



CFN Series

BuypassSM Credit and Debit Card Networks

Computer Programs and Documentation

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Federal Communications Commission (FCC) Warning

This equipment has been tested and found to comply with the limits for a Class A digital device pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense. Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate this equipment.

Approvals

Gasboy, Greensboro, is an ISO 9001:2000 registered facility.

Underwriters Laboratories (UL):

UL File#	Products listed with UL
MH4314	All dispensers and self-contained pumping units
MH10581	Key control unit, Model GKE-B Series Card reader terminals, Models 1000, 1000P Site Controller, Model 2000S CFN Series Data entry terminals, Model TPK-900 Series Fuel Point Reader System

California Air Resources Board (CARB):

Executive Order #	Product
G-70-52-AM	Balance Vapor Recovery
G-70-150-AE	VaporVac

National Conference of Weights and Measures (NCWM) - Certificate of Compliance (CoC):

Gasboy pumps and dispensers are evaluated by NCWM under the National Type Evaluation Program (NTEP). NCWM has issued the following CoC:

CoC#	Product	Model #	CoC#	Product	Model #	CoC#	Product	Model #
95-179	Dispenser	9100 Retail Series, 8700 Series, 9700 Series	91-019	Dispenser	9100 Commercial Series	05-002	Atlas	8700K, 8800K, 9100K, 9200K, 9800K
95-136	Dispenser	9800 Series	91-057	Controller	1000 Series FMS, 2000S-CFN Series			

Patents

Gasboy products are manufactured or sold under one or more of the following US patents:

Dispensers

5,257,720

Point of Sale/Back Office Equipment

D335,673

Additional US and foreign patents pending.

Trademarks

Non-registered trademarks

Atlas™
Consola™
Infinity™

Registered trademarks

ASTRA®
Fuel Point®
Gasboy®
Keytrol®
Slimline®

Additional US and foreign trademarks pending.

Other brand or product names shown may be trademarks or registered trademarks of their respective holders.

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1 – Introduction

Purpose

This manual contains information to set up a Cash Flow Network (CFN) Site Controller. If you are connecting the site to BuypassSM for card verification, use this manual for reference.

Related Documents

CFN III - Version 3.4 and Later

Document Number	Title	GOLD Library
C35923	Point of Sale and Shift Change	Gasboy CFN Series Controllers and POS
MDE-4315	Site Controller III Manager's Manual for Windows NT Version 3.4	Gasboy CFN Series Controllers and POS
MDE-4316	Site Controller III Configuration Manual for Windows NT Version 3.4	Gasboy CFN Series Controllers and POS
MDE-4479	CFN III Quick Reference Guide v3.4	Gasboy CFN Series Controllers and POS
MDE-4739	CFN III PCI Secure Controller Software Installation/Upgrade Instructions (for CFN III Versions 3.6A and Later)	Gasboy CFN Series Controllers and POS
MDE-4773	CFN III Configuration Manual for Windows® XP	Gasboy CFN Series Controllers and POS
MDE-4793	CFN Series Site Controller III Start-up Manual for CFN III Versions 3.5 and above	CFN Series Controllers and POS
MDE-4870	CFN III Fuel Management System PA-DSS Implementation Guide Version 3.6	CFN Series Controllers and POS
MDE-4871	CFN III Manager's Manual for Windows XP Embedded Version 3.6	CFN Series Controllers and POS
MDE-4872	CFN Series CFN III Configuration Manual for Windows XP Version 3.6	CFN Series Controllers and POS
MDE-4873	CFN Series Site Controller III Start-up Manual for CFN III Versions 3.6 and Later	CFN Series Controllers and POS

Card Encoding and Miscellaneous

Document Number	Title	GOLD Library
MDE-4602	CFN Series Card Encoding Manual	Gasboy Card/Key Encoding

Technical Publications

Document Number	Title	GOLD Library
C01759	CFN Diagnostic Manual	Gasboy CFN Series Controllers and POS

Pump Interface

Document Number	Title	GOLD Library
C09146	Site Controller Pump Interface Manual	Gasboy CFN Series Networks, Card Handlers, and Pump Interface
MDE-4337	CFN Series Gilbarco CRIND Interface for SC III with Windows NT	Gasboy CFN Series Networks, Card Handlers, and Pump Interface
MDE-4501	Wayne® CAT PC Interface, SCIII, Windows NT	Gasboy CFN Series Networks, Card Handlers, and Pump Interface
MDE-4559	Insight Interface Installation Guide	Gasboy CFN Series Networks, Card Handlers, and Pump Interface
MDE-4624	Gasboy CFN Series Tokheim® Pump PC Interface	Gasboy CFN Series Networks, Card Handlers, and Pump Interface
MDE-4634	CFN Series Gilbarco Pump PC Interface	Gasboy CFN Series Networks, Card Handlers, and Pump Interface
MDE-4651	Wayne Pump PC Interface for SC III Windows NT	Gasboy CFN Series Networks, Card Handlers, and Pump Interface

Abbreviations and Acronyms

Term	Description
AFD	Automated Fuel Dispenser
AVS	Address Verification Service
CFN	Cash Flow Network
CRIND®	Card Reader IN Dispenser
DES	Data Encryption Standard
DUKPT	Derived Unique Key Per Transaction
Hughes® PES	Hughes Personal Earth Station
ICR	Island Card Reader
ID	Identification
PCI	Payment Card Industry
PED	PIN Entry Device
POS	Point Of Sale
VSAT	Very Small Aperture Terminal
WEX SM	Wright Express

Cards Accepted

The Credit Cards currently accepted by the Buypass network are listed below:

- MasterCard®
- VISA®
- American Express®
- Discover®
- JCB
- ATM Debit Cards
- Buypass Fleet Card
- Fuelman® Plus
- Gascard® Access
- Gulf
- MasterCard Fleet
- Sinclair® Gift
- Sinclair Retail
- Sinclair Driver Thankyou
- VISA Fleet
- Voyager
- Wright Express (WEX)
- Stored Value

Gasboy software for Buypass host system is compliant with PCI-DSS standards when used with PCI-certified CFN III version 3.6A or later. The modular/integral Profit Point must be running version 3.5H or later.

Warranty

For information on warranty, refer to MDE-4255 Gasboy's Warranty Policy Statement. If you have any warranty-related questions, contact Gasboy's Warranty Department at its Greensboro location.

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2 – Important Safety Information

This section introduces the hazards and safety precautions associated with installing, inspecting, maintaining or servicing this product. Before performing any task on this product, read this safety information and the applicable sections in this manual, where additional hazards and safety precautions for your task will be found. Fire, explosion, electrical shock or pressure release could occur and cause death or serious injury, if these safe service procedures are not followed.

Preliminary Precautions

You are working in a potentially dangerous environment of flammable fuels, vapors, and high voltage or pressures. Only trained or authorized individuals knowledgeable in the related procedures should install, inspect, maintain or service this equipment.

Emergency Total Electrical Shut-Off

The first and most important information you must know is how to stop all fuel flow to the pump/dispenser and island. Locate the switch or circuit breakers that shut off all power to all fueling equipment, dispensing devices, and Submerged Turbine Pumps (STPs).

⚠ WARNING

 The EMERGENCY STOP, ALL STOP, and PUMP STOP buttons at the cashier's station WILL NOT shut off electrical power to the pump/dispenser. This means that even if you activate these stops, fuel may continue to flow uncontrolled.

 You must use the TOTAL ELECTRICAL SHUT-OFF in the case of an emergency and not the console's ALL STOP and PUMP STOP or similar keys.

Total Electrical Shut-Off Before Access

Any procedure that requires access to electrical components or the electronics of the dispenser requires total electrical shut off of that unit. Understand the function and location of this switch or circuit breaker before inspecting, installing, maintaining, or servicing Gasboy equipment.

