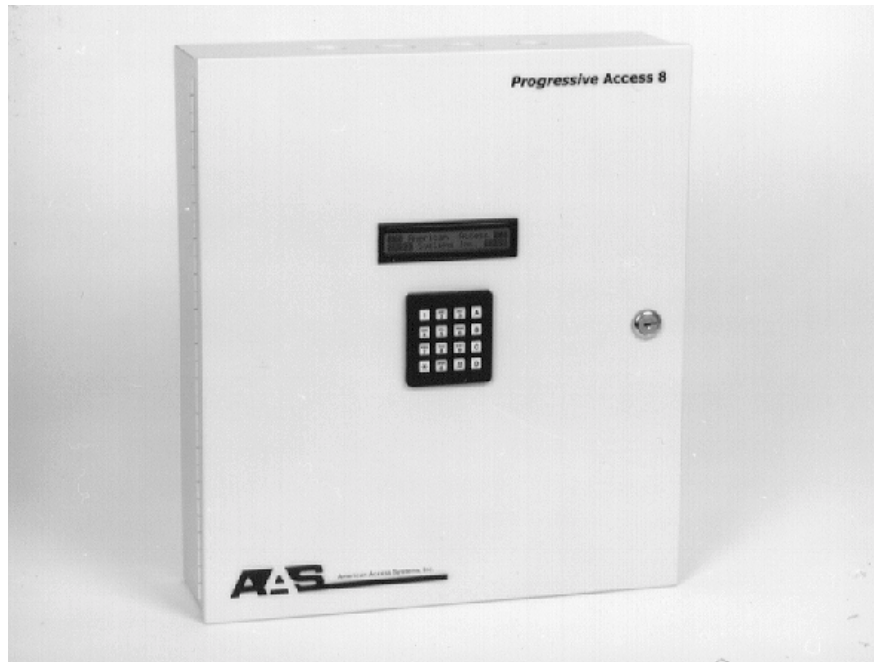


AMERICAN ACCESS SYSTEMS, INC.

PROGRESSIVE ACCESS 8



**INSTALLATION & PROGRAMMING
INSTRUCTIONS**

**MODELS:
25-4004, 25-4006
25-4008**



AAS 2-Year Limited Warranty

What item(s) this warranty applies to:

American Access Systems "PROGRESSIVE ACCESS 8 (25-XXXX series)" access controls.

What is covered:

Any defect in materials or workmanship.

For how long:

Two years from date of purchase.

What we will do:

If your AAS product is defective and returned within 2 years of the date of purchase, we will repair it or, at our option, replace it at no charge to you. If we repair your AAS product, we may use new or reconditioned parts. If we choose to replace your AAS product, we may replace it with a new or reconditioned one of the same or similar design. The repair or replacement will be warranted for (a) 90 days or (b) the remainder of the original two year warranty period, whichever is longer.

Limitations:

Implied warranties, including those of fitness for a particular purpose and merchant ability (an unwritten warranty that the product is fit for ordinary use), are limited to two years from date of purchase. We will not pay for loss of time, inconvenience, loss of use of your AAS product, service calls, or property damage caused by your AAS product or its failure to work, or any other incidental or consequential damages. Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above exclusions or limitations may not apply to you.

What we ask you to do:

To get warranty service for your AAS product, you must provide proof of the date of purchase. Contact the original dealer or installer of the product and return your AAS product along with the receipt to them. If you have problems locating the dealer or installer contact American Access Systems at (303) 799-9757 and we will direct you to an authorized dealer or distributor of American Access Systems products. If you ship your AAS product, you must prepay all shipping costs. We suggest that you retain your original packing material in the event you need to ship your AAS product. On return, include your name, address, phone number, proof of date of purchase, and a brief description of the operating problem.

What this warranty does not cover:

This warranty does not cover defects resulting from accidents, damage while in transit, alterations, unauthorized repair, failure to follow instructions, misuse, fire, flood, or acts of God. Nor do we warrant your AAS product to be compatible with any particular external device or peripheral. If your warranty has expired on your AAS product or if your product is NOT covered contact your dealer or installer for advice on whether we will repair your AAS product and other repair information, including estimated repair costs and other charges. We, at our option, may replace rather than repair your AAS product with a new or similar design if the damage to the unit is severe or extensive.

This warranty is the only one we give on this product, and it sets forth all our responsibilities regarding your AAS product. There are no other express warranties.

