



Fuel Management Products

PC TopKAT™ Online Operation and Setup Manual

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

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1 – Introduction

Purpose

This manual provides instructions to setup and use the PC TopKAT™ Online System.

Related Documents

Document Number	Title	GOLD Library
MDE-4319	TopKAT Fuel Management System Installation Manual	Gasboy® Series 1000/Fleetkey and TopKAT
MDE-4338	TopKAT Fuel Management System Operations Manual	Gasboy Series 1000/Fleetkey and TopKAT
MDE-4520	Enhanced Communications Installation Manual	RFID Wireless and TCP IP

Abbreviations and Acronyms

The following is a list of abbreviations and acronyms used in this document.

Term	Description
ASC	Authorized Service Contractor
ASCII	American Standard Code for Information Interchange
FMS	Fuel Management System
PC	Personal Computer
PCU	Pump Control Unit
PIN	Personal Identification Number
RAM	Random Access Memory
ROM	Read Only Memory
RS	Recommended Standard of IEEE (as in RS-232 or RS-422)
SHM	Short Haul Modem

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.

Gasboy Help Desk

Certified technicians can contact the Gasboy Help Desk at 1-800-444-5529 for additional information.

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.

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.

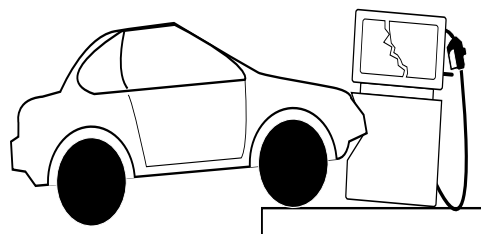
Lockout/Tagout

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.

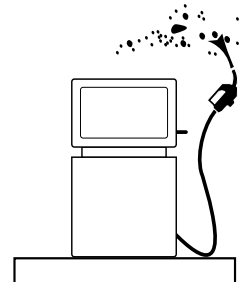
The following actions are recommended regarding these hazards:



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 – PC TopKAT Online System

PC TopKAT Online System Definitions

- The PC TopKAT Online System contains a custom designed software package, “PC TopKAT Online” that is referred to throughout this manual as “PC Online”.
- The PC TopKAT Online System contains custom programmed firmware chips for the TopKAT Fuel Management System (FMS) that is referred to throughout this manual as “Online TopKAT chips”.
- The TopKAT FMS system with Online TopKAT chips installed are referred to throughout this manual as the “Online TopKAT”.
- The PC Online Software, Online TopKAT Chips, TopKAT FMS system, and communication hardware either Short Haul Modem (SHM) or wireless modems are referred to throughout this manual as the “PC TopKAT Online System”.

Software Versions

Part Number	Version	Where Used
S611WPH020001	Version V02.0.01	PC TopKAT Online software
M08075K001		Software Kit: Includes Online software V02.0.01, this manual, and PCS027 License Agreement
C07037KTKHTZ	Version 01.0.13	Online TopKAT firmware chips

CAUTION

For the “PC TopKAT Online System” to operate properly, both the “PC Online Software” and the “Online TopKAT firmware chips” in the TopKAT FMS system MUST be used together.

Coyote DataCom Software

You require this software to program the wireless modems (if used). It is included in the wireless modem kits. It can also be downloaded from the website listed.

Figure 3-1: About Coyote DataCom Radio Programmer Window



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4 – Comparison of PC TopKAT Online System with Standard TopKAT

Following is the list of comparisons between the PC TopKAT Online System and the Standard TopKAT system.

- The PC TopKAT Online System is operationally very different than the standard Gasboy TopKAT FMS system, which uses the standard Gasboy TopKAT PC Polling package.
- The Standard Gasboy PC TopKAT polling software cannot be used with the Online TopKAT chips, as the transaction information layout is different.
- The Online TopKAT system uses exactly the same hardware as the standard TopKAT FMS system.
- Pump and Pump Control Unit (PCU) setup is unchanged.
- The standard TopKAT FMS setup modes of Standalone/Master/Satellite do not apply.
- The Online TopKAT acts as a CLIENT to the PC Online Software database (HOST), in the normal “Authorizing TopKAT systems” mode.
- Equipment and Driver (Vehicle and Employee) data are NOT stored in the Online TopKAT.
- The System Configuration and Transaction files are stored on the Online System identical to the Standard TopKat System.
- Equipment and Driver data are ONLY stored in the PC Online Software Database.
- The Online TopKAT, when in the “Offline” mode with the Online Software (BY DESIGN) operates as a “wide-open system” and will accept any data entered at the Online TopKAT prompts.

Note: In the rare case of suspected Online TopKAT firmware chip failure, standard Gasboy TopKAT firmware chips could be used to test the TopKAT FMS system hardware. The Online TopKAT chips must then be reinstalled or replaced for the TopKAT FMS system to properly communicate with the PC Online Software.

Comparison Chart

The following table lists the comparisons between Standard TopKAT and Online TopKAT.

Hardware/Software	Standard TopKAT	Online TopKAT
TopKAT FMS Hardware	Standard	Standard
Polling Software	Standard PC TopKAT V3.0.1.01 or current	Different PC TopKAT On-Line V2.0.0.6/V02.0.01 or current
TopKAT Software	Standard V5.0.15 or current	Different C07037KTKHTZ V01.1.13
Master/Satellite/Standalone Mode setting	Standard	Mode Selection not available
Key receptacle	Standard	Present but INOP

Hardware/Software	Standard TopKAT	Online TopKAT
Site number and Poll address	Standard	Site number must match PC Online software. Poll Address must match PC Online software, Online TopKAT and if used, the wireless modem source address at the Online TopKAT.
Pump and PCU programming	Standard	Standard
Employee and Vehicle Programming	Standard Employee Vehicle files stored in TopKAT FMS system	Not available in Online TopKAT Driver/Equipment. Records are stored in the PC Online Software Database. Only the option to clear/initialize these files remains. Must be used at start up only.
Employee and Vehicle Reports at TopKAT FMS system	Standard	Not available in Online TopKAT
Port 1	9800/PCU pump and Satellite Communications	9800/PCU pump communication. Only Satellite communication not allowed.
Port 2 RS-232	Standard Local/Logger Communications	Wireless modem connection only. Can be tested with HyperTerminal®.
Wireless communication	1 Standalone or 1 Master site only	Supports multiple Online TopKATs.
Port 2 RS-422/485	Standard Local/Logger communication through Gasboy SHM	INOP/No connection allowed
Port 3 RS-232	Standard Remote or Internal Modem Communications	Direct connection to PC Online software through Gasboy RS-232 Termination Box.
Port 3 RS-422/485	Remote Communication through Gasboy SHM	Direct connections to PC Online Software through Gasboy SHM.

5 – PC Online Files Used

Import and Export Files

- Providing these import and export files is entirely the responsibility of the customer.
- Creating and providing a properly working PCTopKAT_Online.xls file is also the responsibility of the customer.
- If the PCTopKAT_Online.xls file is not used, the PC TopKAT Online system will continue to function normally with the exception that errors will be posted to the spreadsheet_errors.dat file on retrieval of each transaction.
- Gasboy's only responsibility is to push the proper totals to the cells of TopKAT_Online.xls, as specified in [“Appendix C: Hertz Excel Cells”](#) on [page C-1](#).
- Equipment and Driver import files are for ease of use. Equipment and Drivers can be manually entered.

Equipment.txt	For the import file layout, refer to “Appendix E: Equipment Import File” on page E-1 .
Drivers.txt	For the import file layout, refer to “Appendix D: Driver Import Files” on page D-1 .
PCTopKAT_Online.xls	For the cell import specifications, refer to “Appendix C: Hertz Excel Cells” on page C-1 .

Note: The names of these files must be accurate as they are case-sensitive.

File Names Locations and Usage

File (Import/Export)	Location	Use	Error File Location
Drivers.txt (Import File)	C:\Program Files\PC TopKAT Online\Inbox	Customer created carat delimited flat file for import. Refer to “Appendix D: Driver Import Files” on page D-1 .	C:\Program Files\PC TopKAT Online\Outbox\Error\Drivers\Bad Drivers.txt\
Equipment.txt (Import File)	C:\Program Files\PC TopKAT Online\Inbox	Customer created carat delimited flat file for import. Refer to “Appendix E: Equipment Import File” on page E-1 .	C:\Program Files\PC TopKAT Online\Outbox\Error\Equipment\BadEquipment.txt
PCTopKAT_Online.xls (Export File)	C:\Program Files\PC TopKAT Online\Files	Stores specific transaction total for monthly reporting. Refer to “Appendix B: Assumptions” on page B-1 and “Appendix C: Hertz Excel Cells” on page C-1 .	C:\Program Files\PC TopKAT Online\Files\SpreadSheet_Errors.dat

File (Import/Export)	Location	Use	Error File Location
Rawtrans.dat (Export File)	C:\Program Files\Gasboy\PC TopKAT Online\Outbox\Transactions	Transaction file for export. Refer to "Appendix F: Rawtrans File Layout" on page F-1.	
Transactions from Online TopKAT	To PC Online Database to Rawtrans.dat and totals To cells in PCTopKAT_Online.xls	Transaction data from Online TopKAT	C:\Program Files\PC TopKAT Online\Files\Badtrans.txt

Product and Tank Codes

The following table lists the Product and Tank Codes required for PCTopKAT_Online.xls file.