Evacuating, Barricading and Shutting Off

Any procedure that requires access to the pump/dispenser or STPs requires the following actions:



- An evacuation of all unauthorized persons and vehicles from the work area
- Use of safety tape, cones or barricades at the affected unit(s)
- A total electrical shut-off of the affected unit(s)

Read the Manual

Read, understand and follow this manual and any other labels or related materials supplied with this equipment. If you do not understand a procedure, call a Gasboy Authorized Service Contractor or call the Gasboy Service Center at 1-800-444-5529. It is imperative to your safety and the safety of others to understand the procedures before beginning work.

Follow the Regulations

Applicable information is available in National Fire Protection Association (NFPA) 30A; *Code for Motor Fuel Dispensing Facilities and Repair Garages*, NFPA 70; *National Electrical Code (NEC)*, Occupational Safety and Hazard Association (OSHA) regulations and federal, state, and local codes. All these regulations must be followed. Failure to install, inspect, maintain or service this equipment in accordance with these codes, regulations and standards may lead to legal citations with penalties or affect the safe use and operation of the equipment.

Replacement Parts

Use only genuine Gasboy replacement parts and retrofit kits on your pump/dispenser. Using parts other than genuine Gasboy replacement parts could create a safety hazard and violate local regulations.

Safety Symbols and Warning Words

This section provides important information about warning symbols and boxes.

Alert Symbol



This safety alert symbol is used in this manual and on warning labels to alert you to a precaution which must be followed to prevent potential personal safety hazards. Obey safety directives that follow this symbol to avoid possible injury or death.

Signal Words

These signal words used in this manual and on warning labels tell you the seriousness of particular safety hazards. The precautions below must be followed to prevent death, injury or damage to the equipment:



DANGER: Alerts you to a hazard or unsafe practice which will result in death or serious injury.



WARNING: Alerts you to a hazard or unsafe practice that could result in death or serious injury.



CAUTION with Alert symbol: Designates a hazard or unsafe practice which may result in minor injury.

CAUTION without Alert symbol: Designates a hazard or unsafe practice which may result in property or equipment damage

Working With Fuels and Electrical Energy

Prevent Explosions and Fires

Fuels and their vapors will explode or burn, if ignited. Spilled or leaking fuels cause vapors. Even filling customer tanks will cause potentially dangerous vapors in the vicinity of the dispenser or island.

Important Safety Information

No Open Fire



Open flames from matches, lighters, welding torches or other sources can ignite fuels and their vapors.

No Sparks - No Smoking



Sparks from starting vehicles, starting or using power tools, burning cigarettes, cigars or pipes can also ignite fuels and their vapors. Static electricity, including an electrostatic charge on your body, can cause a spark sufficient to ignite fuel vapors. Every time you get out of a vehicle, touch the metal of your vehicle, to discharge any electrostatic charge before you approach the dispenser island.

Working Alone

It is highly recommended that someone who is capable of rendering first aid be present during servicing. Familiarize yourself with Cardiopulmonary Resuscitation (CPR) methods, if you work with or around high voltages. This information is available from the American Red Cross. Always advise the station personnel about where you will be working, and caution them not to activate power while you are working on the equipment. Use the OSHA Lockout/Tagout procedures. If you are not familiar with this requirement, refer to this information in the service manual and OSHA documentation.

Working With Electricity Safely

Ensure that you use safe and established practices in working with electrical devices. Poorly wired devices may cause a fire, explosion or electrical shock. Ensure that grounding connections are properly made. Take care that sealing devices and compounds are in place. Ensure that you do not pinch wires when replacing covers. Follow OSHA Lockout/Tagout requirements. Station employees and service contractors need to understand and comply with this program completely to ensure safety while the equipment is down.

Hazardous Materials

Some materials present inside electronic enclosures may present a health hazard if not handled correctly. Ensure that you clean hands after handling equipment. Do not place any equipment in the mouth.

WARNING

The pump/dispenser contains a chemical known to the State of California to cause cancer.

WARNING

The pump/dispenser contains a chemical known to the State of California to cause birth defects or other reproductive harm.

In an Emergency

Inform Emergency Personnel

Compile the following information and inform emergency personnel:

- Location of accident (for example, address, front/back of building, and so on)
- Nature of accident (for example, possible heart attack, run over by car, burns, and so on)
- Age of victim (for example, baby, teenager, middle-age, elderly)
- Whether or not victim has received first aid (for example, stopped bleeding by pressure, and so on)
- Whether or not a victim has vomited (for example, if swallowed or inhaled something, and so on)

WARNING



Gasoline ingested may cause unconsciousness and burns to internal organs.

Do not induce vomiting.
Keep airway open.
Oxygen may be needed at scene.
Seek medical advice immediately.

WARNING



Gasoline inhaled may cause unconsciousness and burns to lips, mouth and lungs.

Keep airway open.
Seek medical advice immediately.

WARNING



Gasoline spilled in eyes may cause burns to eye tissue.

Irrigate eyes with water for approximately 15 minutes.
Seek medical advice immediately.

WARNING



Gasoline spilled on skin may cause burns.

Wash area thoroughly with clear water.
Seek medical advice immediately.

IMPORTANT: Oxygen may be needed at scene if gasoline has been ingested or inhaled. Seek medical advice immediately.

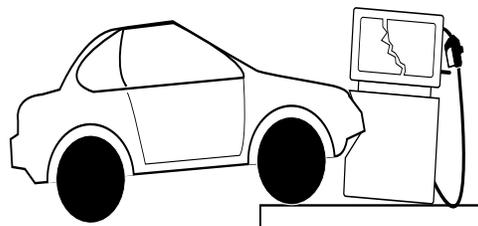
Lockout/Tagout

Lockout/Tagout covers servicing and maintenance of machines and equipment in which the unexpected energization or start-up of the machine(s) or equipment or release of stored energy could cause injury to employees or personnel. Lockout/Tagout applies to all mechanical, hydraulic, chemical or other energy, but does not cover electrical hazards. Subpart S of 29 CFR Part 1910 - Electrical Hazards, 29 CFR Part 1910.333 contains specific Lockout/Tagout provision for electrical hazards.

Hazards and Actions

	WARNING
	Spilled fuels, accidents involving pumps/dispensers, or uncontrolled fuel flow create a serious hazard.
	Fire or explosion may result, causing serious injury or death. Follow established emergency procedures.

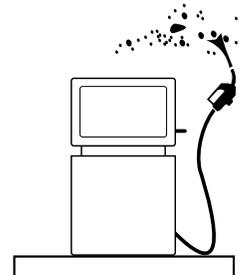
The following actions are recommended regarding these hazards:



Collision of a Vehicle with Unit



Fire at Island



Fuel Spill

- Do not go near a fuel spill or allow anyone else in the area.
- Use station EMERGENCY CUTOFF immediately. Turn off all system circuit breakers to the island(s).
- Do not use console E-STOP, ALL STOP, and PUMP STOP to shut off power. These keys do not remove AC power and do not always stop product flow.
- Take precautions to avoid igniting fuel. Do not allow starting of vehicles in the area. Do not allow open flames, smoking or power tools in the area.
- Do not expose yourself to hazardous conditions such as fire, spilled fuel or exposed wiring.
- Call emergency numbers.

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3 – Configuration

Preparing for Configuration

Before you configure the Site Controller for connection to the network, you must determine the types of cards you will accept. Your Buypass representative must also know this information.

Note: Your Buypass representative may be, your local bank network.

Before you configure, you must also obtain the following information from your Buypass representative:

- Your 13-digit terminal ID, DDSSMMMMMMTTT

Note: The first two digits indicates the type of equipment at the site. For example, 05 is for island sales-only sites, and 28 is for sites that must differentiate between island and inside sales. The next two digits indicates the State code. Your merchant number is six digits, and the terminal number is three digits.

