



CFN Series

Comdata® Credit and Debit Card Networks

Version 006
For Site Controller II Version 2.2 and above

MDE-4702
(formerly C35903)

Computer Programs and Documentation

All Gasboy computer programs (including software on diskettes and within memory chips) and documentation are copyrighted by, and shall remain the property of, Gasboy. Such computer programs and documents may also contain trade secret information. The duplication, disclosure, modification, or unauthorized use of computer programs or documentation is strictly prohibited, unless otherwise licensed by Gasboy.

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
MH6418	Power operated Transfer Pump Models 25, 25C, 26, 27, 28, 72, 72S, 72SP, 72X, 73 and 1820
MH7404	Hand operated Transfer Pump Models 1230 Series, 1243 Series, 1520 and 1720 Series
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

New York City Fire Department (NYFD):

NYFD C of A #	Product
4823	9100A, 9140A, 9152A, 9153A, 9800A, 9840A, 9850A, 9852A, 9853A, 9140
4997	9822A, 9823A
5046	9100Q, 9140Q, 9152Q, 9153Q, 9800Q, 9840Q, 9852Q, 9853Q
5087	8753K, 8853K, 9153K, 9853K (restricted to diesel and non-retail gasoline sales)

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 #
95-179A2	Dispenser	9100 Retail Series, 8700 Series, 9700 Series	91-019A2	Dispenser	9100 Commercial Series
95-136A5	Dispenser	9800 Series	91-057A3	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™
Console™
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 provides useful information to connect your site to Comdata® for card verification.

Note: Comdata only accepts fuel. No on-line help is available.

Cards accepted

Comdata only accepts Comdata cards.

Related Documents

The following documents contain related information that may be helpful when you connect your site to Comdata.

Site Controller II Related Publications

Site Controller II - version 2.2 and later

Document Number	Title	GOLD Library
C01918	SC II Installation Manual	Gasboy CFN Series Controllers and POS
C09159	SC II Pocket Reference, version 2.2	Gasboy CFN Series Controllers and POS
C09204	Check Point Reference Manual	Archive
C35923	Point of Sale and Shift Change, version 003	Gasboy CFN Series Controllers and POS
MDE-4311	SC II Manager's Manual 2.2	Gasboy CFN Series Controllers and POS
MDE-4312	SC II Configuration Manual, version 2.2	Gasboy CFN Series Controllers and POS
MDE4355	Profit Point Clerk's Manual - Modular series	Gasboy CFN Series Controllers and POS
MDE4356	Profit Point Reference Manual - Modular series	Gasboy CFN Series Controllers and POS

Credit and Debit Card Networks

Document Number	Title	GOLD Library
C35902	ADS-Citgo	Gasboy CFN Series Networks, Card Handlers, and Pump Interfaces
C35903	Comdata	Gasboy CFN Series Networks, Card Handlers, and Pump Interfaces
C35904	EDS-CCIS	Gasboy CFN Series Networks, Card Handlers, and Pump Interfaces
C35905	FDR	Gasboy CFN Series Networks, Card Handlers, and Pump Interfaces
C35906	ADS-FINA	Gasboy CFN Series Networks, Card Handlers, and Pump Interfaces
C35907	Gascard®	Gasboy CFN Series Networks, Card Handlers, and Pump Interfaces
C35909	Generic Dial	Gasboy CFN Series Networks, Card Handlers, and Pump Interfaces
C35910	Nabanco	Gasboy CFN Series Networks, Card Handlers, and Pump Interfaces
C35911	NDC	Gasboy CFN Series Networks, Card Handlers, and Pump Interfaces
C35913	Sinclair®	Gasboy CFN Series Networks, Card Handlers, and Pump Interfaces
C35914	SPS/Phillips	Gasboy CFN Series Networks, Card Handlers, and Pump Interfaces
C35915	T-Chek	Gasboy CFN Series Networks, Card Handlers, and Pump Interfaces
C35918	VisaNet SM	Gasboy CFN Series Networks, Card Handlers, and Pump Interfaces
C35930	Gasboy® Dial	Gasboy CFN Series Networks, Card Handlers, and Pump Interfaces
C35931	Amoco®/DataCard®	Gasboy CFN Series Networks, Card Handlers and Pump Interface
MDE-4572	PaymenTech™ (formerly Gensar)	Gasboy CFN Series Networks, Card Handlers and Pump Interface
MDE-4606	Buypass SM	Gasboy CFN Series Networks, Card Handlers and Pump Interface
MDE-4623	UFDA	Gasboy CFN Series Networks, Card Handlers, and Pump Interfaces