State Law rights:

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

AMERICAN ACCESS SYSTEMS, INC.
6950 - "C" S. TUCSON WAY
ENGLEWOOD, CO. 80112
PH: (303) 799-9757
FAX: (303) 799-9756

PARTS CHECKLIST

Enclosed with this box you should have the following items.

<u>Qty</u>	<u>Description</u>
1	Wall Station
1	Wall Plug In Transformer

If any of the above items are missing from this box, contact American Access Systems

TOOLS YOU WILL NEED

Wire strippers

Wire cutters

Digital or Analog multi-meter

WIRE

ALPHA 1296C OR 1298C
OR EQUIVALENT

22AWG
STRANDED TINNED COPPER
CAPACITANCE OF LESS THAN 37pf/ft.

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BEFORE PROCEEDING

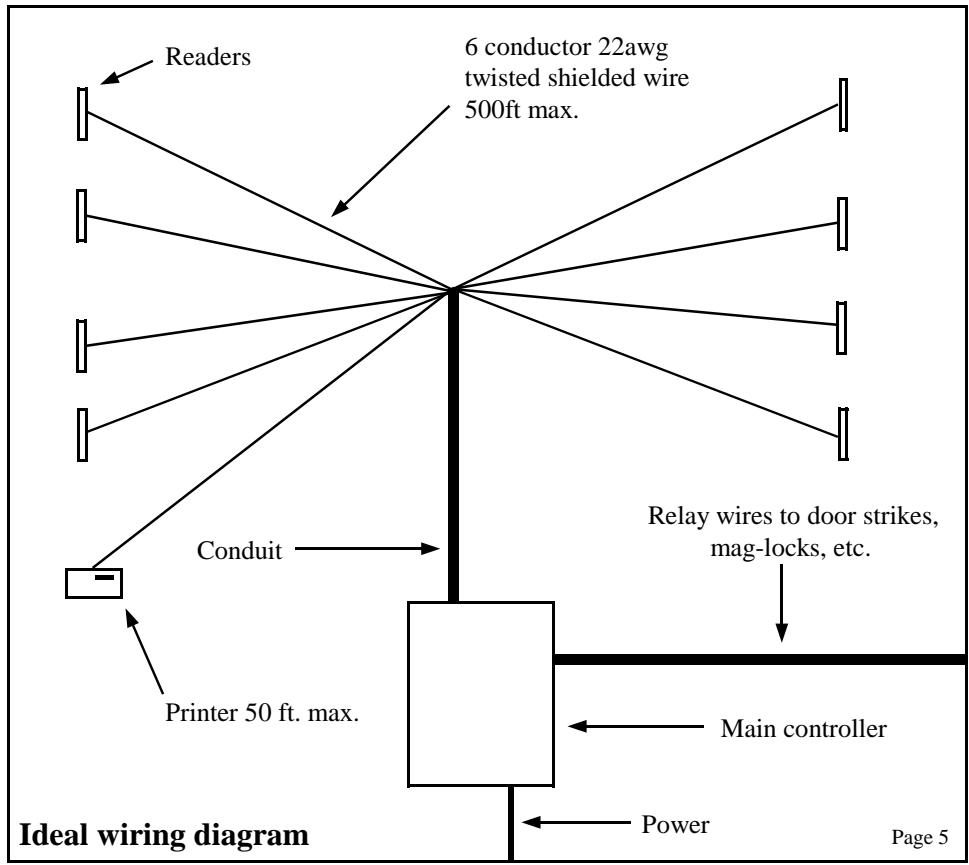
To take full advantage of the 24 month limited warranty, you must be registered with American Access Systems, Inc. Please read the enclosed warranty statement, (pg 2), fill out the warranty registration card provided and send it to:

**American Access Systems, Inc.
Warranty Registration
P.O. Box 4301
Englewood, Co. 80155**

INTRODUCTION

Your new DOOR CONTROLLER unit is a high quality, programmable, commercial wiegand control station. Some of the features include:

- ◆ 24 x 2 Liquid Crystal Display for ease of programming
- ◆ Four 26 bit wiegand device ports with the ability to upgrade to six or eight devices
- ◆ Serial port for connecting to a serial printer
- ◆ 2 form C relays (Dual Contacts i.e. for alarm shunt) 5A at 30V DC
- ◆ Selectable relay output times from 1/2 to 99 seconds
- ◆ Real Time Clock with lithium battery backup for up to 10 years of operation in the absence of power
- ◆ 4000 access cards per door
- ◆ Cards are all saved in nonvolatile memory
- ◆ 1500 transaction buffer per door pair
- ◆
- ◆
- ◆
- ◆