- The phone number you dial to receive your initial downloaded information from the Buypass network computer.
- The baud rate for modem communications

You will require a modem for authorization. This is in addition to a modem used to poll transactions.

IMPORTANT INFORMATION

The Buypass.DLD file is now stored on the P: drive instead of the R: drive. The sys_par parameter, More Router Data, found on page 8, is no longer used to set the drive location or to enable/disable modem pre-dial.

The Buypass software meets the compliance of Visa PIN Entry Device (PED) and Payment Card Industry (PCI) when used with approved PIN Pad devices. All default PIN Pad prompts will work with VeriFone® and Ingenico® Visa PED certified PIN Pads. To modify the default Island Card Reader (ICR) prompts, refer to MDE-4773 CFN III Configuration Manual for Windows XPE to modify the default Island Card Reader (ICR) prompts. Meeting Visa PED or PCI requirements restricts the number of prompts that are allowed.

Prompts are designed to meet current Visa PED and PCI standards. Current VeriFone and Ingenico PIN Pads will not allow a non-compliant prompt to be displayed. Therefore, when setting up the prompts for local cards, it would be a good practice to set up the prompts in a manner that meets the Visa PED and PCI standards. For prompt message options, refer to [“Console \(CONSOLE\)”](#) on page 11 and [“Island Card Reader \(READER\)”](#) on page 12.

Configuring the Site Controller

System Parameters (SYS_PAR)

The configuration requirements are defined in the following table.

Note: The page numbers provided are those of the SYS_PAR program. The “Checking” settings are required only if the site accepts Debit Cards.

Club Card Format - Page 2

Digits in credit PIN	4
----------------------	---

Reader Verification - Page 4

Use remote verification (reader)	Checking, credit
Use local verification (reader)	Club
Check mod 10 (reader)	None
Check expiration date (reader)	Checking, credit (and, optionally, club)
Lockout on remote verification (reader)	None

Console Verification - Page 5

Use remote verification (console)	Checking, credit
Use local verification (console)	Club
Check mod 10 (console)	None
Check expiration date (console)	Checking, credit (and, optionally, club)
Lockout on remote verification (console)	None

Serial Port Configuration - Page 8

Host handler channel	The host modem port number. The default port number is none, which is set using MODEMS.BIN.
Host router data	The 13-digit terminal ID received from your Buypass representative.
More router data	<spacebar> <i>Note: This must be blank. The parameter is no longer used for Buypass configuration.</i>
Send requests to host handler	Set to 24 for credit and checking
Host handler data	Two digit numbers. The default numbers are 00 20 00 00. Enter the numbers by typing the following: 00 Enter 20 Enter 00 Enter 00 Enter 00 Enter Enter <i>Note: Repeat Enter as required, to exit host handler data.</i> <ul style="list-style-type: none"> The first two digits are maintained by the MODEM.BIN program. The second two digit number is a hexadecimal value for the number of seconds to allow the carrier to be received (this is called Carrier Timeout). The default 20 sets it for 32 seconds. Setting it for 10 would make it 16 seconds, 18 would be 24 seconds, 28 would be 40 seconds, and 30 would be 48 seconds. <i>Note: Carrier Timeout cannot be set to greater than or equal to the number of seconds as the Verification Timeout parameter, as on "System Parameters (SYS_PAR)" on page 10.</i> The third two digit number is not used. The fourth two digit number is the carrier synchronization time in tenths of a second. The range is 03 and 06. Setting it to 00 is the same as 03 (or three-tenths of a second). The fifth two digit number is the time in seconds to wait for ENQ. The range is 01-30. The default is 15 seconds, which is used if the value is set to 00. Some sites will show improved connectivity if this is set to 3 seconds. If setting up a Very Small Aperture Terminal (VSAT), the sixth two digit number is required. Refer to "Connection to a Hughes VSAT" on page 30 for specific settings. The fifteenth two digit number is maintained by the DEBUG.BIN program (refer to "Troubleshooting Communications" on page 26). The sixteenth two digit number is maintained by the DEBUG.BIN program (refer to "Troubleshooting Communications" on page 26).

Transaction Miscellany - Page 11

Bank PIN Data Encryption Standard (DES)	YES
---	-----

Console (CONSOLE)

Information on the content of some of the console parameters that affect network operations are listed below. Following are the required settings:

Console Parameter	Setting
Allow hand entry of card data	Yes
Mod 10 check on hand entered non-club cards	No
POS asks for odometer on fuel sale	1 (card encoded)
POS asks for auxiliary # on fuel sale	1 (card encoded)
POS asks for odometer on merchandise sale	1 (card encoded)
POS asks for auxiliary # on merchandise sale	1 (card encoded)

The default Buypass configuration also includes parameters for accepting manually-entered account numbers for Wright Express, Voyager, and Gulf, after the clerk presses the appropriate network key.

The Console parameters for Odometer and Auxiliary prompts must be acceptable to the new PCI-compliant PIN Pads. For acceptable system prompts, refer to “[Island Card Reader \(READER\)](#)”. If the prompts deviate from the suggested list, the PIN Pad will not work correctly. For details on setting up the Console, refer to MDE-4773 CFN III Configuration Manual for Windows XP.

Island Card Reader (READER)

The ICR must be set up to prompt for specific information, depending on the types of cards the site will accept:

- The Select Pump step must be performed before the Verify Card step.
- If Fleet Cards are accepted, ensure that the reader prompts for the auxiliary information and odometer reading before it verifies the card.
- If Wright Express cards are accepted, ensure that the reader prompts for the odometer reading before it verifies the card, and ensure that the number of digits to enter the field under the Enter PIN parameter is set to 6.

To meet the industry PCI requirements, prompts are restrictive in what can be displayed. The following is a list of suggested prompts to be displayed for Vehicle Number and Odometer. If the prompts entered deviate from the table below, it is possible that the reader device may not work correctly.

Vehicle Prompts	Odometer Prompts
ENTER VEHICLE NO	ENTER ODOMETER
ENTER VEHICLE ID	ODOMETER NUMBER
ENTER VEH TAG	ODOMETER READING
ENTER VEHICLE #	ENTER ODOMETER #
ENTER VEH TAG #	ODOMETER #

To process Club and/or Debit Cards, the PIN prompt step (type 3) must be added twice, contiguously. The first PIN step is used for the prompting of Fleet Cards. The second PIN step is used to prompt for a Debit Card’s PIN number. To avoid confusion, always include both PIN steps, even if Club or Debit Cards are not accepted.

- The first PIN step is used for local cards. Newer PIN Pads and dispensers will only accept specific type of prompts for a Fleet Card PIN number. Following are some of the most common acceptable prompts.

Enter Personal ID

Enter Driver Number

Enter Club ID

Enter Fleet PIN

Enter ID Number

- The second PIN step is used to prompt for an encoded secure PIN number, which is associated with Debit Cards. Unlike the local and Fleet Card prompts, the second PIN prompt is not restricted to a limited set of acceptable prompts. The most common debit prompts are as follows:

```

Enter Your PIN
-----
Enter PIN Number
-----
Enter secure PIN
-----

```

Note: The sequence number for the two PIN steps are contiguous. The second PIN step must immediately follow the first PIN prompt and both PIN steps must be present, even if Debit or Club Cards are not accepted.

Following is an example of how the Odometer, Vehicle, and PIN prompts are used.

Figure 3-1: Odometer, Vehicle, and PIN Prompts

```

CFN3
# Ty S/D DISPLAY WHILE ENTERING OPTIONS
1 1 1 < < SLIDE CARD < < ? ?
2 3 6 ? ENTER DRIVER NO ?Driver Number ? Optional Mask
3 3 4 ? ENTER PIN NO ?Your PIN ? Optional Mask
4 7 8 ? ENTER ODOMETER ?Odometer ? Optional
5 6 6 ? ENTER VEHICLE # ?Vehicle ? Optional
6 2 2 ? SELECT PUMP NUMBER ?Pump
7 9 ? Please Wait ?
8 10 ? ? ?
9 14 2 ?Pump #XXX selected ?
10 20 2 ?PROD ?0.000 ?
11 13 2 ? Thank You! ?
12 ? ? ?
-----
A-add, D-delete, M-modify, T-transfer, Q-quit, or RET-next page:

```

Note: The ICR can be used for all prompts except debit transactions. Secure debit PIN numbers cannot be entered on the ICR.

