

TRASH MINDER

Advanced System for Waste Compaction Monitoring

OPERATION MANUAL

FOR

Model **150MS**

Fullness Management System



VERNON, AL - FAYETTE, AL
YERINGTON, NV - CLEARFIELD, PA

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WELCOME TO TrashMinder

Congratulations! you have acquired a System which will bring your waste compactor into the Computer Age. The TrashMinder System literally provides a two-way line of communication between a host PC and a waste compactor.

For the convenience of the user, an Auto-Save is featured as part of the Software Program. Your work will be saved and protected from loss every hour - with no effort on your part.

The host computer's CRT will be protected against "burn-in". The Program will automatically shut down your monitor, if you so choose, between the running of reports or screen viewing. The screen monitor will come on again when you press any key.

We intend for this Manual to be a friendly guide, containing all the information the user needs to operate the TrashMinder System Software in a short period of time.

Since learning will be much easier if we speak the same language, we suggest that the user refer to the BASIC DEFINITIONS/GLOSSARY before beginning the TrashMinder Manual.

Use the PROGRAM START-UP for a condensed version of the steps used to get the program up and running. We recommend that the user refer to the more detailed instructions given in the PROCEDURES portion of the Manual. If incorrect or incomplete information is entered into the System data bank, it could affect the operation of the Program.

IMPORTANT NOTICE

This Manual should be carefully read and thoroughly understood by all individuals who have or will have the responsibility for using, or servicing the product. This Manual consists of equipment and software requirements, installation of software, getting started, and "how to" procedures. The installation of the software should be performed by authorized and experienced personnel only.

Please see the separate Installation Instructions For Hardware, Model 150MS for instructions on installing the required hardware on your compactor.

The TrashMinder System, as with any piece of equipment, will perform as designed only if it is installed, used and serviced in accordance with the manufacturer's instructions. The warranties made by Marathon Equipment Company with respect to the product are voided if the product is not installed, used and serviced in accordance with the instructions in this Manual.

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HARDWARE AND EQUIPMENT

RECOMMENDED HARDWARE AND EQUIPMENT

A. Computer:

- ◆ AT Type IBM compatible PC. NOTE: For optimum effectiveness, PC should be dedicated to use of TrashMinder System Software. Modem should be able to send and receive calls 24 hours a day.
- ◆ UPS (Uninterruptable Power Supply). We recommend this type of power supply if the System is supporting a large number of compactor units. This could prevent loss of information by the computer in the case of a power failure.
- ◆ Hard Disk - 50 MB (Minimum)
- ◆ 1 Floppy 3-1/2" Low or High Density Drive

B. Monitor:

- ◆ Color VGA

C. Printer:

- ◆ 80 Column "standard" type of printer. NOTE: For optimum effectiveness, printer should be dedicated to use of TrashMinder System Software. Printer should be available for all incoming reports from the On-Site Compactor System Controller.

D. Modem: (Included with TrashMinder System)

- ◆ Hayes Compatible.

E. Phone Line:

- ◆ Standard (non-dedicated). Voice grade level.

SOFTWARE REQUIREMENTS

1. The TrashMinder System program diskette, which accompanies this Manual.
2. MS DOS 5.0 - or a more current version.

NOTE: Before you install the TrashMinder System Software, we suggest that you make a working copy of the TrashMinder System diskette and store the original diskette in a safe place. If your working copy is ever damaged or lost, you will have your Master Diskette from which to make another working copy. The Diskette is not to be copied for any other purpose or use, per License Agreement.

See Installation Instructions - Page 4

SOFTWARE INSTALLATION

To install the TrashMinder System Program diskette on your hard disk, follow these instructions:

1. These instructions assume that you have **MS DOS 3.1** - or a more current version, and that the operating system has been fully installed in your PC.

In addition, the printer and modem should have been fully installed. Tests should have been made for basic operation, to ensure that there is communication between all components.

2. Start up (boot up) your PC.

3. When the **C:\ >** prompt appears, if the diskette has been placed in the A drive, type in: **A:INSTALL**
Press **ENTER**.

4. When the **C:\ >** prompt appears, if the diskette has been placed in the B drive, type in **B:INSTALL**
Press **ENTER**.

5. **Note: Our program resides in a sub-directory called "MINDER". The program is called "MINDER".**

6. Determine to which communication port your modem has been connected, then see chart below:

PC Communication Port	Modem port base address	Modem IRQ line
1	1016	4
2	760	3

NOTE: Use the above information in **SYSTEM PARAMETERS** when setting up a new installation (see Page 13)

NOTE: TO RECEIVE ALL THE BENEFITS BUILT INTO THE TRASHMINDER SOFTWARE PROGRAM, THE HOST PC AND PRINTER SHOULD BE DEDICATED TO THIS PROGRAM. THE PC AND PRINTER WILL THEN BE AVAILABLE TO RECEIVE ALL AUTOMATIC FULL AND EMPTY REPORTS.

PROGRAM START-UP

NOTE: DETAILED STEP-BY-STEP INSTRUCTIONS ARE AVAILABLE IN THE “HOW TO” PROCEDURES PORTION OF THIS MANUAL. WE RECOMMEND THAT THE DETAILED PROCEDURES SHOULD BE REVIEWED BEFORE COMPLETING ANY OF THE STEPS SHOWN BELOW. INCORRECT OR INCOMPLETE DATA ENTERED CAN AFFECT THE USE OF THE SOFTWARE PROGRAM.

A) INSTALL PROGRAM SOFTWARE

After initial installation, you should be in the TrashMinder program with the Main Menu on the screen.

B) Complete “System Parameters” to enter all information the Program needs to become established on the host PC.

Select “System Parameters” from the Main Menu and type the password “**MARATHON**” when the Password prompt appears on the screen. If the Password is entered correctly, “Systems Parameters” Menu will appear on the screen. See index to get page information for details on entering requested information (for extra help we suggest that you use the blank entry sheets provided with this guide). **NOTE:** This information has to be entered one time only to set up the System parameters. When completed, press ESC to return to the Main Menu.

C) Complete “Configure Compactor Sites” to identify each of the compactor units on the System.

Select “Configure Compactor Sites” from the **MAIN MENU**. When you are prompted to enter a compactor unit number, enter a pre-selected number to be assigned to a specific unit. (See Index for page information for details on selecting a compactor unit number).

Press **ENTER**. “Edit Compactor Info. 1” screen will appear. Complete the requested information. Move on to the “Edit Compactor Info. screens 2, 3 & 4”. **NOTE:** This information has to be entered only once, for each newly commissioned compactor unit. (It may simplify matters if you use the blank Entry Sheets provided with this Manual.) To send all of the information to the on-site System, select “**COMMISSION COMPACTOR**” on the bottom of the “Configure compactor Info. 4” screen. Press **ENTER**.

D) The Reports features of the TrashMinder System are now available.

You are now ready to generate all the valuable Reports and obtain information you can use to make managing your trash removal more cost effective.

TrashMinder SYSTEM

“HOW TO” PROCEDURES

PROCEDURES

BOOTING SCREEN

- 1) Screen appears when the P.C. is first started up. (See **FIGURE 1**)
- 2) Screen will also appear when **EXIT** is selected from the **MAIN MENU**.
- 3) To enter the TrashMinder System Program, type in the program name **MINDER** after the **C:\MINDER>** prompt appears on the screen. Press **ENTER**.
- 4) Messages will appear on screen to advise that you are now entering the TrashMinder System Program (See **FIGURE 2**).

MODEM INITIALIZATION

A message appears immediately after the **BOOTING** screen. It advises that the modem is being activated to connect your PC with the on-site TrashMinder System. The message will disappear after a few moments.

LOADING PROGRAM

A message appears after the **MODEM INITIALIZATION** to let you know that the TrashMinder System Program is being activated. It will disappear after about a minute and the **MAIN MENU** will appear on screen.

PROCEDURES

MAIN MENU

- 1) Screen display appears after the program is opened.
- 2) Select (highlight) the line item in which you are interested. Press ENTER.
- 3) The Sub Menu which you select will appear on the screen.

IMPORTANT: IF USING THE SYSTEM PROGRAM FOR THE FIRST TIME, SEE THE MANUAL INSTRUCTIONS ON ENTERING THE SYSTEM PARAMETERS BEFORE CONTINUING WITH ANY ADDITIONAL PROCEDURES.

NOTE: The line item ACCOUNTS MENU should not be activated. It is for use with another TrashMinder Program.

FUNCTIONS BAR

ILLUSTRATES THE 3 MAIN KEY FUNCTIONS WHICH ARE USED IN OPERATING THE TRASHMINDER SYSTEM SOFTWARE PROGRAM.

