

STX and ROM Definition

Within most card formats there are different "ROM Code" combinations to expand the availability of unique site codes for different institutions and installations. Traditionally these have been set on DIP Switches or hard coded into the firmware. With the Coin controller these are set under the Card Reader set-up mode. To set the "ROM Code" on the controller it must be broken into 2 "nibbles" hence the terms STX (Start nibble of the "ROM Code") and ROM (second nibble of the "ROM Code").

The STX and ROM are hexadecimal (HEX) values which have to be converted to decimal for entry purposes. The tables below the HEX to Decimal conversions and some common examples of "ROM Codes".

STX or ROM in HEX	Setting to use In Decimal	STX or ROM in HEX	Setting to use In Decimal	Common "ROM Codes"		
				STX Setting	ROM Setting	
0	0	8	8	B9	11	9
1	1	9	9	C1	12	1
2	2	A	10	C2	12	2
3	3	B	11	C3	12	3
4	4	C	12	C4	12	4
5	5	D	13	C5	12	5
6	6	E	14	40	4	0
7	7	F	15	A5	10	5

Card Reader Setup Reader STX	Press ENTER to set card STX
Reader STX 12	Set the value with UP and Down then press ENTER.

Card Reader Setup Reader ROM	Press ENTER to set card STX
Reader ROM 4	Set the value with UP and Down then press ENTER.

Card Reader Setup Site 1	Press ENTER to set card site 1
Site 1 164	Set the value with UP and Down then press ENTER.


Card Reader Setup Site 2	Press ENTER to set card site 2
Site 2 4095	Set the value with UP and Down then press ENTER. A setting of 4095 indicates site 2 is not used.

Card Reader Setup Site 3	Press ENTER to set card site 3
Site 3 4095	Set the value with UP and Down then press ENTER. A setting of 4095 indicates site 3 is not used.

Once all of the above settings have taken place exit out of the BYPASS mode so that the 5400 is in idle mode. Provided all peripherals initialize properly the following messages will be displayed depending upon how the unit is configured:

Insert Coins or Card

Insert Coins or Card Or Bills

	Headquarters – Canada 705 Progress Ave - #63 Toronto, ON. M1H 2X1		U.S. Operations 800 Fee Fee Road St.Louis, MO 63043	
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Supportex: 877-482-8326				

ITC SYSTEMS

QUICK SETUP GUIDE

FOR

1005/1505 Card Reader within the 5400 Coin Operated Controller

This device needs to be configured for proper operation. This Guide will get you started. For complete instructions please refer to the Setup and Operation documentation available at:
www.itcsystems.com/itcmanuals

In order to Setup and operate this device you will need the following items that are available from ITC systems if they were not ordered with this sale.

- 1005/1505 Insert Card Reader

Optional Items:

- 4035 – Programming Keypad

In order to operate this device you will need the following items that are NOT supplied by ITC Systems:

- Test Media (money, cards)
- Basic Technician Tools

NOTE: Any newly purchased 5400 Series Coin Operated Controller with a Card Reader will come from the factory with a 1505 reader. The default setting should already be set to use this model of card reader. Refer to Page 3 for further details.

Further Service Support is available by contacting
ITC Systems Supportex 877-482-8326

Initial Setup of the 5400 Coin Operated Controller w/Internal 1005/1505 Card Reader

1. Unpack the 1005/1505 Serial Insert Reader.
2. Remove power to the coin-op by unplugging the power adaptor from the wall outlet.
3. Obtain the keys provided with the 5400 Coin-op in order to open the unit as well as allow for programming.
4. Open the 5400 by placing the barrel style key in the lock at the 3 o'clock position and turning counter clockwise to the 12 o'clock position.
5. Locate the card reader cover plate from within the 5400 Coin-op. This plate is located in the upper right corner below the CPU board.
6. Using a 5/16 nut driver/socket remove the 2 * 6-32 nuts. Place the 6-32 nuts just removed aside as these will be required to mount the Insert Card Reader in the following steps.
7. Based on the model of the Insert Card Reader see Figure 1 place the card reader into the open slot in the 5400 coin-op housing.

Serial Insert Card Reader Model # 1505

Peel the double-sided tape then secure the card reader using the one 6-32 nut on the left side.

Serial Insert Card Reader Model # 1005

Secure the card reader using the two 6-32 nuts on either side of the card reader.