Tables (TABLE)

The receipt table must have at least 100 entries.

Transaction Format (TRFMT)

Ensure that the transaction printout format includes the following:

- Authorization number (field type 3)
- Dollar amount (field type 11)
- Expiration date (field type 28)

Ensure that the card account number, even if split among two or more fields does not total to more than 19-digits.

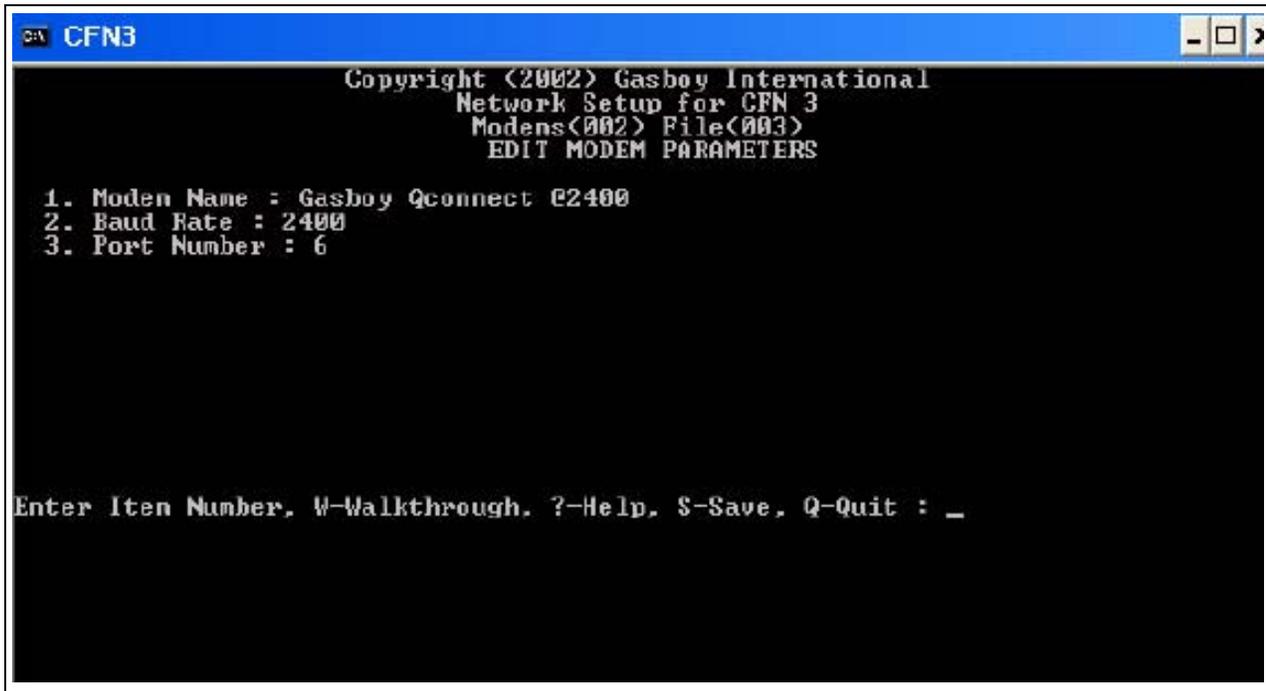
The format must also include the minimum number of digits in the types of cards you accept. This will help if you must perform a settlement manually.

Modem Setup

To set up the modem, proceed as follows:

- 1 Type **MODEMS** at the command line to set up your modem.

Figure 3-2: Modem Setup



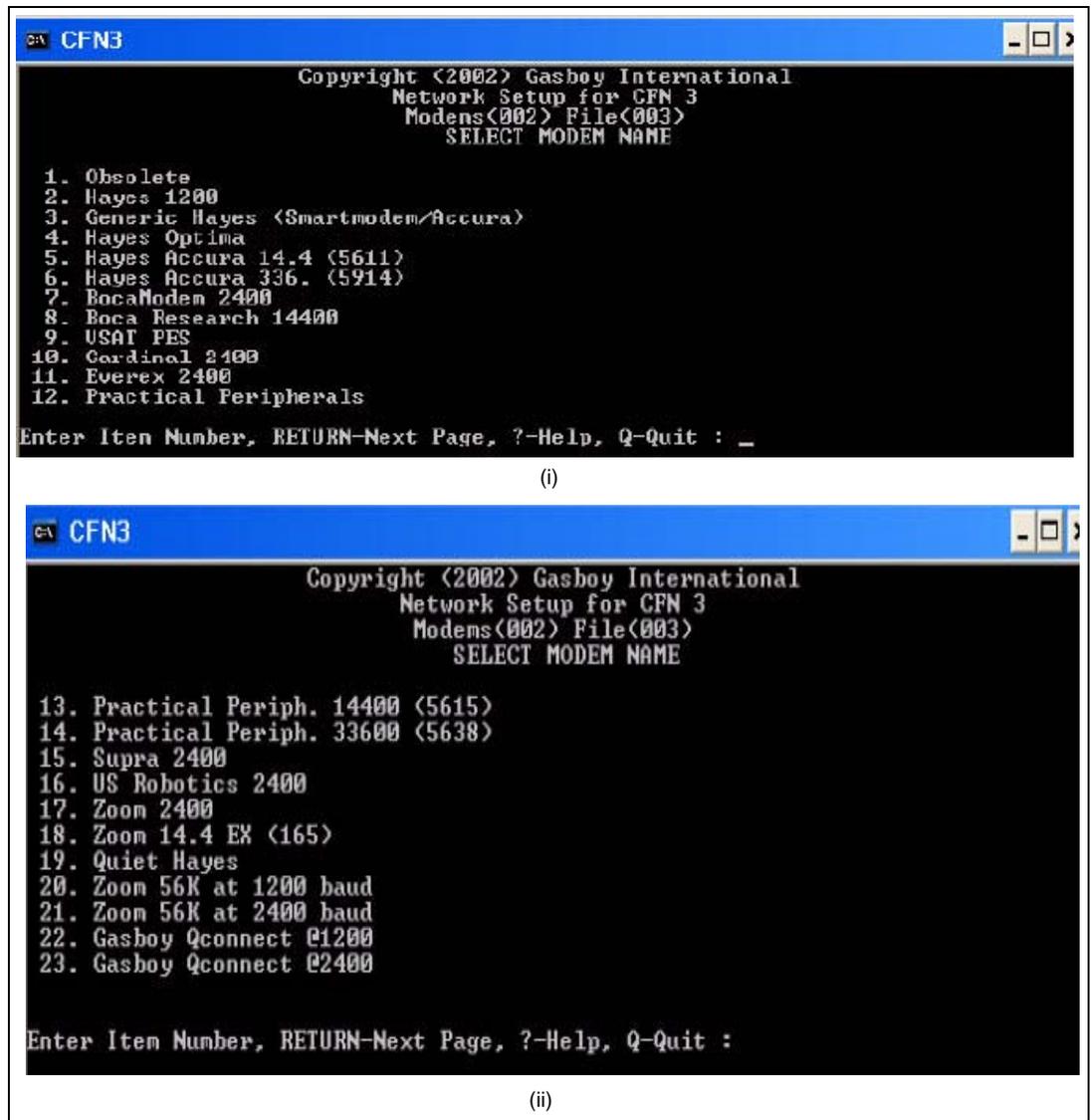
```
CFN3 Copyright (2002) Gasboy International
      Network Setup for CFN 3
      Modems(002) File(003)
      EDIT MODEM PARAMETERS

1. Modem Name : Gasboy Qconnect @2400
2. Baud Rate : 2400
3. Port Number : 6

Enter Item Number, W-Walkthrough, ?-Help, S-Save, Q-Quit : _
```

- 2 Select item number **1**, **Modem Name**, to display the following screens to select the type of modem.