Pump Interface

Document Number	Title	GOLD Library
C09146	Pump Interface Manual	Gasboy CFN Series Networks, Card Handlers, and Pump Interfaces
C01745	Current Loop Interface Unit Manual	Gasboy CFN Series Networks, Card Handlers, and Pump Interfaces
C35849	SDI/Wayne® CAT Interface	Gasboy CFN Series Networks, Card Handlers and Pump Interface
C35924	SDI/Unitec® Interface	Gasboy CFN Series Networks, Card Handlers and Pump Interface
MDE-4559	Insight Interface	Gasboy CFN Series Networks, Card Handlers and Pump Interface

Card Encoding and Miscellaneous

Document Number	Title	GOLD Library
C01687	CFN Series Card Encoding Manual	Gasboy Card/Key Encoding

Remote Communications

Document Number	Title	GOLD Library
C09137	SC II-Host Communications	Gasboy Archives
C09138	SC II Raw Mode Communications	Gasboy Archives

Technical Publications

Document Number	Title	GOLD Library
Internal	SC II Technical Manual	N/A
C01759	CFN Diagnostic Manual	Gasboy CFN Series Controllers and POS

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.

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 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 only these cashier station "stops."

Total Electrical Shut-Off Before Access

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

Evacuation, Barricading and Shut-Off

Any procedures requiring accessing the pump/dispenser or STPs requires the following three actions:



- An evacuation of all unauthorized persons and vehicles using safety tape, cones or barricades to the effected units
- A total electrical shut-off of that unit

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 the Gasboy Customer Service at 1-800-444-5579, Tech Support 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

There is applicable information in NFPA 30A; *Automotive and Marine Service Code*, NFPA 70; *National Electrical Code (NEC)*, OSHA regulations and federal, state, and local codes which 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 that follow must be followed to prevent death, injury or damage to the equipment



DANGER - This signal word is used to alert you to a hazard to unsafe practice which will result in death or serious injury



WARNING - This alerts you to a hazard or unsafe practice that could result in death or serious injury.



CAUTION with Alert symbol - This signal word designates a hazard or unsafe practice which may result in minor injury.

CAUTION without Alert symbol - When used by itself, CAUTION 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 become explosive if ignited. Spilled or leaking fuels cause vapors. Even filling customer tanks will cause explosive vapors in the vicinity of dispenser or island.

Important Safety Information

No Open Flames



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 fuels and their vapors. After getting 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. Be familiar with Cardiopulmonary Resuscitation (CPR) methods if you are working 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 tag out and lock out procedures. If you are not familiar with this requirement, refer to information in the service manual and OSHA documentation.

Working With Electricity Safely

Ensure to use safe and established practices in working with electrical devices. Poorly wired devices may cause a fire, explosion or electrical shock. Ensure grounding connections are properly made. Ensure that sealing devices and compounds are in place. Ensure not to pinch wires when replacing covers. Follow OSHA Lock-Out and Tag-Out 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 to clean hands after handling equipment. Do not place any equipment in mouth.



WARNING

This area contains a chemical known to the State of California to cause cancer.



WARNING

This area contains a chemical known to the State of California to cause birth defects or other reproductive harm.

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

Emergency First Aid

Informing Emergency Personnel

Compile the following information for 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. Reference Subpart S of 29 CFR Part 1910 - Electrical Hazards, 29 CFR Part 1910.333 contains specific Lockout/Tagout provision for electrical hazards.

3 – Preparing for Configuration

Note: Any reader that does not support alphanumeric prompting cannot be used for Comdata transactions. This includes Wayne CATs and Gilbarco CRINDs when using the Gasboy Gilbarco® Interface Unit (Current Loop Driver).

Before you configure, you must collect the following information from your Comdata representative:

- Your five-character terminal ID.
- The phone number you dial for dial-in authorization from the Comdata network computer.
- The baud rate for the modem communications.

You will need a modem for authorization. This is in addition to a modem used to poll transactions. Determine the Site Controller port to be assigned to connect to the Comdata host, and connect that port to a Hayes® modem capable of communicating at 1200 baud or a modem that is 100% compatible with the Hayes standard. Use the Dialout Modem setup program to configure your modem.