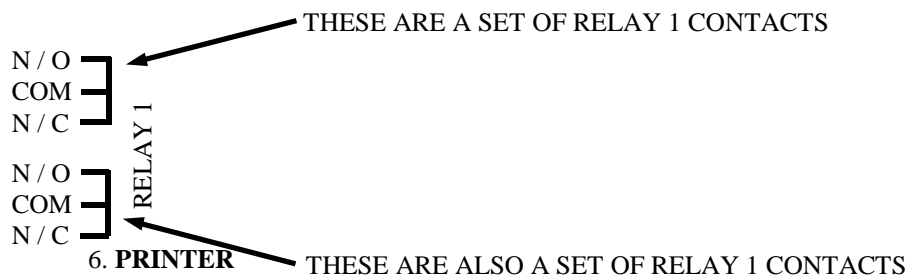
INSTALLATION INSTRUCTIONS:

1. The control station should be mounted to a wall inside the building i.e. closet, office.
2. Run 3/4" or 1/2" conduit from knock-outs on control station to ceiling or wherever works best for your application.
3. Run 6 conductor wire from each reader (500 ft. max) to the control station. The control station will power readers that run on +12V DC and draw 200mA or less. For large, long range readers, you will have to power them separately. You will also need to run 2 wires for relay connection. It is recommended that you do not run the relay wires with the communication wires. If you must, you can run 8 conductors from the reader and run the relay wires together with the communication wires. We have wired it up this way, and it worked, but American Access Systems will not guarantee this configuration will work in all applications. Only use DC strikes. Do not power the strikes from the control station.
4. Connect communication wires to terminal blocks. Be careful not to put too much pressure on the circuit board. Try to support the circuit board with your fingers while screwing down the terminal blocks. **GROUND THE SHIELD ON THE READER SIDE.**

Connect these colors from the reader to these names on the circuit board.

WIEGAND WIRE NAME	STANDARD WIEGAND COLOR CODE
HOLD	BLUE
LED	BROWN OR ORANGE
DATA 1	WHITE
DATA 0	GREEN
GROUND	BLACK
+12V	RED

5. Connect relay wires to their appropriate relay i.e. Relay 1, Relay 4, etc. There are 2 sets of relay contacts for each relay. They can be used as an alarm shunt, etc.



HOOKUP: Most serial

USE ONLY DC STRIKES!! POWER THE DOOR STRIKES SEPARATELY!! YOU CAN PLACE MOV'S OR DIODES ACROSS RELAY LINES AT THE STRIKE TO PROTECT AGAINST VOLTAGE SPIKES.

printers can be used, but for a much easier installation we recommend you use our printer. This is because we know the dip switch settings, and pin out of the DB25. When hooking up our printer you can cut the printer cable and extend it up to 50ft. Plug the RJ45 connector into the jack on the circuit board marked 'PRINTER'. Connect the other end to bottom of printer.

7. Disconnect 'POWER DISCONNECT' jumper from circuit board. Hook up optional battery backup system to circuit board marked 'BATTERY BACKUP'. Be careful of polarity, red to red, black to black.

8. Connect wires to supplied transformer, and run the other ends inside the control station to the bottom of the circuit board where it says 'POWER'. When you are sure about all of your connections plug in the transformer. Now put the 'POWER DISCONNECT' jumper back on. At this time the LCD display should say 'SETTING UP SYSTEM' 'PLEASE WAIT'. If nothing is displayed or unreadable, pull "POWER DISCONNECT" jumper, or disconnect battery and transformer and recheck all your connections. Then try it again or call American Access Systems.

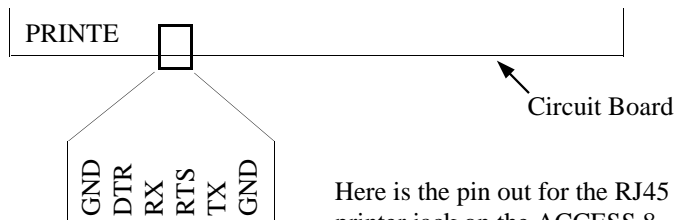
PRINTER DIP SWITCH SETTINGS

Citizen IDP562 - On the 10 position dip switch #7 is ON, and the rest are OFF. There is also a big black switch that should be OFF. These dip switch settings are for 9600 baud (default).