Figure 3-3: List of Modems



- 3 After selecting the modem for the system, enter the correct baud rate and port (see [Figure 3-2](#) on [page 14](#)). Change the baud setting by entering the number next to the baud rate shown at the bottom of the screen. For example, entering 2 will set the baud rate to 1200.
Note: If VSAT is used, the baud rate must be set to 2400.
- 4 For port, enter the port number. For example, entering 4 will set the port to 4. The available ports are 4 to 6.
- 5 Select **SAVE** after setting up the modem.
*Note: If you select **Q-Quit**, you are given a second chance to save any changes. At the prompt "Quit without saving changes [y/n]", select **No** and then select **Save** to save the new changes.*

Bypass Initialization

The Bypass router must be initialized when important changes are made, such as changing the merchant ID.

To initialize Bypass, proceed as follows:

- 1 Rename the BUYPASS.DLD file by typing the following at the command line:
RENAME BUYPASS.DLD BUYPASS.OLD
- 2 Reboot the Site Controller by typing **REBOOT**.
- 3 When the site turns on, type **MODEMS** and setup the modem. If the information displayed is already correct, select **2** and re-enter the number that corresponds with the correct baud rate. Enter **S** to save and reboot the site. This will create a new BUYPASS.DLD file.
- 4 Contact the Bypass customer support and have them set the flag for a table download.
- 5 Type **BUYSTL P** to get the download.

Special System Setup

LOAD PRODUCT

Ensure that you have used the uppercase letters R, S, U, D, or F (the first letter of the fuel descriptions for Regular, Super unleaded, Unleaded, Diesel, and Farm-offroad) to designate the fuel products with the LOAD PRODUCT command. You must use the letters, for example, in the names Regular, Supreme, Unleaded, Diesel and Farm-offroad or you could use R1, R2, and so on.

The symbols are case sensitive and must be the first letter of the word(s) used. Consult your Bypass representative to name other fuels.

LOAD PHONE

After configuring the Site Controller, use the command LOAD PHONE 3 to load the phone number supplied by Bypass into the Site Controller. For example, LOAD PHONE 3 19015551212. This phone number will allow you to receive your initial download of information from Bypass, and you will not use this command again unless something must happen to this download information. After you have downloaded the Bypass file, check using BUYPASS-D for the correct number. If there are problems, delete the downloaded phone number and start again.

BUYSTL P

After you have configured the Site Controller, use this command to request a download of Buypass information.

Note: You must coordinate your use of this command with your Buypass representative and use this command before you can authorize cards through Buypass.

ENABLE PRODUCT

Buypass provides a feature that allows certain types of merchandise to be totaled separately from the rest (this feature is for accounting purposes only, the customer is charged the same rate). This feature can be used to select the categories like repairs.

Use the command **ENABLE PRODUCT X 15**, where **X** is the product number and **15** indicates the repair category. The feature works on postpay transactions only.

AVS

Address Verification Service (AVS) can be setup for the following cards:

- Visa
- MasterCard
- Discover
- American Express

The cards can be setup for using or not using AVS in the BUYPASS Configuration Menu, using option '-Z'. When a card is setup for AVS, the system will prompt for a zip code on the outside Automated Fuel Dispenser (AFD) reader. If the same card is used at the POS, the system will not prompt for a zip code to be entered.

Modem Pre-dial

The bank modem can be setup for pre-dial using the '-F' option. If the modem pre-dial is enabled, the modem will dial the host as soon as the card is swiped. If disabled, it will not start dialing until the last prompt is displayed, when multiple prompts and entries are required.

To enable modem pre-dial, type **BUYPASS -FY**. To disable the option, type **BUYPASS -FN**. To view the current pre-dial setting, type **BUYPASS -F**.

Debit Card Processing

Debit Cards are allowed for postpay sales, pre-authorizations and completions, and returns. The Buypass network system now uses a Derived Unique Key Per Transaction (DUKPT) method of key control and PIN block transfer to the host system. There is no key download for processing this type of debit. The keys must be obtained from an authorized AFD company or from the designated Buypass injection facility.

Note: To accept Debit Cards at the Profit Point, the Bank PIN DES parameter in SYS_PAR, page 11, must be set to "YES".

Use the LOAD KEY command to set the system into DUKPT mode. The data entered must be exactly 18 characters (two digit ID followed by 16 zeros). The key type is "00" and the second key type is a one followed by an F (1F).

Enter the following commands:

*Note: Do not type the quotation marks as they are for identifying the command or data to be entered and <enter> indicates that you must press the **Return** or **Enter** key.*

- "load key" <enter>
- "000000000000000000" <enter>
- "load key" <enter>
- "1F0000000000000000" <enter>

Set up the Profit Point keyboard to process debit transactions. A debit key can be set up through the Profit Point configuration menu. Refer to the keyboard configuration information in MDE-4356 Profit Point Reference Manual.

Debit transactions can be processed through the Profit Point, CRIND, CAT, and Insight readers. They cannot be processed through the ICR.

CASH BACK

The Bypass network supports CASH BACK for debit transactions only. Cash back is allowed for dollar amounts (above \$1.00 and not coins). A Gasboy product must be set up as an enabled withdrawal product type (3) and with the minimum and maximum amount allowed with no tax. The merchant can provide cash back service by selecting the cash back product and entering the amount of cash to be provided to the customer. The debit sale will be processed as any other normal debit sale, with the exception of cash being owed to the card holder. The receipt will list the cash back Gasboy product and the amount. This provides the customer accurate information about the sale and the amount of cash back.

Special Bypass Console Operations

Special Credit Card Keys for Manual Entry

With Bypass, you must set up special keys on the console for handling the manual entry of certain types of Credit Cards. The manual entry process is identical to the standard method of using the key. For more information, refer to MDE-4356 Profit Point Reference Manual.

Profit Point Consoles

On the Profit Point, special function 68 calls up the network-card-selection menu. You can deactivate the networks that are not required by entering asterisk in the first column in the appropriate line in the CONFIG.POS file. This will change these lines to comments. Following is a list of cards and numbers that can be used with the Bypass network.

WEX = 99

Voyager = 97

Gulf = 91

Authorization-only Transactions

To authorize a card and not apply any charge, an authorization-only transaction is available. This might occur when a pre-check of credit is required before performing an expensive service.

Before performing this transaction, the sale must be paid off.

MDSE PRESET *dollar amount* **ENTER CREDIT** card acceptance

Following is an example of an Authorization-only transaction.

Operator Action	Profit Point Display	Notes
Press MDSE		
Press PRESET	Enter pre-auth amount	Dollar amount to be authorized.
Enter dollar amount	Pre-auth amount: \$15.00	
Press CREDIT	Pre-auth \$150.00 Slide card thru reader	
Slide card or enter Card Number and Expiration Date	Enter PIN on PIN Pad	The Enter ID message may not appear, as it is optional. The customer may be prompted for other information, such as Vehicle Number or Odometer.
Customer enters PIN on the PIN Pad	Verifying Press STOP to cancel	
Wait for approval	Approved 123456 or denial message	A transaction will log and a receipt can be printed. Retain a copy of the authorization number so it can be used when paying off the pre-authorized transaction.

Pre-authorization Transactions

To pay off a transaction that had previously been authorized, a Pre-authorization transaction is used. This must be used to pay off an Authorization-only transaction or to pay off a transaction that had received voice authorization after normal authorization attempts had failed.