Tank Codes	Product Codes
Tank 1 - Unleaded	Product 1 - Unleaded
Tank 2 - Diesel	Product 2 - Diesel
Tank 3 - Unused	Product 1 - Unused
Tank 4 - Unused	Product 2 - Unused

6 – Communications

- Communications between the PC Online software and the TopKAT Online System can be wired as either a wireless solution or as a direct connect solution.
- If direct connection is used only one Online TopKAT system is allowed.
- If wireless communication is used, multiple Online TopKAT systems are allowed.
- The site must be all wireless or direct connection. Both wired and wireless Online TopKAT systems are not allowed.

Wireless Communication

For information on wireless modem installations, refer to MDE-4520 Enhanced Communications Installation Manual.

Note: Port 2, RS-232 must be used at the Online TopKAT FMS system for the Coyote DataCom wireless modems.

- The wireless solution for the PC TopKAT Online System can support multiple Online TopKAT FMS Systems at the same location using just one base station at the PC running the Online Software and one FMS station at each of the Online TopKAT systems.
- Multiple “wireless” Online TopKAT(s) use is exclusive to the PC Online TopKAT System and cannot be accomplished with standard Gasboy TopKAT firmware and polling software.
- This method uses Coyote DataCom wireless modems.

Direct Connection

For information on RS-232/422/485 wiring requirements, refer to MDE-4319 TopKAT Fuel Management System Installation Manual.

Note: Port 3 must be used for direct connection for the PC TopKAT Online FMS system.

- Port 3: RS-232 using a Gasboy terminations box for distances 50-feet and lesser.
- RS-232 communications between the PC Online software and the Online TopKAT must rarely be used, but is allowed.
- Port 3: RS-422/485 using a Gasboy SHM for distances up to 1500-feet.
- Power for the Gasboy SHM must come from the same panel, same phase as the Online TopKAT to avoid damage due to spikes or surges.

PC Communication Ports

- If communications from the PC running the PC Online software to the Online TopKAT requires to be tested, use HyperTerminal, ProComm™, or some other terminal emulation software to verify the communication ports on the PC running the PC Online software.
- It is highly recommended when installing the PC Online Software that a HyperTerminal link be created. A desktop shortcut for that link must be created on the same PC that will be running the PC Online software for future testing.

7 – Setting Up Wireless Modems

The Coyote Radio programming software allows to program a minimum of two wireless modems with the appropriate settings, if wireless communication between the Online TopKAT and the PC Online Software is to be used. This software must be loaded on the same PC as the PC running the PC Online software. Following are the features of the Coyote Radio programming software:

- You cannot run this software at the same time as the PC Online Software.
- You may find it easier to bring the Online TopKAT modem(s) inside to program on the same PC that has the Coyote Radio programming software installed.
- Mark the wireless modems after programming with “PC Modem” and “TopKAT Modem” to avoid confusion later.
- Program the first Online TopKAT as source address 1 (poll address 1), the second Online TopKAT as 2, and so on.

Coyote Radio Software

The Coyote Radio programming software is supplied on two diskettes. To install this software, proceed as follows:

- 1 Insert Disk 1 in the floppy disk drive.
- 2 Select **Start**.
- 3 On the Start menu, select **Run**.
- 4 In the Open: box of the Run window, type **A:\Setup**.

Note: On most computers, the floppy drive is A. If the floppy disk drive is not “A”, type the appropriate letter.

The installation process begins.

- 5 The Coyote DataCom Radio Programmer Installation window appears (see [Figure 7-1](#)).

Figure 7-1: Coyote DataCom Radio Programmer Installation Window



- 6 On the License Agreement screen, select **Yes**.
- 7 On the Setup Type window, select the “Typical” field, then select **Next**. The files are copied.
- 8 Insert Disk 2 in the drive, when instructed to do so, and select **OK**.
- 9 Select **Yes** to restart the computer.
- 10 Select the **Radio Programmer** on the desktop.
- 11 Select **Read** to allow the software to determine the radio type.
- 12 At the “Source Group and Destination Group” field, set the values to 1 for all the modems (see [Figure 7-2](#) on [page 17](#)).
- 13 At the “Source Address and Destination Address” field, set the values as shown in the [Figure 7-2](#) on [page 17](#).

Figure 7-2: Coyote DataCom Radio Programmer Window

Coyote DataCom Radio Programmer - []

File Radio Utilities About...

Radio: CDR915

Addressing

Source Group: 1 Destination Group: 1

Source Address: 1 Destination Address: 100

Tx

Tx Holdoff Time: 5 ms Packet Size: 177

Preamble Bytes: 266

Misc

Version: v1.5 P2

ESN: 10433

Acknowledgement Packet

☒ No AckBack ☐ Wait for AckBack

Retries: 15 Timeout: 200 ms

Communications Port

CTS De-Assert: 178 CTS Assert: 89

Baud Rate: 9600

Repeaters

Number of Repeaters in System: 0

☐ RAM

Ready COM1

Default Settings for Online TopKAT Modem

Coyote DataCom Radio Programmer - []

File Radio Utilities About...

Radio: CDR915

Addressing

Source Group: 1 Destination Group: 1

Source Address: 100 Destination Address: 1

Tx

Tx Holdoff Time: 5 ms Packet Size: 177

Preamble Bytes: 266

Misc

Version: v1.5 P2

ESN: 10436

Acknowledgement Packet

☒ No AckBack ☐ Wait for AckBack

Retries: 15 Timeout: 200 ms

Communications Port

CTS De-Assert: 178 CTS Assert: 89

Baud Rate: 9600

Repeaters

Number of Repeaters in System: 0

☐ RAM

Ready COM1 LPT1

Default Settings for PC Online Modem

- 14 Ensure that the Communications Port Baud Rate option is set to the baud rate being used at the TopKAT system (2400, 4800, or 9600, 9600 is preferred).
- 15 Select **Write** to save the values entered on this screen.
- 16 Select **Read** to ensure that the settings were properly saved.

Connection Type	Source Address	Destination Address
Radio connected to PC	100	1
Modem connected to TopKAT system	Match TopKAT system poll address	100

- During background polling, the PC Online software sets the destination address of the wireless modem connected to the PC to “0”.
- This setting allows the PC modem to issue a broadcast command that can be heard by all the Online TopKAT(s) wireless modems.
- When the user selects the “Contact TopKAT” system option, the PC Online software sets the destination address of the modem connected to the PC to the value of the poll address for the selected Online TopKAT and enables Ack-back.
- This ensures that only the modem of the requested Online TopKAT system hears the command.

8 – Online TopKAT Startup

The Gasboy Authorized Service Contractor (ASC) must complete the start up and programming of the Online TopKAT FMS system prior to loading the PC Online Software. The Online TopKAT must be set up to match the required PC Online software settings. This can be completed when the Online TopKAT is currently displaying:

“HOST OFFLINE
press **ENTER**”

Note: If the above message is not displayed at the Online TopKAT system, it indicates that the incorrect version of software is installed. Contact customer service immediately.

- The Gasboy ASC must test and verify the operation of the Pump/Dispensers. Mechanical pumps must be tested in both the “Manual” and “Auto” modes. 9800 electronics must be tested in both the “Standalone” and “Online” modes. Proper operation with the Online TopKAT system must be confirmed.
- Tank configuration must be as follows:
 - For unleaded petrol, the codes that must be used are: Tank 1 must be Product Code 1.
 - For diesel, the codes that must be used are: Tank 2 must be Product code 2.
- Ensure that the Online TopKAT system, number of pumps, number of tanks and the PCU setup are appropriate or an issue with posting totals to the PCTopKAT_Online.xls file will occur.
- Communications to the Online TopKAT FMS system must be verified with the customers PC with terminal emulation software such as HyperTerminal.
- The Transaction file **MUST** be initialized, cleared, and set.
- The Equipment and Driver files **MUST** be cleared.
- Memory Protection for the Online TopKAT system **MUST** be enabled. This can be accomplished with the command “EN PR” when contacting the site through the PC Online software. It can also be turned on at the Online TopKAT system using the normal menus.

Note: Failure to turn on Memory Protection could allow transactions to be approved but not stored as the warning message “Memory Full” would never be displayed. Transaction data would be lost if “Memory Protection” is not properly enabled.

When the Online TopKAT system programming is complete, the Gasboy ASC must know the following:

- The 4-digit Location Number loaded
- The 2-digit Poll Address loaded (normally 01)
- Baud rate set (normally 9600)
- First transaction to poll and post to the PC Online database after testing (initial fuel test transactions must not be polled).
- When the Online TopKAT system is in the “Fallback” mode, it will display:

“HOST OFFLINE
press **ENTER**”

Any Equipment and Driver information will be accepted without verification. The transactions generated can be viewed with the HyperTerminal connection already established or with a laptop directly connected to the Port 3/RS-232 port.

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9 – PC Online Software Requirements

The following are the minimum specifications for the PC TopKAT Online Software installation. They may differ slightly from the specifications printed on the CD-ROM that you insert. Additional research has shown that these enhanced specifications will improve the performance of the PC software.

PC Hardware and PC Windows Version Allowed

The PC Online Software must be run on either Windows® 2000 Pro or Windows XP® Professional Operating System.

- That PC will be provided and supported by the customer.
- The PC Online software package is sold and supported by Gasboy.

IMPORTANT INFORMATION
This software has been designed and tested to work with a PC using Windows English (United States) regional settings, where the decimal point character is used as the decimal separator. Ensure that the system is set up properly before using this software. Gasboy cannot guarantee that the software will work correctly using other regional settings.