NOTE: Pressing the UP and DOWN ARROWS (CURSORS) is your means of SELECTING (HIGHLIGHTING) your choice of activity or report.

PROCEDURES

SYSTEM PARAMETERS

- 1) Select **SYSTEM PARAMETERS** on the **MAIN MENU**. Press **ENTER**.
- 2) A query box will appear asking for the Password. (See FIGURE 6 below). When correct Password is typed in the grayed area, this screen will appear with the line item details.
- 3) To enter or change information, select any line item and press **ENTER**. A query will appear asking you to type in necessary information. After typing, press **ENTER**. Proceed to next line item and continue same procedure.

NOTE: See **SYSTEM PARAMETERS-LINE ITEMS** below for details concerning each line item, including the **PASSWORD**.

ENTER PASSWORD

- 1) Type in the designated **PASSWORD**. Press **ENTER**.
(See **PASSWORD**) Line item detail below).
- 2) If **PASSWORD** is correct, the **SYSTEM PARAMETER** screen will be displayed. If an incorrect **PASSWORD** is used, the screen will return to the **MAIN MENU**. Try again.

SYSTEM PARAMETERS - LINE ITEMS

Modem port base address - See SOFTWARE INSTALLATION on Page 4

Modem IRQ Line - See SOFTWARE INSTALLATION on Page 4

Number of message retries - Number of times the PC will re-transmit a compactor command before hanging up.

Number of seconds on-line - Time the PC allows for an incoming/outgoing call cycle to complete before handing up.

Number of seconds for ack. - Time the PC will wait for a compactor acknowledgment before re-transmitting the same command.

Galaxy time interval (in secs.) - Timing for the “galaxy” background visible on some screens to move across the screen. (We recommend 1 second)

Screen Saver Interval (in Mins.) - Interval of time which will elapse between the last time the keyboard is used and the automatic shut-down of the screen. Choose time frame between 1 min. and 250 mins. by selecting this line item and pressing **ENTER**. Type in the desired number of minutes and then press **ENTER**. (We recommend 2 minutes). To “open” the screen for viewing, just press any key.

View Compactor I/O Stream - Used for diagnostic testing and not intended for general use. Should be **DISABLED**. Once you have selected **DISABLED**, do **NOT** press **ENTER**. Use the **ESC** key to leave the screen.

Password - The Password “**MARATHON**” is provided to you so that you can access the Systems Parameters for the first time. If you choose, you can then change the Password by selecting that line item and pressing **ENTER**. A query box will appear. Type in up to 12 characters of your choice and press **ENTER**. You have now installed a new Password. **TIP:** If you make an error or want to change your mind while entering a password, just backspace to erase all or any part. **TIP:** Keep a copy of the Password in a safe place.

Poll Retries - Number of times the PC Software will re-transmit a command to the site when it can’t get through to obtain a poll.

Unit Accounts - Should be **INACTIVE**. Used for another **TrashMinder** program. Should be **ENABLED**.

SYSTEM PARAMETERS - LINE ITEMS (CONTINUED):

Modem Initialization command - If correct, do nothing. If wrong, type in correct command.

Modem interrupt count - A diagnostic tool. (Not intended for general use).

Modem byte delay (in Ms.) - Depends upon speed of computer. We suggest '1'.

Poll Printing - In ENABLED, system will generate a printed report when polling (calling site for data). If DISABLED, system will store information in memory. Data can be viewed on a Status Report, based upon the last poll call date and time.

Auto No Contact printing - If ENABLED, an automatic report will be printed to identify those compactor units with which the system could not communicate. If DISABLED, no automatic report will be printed. Data can be requested as an on-demand report.

Compaction Full Learn Count - Enter the number of 'empty to full' cycles which the system should use as a basis to 'learn' the **average** number of compactions it takes to complete a cycle and create a Full condition. We suggest 10 cycles.

Percentage of true average - This number will specify the percentage of the 'learned average number of compactions' which the System will accept as a true FULL situation. Otherwise the System will report a 'jam'.

Re-Initialize Modem - When the Modem port base address and/or the Modem IRQ Line information is newly entered, or changed at some point, the on-site System needs to be informed. To do so, select this line item and press ENTER. The information will be transmitted to the on-site compactor Monitor System.

Terminal Mode - Used for diagnostic purposes. Not intended for general use.

Delete Events - A diagnostic tool. Not intended for general use.

PROCEDURES

ACCESS SYSTEM PARAMETERS

- 1) Select SYSTEM PARAMETERS on the MAIN MENU. Press ENTER.
- 2) A query box will appear asking for the Password. (See FIGURE 6 below). When correct Password is typed in the grayed area, this screen will appear with line item details.
- 3) Select any line item in which you want to add or change information.

COMPACTION FULL LEARN COUNT

- 1) When starting with an EMPTY compactor container, a number of compactions take place each time trash is put into the hopper. These compactions eventually reach the PSI designated as FULL.
- 2) Going from an EMPTY condition to a FULL condition is called a 'cycle'. Enter the number of cycles which the System should use as a basis for determining (learning) the **average** number of compactions it takes to complete a cycle and create a FULL condition. (We suggest 10 cycles).
- 3) The System will keep an ongoing 'watch' over the average number of compactions during a cycle to determine if a FULL reading falls within those learned average parameters. If there is a FULL reading with too few compactions, it may not be a true FULL and may be a 'jam' condition. The FULL report will reflect this information in a message at the bottom of the report.
- 4) This 'learn count' can be changed based upon later experience.

PERCENTAGE OF TRUE AVERAGE

- 1) To make the 'full learn count' feature more flexible, based upon different types of compacted refuse, this number will identify the percentage of the 'full learn count' which can be accepted by the System to indicate a Full status. For example, if the average 'full learn count' is 200 compactions between Empty and Full, 75% of that number may be acceptable as an indication of a Full container. Enter a % figure.
- 2) The percentage figure can be changed based upon later experience.

PROCEDURES

CONFIGURE COMPACTOR SITES

- 1) Select from MAIN MENU. Press ENTER. (See Fig 31).
- 2) Query will appear on screen (See FIGURE 32).
- 3) A series of four (4) **Configure Compactor Info** screens and menus will follow. See important comments below.

IMPORTANT: THIS PORTION OF THE TRASHMINDER SYSTEM PROGRAM REQUIRES ENTERING ESSENTIAL INFORMATION CONCERNING EACH ON-LINE SITE INSTALLATIONS. (EDITING CAN BE DONE FOR ANY CHANGES AFTER THE INITIAL INFORMATION HAS BEEN ENTERED.)

IMPORTANT: WHENEVER NEW INFORMATION IS ENTERED, OR EXISTING INFORMATION IS CHANGED, GENERATE AN “ON DEMAND POLL”. THIS WILL SEND THE INFORMATION TO THE ON-SITE SYSTEM AND PLACE IT INTO THE SYSTEM’S MEMORY.

ENTER COMPACTOR NUMBER

- 1) Query appears after **CONFIGURE COMPACTOR SITES** is selected.
- 2) Type in the appropriate number, press ENTER. (See Information below).

EXISTING SITE: If a compactor unit number has been previously assigned, type that number in the query’s grayed area.

NEW SITE: When setting up (commissioning) a new compactor unit, select a number (1 to 3 digits) which does not appear on the **SYSTEM COMPACTOR LIST**. (Page 34).

PROCEDURES

NEW SITE (CONTINUED):

- 1) Type that number in the query's grayed area. Screen (FIG 32-A) will appear.
- 2) If you do not want to use that number, type in 'N'. Procedure will be canceled. If you do want to assign that number, type in 'Y'.
- 3) After compactor unit number is entered, CONFIGURE COMPACTOR INFO 1 will appear on screen. Enter requested info.
- 4) That number is now the assigned compactor unit number and is used whenever you wish to "connect" with that specific unit.

NOTE: YOU CAN ASSIGN UP TO 4000 COMPACTOR UNIT NUMBERS. UNIT NUMBERS FROM 1 TO 256 CAN BE ASSIGNED PER INFORMATION SHOWN IN NET SITE ABOVE. (CONTACT MANUFACTURER MARATHON EQUIPMENT COMPANY FOR INFORMATION CONCERNING ADDING COMPACTOR UNIT NUMBERS OVER 256).

PROCEDURES

CONFIGURE COMPACTOR INFO MENU 1

- 1) Access from **CONFIGURE COMPACTOR SITES** on the **MAIN MENU**.
- 2) To set up information about a new compactor unit site, or to edit existing information, select a line item and press **ENTER**.
- 3) A query screen will appear. (**FIGURE 34**) See **QUERIES - INFO MENU 1** below.