PUMP # SPEC FUNC 11 CREDIT card acceptance

MDSE SPEC FUNC 11 CREDIT card acceptance

Following is an example of a pre-authorization on a merchandise sale.

Operator Action	Profit Point Display	Notes
Enter the merchandise sale		
Press SPEC FUNC 11	Enter the Auth Number	
Press CREDIT	Total \$150.00 Slide card thru the reader or press CREDIT for hand authorization	
Slide card or enter Card Number and Expiration Date	Enter ID on PIN Pad	The Enter PIN message may not appear, as it is optional. The customer may be prompted for other information, such as Vehicle Number or Odometer.
Customer enters optional data, if required	Verifying Press STOP to cancel	
Wait for approval	Approved 123456 or denial message	A transaction will log and a receipt can be printed.

Imprinter Message

When some cards are approved by Buypass, a “Use Imprinter #####” message appears, where ##### is the authorization number. Consult the Buypass Help Desk on how to handle such cards.

If a customer tries to use an “imprinter” card at an ICR, the customer will be directed with a “Pay inside” prompt.

With some other cards, the use imprinter message might be followed by a 1-800 telephone number. You must call the number for instructions on how to proceed.

Special Buypass Considerations

Manually-entered Voyager transactions ask for an “RC” (Restriction Code). The Restriction Code is embossed on the Voyager card, preceding the expiration date. Returns are not allowed on Gulf, Gascard, and Fuelman cards.

Settlement for Buypass

How Settlement Works

Ensure that the files BUYSTL.CMD and BUYPASS.BIN are in the Site Controller’s search path. There will be a settlement done with Buypass once a day, and this is accomplished automatically with the use of a Cron command. Settlement is done to post the day’s sales for billing, and to check the system’s totals against Buypass to verify that the systems agree. The manager must pay attention to the settlement reports and contact Buypass if there is any discrepancy.

Note: Buypass settlement is not intended to match the daily credit totals exactly. Unless you stop the site and coordinate the time with Buypass, the totals will not agree.

The system will automatically generate a Cron entry to execute Buypass’ BUYSTL (Buypass Settle) command at a specified number of minutes prior to the cut-over time provided in the Buypass downloaded information. Buypass will set the time when they download the initial parameters. If you want to change this time, you will have to make arrangements with Buypass.

When settlement occurs, a report will be generated on the local log printer and stored in a disk file. There will be a report saved for every day of the week, stored in the directory BUYREP, in files named DAY.MON, DAY.TUE, DAY.WED, and so on.

The BUYSTL command also accepts the following arguments to perform other functions:

Argument	Effect
#	# stands for a single digit between one and nine. It causes Buypass to send shift totals. Use this command at the end of a shift, with the number used in the argument being the same as the number of the shift that is ending.
mmddyy	Produces a settlement report for the specified day, where mm is the month, dd is the day, and yy the year.
P	Requests a download of information from Buypass. Do not use this argument with the command unless advised to do so by the Buypass customer service personnel.
-S	Performs settlement processing on the most recent Buypass settlement report. The -S argument must be followed by either an S or D (uppercase or lowercase); S specifies the most recent End-Of-Shift report, D specifies the most recent End-Of-Day report.
111111	Requests a report with totals so far for the current shift.
222222	Starts a new day and produces the settlement report for the previous day.
999999	Starts a new shift and produces the settlement report for the previous shift.

Settlement Report

The printed and logged settlement report will look like the following example. Depending on the type of cards processed, there may be more or fewer columns in the report.

Figure 3-4: Settlement Report

```

***** Buypass shift 2 report for Fri 11/12/98 *****
          MC/VISA          T / E          DISCOVER
FUEL      1594.20          233.47          105.45
MDSE      288.98           21.35           65.09
TOT$     1883.18          254.82          170.54
COUNT    145             19              15
          AUTH           FLEET
FUEL      798.13          677.32
MDSE      62.25
TOT$     860.38          677.32
COUNT    59             51
TOT$     2985.86          ADJ $           .00
GALS      R 301.21          U 1245.83          S 322.97
          D 688.52
TRANS DATE 1/12/98 TIME 05:55
LAST DEPOSIT 2755.42 1/11/98
Buypass reconciliation
  Gasboy total: $2985.86
  Buypass total: $2985.86 ---- Balanced

```

There are five card categories in the Buypass report:

- MasterCard/VISA
- T/E (Travel and Entertainment, and includes American Express)
- Discover
- Fleet
- Auth, which includes all pre-authorized transactions from the other four categories. This means that each pre-authorized transaction is entered twice; once under the card used and again under Auth. To avoid counting the total of pre-authorized sales twice, the Auth total is not included in the Gasboy and Buypass reconciliation totals that are supposed to balance.

The Buypass report displays the following parameters:

Parameter	Description
FUEL	Dollars of fuel purchased in each of the five categories.
MDSE	Dollars of merchandise purchased in each of the five categories.
TOT\$	The total dollars purchased with each of the card types.
COUNT	The number of transactions for each card type.
TOT\$	The total dollars for all card types.
ADJ\$	Any adjustment made by Buypass.
GALS	The number of gallons sold on cards for each type of fuel: <ul style="list-style-type: none"> • R - Regular • U - Unleaded • S - Supreme • D - Diesel
TRANS DATE	The date of the current settlement.
TIME	The time of the current settlement.
LAST DEPOSIT	Yesterday's balance.
RECONCILIATION	The total amount sent by the site, and the total amount received by Buypass. If the two amounts are equal, the balance appears to the right of the Buypass total. If the settlement is out of balance, contact Buypass technical support.

Using BUYPASS

Following is an example of the information that will be presented when BUYPASS is typed without any parameters following the command.

Figure 3-5: Buypass Configuration

```

Buypass Configuration

Buypass Merchant Sys_par Information: 2813001691001
Terminal Type : 28
State Code : 13
Merchant ID : 001691
Terminal ID : 001

Buypass Host Dial Numbers: (Predial is set)
Dial String 1: 9B18002795871
Dial String 1: 9B18002795871
Dial String 1: 9B7709334530

Modem baud rate: 2400
Connect timeout: 20
Disconnect timeout: 45
Network logins:
 3: 934A9248931E9248920D9011923530310D9F
 4: 934A920D9314920D903D920D904092343034350D9F

Cut over at 20:00

          Card          Pric  Voice  AVS  Auth
                   lev1  Auth  ZIP  amt
=====
Buypass fleet        2      N      N    350
ATM Debit            2      N      N    350
Visa                 2      Y      N    75
Master Card          2      N      Y    75
Discover             2      N      N    75
American Express    2      N      N    75
Visa Fleet           2      N      N   150
Wright Express      2      N      N    350
Gulf                 2      N      N    350
Voyager              2      N      N    350
Stored Value         2      N      N    350
MC Fleet             2      N      N   150
Gascard              2      N      N    350
FuelMan              2      N      N    350
Sinclair             2      N      N    350
JCB                  2      N      N    75

```

Used with the arguments shown below, the command can modify the information downloaded from the Buypass network. The arguments are included for reference only. Do not use them unless you are advised to do so by the Buypass Customer Service Personnel.

Argument	Effect
-A	Allows the setting of default pre-authorization amounts for each card type. The program will sequence through all card types and you will be prompted to change the current value or leave it unchanged. Use number only, without the dollar sign (\$). A special case exists when zero is entered as the pre-auth amount. This will cause the software to use the Pump Limit specified in the LOAD CUTOFF command. These card pre-authorization parameters will not be effected by a new Buypass download.
-B	Allows to change the baud rate. If the baud rate must be changed for the download, running the modems program is also required to change the baud rate in the sys_par parameters. This parameter will be reset when Buypass sends a new download. If the baud rate is to be permanently changed, contact Buypass about changing the download.