Following are the PC hardware that is used:

- Pentium® IV processor
- 256 MB RAM
- 64 MB video card (see Note below)
- Windows-compatible laser or inkjet printer (see Note below)
- Serial port
- Mouse
- CD-ROM drive

Note: If you encounter problems with this software, ensure that you have the latest video and printer drivers installed on the computer before you contact Technical Support.

Installing the Online Software

To install the Online Software, proceed as follows:

IMPORTANT INFORMATION

Following are the login requirements:

- To install the PC TopKAT Online application on a Windows 2000 Professional or Windows XP Professional PC, you must be logged on to the PC as the ADMINISTRATOR user or a user who is a member of the ADMINISTRATOR user account.
- If you are not sure as to how to log on as one of these users, contact the site's PC support person for administrator login rights.
- To run the PC TopKAT Online Software on Windows 2000 Professional or Windows XP Professional, log on to your PC as the Administrator or a Power user.

- 1 Power on your computer and start Microsoft® Windows.
- 2 Insert the PC TopKAT Online software CD-ROM into the CD-ROM drive.
- 3 Select **Start**.
- 4 From the Start menu, select **Run**.
- 5 In the Open box of the Run window, type **D:\Setup**.
Note: On most computers, the CD-ROM drive is "D". If your CD-ROM drive is not "D", type the appropriate letter.
- 6 Select **OK**. Follow the on-screen instructions for installation.

Uninstalling the PC Online Software

To uninstall the PC TopKAT Online software, proceed as follows:

- 1 Log on to the PC as the ADMINISTRATOR.
- 2 If the PC Online software is running, close the application.
- 3 Stop the Interbase Guardian and Interbase Server Services.
Note: You must be logged on to the PC as the ADMINISTRATOR to stop services.
To stop the Interbase Guardian Service, proceed as follows:
 - a Select **Start > Settings > Control Panel** to navigate to Services.
 - b In the Control Panel, double-click **Administrative Tools > Services**.
 - c Select **Interbase Guardian** from the list of options and then select **Stop**.
 - d Follow the on-screen instructions. When still in Services, to stop the Interbase Server, select **Interbase Server** from the list of options and then select **Stop**. Follow the on-screen instructions.

- 4 Close Gasboy Background Task by right-clicking the **Pump** in the “System Tray” and select **Exit**.
- 5 Use **Add/Remove Programs** to remove the PC TopKAT Online software.
To remove the PC TopKAT Online software, proceed as follows:
 - a Double-click the **Add/Remove Programs** in Control Panel.
 - b Select **PC TopKAT Online** from the list of available programs.
 - c Select **Change/Remove**.
 - d Follow the on-screen instructions.

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10 – Using the PC TopKAT Online Software

Using the PC TopKAT Online Software for the First Time

To use the PC TopKAT Online Software for the first time, proceed as follows:

- 1 Start up the PC Online software. Select **Start > Programs** and then select **PC TopKAT Online**.
- 2 When the program starts, perform one of the following:
 - Register the software.
 - Have the License Agreement available that was inside the CD ROM case.
 - Call 1-800-444-5529, the Gasboy support line for the required Software Code.
 - ~ OR ~
 - Run the software as a fully functional 30-day demo and register it later.
- 3 When the program is run for the first time, a screen appears that displays information on the PC Online Software package setup. Perform one of the following:
 - Select **Yes** to print a copy of the PC TopKAT Online Setup form.
 - If you do not print out this form now, you can print it at another time using an editor, such as WordPad.

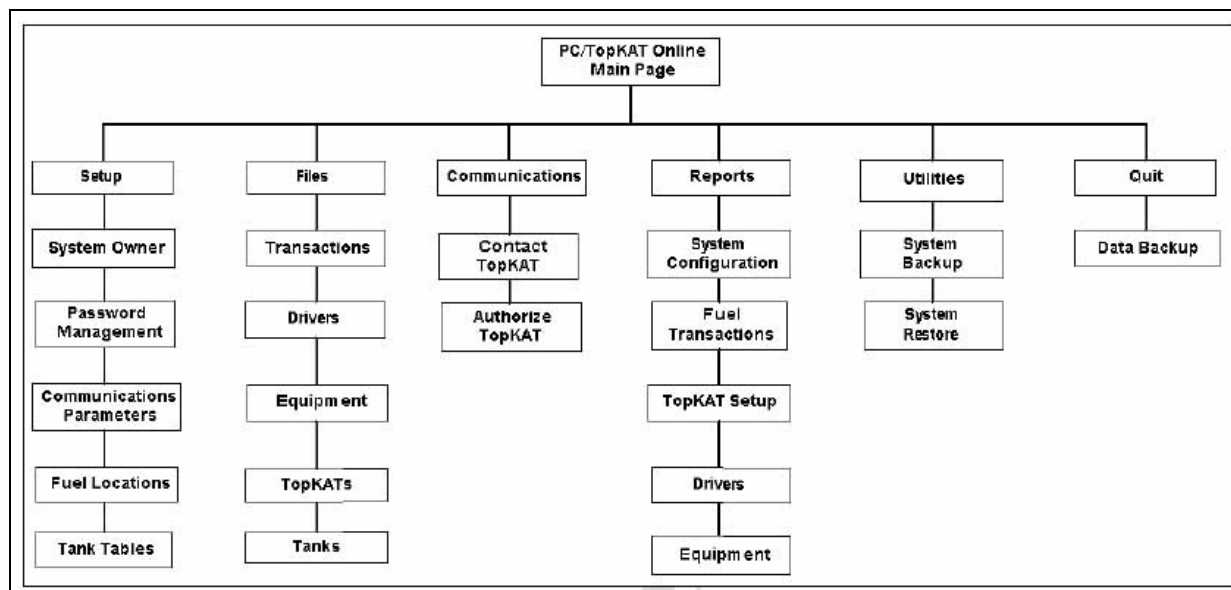
The file is called **SetupForm.txt** and can be found in the Help subdirectory PC TopKAT Online.
- 4 Fill all the applicable information on the form before attempting to use any of the package communication functions.

Note: If you are uncertain about any information requested on the Setup form, contact your Gasboy representative to obtain clarification.
- 5 After you have finished filling the setup form, you can enter the setup information into the PC Online Software package by entering the items on the Setup menu on the PC Online Software main page.

Note: For additional information on setting up the PC Online software, refer to the software online Help/Contents.

Online Software Menu Tree

Figure 10-1: Online Software Menu Tree





Setting Up the PC Online Software (Quick Start)

Navigation Buttons

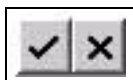
The navigation buttons are located in the upper left corner. You cannot modify information in an existing (current information grayed out) screen without clicking the Edit button first.





Icon	Description
	First
	Add
	Previous
	Delete
	Next

Icon	Description
	First
	Edit

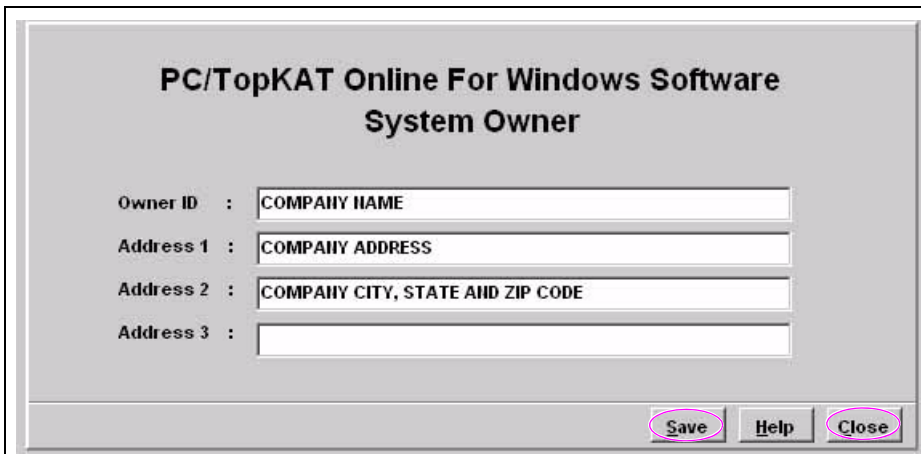
After you have choose to edit a screen, the following navigation buttons appears.



Icon	Description
	Save Data
	Cancel Changes

Setting Up the System Owner

Figure 10-2: Software System Owner Window



Enter the site's company information and select **Save** > **Close**.

Setting Up the Password Management System

Figure 10-3: Password Management System Window



If you choose to use the Password Management system, the screen as shown in [Figure 10-3](#) appears. Ensure that you save the password that you entered in a safe location. A confirmation screen appears to confirm the password that you have entered (see [Figure 10-4](#)).

During start up, it is advised that the Password Management system must be turned off.

Figure 10-4: Password Confirmation Window



Setting Up the Communications Parameters

Figure 10-5: Communication Parameters Window

Comm Port : COM1

Baud Rate : 9600

Monitor Mode : ☐ OFF ☒ ON

Save Help Close

Comm Port - Communication port to be used on the PC with the Online Software installed.

Baud Rate - This must match the baud rate programmed/set in the wireless modems and Online TopKAT systems.

Monitor Mode - Must be turned on.

Setting Up the Fuel Locations

Figure 10-6: Location Information Window

Location Information

Fuel System Type : TOPKAT

Location Number * 9208

Location Name * Herc Orlando

Location Number	Location Name
9208	Herc Orlando

Help Close

Location Number - The same 4-digit site number programmed in the Online TopKAT system. This number CANNOT be changed, after it is entered and saved. The location can be deleted.