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4 – Dialout Modem Setup Program

To set up your modem, proceed as follows:

- 1 Type **MODEMS** to display the modem setup program.

```

                                Dialout Port Setup Program (001)
                                Dialout Port Setup

Host      Port      Baud      Modem
-----
  1         0       1200     Hayes Optima

                                #      Modem
                                -----
                                0 User Defined
                                1 Hayes 1200
                                2 Generic Hayes (Smartmodem/Accura)
                                3 Hayes Optima
                                4 Hayes Accura 14.4 (5611)
                                5 Hayes Accura 33.6 (5914)

Enter Modem #, P)ort B)aud D)own U)p H)elp Q)uit

```

- 2 Select one of the listed modem options by entering the number and press **Enter**. When you select a number, the program will display your selected modem at the top page and at the top of the list. If your modem is not one of the first four listed, press **D** to scroll down the list of modems. To move up through the list, press **U**.
- 3 Once you have selected the type of modem, check the Port setting and Baud rate.
- 4 Change the Port setting by pressing **P** and **Enter**. The following line is displayed: "Modem goes to Port Number?: Enter your port number for this modem". For example, entering a 0 (zero) will set the port to 0. Once you select to change this field, you must enter a number. You cannot bypass this option by pressing Enter; there is no default. For SC III, available ports are 1-6 (zero disables).
- 5 Change the Baud setting by pressing **B** and **Enter**. The following line is displayed: "Baud rate? [1-300 2-1200 3-2400 4-9600]: Enter the number representing the baud rate". Comdata requires a setting of 1200 baud. Entering 2 will set the baud rate at 1200. Once you select to change this field, you must enter a number. You cannot bypass this option by pressing Enter; there is no default.
- 6 If you need more information, press **H** and **Enter** to review the Help information.
- 7 When you have entered your settings, press **Q** to quit. The program will display the settings that you have selected and the following line will be displayed: "Enter E)dit S)ave Q)uit: Press **E** to return to the menu to change settings, **S** to save the settings or **Q** to quit". If you choose to quit without saving, the program will display "New Setup not saved. Save it? [Y/N]". Select **Y** to save or **N** to quit without saving settings.

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5 – Configuring the Site Controller

Your Gasboy authorized service representative will configure your Site Controller. Before the service representative begins, ensure that you have collected all the information that will be used for configuration.

System parameters (SYS_PAR)

Enter the following settings in the system parameters.

Reader Verification - page 4

To perform Reader Verification, proceed as follows:

- 1 Use remote verification: credit
- 2 Use local verification: club
- 3 Check mod 10: none
- 4 Check expiration date: club (optional)
- 5 Require PIN: none

Console Verification - page 5

To perform Console Verification, proceed as follows:

- 1 Use remote verification: credit
- 2 Use local verification: club
- 3 Check mod 10 (console): none
- 4 Check expiration date (console): club (optional)
- 5 Require PIN: none

Serial Port Configuration - page 8

To perform Serial Port Configuration, proceed as follows:

- 1 **Host handler channel:** The number of the port used for communicating with the Comdata network. This is the same port you connected to the modem. The default port number (#) is none.
- 2 **Host router data:** The five-character terminal ID received from your Comdata representative.
- 3 **Host router data:** The five-character terminal ID received from your Comdata representative.
- 4 **Send requests to host handler:** Set to 4 for Credit.
- 5 **More router data:** This field is to be specified by your network representative. If first character is C, include fleet fields such as odometer and vehicle number. If the second field is N, do not include the Gasboy message identifier at the head of network messages.
- 6 **Host Handler Data:** Two two-digit numbers; the default numbers are 00 and 20. Enter the numbers by typing:

00	ENTER	20	ENTER	ENTER
----	-------	----	-------	-------

*Note: Repeat **Enter** as needed to exit host handler data.*

- 7 The first two digits are 01 if your modem is a Hayes 1200, 02 if your modem is a Hayes 2400, 03 if it is a Hayes Optima, 04 if it is a Hayes Accura 14.4 or 05 for a Hayes Accura 33.6 (this will be set by the MODEMS.BIN program).
- 8 The second two-digit number is a hexadecimal value for the number of seconds to allow for the carrier to be received. 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.
- 9 The fifteenth two digit number is 01 if debug output to local port, 02 if debug output to disk, or 03 if debug output to local port and disk.
- 10 The sixteenth two digit number is 01 if debug, else 00.