Citizen IDP3111 - On the 10 position dip switch all of them are OFF. These dip switch settings are for 9600 baud (default).

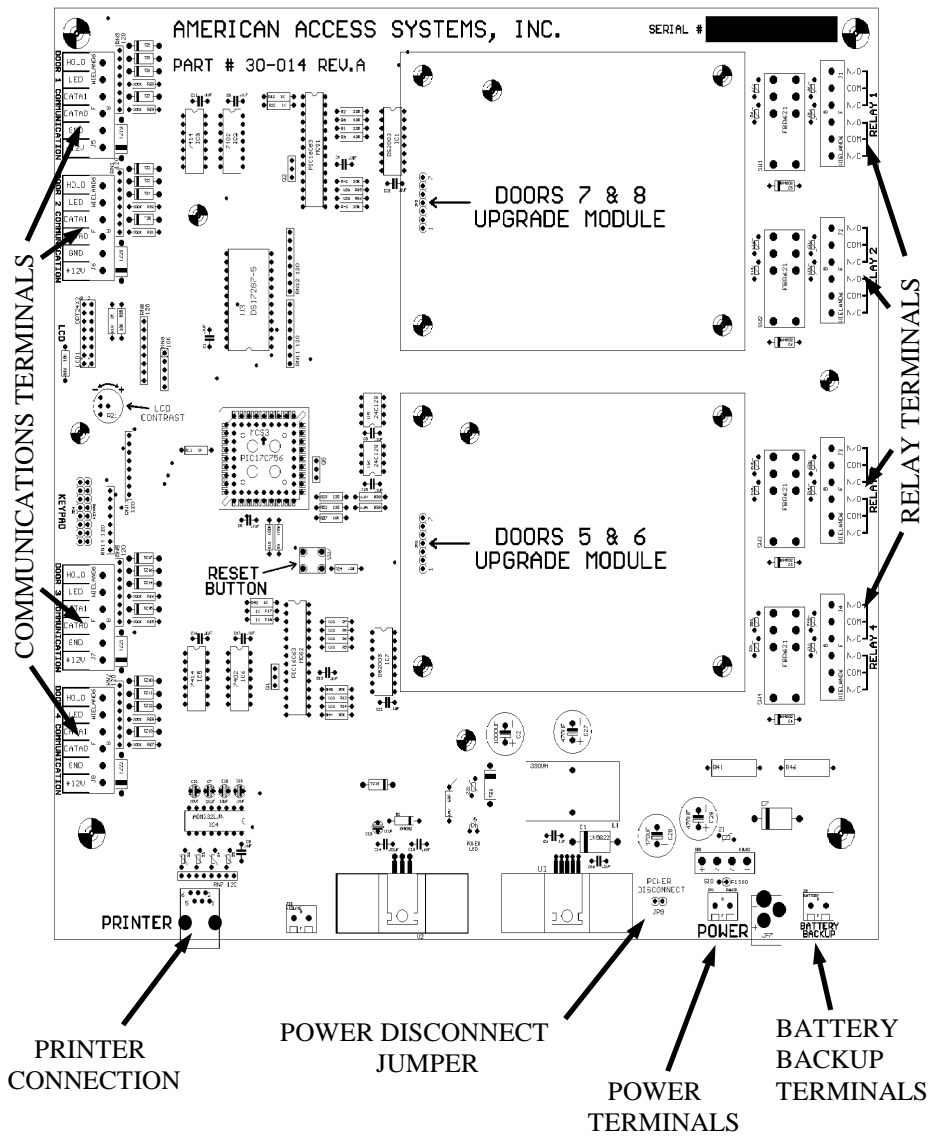
Third Party Printer - American Access Systems does not provide technical support for third party printers. Please call the printer manufacturer and give them the following information.

**The ACCESS 8 communicates with a printer using:
 9600 baud
 8 bits, no parity, 1 stop bit
 Data + CR form
 RDY/BSY Protocol.**



Here is the pin out for the RJ45 printer jack on the ACCESS 8 circuit board.

PROGRESSIVE ACCESS 8 CIRCUIT BOARD



PROGRAMMING INSTRUCTIONS:

Although programming is user friendly due to the LCD screen, there are a few key points that need to be addressed.