Argument	Effect
-D	Allows the dial string to be modified. <i>Note: Local modification may be overwritten in the next Buypass download.</i>
-E	Allows the card deck permitted by Buypass to be enabled or disabled. The modified configuration will only exist until Buypass sends a new download. If a card is to be disabled permanently, contact Buypass to remove the card from the download. This argument will rarely be required.
-F[Y N]	Allows modem pre-dial to be set or disabled. If the modem pre-dial is enabled, the modem will dial the host as soon as the card is swiped. If disabled, it will not start dialing until the last prompt is displayed, if multi-prompts and entries are required. The Y option enables modem pre-dial. The N option disables it. If only the -F option is entered, the current pre-dial setting is returned.
-L	Allows the network login strings to be modified. <i>Note: Perform this only under Buypass supervision.</i>
-S[S D]	Performs End-Of-Period processing on the BUYPASS.STL file that is created by the SETTLE command. The D option performs end-of-day processing; S performs end-of-shift processing.
-V	Allows the enabling or disabling of voice authorization for each card type.
-Z	Allows the limited set of cards that can use AVS to be enabled or disabled for zip code prompting.

BUYPASS Returned Codes

The BUYPASS command, used with the -S[D | S] argument, returns one of the three codes:

Code	Description
0	In balance
1	Report does not exist or is in error
2	Out of balance

Error Messages

Buypass Messages

Error Message	Description
Buypass DLD error	This error implies that Buypass is not ready for a download. You must call Buypass Customer Service and ask them to set the appropriate flag.
Buypass DLL error	You see this message when you are trying to get a download from Buypass, and Buypass is set to a wrong mode. Call Buypass Customer Service and ask them to check their download mode.

Error Message	Description
Buypass rejected #####: 'error message'	<p>Infrequently, Buypass may initially authorize the use of a card but reject the completion of that transaction before it is completed. In this unlikely event, you will see the message, "Buypass rejected #####: 'error message'", where ##### stands for the number of the affected transactions, and the error message stands for a specific error message from Buypass.</p> <p>If this situation occurs, make a record of the error message, and contact your Buypass representative to find out what to do next.</p> <p><i>Note: Buypass does not allow a negative number in a merchandise total. However, off-road discounts are handled as a merchandise item by the Site Controller. So a "Merchandise Refund error" message appears in two cases where there is an off-road discount. The first case is in a fuel-only transaction. The second case is where the amount of the off-road discount exceeds the amount of any merchandise purchased with the fuel.</i></p>
Buypass settlement report missing	This error implies that there is a problem in the phone line. If you wait until the next day, the settlement must proceed uneventfully.
Down, try later	This error implies that the Site Controller is not talking to its modem. Turn the modem off and then turn it back on, to reset it.
Download unsuccessful	This error implies that there is a problem in your setup configuration (frequently, the 13-digit merchant ID would be entered wrong). Call Buypass Customer Service and verify the 13-digit merchant ID, then go over all the setup configuration steps.
Duplicate transaction	This error implies that Buypass has received two transactions on the same card for the same volume and dollar amounts within a 24-hour period.
Failed, retry	This message appears if the select pump step is after the verify card step. Ensure that the select pump step is before the verify card step. This message can also appear if the time to verify the card takes longer than the time limit set in the verification timeout parameter in SYS_PAR. In this case, extend the time allotted for verification.
No product number	The Buypass setup has a zero loaded in the price field. Call Buypass Customer Service and ask them to check the price field and change it if it is a zero.
Settlement already cut 5H	This error implies that the settlement time is wrong (usually seen during a change in time between the standard time and daylight savings time). Check the time loaded in the Site Controller and if it is correct, call Buypass Customer Service and ensure that they have the correct time zone loaded.
Wrong product number or no product number	The Buypass setup has a zero loaded in the price field. Call Buypass Customer Service and ask them to check the price field and change it if it is a zero.

Troubleshooting Communications

If the site has problems with host communications, the debug program may be used to log the communications sessions. The debug program has several levels of logging available.

The command is: **DEBUG x y**

Where x is the output director and y is the level of information to be logged. Typing **DEBUG** without any parameters will cause the program to display information about itself, the output, and the information level.

Output director:

- 0 = None (no logging)
- 1 = Most verbose messaging. This is not necessary for most conditions.
- 2 = Preferred setting for communication (modem) problems.
- 3 = Preferred setting for most other site problems.
- 4 = Only pertinent information is logged.
- 5 = Only critical information is logged. This may not be verbose enough to debug site problems.

For debugging host communications, the command must look like the following:

DEBUG 2 2

Before starting the logging process, ensure that the router.log file is clear of any obsolete information. This can be done by typing **DEL P:ROUTER.LOG**.

After the capture is complete, the debug can be turned off by typing **DEBUG 0 0**.

Contact Gasboy Technical Service for assistance, or you may print the file to the log printer using the command:

TYPE;>LOG P:ROUTER.LOG

Transaction Messages

The following table lists the messages that may appear on the console when you request an authorization from Buypass. The two alphanumeric characters shown with most messages are part of the message. They usually indicate the issuer of the card involved.

Message Displayed		Description
APPROVED		Approved
APPROVED		Pre-authorization accepted
AUTH UNAVLABL	4Q	Authorizer unavailable
BAD PIN NO	WK	Driver PIN in error
BAD PROFILE	4Z	Gas or MDSE in cc cash advance required
CALL 800 2311930		Call for credit approval
CALL 800 2311930		Declined, call 800/231-1930
CALL 800/3471111		Call Discover card central
CALL 800/3471111		Discover network not available
CALL 800/3471111		Over floor limit
CALL 800/3471111		Unmatched link return code
CALL AUTH CTR	4H	Over floor limit
CALL AUTH CTR	IQ	Unmatched link return code
CALL AUTH CTR	KA	Refer to card issuer
CALL AUTH CTR	KB	Refer to issuer, special condition
CALL AUTH CTR	KZ	Issuer or switch inoperative
CALL AUTH CTR	WF	Call authorization amount 400.00 for Tex
CALL BUYPASS	4W	Credit price at cdw merchant
CALL BUYPASS	4X	No inventory record for merch/prod
CALL ISSUER	IA	Refer to card issuer
CC NOT ALLOWED	4V	Credit Card used at dfc cash pump
CHAIN ID ERR	9j	No chain ID for chain merchant
CHAIN PD AM	9-	Chain prd amount
CHAIN PD BO	9/	Chain prd both
CHECK SF 46	4K	Zero price for pump
COMM ERROR	4P	Error in routing or referral
CRD NOT ALLOW	WS	WEX card not allowed
DECLINE	4N	Pre-auth not allowed for card type
DECLINE	4T	Negative file decline
DECLINE	9(Cenex 'decline'
DECLINE	FA	Declined
DECLINE	IC	Do not honor
DECLINE	KE	Do not honor
DECLINE NSF	II	Insufficient funds
DECLINED	WN	Declined - do not pick up card
DECLINED	WT	Catch-all decline
DUPLICATE	4Y	Duplicate transaction for terminal
ERR HOSE NO	4J	Invalid pump number
ERROR	4L	Invalid card type

