXAN SPACER - TOP CENTER RAIL	5
ECSTN-XXX	B10249	TAP BLOCK	13
ECSTN-035	B10263	CEILING RETAINER - EXIT SIDE	-
ECSTN-036	B10264	CEILING RETAINER - ENTRANCE SIDE	-
*****	H10097	DOOR DECAL KIT - COMPLETE - ENGLISH	-
		AUDIO MATRIX COMPLETE ASSEMBLY	-
	-	TEMS NOT SHOWN	
** * * *	E10097	DOOR 1 & 4 MAIN WIRING HARNESS	-
****	E10098	door 2 & 3 main wiring harness	-
*****	E10099	BLUE CAT-5 CABLE FOR CONTROL HARNESS - 100 FT	-
****	E10100	YELLOW CAT-5 CABLE FOR AUDIO HARNESS - 100FT	-
*****	E10101	6 CONDUCTOR WIRE FOR CONTROL HARNESS - 100 FT	-
*****	E10102	CABIN LED HARNESS	-
****	E10103	AL600ULM POWER SUPPLY	-
****	E10104	SECURITY LEVEL 1 TEST SAMPLE NILECJ.STD 0601.00	-

CAN BE ORDERED TOGETHER AS KIT #E10092

96-320

PAGE 2 0F 2

1-21-2010

Date :

Drawing Number :

EXPLODED VIEW DRAWING

		QTY.	-	1	-	-	-	-,		- DOOR 2	2-10-2010
Rev - 1 Rev - 2	ADER - DOOR 2 EXPLODED VIEW	Description	HEADER - DOOR 2 WELDED SUB-ASSEMBLY	ACCESS COVER - HEADER 2	2 X 3 SPEAKER	DOOR CLOSER BACK-UP PLATE	MAG LOCK SPACER	MAG LOCK -SECURITRON M62SC	IR DELECTOR - OPTEX 0A 203CS	2010 ENTRANCE CONTROL HEADER EXPLODED VIEW DRAWING	Drawing Number: 96-317 Date:
	ICS HEA	PartNo	B10217	B10216	E0721	B10215	B6516	E0753	EU/50 H10043		
	2010 E	Drawing Number	96-317 (pg 2)	ECSTN-050	*****	ECSTN-051	B6516	****	* * * * *		
		NO.	-	2	З	4	5	9 1	\ α		
	(7)					01					

					Rev - 1	
(-		2010	ECS HEAD	ER - DOOR 3 E	EXPLODED VIEW	
2	NO.	Drawing Number	PartNo	Δ	Description	QTY.
	-	96-318 (pg 2)	B10218	HEADER - DOOF	R 3 WELDED SUB-ASSEMBLY	
	2	ECSTN-049	B10214	ACCESS CO	0 VER - HEADERS 1,3, & 4	-
$\mathbf{}$	e	B6516	B6516	MAG	G LOCK SPACER	-
	4	****	E0750	IR DETECTO	OR - OPTEX 0A 203CS	-
	5	****	E0753	MAG LOCK	K -SECURITRON M62SC	-
			(m)			Contraction of the second seco
						2
		(u ₁)			2010 ENTRANCE CONTROL HEA EXPLODED VIEW DRAV PAGE 1 OF 2	DER - DOOR 3 VING
					Drawing Number : 96-318 Da	te: 2-10-2010



NO.	DRAWING NUMBER	PART NUMBER	DESCRIPTION	ατγ.
-	ECSTN-052-1	****	TRAFFIC LIGHT BEZEL	-
2	ECSTN-052-3	****	TRAFFIC LIGHT AND CAMERA BEZEL	-
e	ECSTN-054-1	****	TRAFFIC LIGHT & MICROPHONE BEZEL	-
4	ECSTN-054	****	TRAFFIC LIGHT, MICROPHONE, & CAMERA BEZEL	-
5	ECSTN-052-2	****	BLANK BEZEL	-
9	****	E10180	RED LIGHT	-
7	****	E10181	GREEN LIGHT	-
ω	****	E0154	MICROPHONE ASSEMBLY	-
6	ECSTN-106	****	TRAFFIC CAMERA MOUNTING BRACKET	-
10	ECSTN-107	****	TRAFFIC CAMERA BOARD MOUNT	
=	ECSTN-108	****	TRAFFIC CAMERA PIVOT BRACKET	-
12	BC-001	****	TRAFFIC CAMERA GLASS	-
13	* * * * *	E10199	IKEGAMI 1SD-A12-29 INTERNAL ASSEMBLY	-
14	* * * * *	H10202	3/8 X 1/4" LONG X 2-26 HEX STANDOFF	4
15	* * * * *	H10203	2-56 HEX NUT	4
16	* * * * *	H0157	6-32 HEX NUT	4
17	* * * * *	H0482	#8-32 X 1/4" PHILLIPS FHMS WITH # 6 HEAD	2
18	****	H0142	6-32 X 1/2" LONG PHIL THMS	2
19	*****	H0425	10-32 X 1/4" PHILLIPS THMS	1

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ASSEMBLY # B10470 DOOR 2 - STANDARD WITH TRAFFIC LIGHTS AND MICROPHONE