1. The system can support 26 bit wiegand devices.
2. Each door can have a maximum of 4000 users (Cards numbered between 0001 and 4000).
3. The unit allows up to 3 facility codes between (000 and 255)
4. To attach a card to a time zone you must program in the time zone first.
5. The maximum number of time zones is 7.
6. For wiegand keypads, you can block program individual 5 digit codes. i.e. 00378 thru 00378.
7. Press the star key (*) if you make a mistake. This will take you back to the previous menu.
8. Press the pound key (#) to exit a sub-menu without saving.
9. In most sub-menus (D) is for Done (save and exit).
10. Doors are inactive while you are in the programming sub-modes.

SETTING THE CLOCK:

To set the system clock, follow the LCD display's instructions:

Press A) Program

Press D) Misc.

Press A) Clock

Press A) Set Time

Enter Hrs:Min:Sec example: 02:15:00

Enter (A) AM (B) PM

Then the clock is set, and the display will exit back to the clock menu, where you can

Press B) Set Date, or Press # to exit back to the main menu.

SETTING THE DATE:

To set the system date:

Press A) Program

Press D) Misc.

Press A) Clock

Press B) Set Date

Enter current Month/Day/Full Year example: 03/02/1998

Then the display will exit back to the clock menu, where you can Press C) Set Week-Day, or Press # to exit to the main menu.

SETTING THE DAY OF THE WEEK:

To set the day of the week:

Press A) Program

Press D) Misc.

Press A) Clock

Press C) Set WeekDay

Enter day of the week or Press A) Help

Your choices are:

- 1) Su 2) Mo 3) Tu 4) We 5) Th 6) Fr 7) Sa 0) None

Just press the number that corresponds to the day of the week, or press 0 if you do not want to display the day of the week. Note: If you want to enter in time zones you must program in a day of the week.

PROGRAMMING IN AUTOMATIC DAYLIGHT SAVINGS TIME

This feature can be enabled if you would like the clock to automatically change for daylight savings time.

Press A) Program

Press D) Misc.

Press A) Clock

Press D) DST

The screen should display:

Daylight Savings Time

A) Enable B) Disable

Press A or B then the screen will go back to the clock menu. Then Press # to exit out.

PROGRAMMING TIME ZONES

There are 7 user programmable time zones, you can link them to any of the doors, and any of the cards. You should write these time zones down to make it easier to link them later.

To set the time zones:

Press A) Program

Press B) Time Zones

Press A) New

The display should look like this:

(1)
Enter Start Time-Hrs:Min

Enter Start

example: 08:00

Press (A)AM (B)PM

Enter End Time: example: 05:00

Press (A)AM (B)PM

The display should now look like this:

Enter Valid WeekDays
[- - - - -] A)Help

You can toggle which days of the week you want (1) for Sunday thru (7) Saturday and then press (D) when you are done. Or press (A) to see your choices.

If you press (A) for Help the display will look like this:

(1)Su (2)Mo (3)Tu (4)We
(5)Th (6)Fr (7)Sa (D)Finish

This is the time zone number, it will automatically increment when you program in the next time zone.

Time: REMEMBER: If at any time during programming you make a mistake, press * to back up one level, or # to exit without saving.

Press the appropriate numbers that correspond to the valid days of the week for the time zone.

For example let's say you want Sunday, Monday, Tuesday, Friday valid:
You would push 1,2,3,6, and the display would look like this:

```
(1) 08:00a thru 05:00p
[ s m t - - f - ] (A)Help
```

Valid days of the week shown

Then when you have it the way you want Press (D) Finish to save, and exit.

CHANGE TIME ZONES

This sub-mode can be used to change or view a time zone.

Press A) Program

Press B) TimeZones

Press B) Change

Enter the number of the time zone you wish to change.

Enter start time- Hrs:Min

Enter (A)AM (B)PM

Enter end time- Hrs:Min

Enter (A)AM (B)PM

Enter valid weekdays or (A)Help

When finished press (D)Finish to save and exit.

REMEMBER: If you
make a mistake press * to
back up one level, or # to
exit without saving.

DELETE TIME ZONE

If you have cards associated with a time zone, say time zone 1 for example, and you delete time zone 1, the cards will not be valid. You will then either have to reprogram in time zone 1, or reprogram in the cards and link them to a different time zone, or no time zone at all.