REGION NUMBER

- 1) **OPTIONAL**. Determine what regions you want to assign, i.e., suburbs, cities, driver routes, etc. Decide what identification numbers you want to assign to a region.
- 2) Select **REGION** from the **CONFIGURE COMPACTOR INFO MENU 1**, and **ENTER**.
- 3) Determine to which region this compactor unit should be assigned. Enter that number in the query box. Press **ENTER**.
The number is now assigned. It can be changed by following same procedures as for a new assignment.

TrashMinder PHONE NUMBER

Enter the phone number assigned to the modem for the On-Site TrashMinder Controller. The host computer program will call this number for Poll Reports, etc.

SITE LOCATION NUMBER

Enter a number you select and assign to identify a site location, i.e., a specific mall or building in a complex, etc. That assigned number will be used to request reports by 'site location', and for other record keeping TrashMinder functions.

QUERIES - INFO MENU 1

NOTE: Queries will appear individually as each line item is selected. They have been combined into one "screen". (FIGURE 34) for ease in reviewing.

- 1) **INFORMATION FOR LINE ITEMS MARKED BY AN ASTERISK (*) MUST BE FILLED IN. OTHERS ARE OPTIONAL.** We recommend that most information be filled in to provide user with a data base.
- 2) After selecting a line item from **INFO MENU**, a query will appear. Type the information requested. Press **ENTER**.
- 3) If you choose not to fill in information for any line item (other than those marked by an asterisk), type in "00". **ENTER**.
- 4) Continue this procedure until all the appropriate information has been entered.
- 5) If you have previously entered some information but want to make changes, follow same directions as for new entries.
- 6) When entries are completed, select **INFO MENU 2** at bottom of screen. That Menu screen will then appear.

PROCEDURES

CONFIGURE COMPACTOR INFO MENU 2

- 1) Access from CONFIGURE COMPACTOR SITES on the MAIN MENU. Select INFO MENU 2 at bottom of INFO MENU 1 screen and press ENTER.
- 2) To set up information about a new compactor unit site, or to edit existing information, select a line item. ENTER.
- 3) A query screen will appear. (See FIGURE 36).

COMPACTOR STATUS

- 1) Select from INFO MENU 2. ENTER.
- 2) A sub-screen will appear offering the choice between “Currently Installed” and “Not on System”. (See FIGURE 67).
- 3) To “connect” a compactor unit to the System, select “Currently Installed” and press ENTER. **Only units which are “Currently Installed” will be part of the reporting system.**
- 4) If a unit is not to be part of the System, select “Not on System” and press ENTER.

(It can be “reconnected” at any time by selecting “Currently Installed”.)

NOTE: Queries shown on screen below appear individually as each line item is selected. They have been combined into one “screen” for convenience in reviewing.

QUERIES - INFO MENU 2

- 1) After selecting a line item from INFO MENU, a query space will appear. Type the information requested. Press ENTER.
- 2) **INFORMATION FOR LINE ITEMS MARKED BY AN ASTERISK (*) MUST BE FILLED IN. OTHERS ARE OPTIONAL.** (We recommend that most information be filled in to provide a good data base).
- 3) If you choose not to fill in information for line items without an asterisk, type in “00” and press ENTER.
- 4) Continue this process until all information has been entered.
- 5) To make changes, follow same directions as for new entries.
- 6) When entries are completed, select INFO MENU 3 at the bottom of screen. ENTER. EDIT INFO 3 screen will appear.

COMPACTOR FULL REPORT NOTE

Any ‘note’ or ‘message’ which you may want to include on the bottom of the “FULL” Report can be entered here - up to 25 fields (characters). This can be used for special instructions or reminders to haulers, employees, etc.

IMPORTANT: SEE FOLLOWING PAGES FOR INFORMATION ABOUT THE “INFO MENU 2” LINE ITEMS NOT SHOWN ON QUERIES SCREEN ABOVE.

PROCEDURES

AUTO POLL ON / OFF

- 1) Select from EDIT COMPACTOR INFO MENU 2.
- 2) User has a choice of enabling (ON) or disabling (OFF) this function. If enabled, the System will poll the unit about midnight every night (or as frequently as you choose - see FIGURE 38). An AUTO POLL SITE STATUS REPORT will print out. If disabled, then no report will be generated.
- 3) To enable or disable, use the ENTER key. Go to another line item, or press ESC.

NO CONTACT LIST

If the System cannot reach a Monitor Site during an auto poll, it will print out a "NO CONTACT LIST" listing those compactor units which could not be contacted.

AUTO POLL FREQUENCY

If you type in "1", a daily Auto Poll will be made. If you type in 3, a Poll will be made every 3rd day, etc.

AUTO PICK UP ON / OFF

- 1) Select from EDIT COMPACTOR INFO MENU 2. Use ENTER key to enable or disable.
- 2) If enabled, the System will follow the schedule for hauler pick-ups as designated in Auto Pick-Up Schedule.
- 3) If disabled, the System will not follow the pick-up schedule as designated.
- 4) Go to another line item, or press ESC key to leave MENU 2.

AUTO PICK-UP SCHEDULE

- 1) Select from EDIT COMPACTOR INFO MENU 2. Press ENTER.
- 2) A sub-screen showing the days of the week will appear. Select the day(s) on which you want a scheduled pick-up to be made and enable (ON) that day(s) by pressing ENTER. Days which are not scheduled should be disabled (OFF) by pressing ENTER key.
- 3) Each scheduled day will have a reset time associated with it. If a pick-up is made on the scheduled day before a FULL report was called in by the System, then the System will initiate an Auto Reset at the time designated. NOTE: If a pick-up is normally made at 9:00 AM, enter 11:00 as the reset time, to allow for any pick-up time delays.
- 4) If no time is designated, the System will default to 12:00 AM as the reset time.
- 5) Press ESC key to leave MENU 2.

IMPORTANT: NORMALLY, BEFORE A PICK-UP CAN BE RECORDED IN THE SYSTEM DATA BANK, THERE MUST BE A COMPLETED CYCLE OF A REPORTED "FULL" CONTAINER AND THEN AN "EMPTY". ON SCHEDULED PICK-UP DAYS, THE SYSTEM WILL ASSUME THAT A FULL, AND THEN AN EMPTY LEVEL HAVE BEEN REACHED. THIS ENSURES THAT A PICK-UP WILL BE RECORDED EVEN IF THE COMPACTOR WAS PICKED UP AT LESS THAN FULL LEVEL AND, THEREFORE, DID NOT REPORT IN AS FULL.

PROCEDURES

ACCOUNT TYPE

- 1) Select from EDIT COMPACTOR INFO MENU 2. Press ENTER.
- 2) A screen will appear requesting which account type you will select. THIS IS OPTIONAL INFORMATION ONLY AND DOES NOT AFFECT ANY REPORTS OR OPERATION OF SYSTEM.
- 3) Highlight how the pick-ups will be handled and press ENTER.
- 4) CUSTOMER REQUEST - The client will receive the FULL reports and will call hauler as needed.
- 5) TRASHMINDER CALL IN - The hauler will receive FULL reports and will handle pick-ups.

NO CONTACT LIST: There are two means of obtaining the No Contact List:

AUTOMATIC:

When an Auto Poll or 'All Sites' Poll is generated and the System cannot contact a unit/site, a No Contact List will automatically print out. This automatic List will show only those specific units/sites which could not be contacted during that Poll.

ON DEMAND:

- 1) Access this Report by selecting it from the Main Menu. This Report can be requested at any time.
- 2) Compactor unit/sites not reached by the System during any Auto Poll or as part of any 'All Sites' poll will appear on a No Contact List. The last contact date and time will be shown on the Report. This on-demand No Contact List will keep a 'running' record of all those units/sites with which there has been no communication to date. After a unit is contacted, it will be automatically taken off the List.

NOTE: IF ALL THE SITES WERE REACHED DURING THE POLLS, THERE WILL BE NO LIST PRINT-OUT.

IMPORTANT: IF A COMPACTOR UNIT AND/OR A SITE IS LISTED ON THE NO CONTACT LIST, A POLL MAY HAVE BEEN UNSUCCESSFUL BECAUSE:

1. A problem with phone lines. These should be checked to determine if they are operative.
2. The PC Configuration may be incorrect.
3. The site/unit configurations may be incorrect.

The situation should be resolved as quickly as possible to ensure that no data goes unrecorded.

PROCEDURES

EDIT COMPACTOR INFO MENU 3

- 1) Access from CONFIGURE COMPACTOR SITES on the MAIN MENU.
- 2) Select EDIT COMPACTOR INFORMATION MENU 3 from the bottom of the INFO 2 screen. Press ENTER.
- 3) INFO MENU 3 will appear on the screen. Select a line item. Press ENTER.
- 4) A query box will appear. (See FIGURE 45). Type in information and then press ENTER.
- 5) When queries have been answered, select "Configure Compactor Menu 4" and press ENTER to continue Configuration process.