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ASSEMBLY # B10469 DOOR 1 *OPTIONAL* WITH TRAFFIC LIGHTS AND CAMERA

CONSOLES			Qty	-	-	-	-	-	-	-	1	-	-	-	1	4	1	12	6	ю	-		AS REQ'D	AS REQ'D		
Rev - 1 ADDED NOTE FOR MULTIPLE C	Rev - 2	ol Touch Screen Console	Description	Touch Screen Operator's Console Base	Touch Screen Operator's Console Top Stainless Steel	Gooseneck Microphone	Touch Screen Inside Mounting Plate	2 x 3 Speaker	Panel Mount Female, 6 Position (Phoenix # 707280)	Male Plug, 6 Position (Phoenix #1781027)	Touch Screen Keypad Bracket	Keypad 5501 Membrane (same As 701-20006-5000)	Audio Console Board	3.8" Touch Screen AGP 3200T	Red Rocker Power Switch (NKK-JWM11RC1A/UCV)	Rubber Base Feet (McMaster-Carr #9723K89)	3/4" Split Convoluted Sleeving or Wire Loom (7840K35)	6-32 X 1/4" SST Phillips Truss Head Screw	6-32 X 1/4" Black Button Socket Cap Screw	6-32 X 1/4" R.H. Screw	Complete Touch Screen Console	Aultiple Consoles (Not Shown)	Complete Touch Screen Console - Slave	5 Port Digital Switch	ther Options	Voice Alarm HAMILTON SAFE 2010 ECS Touch Screen Conso Exploded View Drawing Drawing Number: %290 Date:
		e Contro	Drawing Number	TSC-002	TSC-001	****	TSC-003	****	* * * * *	****	TSC-004	****	****	****	*****	****	****	****	****	****	96-289	I Items for A	****	****	0	
		Entranc	Number	B10167	B10168	E0605	B10169	E0721	E6032	E6033	B10170	E0895	5001-CB	E1002	E10071	B10171	E10072	Purchase Local	Purchase Local	Purchase Local	B10016	Optiona	B10450	E10211		
			Reference	-	2	e	4	5	9	7	8	6	10	11	12	13	14	15	16	17	18		19	20		
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Reference Proving Port 2	Reference Prowing Profile 0 1 10.452 Moin Confile 1 1 10.50051 10.452 Moin Confile 2 1 1 10.50051 10.452 Moin Confile 3 1 1 10.50051 10.452 Moin Confile 3 1	Reference Drowing Part 1 1 1 1 2 1 1 1 3 1 1 1 4 1 1 1 5 1 1 1 6 1 1 1 7 1 1 1 8 1 1 1 9 1 1 1 10 1 1 1 10 1 1 1 10 1 1 1 10 1 1 1 10 1 1 1 10 1 1 1 10 1 1 1 10 1 1 1 10 1 1 1 10 1 1 1 10 1 1 1 10 1 1 1 10 1 1 1 10 1 1 1 10 1 1 1	Reference Drowning Point 0 2 10:03 Point 1 2 10:03 Point 2 2 10:03 Point 3 2 10:03 Point 1 1 10:01 Point 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Description	rol Box for Wireless Admit	ale, 6 Position (Phoenix #707280)	Position (phoenix #1781027)	der - Little Fuse #345-613	Connector Receptacle Assembly	Millenium 3 XD26 (specify program when ordering)	Ethernet Module XNO5	SB-625-8 Snap Bushing	sistiors - Maglocks	iier Diode - Maglock Door 1	<pre>nmp Fuse #MDA3</pre>	Scope Serial Port	reless Admit Module XT01	Kall @ /-3/4" Long Assembly of Control Box	Assettivity of Cutifiol BOX ain Access for Wireless Admit	op Access for Wireless Admit	Rev - 1 Rev - 2 Rev - 2 Rev - 2 2010 ECS TOUCH SCREEN ELECTRIC EXPLODE ENTREES A ELECTRIC
Reference Normber Normber Normber 0 0 0 0 0 1 1 1 1 1 1 0					Main Cont	Panel Mount Femo	Male Plug, 6 F	Fuse Holc	AMP 28 Pin CPC C	Crouzet Controller - V	Crouzet	Heyco S	Re	NTE569 Rectif	3 A	MD	Crouzet Wi	Din Complete	Remote Kevch	Remote Deskt	
				Part Number	B10452	E6032	E6033	E0088	E00177	E1000	E1001	H10172	E10075	E10076	E0268	E10074	E10198	B10453	F10210	E10213	
				Drawing Number	ICS-005-1	****	****	****	*****	*****	****	*****	****	*****	****	****	****	ICS-006-1 *****	****	****	
				Reference	-	2	с	4	5	6	7	8	6	10	11	12	13	15	<u>c</u> <u>v</u>	17	
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Entrance Control Service Record

Model:		Install Date	e: Bank N	Name:	Address	s:	Order Number:
Weekly Operation Test	Date: Result	:					
Quarterly Preventative Maintenance							
Maglocks	Date:						
	Result	:					
IR Sensors	Date:						
	Result	:					
Weapons Detector Verification	Date:						
	Result	:					
Door Closers	Date:						
	Result	:					
Inspect Door Sweeps	Date:						
	Result	:					