To delete a time zone:

Press A) Program

Press B) TimeZones

Press C) Delete

Enter the number of the time zone to delete or ? for All

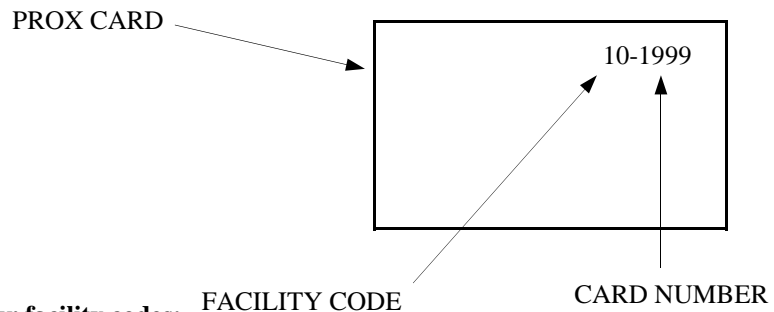
The display will then prompt you with: Are you sure? A) Yes B)No

You will then be exited to the main menu.

ENTERING FACILITY CODES

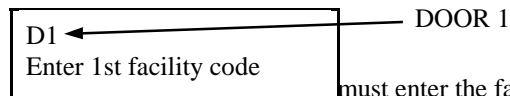
Note: You must enter in your cards facility codes for each door you would like the cards to work with. You can have a maximum of 3 facility codes per door. The facility code range is from 000 - 255.

The facility codes should have been told to you, or they can be found on the back of the card.



To enter in your facility codes:

Press A) Program
 Press A) Codes
 Press C) Facility
 Enter which door to program 1 thru 8 or A)Help or #)Exit
 For example lets program in facility codes for door 1
 The display should look like this:



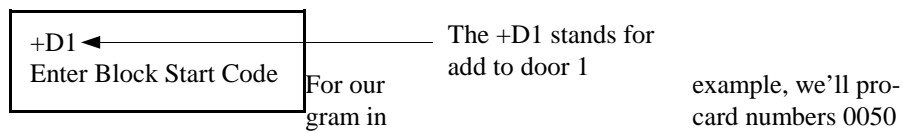
You must enter the facility code in a three digit format. So if your facility code on the card is 10 you must enter 010. After you enter the three digits it will ask you "Is this correct? A)Y B)N It will then prompt you for the 2nd facility code. If you have another, go ahead and enter it, otherwise, Press # to exit and save.

PROGRAM ACCESS CARDS

All programming in of access cards or codes is done in block format. Remember: If you want to link cards to time zones you must program in time zones first.

To program access card or codes:
 Press A) Program
 Press A) Codes
 Press A) Enter

Which door to program? Press 1 - 8
 For our example we'll use door 1, the display should look like this:



thru 0200
 Enter Block Start Code:
 Press 0050
 Enter Block End Code

Press 0200

Link to a TimeZone?

Press A)Yes B)No

If No press B

Is this correct?

Press A)Y B)N

At this point you can continue on, or press # to exit to the main menu.

If you want to link to a TimeZone, press A for yes, then enter in the time zone number. If you have not programmed in the time zone first it will error you at this point.

DELETE CARD(S)

Let's say you have a disgruntle employee with card number 1999 and you want it out of the system.

Press A) Program

Press A) Codes

Press B) Delete

Enter door to program. Press 1 - 8

The display should look like this:

-D1 ←
Enter Block Start Code

The -D1 means delete from door 1

so to delete card 1999

Enter Block Start Code

Press 1999

Enter Block End Code

Press 1999

-D1 1999 thru 1999
Is This Correct? A)Y B)N

Press A)Y

The card is now deleted from door 1. If that card is valid at other doors, follow the same procedure for the other doors.

TO CLEAR OUT ALL THE CARDS FROM A SPECIFIC DOOR:

Press A)Program

Press A)Codes

Press B)Delete

Enter Door to Program: 1-8

Enter block start code: Press 0001

Enter block end code: Press 4000

Is this correct? A)Y B)N

All cards have now been deleted from that door.

RELAY TIME

Each doors relay can be individually programmed for a specific output time between 1/2 and 99 seconds. (entering in 00 equals 1/2 second)

For our example we are going to program in 5 seconds for door 3.