IMPORTANT: THE INFORMATION REQUESTED BY THE QUERIES MUST BE FILLED IN.

EDIT INFO MENU 3 / QUERIES:

1. Each of these queries will appear separately on a screen as line items are selected.
2. Enter requested information and press ENTER.

NOTE: CHANGES CAN BE MADE AT ANY TIME BY FOLLOWING SAME PROCEDURES AS FOR ENTERING NEW DATA.

NOTE: SEE DETAILS ON COMPACTOR PRESSURE LINE ITEMS BELOW:

COMPACTOR PRESSURE QUERIES

Minimum Pressure - The low pressure level (PSI) at which the System will consider the compactor container to be EMPTY.

Auto FULL Call-In Pressure - The high pressure level (PSI) at which the System will consider the compactor container to be FULL. When this pressure is exceeded, the System will activate an Auto Call-In from the on-Site System to your computer and will generate a FULL Report. **NOTE: This pressure may not correspond with the pressure which the compactor might show if it was actually completely filled, but it is the optional pressure level at which the SYSTEM should consider the compactor ready for a pick-up.**

Max. Pressure - Mfgs. maximum pressure for compactor - or relief valve setting.

Three-Fourths Pressure - Three-fourths of the max. pressure level.

One-Half Pressure - One-half of the max. pressure level.

One-Fourth Pressure - One-fourth of the max. pressure level.

NOTE: THE 3/4, 1/2 AND 1/4 PRESSURES DO NOT HAVE TO BE MATHEMATICALLY CORRECT. THEY CAN BE APPROXIMATE. THE 1/4 PRESSURE MUST BE GREATER THAN THE MINIMUM PRESSURE TO ALLOW FOR ANY EMPTY READING.

PROCEDURES

CONFIGURE COMPACTOR INFO MENU 4

1. Access CONFIGURE COMPACTOR SITES from the MAIN MENU.
2. Select Info Menu 4 at the bottom of Info Menu 3 Screen.
3. To set up information for new compactor site or to edit existing information, select a line item and ENTER.
4. Query screens will appear for each line item that is selected. (See FIGURE 81).

NOTE: Queries will appear individually as each line item is selected. They have been combined into one “Screen” for ease in reviewing in this Manual.

INFO MENU 4 QUERIES

NOTE: All queries for Menu 4 must have a response typed in the query box.

1. Select a line item from the info Menu and press ENTER.
2. See details below on responses to queries.
3. Changes to existing info can be made at any time by following same procedures for entering new data.

COMMISSION COMPACTOR

When all appropriate Queries on Menus 1 through 4 have been completed, highlight the “Commission Compactor” line item and press ENTER. This will transfer the pertinent information to the on-site System Controller and will complete the Configuration process.

CONFIGURE COMPACTOR INFO MENU 4 QUERIES

ENTER FULL / EMPTY COMPACTIONS THRESHOLD - The use of multiple pressure level recordings helps to eliminate an incorrect FULL or EMPTY Report generated due to the settling or jamming of large items in the compactor container. The threshold functions allow the user to determine how many compactions at a particular pressure level should be recorded before the System can accept that level as being FULL or EMPTY. **WE RECOMMEND 3 COMPACTIONS FOR BOTH THE FULL AND EMPTY THRESHOLDS.** Fewer or more compactions may be needed, based upon experience.

ENTER INTERCOMPACTION TIME DELAY (IN SECS.) - The time span between threshold compactions. **WE RECOMMEND 60 SECONDS.**

ENTER PREAMBLE DIGIT - In situations where a “9” or other digit is needed to get an outside line before the on-site System can call out to the host computer, enter that digit. If none is needed, enter “0”.

ENTER DIALING PREAMBLE - If a preamble digit is to be used, enter ENABLED. If none is to be used, enter DISABLED.

ENTER PRIMARY NUMBER - Enter the phone number of the host computer phone modem. This will be the number called by the on-site modem to report a FULL compactor level or an EMPTY compactor level. NOTE: If the host computer phone modem is in a different area code from the on-site phone modem, then type in “1” and the area code for the computer modem. (i.e. 1-856-772-7099). If the phones are in the same area code, no area code should be entered.

ENTER SECONDARY NUMBER - If there is a second computer and modem using TrashMinder software and if that computer is to receive reports, enter that modem phone number. This would be applicable, for example, if both the client and hauler are to receive FULL reports. (See information above regarding area codes.) EMPTY reports are not received by the secondary phone number. NOTE: If using the FULL-FAX option, enter the phone number of the FAX machine as the secondary number.

ALLOW SECOND PHONE CALL. “Enable” or “Disable” the use of the “secondary number”. The secondary number can be activated or inactivated at any time at the discretion of the user of the primary host computer.

COMPACTOR PASSWORD - A ‘4’ character field (numeric only). An entry of this Password will prevent any unauthorized computer from accessing or changing the data on your TrashMinder on-site Monitor.

DISABLE REMOTE PASSWORD - Selection of this function will initiate a call to the on-site monitor and will Disable (inactivate) the compactor Password.

COMMISSION COMPACTOR - IMPORTANT - See information notes above.

PROCEDURES

CONFIGURATION CHANGES ON CONFIGURE COMPACTOR MENUS 1,2,3,4

1. Access CONFIGURE COMPACTOR SITES on the MAIN MENU.
2. Edit existing information by selecting a line item and pressing ENTER.
3. Query screen will appear. Type in new information, press ENTER. Newly entered information will replace the old.
4. When all changes are entered, select COMMISSION COMPACTOR on Menu 4 and press ENTER to send all changes to the on-site Control Unit.
5. When entries are completed, press ESC.

IMPORTANT: The only exception to above instructions relates to the TrashMinder phone number. This phone number connects on-site TrashMinder Monitor equipment to the host computer. Read the following before making such a change.

CHANGE SITE PHONE NUMBER

When a unit number is assigned to a specific compactor, events such as Full Reports, etc. are recorded as part of that unit number's Historical Information data bank.

If a compactor Monitor is given a new site phone number, the previous historical information associated with the unit number will still remain in its data record.

When you attempt to change a site phone number assigned to a unit number, a CAUTION screen will appear. (See FIG 72). Make your choice of the options offered on the screen, per the following:

1. If you choose (Y), you will delete all historical information associated with that unit number. A second prompt will appear asking to confirm the deletion. (See FIG 73).

If you type "Y", the new phone number will replace the old number and the unit number's previous historical information will be permanently deleted.

If you type "N", the new phone number will replace the old but the unit number's historical information will remain on record.

2. If you choose (N), the new phone number will replace the original but no previous history associated with that unit number will be deleted.

3. If you choose (C), the new phone number entry will be deleted and the phone change will be canceled.

PROCEDURES

COMPACTOR PRESSURE - MENU

1. Access by selecting COMPACTOR PRESSURES from the MAIN MENU. Press ENTER.
2. A query screen will be displayed. (See FIGURE 61).

NOTE: THIS REPORT CANNOT BE USED FOR ENTERING OR EDITING INFORMATION.

THE REPORT IS INTENDED TO BE USED FOR A QUICK OVER-VIEW OF THE PRESSURE SHOWN ON THE LAST ON-DEMAND OR AUTO POLL.

IT WILL ALSO SHOW THE ASSIGNED CONFIGURATION PRESSURES FOR A SPECIFIC COMPACTOR UNIT.

COMPACTOR NUMBER QUERY

1. Type in Compactor number which was assigned to the unit, per SITE CONFIGURATIONS. Press ENTER.
2. VIEW COMPACTOR PRESSURES screen will appear. (See FIGURE 62).

COMPACTOR PRESSURES

1. Access by selecting COMPACTOR PRESSURES on the MAIN MENU and typing in compactor number in query box.
2. This REPORT is for **screen viewing only** and will not print out.
3. The NUMBER OF COMPACTIONS and the LAST RECORDED PRESSURE line items show those values received by the System on the LAST ON DEMAND POLL or AUTO CALL-IN POLL Report.
4. All other values shown on REPORT are those entered in CONFIGURE COMPACTOR SITES.

TIP: You can obtain a print-out of this REPORT by pressing PRINT SCREEN key on your keyboard.

PROCEDURES

ON DEMAND POLL SITE STATUS REPORT

Poll Reports Menu can be accessed by selecting 'On Demand Poll Compactor(s)' from the MAIN MENU.

1. Use the Poll Sites Menu to select how the Poll will be made.
2. When ready to leave this Menu, select the last item, "Exit to Main Menu".