Message Displayed		Description
ERROR RETRY	WD	Input error - retry
ETC NEG +H	9^	etc neg hit - on-us, multi hits
ETC NEG 1H	9=	etc neg hit - on-us, single hit
ETC NEG US +H	9@	etc neg hit - on-us, multi hits
ETC NEG US 1H	9?	etc neg hit - on-us, single hit
EXP CARD	4A	Expired card
EXP CARD	IJ	Invalid expiration date
EXPIRED CARD	FJ	Expired card
EXPIRED CARD	KR	Expired card
FORMAT ERROR	IF	Format error
HOLD CARD	FC	Pick up card
HOLD CARD	FN	Pick up card, neg file
HOLD CARD	IB	Capture card
HOLD CARD	IG	Lost card
HOLD CARD	IH	Stolen card
HOLD CARD	KD	Pick up card
HOLD CARD	KF	Pick up card
HOLD CARD	KM	Pick up card (lost card)
HOLD CARD	KN	Pick up card (stolen card)
HOLD CARD	WM	Declined - pick up card
INV ACCT NO	46	Unmatched reversal
INV ACCT NO	4B	Check digit error account number
INV ACCT NO	4O	Edit error account number
INV ACCT NO	KP	No checking account
INV ACCT NO	KQ	No savings account
INV ACCT NO	WB	Error - invalid account
INV APPRV NO	45	Unmatched reversal approval no.
INV EXP DATE	4C	Edit error date
INV EXP DATE	FG	Invalid expiration date
INV EXP DATE	WC	Error invalid expire date
INV FORMAT	WE	Error - invalid format
INV TRAN NO	WG	Invalid transaction number
INVALID ACCT	IE	Invalid cardholder number
INVALID AMT	44	Reversal amount incorrect
INVALID AMT	47	Zero amount requested
INVALID AMT	FI	Invalid amount
INVALID AMT	ID	Invalid amount field
INVALID AMT	KH	Invalid amount
INVALID AMT	WU	Invalid amount
INVALID CARD	KI	Invalid card number
INVALID CARD	KJ	No such issuer
INVALID CARD	KU	Restricted card
INVALID CARD	WR	Invalid card

Message Displayed		Description
INVALID DATA	FD	Invalid transaction ID
INVALID DATA	FE	Invalid flag
INVALID DATA	FF	Invalid account number
INVALID DATE	40	Invalid transaction pre-date
INVALID MERCH	4F	Invalid merchant
INVALID MERCH	CC	Invalid merchant
INVALID MERCH	FH	Invalid merchant number
INVALID PIN	KS	Incorrect PIN
INVALID PIN	KY	Unable to verify PIN
INVALID TERM	4D	Invalid terminal number
INVALID TERM	4E	Inactive terminal
INVALID TRAN	48	MDSE retn not allowed for card
INVALID TRAN	K3	Cannot complete (violation of law)
INVALID TRAN	KG	Invalid transaction
INVALID TRAN	KT	Invalid transaction
MDSE RETN		Merchandise return o.k.
MRCH LOCAT	9;	Mrch not on location
MUST SLIDE CD	4U	Edit error amount
NEED APPRV NO	49	sohio jobber MC/VISA \$50 or over
OPEN BATCH	WQ	Totals request for open batch
OUT OF BAL	WL	oUt of balance totals
OVER LIMIT	4+	NCS over 75.00 on Debit Cards
OVER LIMIT	KO	Insufficient funds
OVER PIN LMT	WJ	Excessive driver PIN trys
OVR \$99999	4-	Amt too lrg 3 or 4th prompt (TEX)
OVR LIMT AMT	IK	Exceeds withdrawal amount limit
OVR LIMT CNT	IM	Exceeds withdrawal count limit
PICK UP CARD	9-	Cenex 'pick up card'
PIN PAD ERROR	4R	Problems w/encryption/decryption
REQ TIME OUT	WX	requEsted transaction timed out
RESTRICTED	IL	Restricted card
REVERSAL		Reversal accepted
REVERSAL ERR	KW	Reversal data inconsistent
REVERSAL ERR	KL	Reversal failure
REVERSAL ERR	KV	Unable to locate previous msg
REVERSAL ERR	KX	Invalid date
SWITCH DOWN	IN	Switch/issuer inoperative
SYSTEM ERROR	IP	System error
SYSTEM ERROR	WW	GECC system error
TRY AGAIN	4I	Transaction timed out
TRY AGAIN	4M	Process path failure
TRY AGAIN	4S	Undelivered reversal
TRY AGAIN	IO	Unable to route transaction

Message Displayed		Description
TRY AGAIN	KK	Re-enter transaction
TRY AGAIN	WV	Request timed out, try again
TRY AGAIN-PIN	43	Non-numeric PIN
UNAUTH CARD	WP	Unauthorized card type
USE CREDIT KEY	42	Used debit key on reversal of cc
USE DEBIT KEY	4G	Used crd key on debit reversal
USE IMPRINTER	41	sohio tran amount \$999.99
VEL FILE ERR	9\	System error - velocity file

Transaction Pointer

If you are not regularly polling and resetting the transaction pointer, you must run the PURGE SITE command once a day so that you do not fill up the Site Controller's memory.

Connection to a Hughes VSAT

The Gasboy CFN system can be connected to a Hughes VSAT. You will require the following to make this connection:

- A C05995 Gasboy 1:1 RS-232 Cable connected to a port on a Hughes Personal Earth Station (PES). For distances over 8 feet and less than 100 feet, a custom made 1:1 cable can be installed. Distances over 100 feet require a short haul modem.
- A Hughes PES with one port configured for the Gasboy/Bypass application.
- A special Buynet download from Bypass with two source address numbers in the table instead of telephone numbers.

Note: For dial backup capability, consult the Hughes representative.

VSAT Installation for Existing Sites

To install VSAT for existing sites, proceed as follows:

- 1 Print all settings before beginning the installation.
- 2 Type **BUYPASS** and verify if the modem baud rate is set to 1200 in the Bypass download program. Then, type **MODEMS** and verify if the modem baud rate is also set to 1200 in the system parameters.
- 3 Before exiting MODEMS.bin, set the modem type to HAYES® 1200. Type **S** to save the change.
- 4 Type **BUYPASS -FN** to disable the modem pre-dial.
- 5 In SYS_PAR, set the sixth pair of digits in host handler data to 43. Refer to [“System Parameters \(SYS_PAR\)”](#) on page 10.

- 6 Reboot the Site Controller.
- 7 Move the cable from the modem to the PES configured port. Verify with Hughes about the port where it has to download an application to the PES. The logger printout must indicate that the bank network went down and then came up.
- 8 Load phone 3 with the terminal ID number provided by Hughes. The terminal ID is the address of the Hughes PES.
- 9 Call Bypass Customer Service for a new download of VSAT install.
- 10 Type **BUYSTL P** for the download. Select **Escape** and wait for the “Download successful” message. The BUYPASS.DLD file resides on the P: drive of the CFN3.
- 11 Upon successful download, type **BUYPASS –D** to view the downloaded numbers and verify if they start with “2”. Type **BUYPASS** to confirm if all card types are present and “Pre-dial is not set”.

New VSAT Installation

For a new VSAT installation, proceed as follows:

- 1 Connect C05995 Gasboy 1:1 RS-232 Cable to a port on a Hughes PES unit. Confirm with Hughes about the port number to which the cable has to be plugged. Hughes may have to download an application to the PES.
- 2 Type **BUYPASS** and verify if the modem baud rate is set to 1200 in the Bypass download program. Then, type **MODEMS** and verify if the modem baud rate is also set to 1200 in the system parameters.
- 3 Before exiting MODEMS.bin, set the modem type to HAYES 1200. Type **S** to save the change.
- 4 Type **BUYPASS –FN** to disable modem pre-dial.
- 5 In SYS_PAR, set the sixth pair of digits in host handler data to 43. Refer to [“System Parameters \(SYS_PAR\)”](#) on page 10.
- 6 Reboot the Site Controller.
- 7 Load phone 3 with the terminal ID number provided by Hughes. The terminal ID is the address of the Hughes PES.
- 8 Call Bypass Customer Service for a download.
- 9 Type **BUYSTL P** for the download. Select **Escape** and wait for the “Download successful” message. The BUYPASS.DLD file resides on the P: drive of the CFN3.
- 10 Upon successful download, type **BUYPASS –D** to view the downloaded numbers and verify if they start with “2”. Type **BUYPASS** to confirm if all card types are present and “Predial is not set”.

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7300 West Friendly Avenue · Post Office Box 22087

Greensboro, North Carolina 27420

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