If multiple Online TopKAT systems are communicating through wireless to the PC Online software, they must each have a unique "Location Number".

Location Name - 30-character reference name for the Online TopKAT system. This can be edited even after it is saved.

Setting Up the Tank Tables

Figure 10-7: Tank Table Setup Window

Tank Table Description * unlead

Tank Orientation
☒ Horizontal ☐ Vertical

Tank Table Data

Level (Inches)	Quantity (Gallons)
1	1000
2	2000
3	3000

Tank Table Used By:

Loc #	Tank #
9208	1

Buttons: Add Tank Table Data, Edit Tank Table Data, Del Tank Table Data, Import Tank Table, Help, Close

Tank Table Description - Enter the tank table descriptions of Unlead and Diesel at this time.

Tank Orientation - This can be checked at this time.

Note: You will not be able to add, edit, or delete Tank Table Data until the following step is completed.

Setting Up the Tank Information

Figure 10-8: Tank Information Window

Tank Information

Fuel Location 9208, Herc Orlando

Tank Table Description * unlead

Tank Number * 1 **Tilt Offset** 0

Tank	Tilt	Table Description
1	0	unlead
2	0	diesel

Buttons: Select Location, Help, Close

- **Select Location** - Allows you to select a different location if more than one location exists at this site.
- **Fuel Location** - Will display the selected location.
- **Tank Table Description** - Select **unlead** or **diesel** from the list of options that was previously set in Setup/Tank Table:
 - Tank “One” must be unlead
 - Tank “Two” must be diesel

Note: These settings must correspond to the values set at the Online TopKAT system and the excel spreadsheet for totals.

- **Tilt Offset** - Enter a tilt offset, if required.

Completing the Setup of Tank Tables

Note: You can now add, edit, or delete the Tank Table data.

Figure 10-9: Tank Table Setup Window

Level (Inches)	Quantity (Gallons)
1	1000
2	2000
3	3000

Loc #	Tank #
9208	1

As most sites have a Tank Monitor™ installed, few have used this feature fully. Most have just used 1 inch equals 1000 gallons for convenience.

Tank charts can be imported. For more information on importing tank charts, refer to the Help Topic/Contents/Tank tables.

Setting Up the TopKAT Systems

Figure 10-10: TopKAT System Setup Window

Select Location - Allows you to select a different location if more than one location exists at this site.

TopKAT Password - Password set in the Online TopKAT system when started up (normally GASBOY).

Poll Address - Poll Address set in the Online TopKAT system when started up (normally 01).

Note: The Poll Address must be the “Source Address” of the wireless modem (if used) at the same Online TopKAT.

Next Transaction - First transaction requires to be polled to the PC Online Software Database and then posted to the Rawtrans.dat file and PCTopKAT_Online.xls file

Authorize TopKAT - Set to **YES** when you are ready to start polling and have determined the first transaction you require to begin with in the PC Online Database. This must be performed after the Online TopKAT system has been fully tested with the connected pumps or dispensers.

Connection Type

Ensure that you set this appropriately for the type of communications used at this location.

- “Direct Connection” for SHM or Gasboy Termination Box.
- “Wireless Connection” when using the Coyote wireless modems for communications.

Comm Port/Baud Rate - This must have been previously set in setup/communications. Ensure that the baud rate of the Online TopKAT(s) and all wireless modems, if used, match this baud rate.

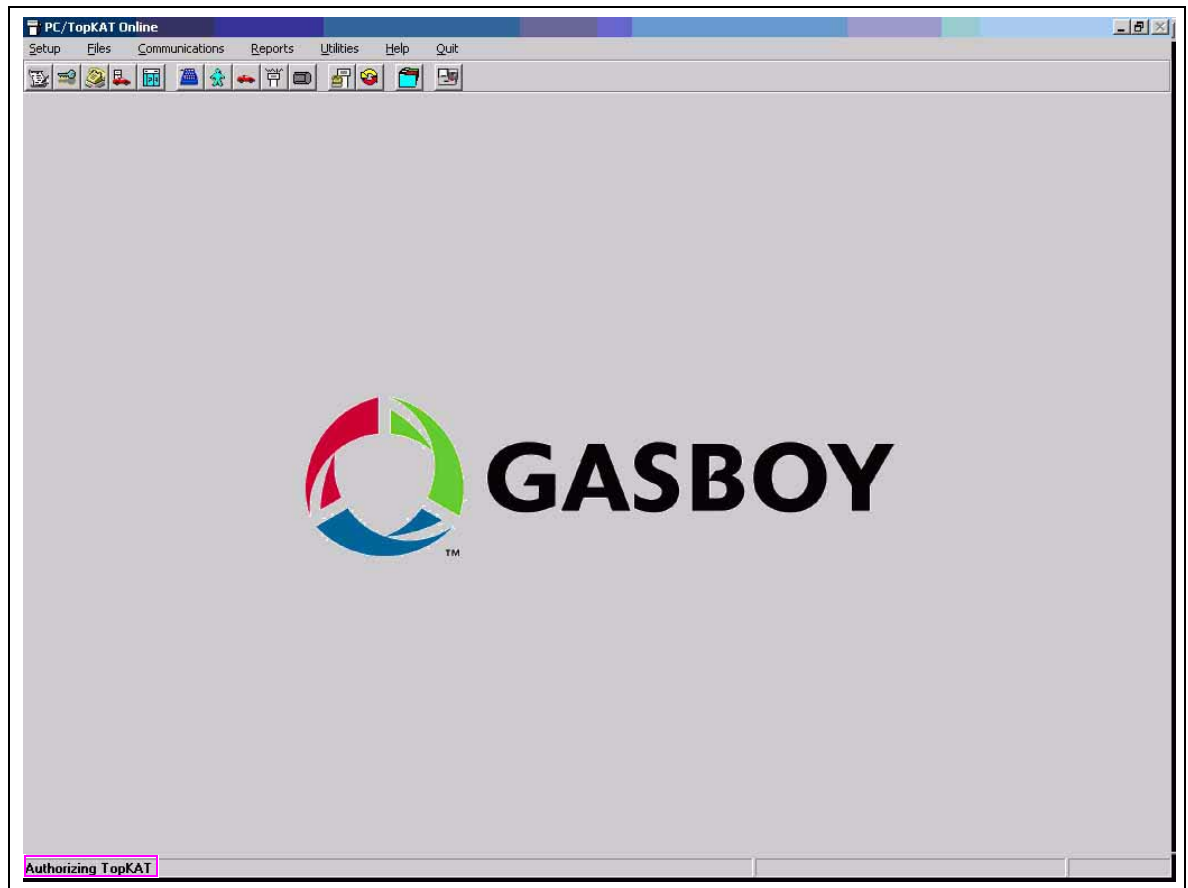
11 – PC TopKAT Online System Detailed Operational Process

System Overview

When a transaction is initiated at the Online TopKAT system, communication is initiated to the PC Online software database to authorize or deny the transaction. If the Online TopKAT system is operating in “Fallback” mode, the user has to enter additional information on the transaction type to proceed. Transaction information is collected in the PC Online database and in a Rawtrans.dat file. This file is retrieved at user-specified intervals, by a host computer system, for further processing. An MS-Excel spreadsheet containing user-specific information is updated with transaction information from PC Online. Each Online TopKAT communicates with the PC Online through a direct-connect cable or wireless modem.

PC Online and Main Screen

Figure 11-1: PC/TopKAT Online Main Screen



Communication Status Windows

The PC Online software has two communication status boxes. One on the bottom left of the screen and one on the bottom right.

- Bottom Left - “Authorizing TopKAT” is the normal display in this window during idle polling (see [Figure 11-1](#) on [page 33](#)). It will display additional status messages when an Online TopKAT system responds to a poll with a response. “Contacting Site”, “Sending Password” and receiving transaction information would be a few of the responses that could be seen.

Note: This window must be carefully monitored for messages in the case of communication or transaction error issues.

- Bottom Right - This will display “FALLBACK” when the PC Online software is unable to contact the Online TopKAT systems set to “Authorize TopKAT/YES”.

Note: Fallback operation is caused by incorrectly matching the settings of the PC Online Software, Online TopKAT system, and wireless modems or the incorrect wiring of the wireless modems or Gasboy SHM.

Modes of Operation

The PC Online Software has two modes of operation:

- **Authorizing TopKAT** - All Equipment and Drivers are verified with the PC Online database. Supervisor equipment is verified with the PC Online database.
- **Fallback** - Equipment and Drivers are not verified but a fallback transaction is created. This transaction is NOT posted to the PCTopKAT_Online.xls file but is added to the Rawtrans.dat file.

Authorizing TopKAT/General

- The PC Online software in this mode acts as the HOST and the TopKAT Online FMS system acts as the CLIENT.
- In the “Authorizing TopKAT” mode, the PC Online software constantly polls the sites Online TopKAT(s) for activity every 0.5 seconds.
- The PC Online software verifies the equipment and driver information entered at the Online TopKAT System(s).
- After all the entered data (all database settings in the PC Online software for Equipment # settings and Driver # settings) is verified as correct, the PC Online software sends the fueling approval to the Online TopKAT system(s).
- A fueling transaction will not be approved until all entries at the Online TopKAT have been verified as correct in PC Online software database.
- Completed transactions are polled and posted to the PC Online database, Rawtrans.dat file, and if allowed to the PCTopKAT_Online.xls file.

Authorizing TopKAT/Known Equipment

Note: For normally known Equipment Numbers stored in the PC Online database.