NOTE: FOR POLL REPORTS, THE TRASHMINDER SYSTEM ON THE HOST COMPUTER WILL CALL A SPECIFIED SITE (OR SITES). THE REPORT WILL PROVIDE THE MOST CURRENT, UP-TO-THE MINUTE INFORMATION AVAILABLE, CONCERNING PRESSURE LEVELS, NUMBER OF COMPACTIONS, LAST PICK-UP DATE AND TIME, ETC. FOR THE SELECTED COMPACTOR UNIT.

POLL SITES BY UNIT NUMBER

1. Select from POLL SITES MENU. Press ENTER.
2. Query will appear on screen asking for compactor unit number. (See FIGURE 19). Type in the unit number assigned to the compactor to be polled.(This is the number assigned in SITE CONFIGURATION INFO MENU 1). Press ENTER.
3. Messages will appear on the screen advising that a Poll for the selected unit is in progress and that the modem is hanging up. (See FIGURE 12).
4. An ON DEMAND POLL REPORT will print out. (See FIGURE 7).

PROCEDURES

POLL ALL SITES

This feature enables the user to poll all of the on-line sites, simply by selecting the POLL ALL SITES line item and then pressing ENTER. The System software will generate a poll for each compactor on each site with no additional effort on the user's part.

1. Select POLL ALL SITES. Press ENTER.
2. Messages will appear on screen. (See FIGURE 12).
3. When all polling is completed, an All Sites ON DEMAND POLL STATUS REPORT (See FIGURE 13) will print out, listing each of the compactors on each of the sites polled.

ON DEMAND POLL IN PROGRESS

Message will appear after POLL ALL SITES is selected from the POLL SITES MENU. It advised that an ON DEMAND POLL for a specific unit (or units) is now in progress.

HANGING UP MODEM

Message will appear shortly after the above message. It advises that the Poll of a unit is now complete.

NOTE: The above two messages will be repeated for each one of the on-line compactor unit Polls.

PROCEDURES

POLL SITES BY REGION

This feature enables the user to poll all compactor units on all sites within a specified region, just by highlighting the Poll Sites by Region line item.

1. Select Poll Sites by Region and press ENTER.
2. Query will appear asking for the region number. Type assigned number and press ENTER. (See FIGURE 92).
3. Messages will appear on screen. (See FIGURE 93) advising that Polling is in progress to each on-line compactor unit in the specified region.
4. When all polling is completed, an On-Demand Poll Site Status report will print out, listing all the polled units in the specified region.

ENTER REGION NUMBER

NOTE: For information on assigning Region Numbers, see Configure Compactor Info 1.

PROCEDURES

ON-DEMAND POLL SITES BY TELEPHONE PREFIX

1. Select from POLL SITES MENU. Press ENTER.
2. Query will appear on screen. (See FIGURE 15).
3. Messages will appear advising that an AUTO POLL for each unit in a specified phone prefix area is in progress, and then that the modem is hanging up.
4. Program will print an ON DEMAND POLL SITE STATUS REPORT listing each compactor unit within the specified telephone prefix area. (See FIG. 14-A below).
5. Will return to the MAIN MENU screen.

ENTER TELEPHONE PREFIX

1. Type in the 3 digit telephone prefix of the TRASHMINDER compactor site phone. Use the number assigned per EDIT COMPACTOR INFO MENU 1.
2. Press ENTER.

ON-DEMAND POLL SITES BY TELEPHONE PREFIX REPORT

To generate this Report, see information above.

PROCEDURES

ON-DEMAND POLL SITES BY NAME

1. Select from POLL SITES MENU. Press ENTER.
2. Query will appear on screen. (See FIGURE 19)
3. Messages will next appear on the screen advising that a Poll for each of the units on the selected site is in progress, and then that the modem is hanging up.
4. An ON DEMAND POLL REPORT will print out, listing all the compactor units on the named site (See FIGURE 18-A below).

ENTER COMPACTOR SITE LOCATION NAME

1. Type in the Site Name assigned to the compactor unit in the SITE CONFIGURATION INFO MENU 1.
2. Press ENTER.

ON-DEMAND POLL SITES BY SITE NAME REPORT

To generate this Report, see information above.

This report will give the most up-to-the minute fullness level information available from the compactor units on the selected site.

PROCEDURES

AUTO RESET SITE STATUS REPORT

This REPORT is automatically generated by the System in the event that a compactor container is picked up on a SCHEDULED pick-up day BEFORE it reaches and reports the Full pressure level. The report also “triggers” a reset of the number of compactions to “0” and recalculates the “average number of compactions”.

NOTE: If there is no FULL REPORT on a unit, there will be no EMPTY REPORT. An EMPTY REPORT is needed for the System to record the scheduled pick-up event in its memory bank and reflect that pick-up on the reports.

In lieu of a normal FULL and EMPTY cycle, the System will AUTO RESET itself to the EMPTY pressure level at the time and day selected on the AUTO PICK-UP Schedule. (See Page 16). An AUTO RESET SITE STATUS REPORT will be generated by the System, and printed. (See FIGURE 65).

NOTE: For information on a RESET on an unscheduled day, see RESET SITE BY UNIT NUMBER - PAGE 29 and AUTO PICK-UP SCHEDULE - PAGE 16.

AUTO POLL SITE STATUS REPORT

For detailed information concerning the generation of this automatic report, see “Auto Poll On/Off”, Page 16.

PROCEDURES

RESET SITE BY UNIT NUMBER

This feature enables the user to manually create an EMPTY report for a specific compactor unit. **This feature should be used only in the event that there is an unscheduled pick-up for which there was no preceding FULL Report.**

1. Select Reset Site by Unit Number and press ENTER.
2. Query will appear asking for the compactor unit number. Type assigned number and press ENTER.
3. Message will appear advising that On Demand Reset is in progress for the designated compactor unit.
4. When Reset is completed, an On-Demand Reset Status report will print out. The number of compactions will be "0" to reflect the manual reset to EMPTY. The average number of compactions will be recomputed. The System data bank will now record this reset as an "EMPTY".

IMPORTANT: This manual reset to "EMPTY" adjustment should be used only if there was no preceding "FULL" report for an unscheduled pick-up. If there was a "FULL" Report, then the reset to "EMPTY" will be done automatically by the System.

PROCEDURES

QUICK CHECK REPORT - MENU

1. Access REPORTS MENU by selecting REPORTS from the MAIN MENU.
2. Select QUICK CHECK REPORT from the REPORTS MENU. Press ENTER.
3. Query will appear on screen. (See FIGURE 47).

COMPACTOR NUMBER QUERY

1. Type in compactor number which was assigned to the unit, per SITE CONFIGURATIONS. Press ENTER.
2. QUICK CHECK REPORT will appear on screen. (See FIGURE 48).

QUICK CHECK REPORT

1. Access this REPORT by selecting it from the REPORTS MENU and typing unit number in query screen.
2. This REPORT is for **screen viewing only** and does not print out. It is not a Poll report and the compactor site will not be called. The report will provide information taken from the **last** ON DEMAND POLL or AUTO POLL Report.
3. Press any key to exit this REPORT.

TIP: You can obtain a print-out of this REPORT by pressing the PRINT SCREEN key on your keyboard.

PROCEDURES

MONTHLY COMPACTOR STATUS REPORT

1. Access this report by selecting MONTHLY STATUS REPORT from the REPORTS MENU and then typing in the appropriate compactor unit number in the query box.
2. After typing in the compactor number, a screen will appear prompting you for the beginning month and date - and ending month and date - for which you want the Report, within a 12-month range. Select the appropriate date and date range. Press ENTER.
3. A printed report will be generated. (See FIGURE 51).

COMPACTOR NUMBER

Use the number assigned in the CONFIGURE COMPACTOR MENU 1 (Pg. 14).

MONTHLY COMPACTOR STATUS REPORT

NOTE: Please see the following comments with reference to the “PRESSURE READING” information shown on the MONTHLY REPORT.

1. If there is a Pressure Reading figure shown in connection with a pick-up date, that number represents the PSI recorded for that date on a FULL Report generated by the System.
2. If there was a pick-up made but no FULL Report had been generated (because the Full level in the container had not been reached at the time of the pick-up) then the term “Auto Reset” will appear in lieu of a PSI number.

SYSTEM EVENTS REPORT

This Report is used for diagnostic purposes only and is not intended for general use.

PROCEDURES

COMPACTOR HISTORY SUMMARY REPORT - MENU

1. Access REPORTS MENU by selecting REPORTS from the MAIN MENU.
2. Select COMPACTOR HISTORY SUMMARY REPORT from the REPORTS MENU. Press ENTER.
3. Query will appear on screen asking for the compactor unit number.
4. Type in compactor number which was assigned to the unit, per SITE CONFIGURATIONS. Press ENTER.
5. Screen display will show FIGURE 54.