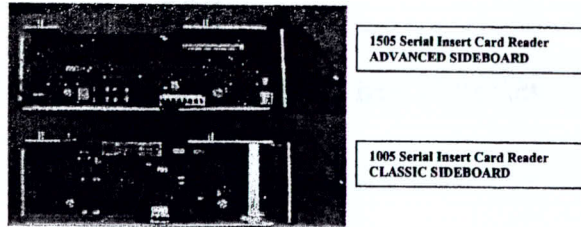


Figure 1

8. Attach the ribbon cable from the card Reader to the CPU Board connector as shown below in Figure 2.

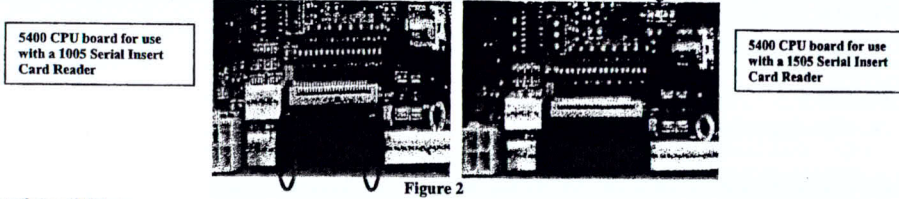


Figure 2

Programming and Set-up

Before using the 5400 with the newly install Insert Card Reader the pricing, options, and interface characteristics have to be set up. This is achieved by using the Bypass key and Programming buttons or Optional Keypad Programming assembly. **ITC PART # 4035.** This requires the back door remain open from above steps to access the programming buttons; MENU, ENTER, Up and Down. The view on page 3 is from the back of the coin box looking up into the top of the unit. The buttons are located inside the upper right corner beside the LCD Display. The MENU button steps through different MENUS. The ENTER button sets the current value displayed in memory and advances to the next MENU or function. The UP and Down buttons are used to change the current value displayed. **Note:** pressing the UP button while the Down button is depressed will clear the current value to Zero.

If a Programming Keypad is connected the A button will move UP, the B button will move down, the D button will function as the MENU button, and numerical entries will be made directly via keypad. The Clear button will re-set and entry to default or its minimum value.

Bypass/Programming Mode

To initiate the "Bypass/Programming" mode turn the "BYPASS KEY" 90 degrees clockwise. The display will indicate: "Bypass Mode" "Copies X". In Bypass mode the copier is "enabled" to allow copies.

Bypass Mode Copies: ###	Where ### is the number of copies made during this bypass session
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To initiate the Programming mode press the "MENU" button on the CPU board. Pressing the "MENU" button will step to a specific setup function without going through all of the sub-MENUS. The Insert Card Reader first needs to be initialized and enabled by proceeding to the PHERIPHALS MENU.

Peripherals Setup Mode

Press the ENTER button to select the root MENU Peripherals.

Peripherals Card Reader	Press ENTER to set card reader.
	Select Yes or No with the UP and Down then press ENTER.

Press the MENU button to proceed to further programming as outlined on page 3.

Card Reader Setup Mode

This mode will only appear if the card reader is enabled in the peripherals set-up mentioned on page 2. Press the MENU button to move between Root MENUS. Press the ENTER button to select the root MENU.

Card Reader Setup Accept Types	Press ENTER to set cards types to accept
Accept Both	Select Cash, Units or Both with UP and Down then press ENTER to set the card types accepted by the controller.

Card Reader Setup Card Format	Press ENTER to set card Format to accept
Card Format ACT/ITC	Select the card format ACT/ITC, VCS, Danyl, ICS/XCP with UP and Down then press ENTER.

Card Reader Setup Accept ICS/XCP	Press ENTER to set conversion of ICS or XCP formatted cards.
Accept ICS/XCP NO	Select No, Convert to Site 1 or Convert to site 2 with UP and Down then press ENTER.

This will allow ICS or XCP formatted cards to be accepted and or converted to ACT/ITC format. The cards will be encoded to site 1 or 2 as selected.

Card Reader Setup Convert to ACDI	Press ENTER to set conversion of cards to ACDI format.
Convert to ACDI NO	Select No, Convert to Site 1 or Convert to site 2 with UP and Down then press ENTER.

Card Reader Setup Accept Danyl	Press ENTER to set conversion of Danyl cards.
Accept Danyl NO	Select No, Convert to Site 1 or Convert to site 2 with UP and Down then press ENTER.

This will allow Danyl cards to be accepted and or converted to ACT/ITC format. The cards will be encoded to site 1 or 2 as selected.

Card Reader Setup Sideboard Type	Press Enter to set the Card reader's Sideboard type.
Sideboard Type Advanced	Set Advanced or Classic with UP and Down then press Enter.

Select **Advanced** for "902-1500-SB" Side board

Select **Classic** for "A5050-2" Side board

Refer to Figure 1 for a breakdown of which side board being used.

Note: In order to use a 1505 Insert Card Reader within a 5400 Coin-op you will require firmware greater than Version 1.22 or greater.

Contact Supporttex for details if unsure of side board type or the firmware version currently loaded in the 5400 Coin-op.