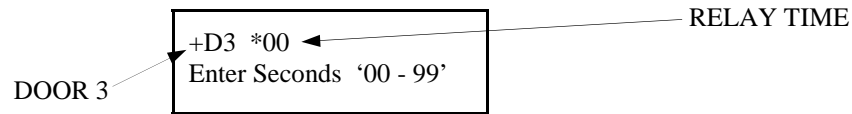
Press A)Program

Press D)Misc.

Press B)RelayTime

Which Door To Program? For our example Press 3

The display should look like this:



Enter in a 2 digit relay time. For our example: Press 05

Is This Correct A)Y B)N

Press A)Y and the relay time is now saved.

MASTER CODE

The Master Code is disabled when you receive it from the factory. If you do not want anyone to gain access to the programming modes, you can enable the 4 digit master code. When you press a key from the main menu, the display will prompt you for the master code before it will let you into the sub-menus. Make sure you have the master code written down, for if you forget it, you will have to do a master reset to clear it out.

TO ENABLE THE MASTER CODE:

Press A)Program

Press D)Misc.

Press C)MasterCode

Press A)Enable

You will be prompted with: Enter New MasterCode

Enter your 4 digit MasterCode

Is This Correct? A)Yes B)No

You will now be exited to the main menu.

Press A or B and the display should prompt you for the MasterCode. As you enter it X's will be seen on the display. If you entered the correct code, it will let you into the sub-modes.

TO CHANGE THE MASTER CODE:

Press A)Program

Enter MasterCode

Press D)Misc.

Press C)MasterCode

Press B)Change

Enter New MasterCode

Is This Correct? A)Y B)N

You will then be exited to the main menu, and the new MasterCode has taken effect.

TO DISABLE THE MASTER CODE:

If you have enabled the MasterCode, and you have decided you would like to remove it.

Press A)Program

Enter MasterCode

Press D)Misc.

Press C)MasterCode

Press A)Disable

Is This Correct? A)Y B)N

You will then be exited to the main menu, and now when you press A or B you will go directly into the sub-menu.

PRINTER SETUP

This is the printer software setup section. For dip switch settings, and wiring the printer see page 6.

IDP562 CITIZEN PRINTER

The IDP562 printer has the ability to print out invalid transactions in red. If you would like to enable this feature:

Press A)Program

Press C)Printer

Press D)Model

The default Standard Serial should be on the top line of the display. It should look like this:

To

*Standard Serial A)AAS IDP562

 choose the IDP562 press A)IDP562 , to leave it the way it
is press # to exit.

If you Pressed A)IDP562 you will be prompted with:

Is This Correct? A)Y B)N

You will then be exited to the main menu.

TO CHANGE THE PRINTER BAUD RATE

The default baud rate from the factory is 9600. To change this:

Press A)Program

Press C)Printer

Press B)SetBaudRate

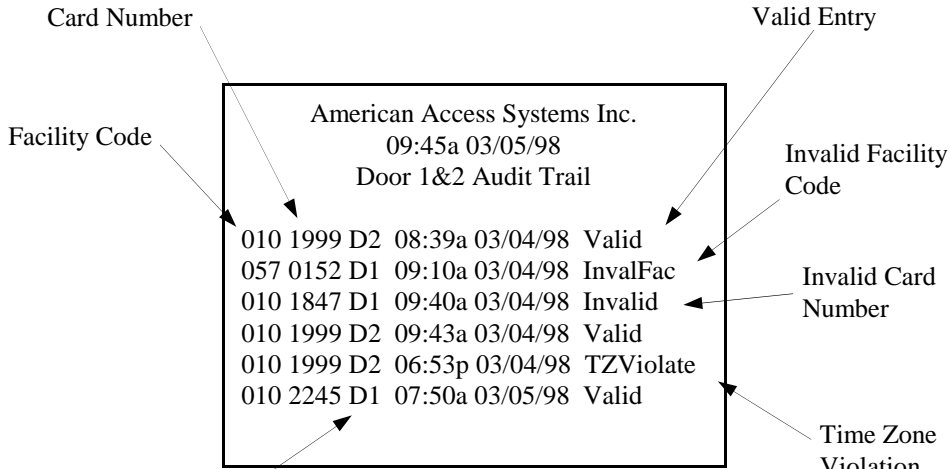
The current baud rate is displayed in the top left of the display. If this is correct press # to exit. If it is not correct Press A)9600 B)4800 C)2400 D)1200

Is This Correct? A)Y B)N

You will then be exited to the main menu.