BEGINNING / ENDING MONTHS

1. A screen display will appear asking for the Beginning month of the time frame for which you want the REPORT. Select the desired month and press ENTER.
2. Repeat the above procedure for the Ending month.
3. A COMPACTOR HISTORY SUMMARY REPORT will print. (See FIGURE 55).

COMPACTOR HISTORY SUMMARY REPORT

1. Access this REPORT by selecting COMPACTOR HISTORY SUMMARY REPORT from the REPORTS MENU and then typing in the unit number in the query box.
2. The REPORT will print out for the beginning / ending months time frame which you designate.
3. This REPORT will list all pick-ups and will provide a total of all pick-up charges for the designated time frame.
4. The REPORTS MENU will remain on the screen while the REPORT is printing. Press ESC key to exit the MENU.

NOTE: THIS REPORT WILL COVER A MAXIMUM OF A 12-MONTH CYCLE.

PROCEDURES

REGIONAL ANALYSIS REPORT - MENU

1. Access REPORTS MENU by selecting REPORTS from the MAIN MENU.
2. Select REGIONAL ANALYSIS REPORT from the REPORTS MENU. Press ENTER.
3. Query will appear on screen. (See FIGURE 57).

REGION NUMBER QUERY

1. Type in Region number which was assigned to the unit, per SITE CONFIGURATIONS. Press ENTER.
2. Screen will show FIGURE 58.

BEGINNING / ENDING MONTHS

1. A screen display will appear asking for the BEGINNING month of the time period for which you want the REPORT. Select the desired month and press ENTER.
2. Repeat procedure for the ENDING month.
3. A COMPACTOR REGIONAL ANALYSIS REPORT will print. (See FIGURE 59).

COMPACTOR REGIONAL ANALYSIS REPORT

See instructions above on how to access and obtain Report.

NOTE: THIS REPORT WILL PROVIDE VALUABLE INFORMATION CONCERNING ALL THE COMPACTORS WITHIN A SPECIFIED REGION, WITHIN A SPECIFIED TIME FRAME, ON ONE PRINTOUT.

NOTE: THIS REPORT WILL COVER A MAXIMUM OF A 12-MONTH CYCLE.

PROCEDURES

SYSTEM COMPACTOR LIST

1. List can be accessed by selecting **SYSTEM COMPACTOR LIST** from the Reports Menu.
2. This report is a listing of all unit numbers which have been assigned to compactor containers. (See FIGURE 70).
3. The Status column on the List indicates whether a compactor unit is active or inactive.

ACTIVE:

The unit is designated as “CURRENTLY INSTALLED” on the CONFIGURE COMPACTOR INFO 2 Menu. (see Page 15).

INACTIVE:

The unit is designated as “NOT ON SYSTEM” on the CONFIGURE COMPACTOR INFO 2 MENU. (See Page 15).

4. The “Region” column lists the Region number you have assigned to a particular compactor unit. This number can be used to generate Reports for units by Region. (See Page 33).

If no Region number is chosen, this column will be empty.

NOTE: Once on the list, a compactor unit will remain there even if it is decommissioned by your selection of “NOT ON SYSTEM” in the configuration for that unit. This is done because there may be some historical information associated with that unit number and its TrashMinder site phone.

PROCEDURES

SITE STATUS OF ALL SITES

1. Access by selecting from the MAIN MENU. Press ENTER.
2. Select “All Sites” from the Site Status Menu. (FIGURE 21). Press ENTER.
3. A SITE STATUS REPORT will print out. (See FIGURE 22).

This feature enables the user to generate a SITE STATUS REPORT which lists all on-line compactor units, simply by selecting STATUS OF ALL SITES line item and pressing ENTER. No additional steps are required.

STATUS OF ALL SITES REPORT

NOTE: This is not a Poll Report. The compactor unit is not called for current information. All Site Status Reports show information taken from the last recorded On Demand Poll or Auto Poll.

PROCEDURES

SITE STATUS BY TELEPHONE PREFIX

1. Select from SITE STATUS MENU. Press ENTER. (See FIGURE 23).
2. Query will appear on screen. (See FIGURE 24).
3. The System will print out a SITE STATUS REPORT (FIGURE 23-A) listing each on-line compactor unit with that telephone prefix.
4. When printing is completed, the screen will return to the MAIN MENU.

ENTER TELEPHONE PREFIX

Type in the 3 digit TrashMinder telephone prefix number for a unit(s), as recorded in SITE CONFIGURATIONS, i.e., 708-402-3347 (Page 14).

NOTE: Do not use the AREA CODE.

SITE STATUS REPORT - BY TELEPHONE PREFIX

NOTE: This is not a Poll report. The compactor unit is not called for current information. This Site Status Report shows information taken from the last recorded On-Demand or Auto Poll.

PROCEDURES

SITE STATUS BY NAME

1. Select from the SITE STATUS MENU. (FIGURE 71). Press ENTER.
2. Query will appear on screen. (See FIGURE 72).
3. A SITE STATUS REPORT (See FIGURE 73) will print for that Site. All compactor units on that site will be listed on the Report.
4. Screen will return to the MAIN MENU.

ENTER SITE NAME

1. Type in site name exactly as it appears on the CONFIGURATION INFO MENU 1.
2. Press ENTER.

SITE STATUS REPORT - BY SITE NAME

NOTE: This is not a Poll report. The compactor unit is not called for current information. This Site Status Report shows information taken from the last recorded On-Demand or Auto-Poll.

PROCEDURES

SITE STATUS BY UNIT NUMBER

1. Select from the SITE STATUS MENU. Press ENTER. (See FIGURE 27).
2. Query will appear on screen. (See FIGURE 28).
3. System will print a SITE STATUS REPORT for the selected unit (See FIGURE 27-A).
4. Screen will return to the MAIN MENU.

COMPACTOR NUMBER ?

1. Type in the assigned compactor number. This is the number used in the SITE CONFIGURATION INFO MENU 1.
2. Press ENTER.

SITE STATUS REPORT - BY UNIT NUMBER

NOTE: This is not a Poll report. The compactor unit is not called for current information. All Site Status Reports show information taken from the last recorded On Demand or Auto Poll.

PROCEDURES

SITE STATUS BY REGION

1. Select from SITE STATUS MENU. Press ENTER. (See FIGURE 74).
2. Query will appear on screen. (See FIGURE 75).
3. The System will print out a SITE STATUS REPORT (See FIGURE 76) listing each on-line compactor unit in the designated Region.

ENTER REGION NUMBER

Type in the assigned number previously selected for a specific region.

NOTE: This is not a Poll Report. The compactor unit is not called for current information. All Site Status Reports show information taken from the last recorded On Demand Poll or Auto Poll.

PROCEDURES

FULL COMPACTOR LISTING

Select from MAIN MENU. Press ENTER (See FIGURE 29). See Report details below.

FULL COMPACTOR LISTING REPORT

1. This Report will print out a listing showing each compactor unit reported as FULL at the time the Report is generated. (See FIGURE 30).
2. If a compactor has already been emptied - or has not as yet reached and reported a FULL level, then the Report will not list that unit at the time of the FULL LISTING request.
3. If there are no reported FULL compactors, the screen will return to the MAIN MENU.

PROCEDURES

COMPACTOR FULL SITE STATUS REPORT

This REPORT is automatically System generated. It advises that a compactor container has reached the “FULL” level and is ready to be “picked up and emptied”.

The REPORT is generated by the System when a compactor pressure reaches the FULL PSI level designated in the COMPACTOR CONFIGURATIONS Menus. (See Pg. 22)

COMPACTOR FULL SITE STATUS REPORT WITH MESSAGES

1. The FULL REPORT can be adapted to have a ‘message’ of your choice shown on the bottom of Report. (See Pg. 15).
2. An automatic message - “Compactor Malfunction Possible Jam” - will appear if the current number of compactions does not meet the ‘Compaction Full Learn Count’ average.

PROCEDURES

COMPACTOR EMPTY SITE STATUS REPORT

THIS REPORT IS AUTOMATICALLY GENERATED BY THE SYSTEM.

1. It advises that the compactor container has been “picked-up” and emptied.
2. It “triggers” a reset of the number of compactions to “0” and recalculates the “average number of compactions”.
3. The REPORT is generated by the System when a compactor pressure reaches the EMPTY PSI level designated in the Compactor Configurations Menu 3 (See Pg. 18).

IMPORTANT: The System will not generate an EMPTY Report unless the System has previously generated a FULL Report to complete the cycle.

The System data bank must have a record of a completed FULL and EMPTY cycle so that the pick-up information will be available for various other reports.