- The Online TopKAT system will respond to that poll when an Equipment Number is entered at the “Enter Equipment #” prompt on the Online TopKAT system.
- The PC Online software will verify the Equipment Number entered against its database of equipment.

- If the Equipment Number was active, the Online TopKAT system will then display the following:
 - “Enter Odometer” and or “Enter RA Number” - These numbers are not verified in the database but are stored in the transaction record
 - “Enter Driver #” and “Enter PIN Number”, if used, will then be displayed and the entered numbers verified in the PC Online Database.
 - The PC Online software will then send an approval to fuel to the Online TopKAT system requesting the approval.

Note: For complete prompting sequences, refer to “Appendix A: Prompts at the Hertz Online TopKAT” on page A-1.

Authorizing TopKAT/Supervisor/Unknown Equipment

- Supervisor equipment is an Equipment number set as “Transaction Type” or “Supervisor” in the Equipment database record.
- A Supervisor Equipment number is normally assigned to a supervisor employee or an employee that is authorized to fuel equipment not known in the PC Online database at the Online TopKAT system.
- A Supervisor Equipment number can be up to 9 digits long and is normally a number formed by the combination of the site number and normal driver number.
- After the Supervisor Equipment number is entered and verified, “SUPERVISOR” will be displayed at the Online TopKAT system.
- Since the equipment number is not known, additional prompts will be displayed at the Online TopKAT system to clarify the unknown equipment usage.
- A Driver Number and if used, a PIN number will still be prompted for and verified before a fueling transaction will be approved.
- Polling between the PC Online software and Online TopKAT is the same as normal equipment.

Note: For specific prompting, refer to “Appendix A: Prompts at the Hertz Online TopKAT” on page A-1.

Fallback Mode/Host Offline

- Employees must exercise care to ensure that the correct information is entered at the Online TopKAT system in the “Host Offline” mode.
- The data entered cannot be verified by the PC Online software database.
- Any fuel type can be dispensed.
- Any number or response will be allowed.
- The Fallback fueling transactions that occurs will be polled and posted to the PC Online Database when the communication issue is resolved.
- Fallback transactions will not be posted to the PCTopKAT_Online.xls file.
- When the PC Online Software is no longer communicating to the Online TopKAT system, the following messages appears:
 - “FALLBACK” will display on the lower right of the PC Online software main screen.
 - “HOST OFFLINE press ENTER” will appear on the Online TopKAT system. Press **Enter** to display “Fueling Trans”.

- If **Yes** is pressed, different prompts will appear depending on the response. For example,
 - Enter Equipment #
 - Initial Fillup? (Yes/No) NO
 - On Highway? (Yes/No) YES
 - Enter Driver #
 - Pump #

Note: For specific prompting, refer to “[Appendix A: Prompts at the Hertz Online TopKAT](#)” on [page A-1](#).

Transactions Handling

Online TopKAT

Transaction storage in the Online TopKAT system functions the same way as in the Standard Gasboy TopKAT FMS system.

Normal Equipment, Supervisor Equipment/(Driver), and Fallback/Host Offline transaction information are all stored in the same manner.

Previously polled transactions are still stored within the TopKAT Online System memory, if not written over by the most current transaction completed.

The Move Pointer in the Online TopKAT and Next Transaction to poll in the PC Online software can be used if transaction polling between the two systems gets out of sync.

Note: Exercise care when using Move Pointer and Next Transaction to poll. If you are not completely familiar with this process, contact the Gasboy Help Desk for assistance.

PC Online Software

- For transactions, including Fallback transactions to be captured to the PC Online database, the PC Online must be in or returned to the “Authorizing TopKAT” status mode.
- ALL “Fueling Transactions” when completed, are stored in the Online TopKAT memory.
- The PC Online software constantly polls the completed transactions.
- If the completed transaction properly posts to the PC Online database, it moves the transaction pointer at the Online TopKAT system and increments the next transaction to poll pointer in FILES/TopKAT.
- Transactions with errors are posted to C:\Program Files\PC TopKAT Online\Files\ file name Badtrans.txt. This has been noted with transaction with a corrupted date and time due to the Online TopKAT system date/time not being properly set at startup.
- The “Authorizing TopKAT” communication status window will briefly display the captured transaction and any posting errors.
- If required, those messages can be reviewed in the “manage” and “session” logs stored in C:\Program Files\PC TopKAT Online.
- Fallback/Host Offline transactions will be polled and posted as soon as the “Authorizing TopKAT” mode of communications is resumed.

Transaction Auto Export Files

- There are two files that PC Online automatically exports the captured transactions to “Rawtrans.dat” and “PCTopKAT_Online.xls”.
- Fallback transactions are not posted to “PCTopKAT_Online.xls”.

RAWTRANS.DAT

- PC Online posts all captured transactions, Normal Equipment, Supervisor Equipment/(Driver) and Fallback/Host Offline transactions to the Rawtrans.dat file.
- The Rawtrans.dat file is saved in the C:\Program Files\Gasboy\PC TopKAT Online\Outbox\Transactions folder.
Note: For the export file layout, refer to “Appendix A: Prompts at the Hertz Online TopKAT” on page A-1.
- This file contains a record for all transactions until they are retrieved through host processing.
- If the Rawtrans.dat file is not being copied and cleared on a regular basis by the customer’s mainframe, it must be deleted at least once a year.

PCTopKAT_Online.xls

PCTopKAT_Online.xls is a file designed and maintained by the customer. The file must be placed in C:\Program Files\PC TopKAT Online\Files. PC Online only exports “Authorized” (normal and supervisor) transaction totals to “PCTopKAT_Online.xls”. This file must be posted to, at the time of the transaction being posted to the PC Online database, be in place and unopened in C:\Program Files\PC TopKAT Online\Files. Error records are placed in the SpreadSheet_Errors.dat file. The sale file location is C:\Program Files\PC TopKAT Online\Files.

Files/Transaction

The transactions captured/pollled without errors appears as shown in the [Figure 11-2](#). The captured and stored database of transactions is searchable. The entire database of stored transactions may be purged periodically, if required.

- **Green** - Transactions are normal/known Equipment numbers.
- **Yellow** - Transactions are Supervisor Equipment/(Driver).
- **Red** - Transactions are Fallback.

Figure 11-2: Transaction Information Tab of PCTopKAT_Online.xls

Loc #	Poll Addr	Date/Time	Trans #	Equipment	Rental Agreement	Prod #	Quantity	Driver	Transaction Type
8208	01	12/3/2008 2:21:00 PM	0011	000001234	00000000	1	25	0001	Supervisor
8206	01	12/3/2008 2:23:00 PM	0012	000001111	00001234	1	17	0001	Other
8208	01	12/3/2008 2:25:00 PM	0013	123456789	00123456		28	0001	Fallback

- To retrieve the detail information for any transaction, select the right arrow next to the transaction that is required and select **Transaction Information**.
- The Search button allows to retrieve individual or a group of transactions by Date, Pump, Location, Tran, Equipment, Driver, Poll Address, and Rental agreement numbers (see [Figure 11-3](#)).

Figure 11-3: Transactions Tab of PCTopKAT_Online.xls

PC Online System Equipment and Drivers

Figure 11-4: Equipment Information Window

Equip Num	Description	Max FPD	Lock Status	Trans Type	Limit Cutoff	Odom	priz
000001111	2004 CHRYSLER TOWN AND COUNTRY	0	Active	Fueling	20	1	
091140001	Duke Ganey	0	Active	Supervisor	200	0	

Figure 11-5: Driver Information Window

Driver Number	Last Name	First Name
0001	Doe	John

- The PC Online Equipment file and Drivers file contains information about every piece of equipment and every Driver “authorized” to use the Online TopKAT systems.
- When you select either Files/Equipment or Files/Drivers, a screen displays the first equipment or driver record in a template. A scrollable and searchable grid of all Equipment or Drivers in the PC Online database is displayed. For the list of options, refer to [“Appendix D: Driver Import Files”](#) on page D-1 and [“Appendix E: Equipment Import File”](#) on page E-1.
- The list of options for an individual Equipment record determines, where the totals on a completed transaction are stored in the PCTopKAT_Online.xls file, if used.
- You can add, delete, edit, activate or lockout individual Equipment or driver records using this screen.
- Exercise care when modifying these records locally and if these records are handled through import files. A new import file will overwrite any local changes.

Lockout Status/Equipment and Drivers

- Every Equipment and Driver record has a Lockout Status.
- Locked Out Equipment or Driver numbers will not be authorized for a fueling transaction.
- When PC Online is in the normal “Authorize TopKAT” mode, both the Equipment and Driver number entered must have the record set to “Active” for a fueling transaction to be approved.
- If import files are provided by the customer’s mainframe, lockout status must be modified using those files.

PC Online/Import Equipment and Drivers

Note: The files cannot be read if the PC Online Database is currently in use. For example, File/Equipment, Driver, TopKAT, Transaction, or Reports open and in use. These files will be read after those programs are closed. For details on these file layouts, refer to [“Appendix D: Driver Import Files”](#) on page D-1 and [“Appendix E: Equipment Import File”](#) on page E-1.

- Import files will be generated by the customer’s mainframe PC.
- Large numbers of Equipment and Drivers can be added, edited, activated, or locked out through import files.