Receipt Configuration - page 12

Print manual number (#) on receipt: **No**.

Console (CONSOLE)

Allow Hand Entry of Card Data: **Yes**.

Island Card Reader (READER)

The Select Pump step must be before the verify card step.

Tables (TABLE)

The router table must have at least 2272 entries.

Transaction Format (TRFMT) - Local Transaction Printout Format

The following are not available for the transaction printout: Vehicle Number, Driver ID, Trailer Number, Trip number and auxiliary info. Trailer hours are stored in auth code (change the label accordingly if you want it printed out).

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6 – Special System Setup

Using LOAD PHONE

After configuring the Site Controller, use the command LOAD PHONE 3 to load the phone number supplied by Comdata into the Site Controller. For example, LOAD PHONE 3 1-901-555-1212. The backup phone number can be loaded using LOAD PHONE 4.

Using LOAD SITE

Use the LOAD SITE command to set the offline amount to \$999.

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7 – Settlement for Comdata

How Settlement Works

There will be a settlement done with Comdata 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 Comdata to verify that the systems agree. The manager should pay attention to the settlement reports and contact Comdata if there is any discrepancy.

Create a cron entry that enables the Site Controller to automatically execute the user-defined COMSTL (standing for Comdata settle) command at 12:01 a.m. Central time. For example:

```
LOAD CRON 1 @0001 -comstl
```

Note: Sites in the Eastern time zone would use @0101, Mountain would use @2301, and Pacific would use @2201.

If you do not accept club cards, the file to be executed by the cron should look like this.

```
*Comdata daily report
reset totals
purge site
en dump comstl.log
print summary;a y
print quantity;a y
disable dump
log file comstl.log
```

If you do accept club cards, you do not need either the cron or the above file.

Using COMDATA

You can use the command COMDATA to print and modify your Comdata configuration information. The command line format of the program is:

```
COMDATA [;I] [-S] [-U] [-R file] [-W file]
```

The "I" option initializes the current Comdata configuration. Other valid options are:

Option	Description
-S	Prints current Comdata configuration
-U	Allows user modification of configuration
-R	Reads configuration from given file
-W	Writes configuration to given file

Note: When using the -U option, make changes for an entry, or press Enter to leave the field unchanged.

The fields that can be changed are:

- Product numbers for fuel types
- Message displayed when Comdata is down
- Customer information that should be prompted (all responses are printed on the receipt)

An example of the Comdata configuration report is shown below.

```
Current Comdata configuration:

Product for Diesel #1 [1]:
Product for Diesel #2 [2]:
Host down error message [Call 1-800-COMDATA]:

#  Type          Enabled  Prompt
== =====
1. Hubometer      Yes     Hubometer #?
2. Driver         Yes     Driver #?
3. Vehicle        Yes     Vehicle #?
4. Trailer        Yes     Trailer #?
5. Trailer hours  Yes     Trailer hours?
6. Trip           Yes     Trip #?
7. Refer fuel     Yes     Refer fuel?(1=Y,0=N)

Enter prompt # to modify or Return to exit:
```

8 – Error Message

Infrequently, Comdata may initially authorize the use of a card but then, after the transaction is completed, reject that transaction. In this unlikely event, you will see this message:

“Comdata rejected #####: “error message””

where “#####” stands for the number of the affected transaction, and error message stands for a specific error message from Comdata.

If this situation occurs, record the error message, and contact your Comdata representative to find out what to do next.

When you first set up your site for Comdata verification, you may see this message:

“Router table min = #####”

where “#####” stands for a four-digit number. If this message appears, set the size of the router table to the number indicated.

This page is intentionally left blank.

9 – The Transaction Pointer

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

When new software is loaded (using reboot;a), it may be necessary to run "fix tran;i" to clear the MEMORY FULL condition.

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10 – Off-line Operation

Rarely, the Comdata network may go down and be unable to verify cards. After Comdata goes down, the Site Controller will automatically approve either the first 10 card transactions or all card transactions in the first 60 minutes, whichever comes first. After 10 transactions or 60 minutes, the Site Controller will deny all card transactions.

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**GASBOY**

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