NOTE: In the event that there has been no FULL Report, please see the following:

On Scheduled pick-up days, in the event that the compactor was emptied before it had reached the designated FULL level, an Auto Reset will automatically complete the cycle. (See Pg. 28).

On unscheduled pick-up days, in the event that the compactor container was emptied before a FULL Report was generated, a Reset by Unit Number (Manual Reset) must be made. (See Pg. 29).

PROCEDURES

3/4 FULL COMPACTOR LISTING

Access this 3/4 Full Report Menu from the MAIN MENU

1. Report can be accessed from a variety of choices on the Report Menu. Select your Report choice and press ENTER.
2. Query will appear on screen. (See FIGURE 71).
3. System will print a Report for the selection.
4. If ALL SITES is selected, every site on the System which has reached the 3/4 full level will appear as a line item on the All Sites Report. (See FIGURE 72).
5. If no compactors have reached the 3/4 full status, a message will appear stating "No Data To Report".
6. Screen will return to the MAIN MENU.

COMPACTOR NUMBER ?

1. Type in the assigned compactor number. This is the number used in the SITE CONFIGURATION INFO MENU 1. (See Pg. 14)
2. Press ENTER.
3. If the choice is Phone prefix, Name or Region, use the assigned information entered in INFO MENU. (See Pg. 14).

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BASIC DEFINITIONS - GLOSSARY

Access - Going to or reaching information on a screen.

Active - Denotes that the compactor unit is “on-line” and all reports, including automatic reports, can be generated. This status is accomplished by choosing “CURRENTLY INSTALLED” in the Site Configuration menu.

Auto Call - A call made by the TrashMinder System. The call is automatic and does not require any action on your part in order to generate it. The call will result in a printed Report.

Auto Full Call In Pressure - The FULL pressure as designated on the CONFIGURE COMPACTOR SITES Menu. When this pressure is reached or exceeded, an auto-call in report (FULL REPORT) will be automatically generated.

Auto Pick-Up - System pre-scheduled pick-ups and their accompanying reports.

Auto Poll - Automatic polling (canvassing/questioning) done by the System at a prescribed time, if desired. The user chooses the frequency. An Auto Poll Site Status Report will print out current compactor status information.

Auto Reset - An automatic reset to “0” of the number of compactions. This reset is done when a pick-up is made before the System can record a FULL compactor pressure level. In effect, it acts as an empty Report and, thereby, records the pick-up in the System’s data bank.

Average Number of Compactions - Typical number of compactions needed to reach the “full” PSI level. (It is recomputed after each EMPTY Report or RESET.) This computation appears on various Reports.

Booting - Activating your TrashMinder System Program on your P.C.

Commissioning - Setting up a new compactor unit by entering information in the Site configurations and assigning a Unit Number to identify that particular compactor.

Compaction - A complete cycle consisting of the action of the forward and return thrust of the ram in the compactor when compacting trash.

Compaction Discrepancy - The difference between the “current number of compactions” vs. the “average number of compactions” - as shown on Reports. This difference denotes the number of additional compactions usually needed for a compactor to reach the FULL level. If the difference is a “negative” one, then there have been more compactions than usual before the FULL level has been reached.

Compactor Status - This line item appears on the EDIT COMPACTOR INFO MENU 2. It offers two choices. If you choose “currently installed”, the compactor unit will be “on Line” and will provide reports, etc. If you choose “not on system”, the compactor unit will not be on-line and will **not** be “connected” to the System.

Continued

DEFINITIONS, Continued

Configuration - Setting up your TrashMinder System Program software to work for your special needs by providing it with specific information, as requested by queries on the EDIT COMPACTOR INFO MENUS. **THIS INFORMATION IS THE DATA BASE FOR REPORTS AND SERVICES PERFORMED BY THE TRASHMINDER SYSTEM.**

Current Full % - A computation which advises the "FULL" percentage of the compactor container, partially based upon the compactor's current PSI level and its relation to the "Max" value designated in the Site Configuration menu 3. A Report may show 25% full, 50% full, 75% full or 100% full in the "Current Max." %" column.

Currently Installed - A choice offered as part of the COMPACTOR STATUS line item on the EDIT COMPACTOR INFORMATION MENU 2. When selected, it will put a specific compactor unit "on line" and will "connect" it to the System. Reports, etc. will be generated for that unit.

Disable - A term used to denote that a function is chosen to be inactive.

Empty - The "empty" level of a compactor container, partially based upon the "minimum pressure" values entered in COMPACTOR CONFIGURATIONS MENU, and denoting that a pick-up of the container had been made.

Enable - A term used to denote that a function is chosen to be activated.

"ENTER" Key - A key on your keyboard which "accepts" any entries which you make and places them into "memory".

"ESCAPE" Key - A key on your keyboard (ESC) which is pressed in order to leave one screen and move to another - unless other directions are given to direct the moves.

EXIT - When EXIT is selected on the MAIN MENU and the "ENTER" key is pressed, you will leave the TrashMinder System Program. For re-entry to the Program, see BOOTING.

FULL - The level of trash in a compactor container, partially based upon the Full PSI level you enter in the COMPACTOR CONFIGURATION for a compactor unit. When the AUTO FULL CALL-IN pressure is reached or exceeded, the System will report that unit as being FULL and ready for pick-up.

FUNCTION - The results of a keyboard command executed by pressing specific keys. It can also refer to a command "built in" to the System.

Highlighting - Selecting an item from a menu screen by means of using the arrow keys on your keyboard to move the highlight line up or down on a menu.

Inactive - Denotes that the computer unit is NOT "on line" and no reports can be generated for that unit number. This status is accomplished by choosing NOT ON SYSTEM in the Site configuration menu.

Initialization - Preparation by the TrashMinder System software of the modem for its part in the communication network.

Continued

DEFINITIONS (Continued)

LED - Light emitting diode. Used as an electronic display on the circuit board, for diagnostic purposes.

Main Menu - The primary screen offering choices of reports and/or sub-menus.

Maximum Pressure - (See Auto FULL Call-In)

Minimum Pressure - The PSI entered in the COMPACTOR CONFIGURATION MENU to indicate to the System that the compactor is empty.

Modem - The device used for transmitting computer data over a telephone line connection between your PC and the compactor(s) on site(s).

Not on System - A choice offered as part of the Compactor Status line item on the EDIT COMPACTOR INFORMATION Menu 2. When selected for a compactor unit, that unit will **not** be on-line and no reports will be generated for that unit. It will, in effect, be disconnected from the System. (It can be “connected” at any time by selecting “Currently Installed”).

On Demand Poll - You can generate the On Demand Poll Report on an as-needed basis, to obtain immediate, current status of compactor(s).

On Line - Denoting that a compactor unit is “connected” to the System. The Compactor Status line item on INFO MENU 2 should show that the compactor is “CURRENTLY INSTALLED”, if you want that unit to generate reports, etc. If it is shown as “NOT ON SYSTEM” then no reports will be generated for that compactor, since it is not on line.

Password - a unique word or phrase which must be used in order to access the SYSTEM PARAMETERS Screen.

Pick-Up - (A “pull”) Pick-up of a compactor container (roll off box) by the hauler for a round trip to a land fill to be emptied and returned to the site.

Polling - A quick and easy canvassing (questioning) of the on-site System by your computer, in order to obtain information from the site(s) concerning the current status of the compactor container. It is accomplished by your computer telephoning via a modem to the System on an on line compactor site.

Prefix - The first three digits of a seven digit phone number. (It is not to be confused with the Area Code).

Continued

DEFINITIONS (Continued)

Pressure - Pressure created by the action of the hydraulic system moving the ram forward against trash in a container. Pressure is rated at “pounds per square inch” (PSI). Pressure readings can be used to aid in determining the FULL or EMPTY level of the compactor container.

Prompt - A request by the P.C. for certain information needed for further action.

PSI - See information provided in definition of word “PRESSURE”.

Query - A question asked by the Program and which requires a typed response in a grayed area provided on the screen.

Region - A defined geographical area. A region can be set up according to your particular needs, i.e., sections or areas of a town, city, state or country. You choose any numbers to identify a region, i.e., 7 or 99.

RESET - Adjustment of parameters of pressure and number of compactions for a specific compactor. Can be done by the System or manually by the user.

SAVE - Storing information on your computer disk.

Screen - Screens (windows) display information on your monitor. You view the screens and use them to enter and review information, and to direct the TrashMinder System to proceed with various tasks.

Select - To highlight something on a screen, the keyboard to move the cursor on the screen, enabling you to choose line items and, thereby, take further action.

Site - Location of compactor and the TrashMinder System Controls.

Site Phone Number - The phone number of the TrashMinder System on-site Controls to the host computer. After the phone company has provided a phone line, the phone number is assigned to a specific compactor unit by entering it in the Site Configuration Menu 1.