- You cannot delete Equipment or Drivers records in the PC Online database through the import files.
- **Equipment.txt** and **Drivers.txt** (case-sensitive) must be the names used for the import files. These files are structured as carat delimited flat files.
- For Equipment.txt format, refer to “[Appendix E: Equipment Import File](#)” on [page E-1](#) and for Drivers.txt format, refer to “[Appendix D: Driver Import Files](#)” on [page D-1](#).
- “PC Online” must be running at the “Main Screen” either full screen or minimized.
- These files, when copied into the “C:\Program Files\PC TopKAT Online\Inbox” folder must begin to be read by PC Online within 5 seconds.
- If correctly formatted, all Equipment and Drivers within the file are posted to the PC Online database. See Files/Equipment and Files/Drivers above.
- During the import process, individual records with errors are posted to either “C:\Program Files\PC TopKAT Online\Outbox\Error\ Equipment or Drivers” folders.
- Import file records that have a field set to an invalid number or length will not be recognized and be posted to the appropriate error folder.
- An Import file will not be read, if a record within the file exceeds the maximum allowed character width for a record.

Online TopKAT Equipment and Drivers

- Equipment or Drivers records by design are never stored in the Online TopKAT systems.
- Only the “Clear file” option/commands remain, concerning the Equipment and Drivers in the Online TopKAT system.
- Clear File/Equipment and Clear File/Driver must be used at start up, CPU board replacement, or a program upgrade/change to ensure that the memory space allocated in the Online TopKAT system is uncorrupted.
- In addition, there are two special commands that can be used when contacting an Online TopKAT system. These must only be used on the advise of Gasboy Engineering.
 - **Admin Equipment:** This command retrieves the last equipment number entered.
 - **Admin Driver:** This command retrieves the last driver number entered.

Communications

There are two options available under the communications menu.

- “Contact TopKAT” allows the user to contact one of the Online TopKAT system to verify or change programming to match the PC Online software.
- “Authorized TopKAT” allows the user to suspend “Authorizing TopKAT” and cause the Online TopKAT system and PC Online to go to the “Fallback” mode.
- This must be used anytime the PCTopKAT_Online.xls file is about to be locally accessed for any reason.
- This is used to allow a clean backup of the database.
- It is also be used to attempt to force the Online TopKAT systems and PC Online back into the “Authorizing TopKAT” mode due to an unusual communication interruptions or issues.

Figure 11-6: Available TopKATs Window

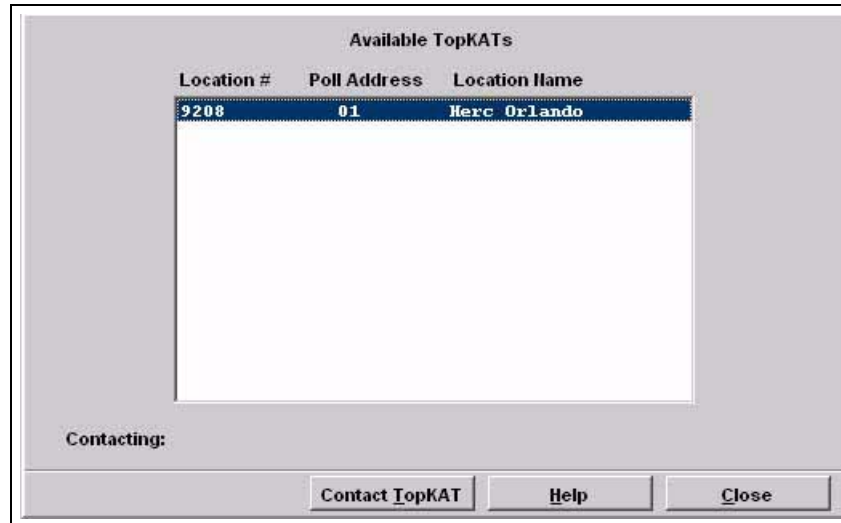


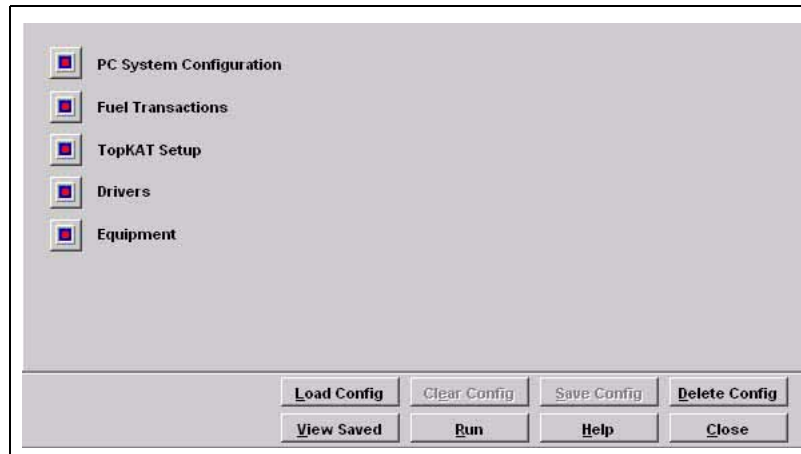
Figure 11-7: TopKAT Authorizing Status Window



Reports

Note: When you enter the Reports menu, the Online TopKAT systems and PC Online will go into the “Fallback” mode. Do not enter the Reports menu when the Online TopKAT systems are required for fueling. Import of Equipment.txt and Drivers.txt files will be delayed until you completely exit the Reports menu or whenever you have forced the system into the “Fallback” mode due to local access of the database.

Figure 11-8: Reports Menu



- Depending on the report selected, there are user-selectable configuration options that can be applied to customize the report and up to four output options:
 - Preview or Print,
 - Disk unformatted (comma-delimited) or Disk formatted (Crystal Report).
- Preview is available for all types and displays the report on your screen.
- A Print button is available if you decide to print the displayed report.

Transaction, Driver, and Equipment Reports

Figure 11-9: Report Configuration Window

- These reports may be configured with a various user-selectable sorting options.
- These user-selected report configuration(s) may be saved for future use.
- The format of the report is based upon the user-selected sort-by criteria.

Exporting Reports

- Disk formatting (Crystal Report) is available for all reports.
- The default export file location is "C:\Program Files\PC TopKAT Online\Exports.
- Disk (comma-delimited file) is available only with the Fuel Transactions report and the output is in the form of a comma-delimited file that you can use in external applications.
- This format is not available when Summary is selected as an output selection.
- There is also an option to include a header line with the data. This is useful for determining the layout of the data when preparing it for external use.

Utilities

The Utilities menu allows to backup the entire PC Online database. Every time you exit the PC, you are offered an opportunity to back up the database.

- It is highly advised that a periodic backup procedure be implemented and strictly followed.
- A dated periodic backup must be part of that procedure. Those dated backups must be available for several weeks or months depending on your backup procedure.
- The backup created is capable of taking a fresh install of the PC Online software and restoring the entire database back to the time of the last good backup.
- The backup file created **SHOULD NOT ONLY** be stored on the same PC that the PC Online software is running on. In case of a PC hard drive failure or complete PC failure, only the backups would be lost with the PC that just failed.

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Appendix A: Prompts at the Hertz Online TopKAT

Online Normal Fueling Sequence

The display will scroll to “ENTER EQUIPMENT #” since Keyless is the only entry mode. Upon selecting the equipment number, the display shows:

“EQUIPMENT #”.

(the selected number is shown here)

Press **Enter** and the display shows:

“Retrieving data.

please wait”

The Equipment number is sent to the PC, which returns the Equipment Record to the TopKAT system.

If an Equipment Record is not found, the display shows “NO EQUIPMENT RECORD”.

This is displayed for 3 seconds and the sequence is terminated.

If an Equipment Record is not received within 15 seconds, the TopKAT system reverts to Fallback Scenario 2 described in section [“Offline Scenario 2”](#) on [page A-7](#).

If the Maximum Fuelings/Day has been exceeded, the display shows “DAILY LIMIT EXCEEDED”. This is displayed for 3 seconds and the sequence is terminated.

If a successful Equipment Number entry has been made and the Equipment Type is Rental Equipment, the display shows “ENTER RA NUMBER”.

After accepting the Rental Agreement Number (or after acceptance of the Equipment Number, if the equipment is not Rental Equipment) the display shows “ENTER DRIVER #”.

Enter the number, press **Enter** and the display shows

“Retrieving data.

please wait”.

The Driver number is sent to the PC, which returns the Driver Record to the TopKAT system.

If a Driver Record is not found, the display shows

“NO RECORD FOUND

please reenter”.

There are three retries. After the third unsuccessful attempt, the display shows “NO RECORD FOUND”.

This is displayed for 3 seconds and the sequence is terminated.

If a Driver Record is not received within 15 seconds, the TopKAT system reverts to Fallback Scenario 3 described in section [“Offline Scenario 3”](#) on [page A-8](#).

If a successful Driver Number entry has been made, the display shows “ENTER PUMP #”.

The remainder of the sequence is identical to the current TopKAT system.

Online Supervisor Sequence

The display will scroll to “ENTER EQUIPMENT #” since Keyless is the only entry mode. In this case, the Equipment Number is the number assigned to the Supervisor. Upon selecting the equipment number, the display shows:

“EQUIPMENT #”

(the selected number is shown here)

Press **Enter** and the display shows

“Retrieving data.

please wait”.

The Equipment number is sent to the PC, which returns the Equipment Record to the TopKAT system.

If an Equipment Record is not found, the display shows “NO EQUIPMENT RECORD”.

This is displayed for 3 seconds and the sequence is terminated.

If an Equipment Record is not received within 15 seconds, the TopKAT system reverts to Fallback Scenario 2 described in section [“Offline Scenario 2”](#) on [page A-7](#).