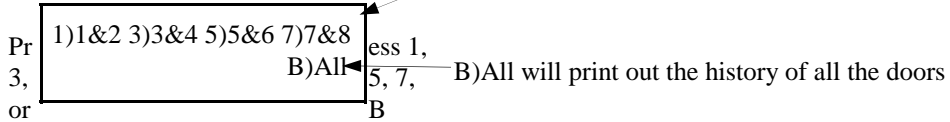
AUDIT TRAIL

The Progressive Access 8 will print out real time when hooked to a printer. The system also incorporates a 1500 transaction history buffer per door pair, for if you would like to download the history buffer every couple of days. If the 1500 transaction buffer gets full, it will roll over and start overwriting the oldest transactions. To keep this from happening you can clear the history buffer after you have down loaded it. Here is a sample of the printer print-out.



TO Door Number PRINT OUT A DOOR PAIR HISTORY:
 Pre ss A)Program
 Pre ss C)Printer
 Press A)Audit
 Press A)Door History
 Door Pair To Audit? A)Help
 The help screen will look like this:

If you only have a 4 door system the display will not give you an option for doors 5&6 and 7&8.



The display will read "Please Wait.....", and the printer will start printing.

TO PRINT OUT THE HISTORY FOR A SPECIFIC CODE (CARD):

Let's say you are interested in the activity of a specific employee, and you would like to see what he is up to:

Press A)Program

Press C)Printer

Press A)Audit

Press B)Code History

Enter Code To Audit (4 Digits)

Door Pair to Audit A)Help

The Help screen will look like this:

1)1&2 3)3&4 5)5&6 7)7&8
B)All

B)All - will search all the doors
for the specific card number

Press 1, 3, 5, 7, or B

The display will say "Please Wait....." and the history will be printed.

The display will then exit back to the Main Menu.

TO CLEAR THE HISTORY BUFFER OF A SPECIFIC DOOR PAIR:

After you print out the history buffer, you can clear it out so that the next time you download to the printer it will continue from where you last downloaded.

A)Program

Press C)Printer

Press C)ClearHist

Enter Door Pair to Clear
A)1&2 B)3&4 C)5&6 D)7&8

Press A, B, C, or D

Is This Correct? A)Y B)N

You will then be backed up to a previous menu, where you can either press C)ClearHist to clear another door pair or # to exit back to the main menu.

TO ACTIVATE A DOOR FROM THE MASTER STATION

You can activate a door by:

Press B)ActivateDoor

Press the door number you want to activate or A)Help or #)Exit

If the master code is enabled you will have to enter it before you can get into the sub-menu

Note: The door will activate for the amount of time the relay is set for.

MASTER RESET:

If you enabled the Master Code, and you have lost or misplaced it. You will need to do a Master Reset to Disable it.

TO PERFORM A MASTER RESET:

Disconnect the 'POWER DISCONNECT' jumper from the circuit board.
Press and hold down the Reset Button on the circuit board.
Reconnect the 'POWER DISCONNECT' jumper back on the circuit board.
Release the Reset Button.
The display should read, 'Enter Reset Sequence'.
Press ***
The Display should read:

Disable Master Code
Are You Sure? A)Y B)N

Press A)Y

The display will then exit back to the main menu, and the Master Code will be disabled.

UNIT RESET:

WARNING: A Unit Reset will clear everything out of the system. (cards, clock data, time zones, etc.)

TO PERFORM A UNIT RESET:

Disconnect the 'POWER DISCONNECT' jumper from the circuit board.
Press and hold down the Reset Button on the circuit board.
Reconnect the 'POWER DISCONNECT' jumper back on the circuit board.
Release the Reset Button.
The display should read, 'Enter Reset Sequence'.
Press ##
The display should read:

WARNING RESET SYSTEM!
Are You Sure? A)Y B)N

Press A)Y

The display should read, 'Please Restart System'
Disconnect the 'POWER DISCONNECT' jumper from the circuit board.
Wait a few seconds.
Reconnect the 'POWER DISCONNECT' jumper back on the circuit board.
The display should now read, "Setting Up System, Please Wait..."
The unit is now setting up all of it's memory, when the Main Menu appears, you may start programming the system.

American Access Systems, Inc.

6950-"C" S. Tucson Way

Englewood, CO 80112

TECH: (303) 799-9757

SALES: 800-541-5677

FAX: (303) 799-9756