Status - A term used to denote the “standing” of a Unit with relation to (a) whether or not the Unit is “on-line” (b) the Full or Empty condition of the Unit.

Sub-Menu - A secondary screen from various MENUS, offering the user choices of reports, services, etc.

System Parameters - Guidelines which are set up for the operation of the TrashMinder System software program.

Threshold - The minimum number of events needed to activate a particular function or report. For example, you may decide that there should be at least 2 compactions with similar minimum pressure levels (as entered in the CONFIGURE SITE MENUS) reporting before the System can accept the reporting as denoting an EMPTY level in your compactor CONTAINER. This ensures more accurate reports.

Unit Number - A number the user assigns to an on-line compactor. That number is entered into the System, and it is then used to “connect” with that specific compactor for purposes of generating Reports, editing, etc.

SYSTEM PARAMETERS

ENTRY FORM

To establish the System Parameters for the TrashMinder System program, after the on-site installation, certain basic information must be entered in the parameter screen. The information needs to be entered only once, at the time the System is first set-up.

Password: Typing "MARATHON" will get you into the System Parameter Menu. You can then change the Password, if you wish. (Max. of 12 characters).

It may be helpful to fill in the needed information on this Entry Form and then use it as a guide for entering the information on the screen. If you need some additional guidance in providing the data requested, refer to your Manual. **NOTE: ALL THE INFORMATION SHOWN BELOW MUST BE ENTERED IN THE SYSTEM PARAMETERS SCREEN.**

Modem Port Base Address: (If needed, see Software Installation for Information.)

Modem IRQ Line: (If needed, see Software Installation for information.)_____

Number of message retries (We recommend 5)_____

Number of seconds on-line (We recommend 50)_____

Number of seconds for ack. (We recommend 4)_____

Galaxy time interval (in mins.) (We recommend 3)_____

Screen saver interval (in mins.) (We recommend 3)_____

View Compactor 1/10 Stream (Enter DISABLED (Used for diagnostic purposes only)_____

Password (Use to Change Password which accesses the parameter screen)._____

Poll Retries (We recommend 3-5)_____

Unit Accounts: Enter 'Disable' - Used with another TrashMinder Program._____

Modem Initialization Command: If the default command shown on screen is incorrect, insert correct command_____

Modem byte delay (in MS) (Depends upon speed of computer. Generally, use 1)_____

Poll Printing: (Enabled or Disabled)_____

Auto No-Contact Printing (Enabled or Disabled)_____

Compactions full 'learn count (As a starting number, we recommend 10)_____

Percentage of true average_(As a starting number, we recommend 75)_____

Please NOTE: The following line items are used as diagnostic tools and are not to be considered when preparing this form:

Terminal Mode

Delete Events

Modem Interrupt Count

Re-initialize Modem - IMPORTANT: Select this line by highlighting it. This action will send the parameter information to the on-site TrashMinder System and will set-up the modem for communication between the site and the host PC.

To continue, please see the Entry Forms for the four (4) Configure Compactor Sites Menus. These will assist in entering information for specific compactor units and putting them "on line".

**CONFIGURE COMPACTOR SITES
INFO MENU 1
ENTRY FORM - UNIT NO. _____**

To set-up (commission) a specific compactor site - for the first time only, certain information must be entered. It may be helpful to fill in the needed information on this form and use it as a guide for entering the information on the screen. **IMPORTANT:** Before filling in any information, please see Manual for details about how to access Configure Compactor Sites screen and for a detailed guide concerning each line item on this menu. (You may want to make additional copies of this blank form for future use.)

NOTE: ITEMS WITH AN ASTERISK (*) MUST HAVE INFORMATION ENTERED. ALL OTHERS ARE OPTIONAL.

	MAX. NO. OF CHARACTERS IN FIELD
* Compactor / Unit Number	3
* Site Location Number	3
* Site Location Name	14
Site Address	16
Town	14
State	2
Zip Code	5
Compactor Make	9
Compactor Model Number	9
Compactor Size	9
Compactor Type	10
Date Waste Edge Install	8
Customer Account Number	9
* Waste Edge Site Phone Number	20
Region Number	2

SEE ENTRY SHEET FOR CONFIGURE COMPACTOR INFORMATION MENU 2

**CONFIGURE COMPACTOR SITES
INFO MENU 2
ENTRY FORM - UNIT NO. _____**

To set-up (commission) a specific compactor site, for the first time only, certain information must be entered. It may be helpful to fill in the needed information on this form and use it as a guide for entering the information on the screen. If you need assistance in entering the appropriate information, please refer to your Manual. **(You may want to make additional copies of this blank form for future use.) NOTE: ITEMS WITH AN ASTERISK (*) MUST HAVE INFORMATION ENTERED. ALL OTHERS ARE OPTIONAL.**

*Account Type _____

*Auto-Poll frequency (in days) _____

*Site Supervisor _____

*Supervisor Phone Number _____

*Service company _____

*Hauler Company _____

*Hauler Phone Number _____

*Hauler Rate _____

*Compactor Status _____

*Auto Poll on/off _____

*Auto Pick-Up on/off (Enter Pick-Up charge or, if desired, just enter 00) _____

*Compactor Full Report Note Enter a note/message which you want to appear on the bottom of a FULL Report. (Use up to 25 Fields) _____

*Auto Pick-Up Schedule: This option is to be used only if arrangements have been made with a hauler for scheduled pick-ups.

When this is selected, a sub-screen will appear to allow entering information about the specific day(s) of the week which are designated as scheduled pick-up days. Estimated pick-up time must be entered for each designated pick-up day.

PICK-UP DAY	ESTIMATED TIME
Monday	_____
Tuesday	_____
Wednesday	_____
Thursday	_____
Friday	_____
Saturday	_____
Sunday	_____

SEE ENTRY SHEET FOR EDIT COMPACTOR INFORMATION MENU 3.

**CONFIGURE COMPACTOR SITES
INFO MENU 3
ENTRY FORM - UNIT NO. _____**

To set up (commission) a specific compactor site and obtain reports concerning the full and/or empty status of a compactor, certain information must be entered. It may be helpful to fill in the needed information on this Form and use it as a guide for entering information on the screen.

NOTE: ALL LINE ITEMS BELOW MUST HAVE INFORMATION FILLED IN

Minimum Pressure (EMPTY) _____

Auto Full Call-In Pressure (Enter the pressure level at which the Monitor will notify you that the container is ready for pick-up) _____

Max. Pressure (Enter either the manufacturer's maximum pressure for your compactor, or the current relief valve setting.) _____

Three-Fourths Pressure (Approx.) _____

One-Half Pressure (Approx.) _____

One-Fourth Pressure (Approx.) _____

IMPORTANT: This 1/4 pressure must be higher than the Minimum (Empty) Pressure.

PLEASE NOTE THAT THE 3/4, 1/2 AND 1/4 PRESSURES DO NOT HAVE TO BE MATHEMATICALLY CORRECT. THEY ARE INTENDED TO BE USED ONLY AS GENERAL GUIDELINE VALUES.

SEE ENTRY FORM TO CONFIGURE COMPACTOR INFORMATION MENU 4

CONFIGURE COMPACTOR SITES
INFO MENU 4
ENTRY FORM - UNIT NO. _____

NOTE: ALL LINE ITEMS BELOW MUST HAVE INFORMATION FILLED IN.

See the Manual for detailed guide concerning line items below.

FULL Compactions threshold (We recommend 3 - 4) _____

EMPTY Compactions Threshold (We recommend 3 - 4) _____

Intercompaction Time Delay (We recommend 60) _____

Preamble Digit _____
(Number needed for on-site TrashMinder Monitor to get an "outside line", i.e. "9")

Enable Dialing Preamble: _____
(If no "outside line" number is needed, enter "Disabled")

Primary Number _____
(The phone number of the modem at the host PC)

Secondary Number - OPTIONAL _____
(The phone number of the modem at any other PC which has the TRASHMINDER Software and which will also receive reports. If you are using the FULL-FAX Option, enter the phone number of the FAX machine which is to receive the 'Full' Reports.)

Allow Second Phone Call: _____

IMPORTANT: Please Note: If the On Site System modem phone number is in the same area code as either the primary or the secondary phone number shown above, then do not enter the area code for the above phone number(s).

Compactor Password - (Use any four (4) digit combination) _____

Disable Password (When a Password is to be inactivated, select 'Disable Password') _____

NOTE: Changes to any information entered into any of the Menus can be made by following the same instructions as for the original entries.

Commission Compactor - Select (Highlight) the above line item after you have completed entering all necessary information in the System Parameters and the four (4) Configure Compactor Sites screens. This action will place all the information into the on-site System and into the Program software memory. The System is now ready to use.