If a successful Equipment Number entry has been made, the display then shows “SUPERVISOR”.

This is displayed for 3 seconds after which the display shows “ENTER EQUIPMENT #”.

The Equipment number is entered and accepted. The display shows:

“INITIAL FILLUP?”

PRESS [YES] OR [NO]

YES = skip to On Highway/Off Highway question

NO = proceed to Rental Equipment question

RENTAL EQUIPMENT?

PRESS [YES] OR [NO]”

If **YES** is pressed, the display shows “ENTER RA NUMBER:”

After accepting the Rental Agreement Number entry, the display shows:

“ON HIGHWAY?”

PRESS [YES] OR [NO]”

After this input, proceed to ENTER DRIVER #.

If **NO** is pressed for the RENTAL EQUIPMENT question, the display shows:

“MECHANICS TRUCK?”

PRESS [YES] OR [NO]”

If **NO** is pressed, the display shows:

“DELIVERY TRUCK?”

PRESS [YES] OR [NO]”

If **NO** is pressed, the display shows:

“SHOP USE?”

PRESS [YES] OR [NO]”

If **NO** is pressed, the display shows:

“MISC/OTHER?”

PRESS [YES] OR [NO]”

If **NO** is pressed, “TRANSACTION ABORTED” is displayed.

The display returns to scrolling “ENTER EQUIPMENT #”.

If no entry is received on any of the above after 20 seconds, the display returns to “ENTER EQUIPMENT #”.

If **YES** is pressed for **MECHANICS**, **DELIVERY**, **SHOP USE** or **MISC/OTHER**, or following the **INITIAL FILLUP** question, the following is displayed:

“ENTER DRIVER #”:

The Driver number is entered and accepted. The display shows “ENTER PUMP #”:

The remainder of the sequence is identical to the current TopKAT system.

Offline Fallback

Offline Scenario 1

If no Status Request is received within 15 seconds, the following sequence results:

The display scrolls:

“HOST OFFLINE
press ENTER”

Upon pressing **ENTER**, the display shows:

“FUELING TRANS?
PRESS [YES] OR [NO]”

If **YES** is pressed,

“ENTER EQUIPMENT #
INITIAL FILLUP?
PRESS [YES] OR [NO]”

If **YES** is pressed, proceed to On/Off Highway question.

If **NO** is pressed, proceed to Rental Equipment question.

“RENTAL EQUIPMENT?”

PRESS [YES] OR [NO]”

If **YES** is pressed, the display shows “ENTER RA NUMBER”.

After accepting the Rental Agreement Number entry, the display shows:

“ON HIGHWAY?”

PRESS [YES] OR [NO]”

After this input, proceed to ENTER DRIVER #.

If **NO** is pressed for the RENTAL EQUIPMENT question, the display shows:

“MECHANICS TRUCK?”

PRESS [YES] OR [NO]”

If **NO** is pressed, the display shows:

“DELIVERY TRUCK?”

PRESS [YES] OR [NO]”

If **NO** is pressed, the display shows:

“SHOP USE?”

PRESS [YES] OR [NO]”

If **NO** is pressed, the display shows:

“MISC/OTHER?”

PRESS [YES] OR [NO]”

If **NO** is pressed, the display shows “TRANSACTION ABORTED”.

The display returns to scrolling:

“HOST OFFLINE

Press ENTER”

If no entry is received on any of the above after 20 seconds, the display returns to:

“HOST OFFLINE

Press ENTER”

If **YES** is pressed for MECHANICS, DELIVERY, SHOP USE or MISC/OTHER, or following the INITIAL FILLUP question, the following is displayed:

“ENTER DRIVER #

ENTER PUMP #”

If **NO** is pressed on the FUELING TRANS question, the display shows:

“DIPSTICK TRANS?

PRESS [YES] OR [NO]”

If **YES** is pressed, the display shows:

“ENTER TANK #

ENTER TOTAL LEVEL

ENTER WATER LEVEL”

If **NO** is pressed, the display shows:

“DELIVERY TRANS?

PRESS [YES] OR [NO]”

If **YES** is pressed, the display shows:

“ENTER TANK #

ENTER QUANTITY”

If **NO** is pressed, the display shows:

“PUMP CAL TRANS?

PRESS [YES] OR [NO]”

If **YES** is pressed, the display shows:

“ENTER EQUIPMENT #

ENTER DRIVER #

ENTER PUMP #”

If **NO** is pressed, the display shows:

“TOTALIZER TRANS?

PRESS [YES] OR [NO]”

If **YES** is pressed, the display shows:

“ENTER PUMP #

ENTER READING (expressed as XXXXXXXX.XX)

READING RECORDED”

If **NO** is pressed, the display shows “TRANSACTION ABORTED”.

The display returns to scrolling:

“HOST OFFLINE

Press ENTER”

If no entry is received on any of the above after 20 seconds, the display returns to:

“HOST OFFLINE

Press ENTER”

Note: For the Dipstick, Delivery, and Totalizer transactions, since there is no Equipment Number entered, the Equipment Number is fixed as follows:

Dipstick	999999999
Delivery	999999998
Totalizer	999999997

Offline Scenario 2

If the Equipment # was entered when the TopKAT system was in authorization mode but no Equipment Record was received due to loss of communications, the following is displayed:

“FUELING TRANS?

PRESS [YES] OR [NO]”

The sequence is as in “[Offline Scenario 1](#)” on [page A-4](#).

Offline Scenario 3

If the Driver # was entered but no Driver Record was received, accept the entered Driver #. These files are structured as carat delimited flat files.

“ENTER PUMP #:”

The remainder of the sequence is identical to the current TopKAT system.

Totalizer Sequence (Online Mode)

The display will scroll to “ENTER EQUIPMENT #” since Keyless is the only entry mode. Upon selecting the equipment number, the display shows:

EQUIPMENT #:

(the selected number is shown here)

Press **Enter** and the display shows:

“Retrieving data.

please wait”

The Equipment number is sent to the PC, which returns the Equipment Record to the TopKAT system.

If an Equipment Record is not found, the display shows “NO EQUIPMENT RECORD”.

This is displayed for 3 seconds and the sequence is terminated.

If an Equipment Record is not received within 15 seconds, the TopKAT system reverts to Fallback described in [“Offline Scenario 2”](#) on [page A-7](#).

If a successful Equipment Number entry has been made, the display then shows the prompts in the following sequence:

“ENTER PUMP #:

ENTER READING: (expressed as XXXXXXXX.XX)

READING RECORDED”

Appendix B: Assumptions

The list of assumptions that have been made about the Hertz PC TopKAT system are listed below:

- The format of the MS-Excel sheets are fixed. The MS-Excel file, which is made available to the Hertz PC TopKAT Online software must be named as **“PCTopKAT_OnLine.xls”** and must be placed in the sub-folder **“C:\Program Files\Gasboy\PC TopKAT Online\Files”** by Hertz.
- The date of the transaction determines which “page” is updated. It is possible to have empty pages if no transactions occur during a day. The date fields on the Daily Fuel Record, Dipstick/Meter Reading, and Daily Reconciliation sheets are populated when the user creates a new series of sheets for the next reporting period.
- The “Tank Number” fields on the pump meter page are populated by Hertz. This tank number is matched to the tank number in the transaction to determine which page must be updated with the reading.
- The “I.C. Number” is the equipment number.
- Each piece of equipment will be identified in the database as EITHER “On Highway” OR “Off Highway”.
- Each piece of equipment will be identified in the database as EITHER “Rental Equipment” OR “Mechanics Truck (service vehicle)” OR “Delivery Truck (service vehicle)” OR “Misc/Other”.
- The record for each piece of equipment will contain a flag to determine if the equipment has been fueled before. It will be the responsibility of the AS400 program to set this flag correctly.
- Any transactions already in the Hertz PC TopKAT Online database will not update the sheet.
- Manually entered transactions in the Hertz PC TopKAT Online software will not update the sheet.
- Create a new “Totalizer Transaction” to record pump totalizer readings.
- Only the latest dipstick and totalizer transactions for each day will be used.
- Product 1 will always be Unleaded and Product 2 will always be Diesel.
- On the “Daily Fuel Record” sheet, if more transactions occur than there are rows available, the transactions will not update the sheet.

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Appendix C: Hertz Excel Cells

The list of cells from the Hertz Excel sheets that will be populated by the Hertz PC TopKAT Online software are listed below:

Daily Fuel Report

The Daily Fuel report provides the following information:

- Rental equipment I.C. number (cells A9...A29 and A48...A68)
- Rental equipment R.A. number (cells C9...C29 and C48...C68)
- On Highway gallons (cells E9...E29 and E48...E68)
- Off Highway gallons (cells F9...F29 and F48...F68)
- Mechanics Trucks I.C. number (cells H9...H18 and H48...H56)
- On Highway gallons (cells I9...I18 and I48...I56)
- Delivery Trucks I.C. number (cells H20...H29 and H58...H68)
- On Highway gallons (cells I20...I29 and I58...I68)
- “Misc/Other” I.C. number (cells H31...H32 and H70...H71)
- On Highway gallons (cells I31...I32 and I70...I71)
- “Misc/Shop Use” I.C. number (cells H34...H36 and H73 ... H75)
- Off Highway gallons (cells I34 ...I36 and I73...I75)
- Rental Equipment Initial Fillup I.C. number (cells A33...A35 and A72...A74)
- On Highway gallons (cells E33...E35 and E72 ...E74)
- Off Highway gallons (cells F33...F35 and F72...F74)

Dipstick/Meter Reading Report

The Dipstick/Meter Reading report provides the following information:

- Meter 1 (cells D8, D11...D98 and D110, D113...D200)
- Meter 2 (cells E8, E11...E98 and E110, E113...E200)
- Meter 3 (cells F8, F11...F98 and F110, F113... F200)
- Meter 4 (cells G8, G11...G98 and G110, G113... G200)
- Meter 5 (cells H8, H11...H98 and H110, H113...H200)
- Meter 6 (cells I8, I11...I98 and I110, I113...I200)
- Daily water in inches (cell K8, K11...K98 and K110, K113...K200)
- Daily total inches (cell K9, K12...K99 and K111, K114...K201)
- Daily gallons (cell K10, K13...K100 and K112, K115...K202). This will be “0” if the Hertz PC TopKAT Online software was unable to convert the inch reading to gallons.

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Appendix D: Driver Import Files

Gasboy File Layouts for Hertz
December 18, 2003

Driver File for GASBOY Import

Created by: AS400/Hertz

Cleared by: GASBOY software on PC

File name: Drivers.txt

File location on PC: **C:\Program Files\Gasboy\PC TopKAT Online\Inbox**

File type: ASCII. Each field will be delimited by a ^ (Shift 6) to avoid confusion when commas and quotes are included in a field.

File Layout:

Field Name	Size	Type	Notes	Required
Driver Number	4	Numeric	Add leading zeroes if not 4 digits	Yes
Lockout Status	1	Numeric	0 = Active 1 = Locked	Yes
PIN	4	Numeric	Enter 0000 for now	Yes
Last Name	30	Alphanumeric	Size can be 0-30	No
First Name	30	Alphanumeric	Size can be 0-30	No
Middle Initial	1	Alphanumeric		No

Sample records:

1234^0^0000^Doe^John^Q

0001^1^0000^Doe^Jane^

0002^1^0000^Doe^^

0003^1^0000^^^

Error Records: Records that cannot be imported by GASBOY from the Drivers.txt file will be placed in the BadDrivers.txt file, located in the **C:\Program Files\Gasboy\PC TopKAT Online\Outbox\Errors\Drivers** directory on the PC. Records will be appended to this file if it already exists. The AS400/Hertz will be responsible for deleting this file.

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Appendix E: Equipment Import File

Equipment File for GASBOY Import

Created by: AS400/Hertz

Cleared by: GASBOY software on PC

File name: Equipment.txt

File location on NT box: **C:\Program Files\Gasboy\PC TopKAT Online\Inbox**

File type: ASCII. Each field will be delimited by a ^ (Shift 6) to avoid confusion when commas and quotes are included in a field.

File Layout:

Field Name	Size	Type	Notes	Required
Equipment Number	9	Numeric	Add leading zeroes if not 9 digits	Yes
Lockout Status	1	Numeric	0 = Active 1 = Locked Out	Yes
Authorization	1	Numeric	1 = Unleaded 2 = Diesel 3 and 4 unused 0 = All 1 = 1 2 = 2 3 = 3 4 = 4 5 = 1 and 2 6 = 1 and 3 7 = 2 and 3 8 = 1, 2, and 3 9 = 2, 3, and 4	Yes
Limitation	1	Numeric	Units in Gallons (could be used for Liters) 0 = 5 1 = 15 2 = 20 3 = 35 4 = 2 5 = 50 6 = 100 7 = 200 8 = 300 9 = 999	Yes
Check Digit	1	Numeric	0-3 allowed 0 = No Entries 1 = Odometer 2 = Driver 3 = Odometer and Driver	Yes
Transaction type	1	Numeric	0 = Normal fueling *1 = Dip Stick reading *2 = Fuel Delivery *3 = Pump calibration *4 = Supervisor *5 = Totalizer	Yes
Max fuelings/day	2	Numeric	00-99 allowed, 00 = unlimited	Yes
Usage	1	Numeric	0 = On Highway 1 = Off Highway * 2 = NA	Yes
Fueled Before	1	Numeric	0 = No 1 = Yes * 2 = NA	Yes
Equipment Type	1	Numeric	0 = Rental Equipment 1 = Mechanics Truck 2 = Delivery Truck 3 = Misc/Other 4 = Misc/Shop Use *5 = NA	Yes
Equipment Description	30	Alphanumeric	Size can be 0-30	No

Sample records:

123456789^0^1^1^0^02^0^0^0^BOOM/41'/GAS/2WD

000000001^1^2^3^0^00^0^0^0^

Error Records: Records that cannot be imported by GASBOY from the Equipment.txt file will be placed in the BadEquipment.txt file, located in the **C:\Program Files\Gasboy\PC TopKAT Online\Outbox\Errors\Equipment** directory on the PC. Records will be appended to this file if it already exists. The AS400/Hertz is responsible for deleting this file.

Note: The fields “Usage”, “Fueled Before” and “Equipment Type” must be set to NA (Usage = 2, Fueled Before = 2, Equipment Type = 5) whenever the “Transaction Type” field is set to 1, 2, 3, 4, or 5. These fields only apply to normal fuel transactions (Transaction Type = 0).

Appendix F: Rawtrans File Layout

Created by: GASBOY software on PC

Cleared by: AS400/Hertz

File name: Rawtrans.dat

File location on NT box: **C:\Program Files\Gasboy\PC TopKAT Online\Outbox\Transactions**

File type: ASCII

File Layout:

Field Name	Size	Type	Notes
Location number	4	Numeric	Zero filled
Appliance Poll Address	2	Numeric	Zero filled
Transaction number	4	Numeric	Zero filled
Date	8	Numeric	YYYYMMDD
Time	4	Numeric	HHMM
Driver number	4	Numeric	Zero filled
Equipment number	9	Numeric	Zero filled
Pump number	2	Numeric	Zero filled
Tank number	2	Numeric	zero filled
Product number	2	Numeric	Zero filled
Quantity one	11	Numeric	XXXXXXXX.XXX The quantity one field may contain the fuel dispensed for a normal fueling transaction, the totalizer reading for a totalizer transaction or the gallons delivered for a fuel delivery transaction. These values are displayed in the "Quantity" column of the PC/TopKAT Online Files/Transactions transaction grid. The quantity one field may also contain the gallons of liquid (fuel + water) for a dipstick transaction. In this case, the value will be displayed in the "Calc. Qty." column of the PC/TopKAT Online Files/Transactions transaction grid.
Quantity two	8	Numeric	XXXXX.XXX The quantity two field will contain the gallons of water for a dipstick transaction. It will be displayed in the "Calc. Water Qty." column of the PC/TopKAT Online Files/Transactions transaction grid.
Odometer	6	Numeric	Zero filled
Transaction code	2	Numeric	Zero filled

Field Name	Size	Type	Notes
			01 = timed out
			02 = locked out
			03 = invalid fuel
			04 = pump in use
			06 = limit cutoff
			09 = normal completed transaction
			10 = fallback completed transaction
			13 = odometer range error
			14 = invalid PIN
			17 = pump disabled
			19 = invalid pump
			23 = emergency stop
			31 = power fail
			34 = invalid tank
			35 = dipstick transaction W/ water entry
			37 = dipstick transaction W/O water entry
			38 = dipstick transaction W/ water entry conversion error, tank not found
			39 = dipstick transaction W/O water entry conversion error, tank not found
			40 = dipstick transaction W/ water entry conversion error, tank not found
			41 = dipstick transaction W/O water entry conversion error, tank not found
			42 = fallback dipstick transaction W/O water entry
			43 = fallback dipstick transaction W/ water entry
			44 = fallback invalid driver entry
			45 = invalid driver entry
			51 = pump switch timer error
			55 = delivery transaction
			56 = fallback delivery transaction
			60 = memory loss transaction
			61 = unassigned transaction
			62 = dual pulser error
			63 = no record found
			64 = daily limit exceeded
			65 = pump out of service
			67 = supervisor transaction
Rental Agreement	8	Numeric	Zero filled

Sample Records	Notes
1234121234200208221100123412345678912121212345678901123456781234561212345678 1001010001200208221352000100000000201010100000010000000000000500009000000001	Normal Fueling Transaction
100101000220020822135300020000000030001010000500000000100000000003500000000	Dipstick Transaction
100101000320020822135400020000000040001010000300000000000000000005500000000	Delivery Transaction

Appendix G: PC/TopKAT Online Setup Form

For detailed information on any of these entries, use the online help.

Select **Help** > **Contents** and search for topic What You Need to Set Up PC/TopKAT Online.

Setup, System Owner

System Owner Name (40 characters): _____

System Owner Address 1 (40 characters): _____

System Owner Address 2 (40 characters): _____

System Owner Address 3 (40 characters): _____

Setup, Password Management

Password (1-20 alphanumeric characters): _____

Setup, Communications Parameters

Comm Port (circle): COM1 COM2 COM3 COM4

Baud Rate (circle): 300 1200 2400 9600

Setup, Fuel Locations

Note: A fuel location is the physical address where the TopKATs are located.

Fuel Location Number (4 digits): _____

Fuel Location Name (up to 30 alphanumeric): _____

Files, TopKATs

Note: TopKAT information must be provided for each TopKAT you will be using with the PC software package.

TopKAT Password (1-10 alphanumeric): _____

Poll Address (2 digits 1-32): _____

Next Transaction (4 digits): _____

Authorize TopKAT? (circle): Yes No

Connection Type (circle): Direct Wireless

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