System 30

Drive-Thru Timer System

Operating Instructions

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</tbody>
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I. GENERAL

This manual is for firmware version 1.01

The System 30 is used to measure timing events or service goals at various locations (detection points) in the drive-thru lane. It can monitor timing events at up to six detection points in either one, two or six-lane operations.

The optional remote display units show timing events at selected detection points. The unit can be connected to an external audio alert or strobe light which can be set to sound alert tones or flash when drive-thru customers arrive, and/or when certain service times have been reached. The system can be set up to print various timing event reports automatically or on demand, or to transfer timing data to a PC.

In the event of an electrical power outage — such as from a lightning storm or power generator failure, if you experience problems with your HME equipment after the electricity comes on again, unplug the AC power adapters from their electrical outlets, then plug them back in.
A. Definitions of Terms

Time measurement terms:

**Timing Event:** Any drive-thru event or series of events for which time is measured is a timing event. Possible System 30 timing events are described below.

**Lane:** The drive-thru lane.

**Queue Time:** The time from a vehicle's departure from the first active detection point until its arrival at the last active detection point.

**Total Time:** The time from a vehicle's arrival at the first active detection point until its departure from the last active detection point.

**Event Time:** The time from a vehicle's arrival at a specific detection point until its departure from that point.

**Greet Time:** The time from a vehicle's arrival at the greet detection point until the audio greeting begins.

Other terms:

**Dayparts:** Up to 12 time periods (numbered 1-12) can be entered into the system to break the day into segments. Each daypart automatically ends at the beginning of the following daypart. Some periods usually represented as dayparts are: breakfast, mid-morning, lunch, mid-afternoon, dinner, evening and late-night hours.

**Service Goals:** Service goals are associated with dayparts and can be set for any event in the system. These can then be tracked by entering master and individual event daypart goals.

**Position:** A location at which a measurement of time is taken. Detection positions typically used with the System 30 are alert, menu board, cashier window, service window and optional waiting area.

**Detection Point:** The electrical connection for a vehicle detector. Each detection point may provide the signal to one or more detection positions.

**Repeat:** The time (in seconds) between repeating alert tones that can be set for any daypart goals.

**Cars in Lane:** The number of cars that have arrived at the first active detection point but not yet left the last active detection point.
B. Drive-Thru Store Types

To understand the timing events measured by the System 30 at your location, find which of the following illustrations (Figure 1 or 2) most closely matches the store requirements. The diagrams account for several options for single or multiple lane installations.

The names (Booth, Arrival, Menu, etc.) Listed on the diagrams indicate which pre-programmed system names can be assigned to each of the detection points. See pages 76-83 for more information about detection point names.

NOTE: In a one-lane location, you can select up to 6 of the 7 detection options shown.
The Timer can measure individual events (time from arrival at a specific detection point until departure from that point) and transaction events such as lane time (time from leaving the first detection point until arrival at the last detection point) and Total time (time from arrival at first detection point until departure from last detection point).

The system also tracks the number of cars in the lane, which is defined as the number of cars that have left the first detection point that is ON but have not left the last detection point that is ON.

Figure 2. Two-lane drive-thru layout

Figure 3. Six-lane drive-thru layout
II. EQUIPMENT IDENTIFICATION AND FEATURES

A. Control Unit

The control unit is the electronic heart and brain of the System 30 timer system. You will need to become familiar with it in order to get the most value from using the system. The main features of the control unit are shown in Figures 4 and 5.

1. Main Features

![Diagram of System 30 control unit with labels for control display, keypad, printer, reset switch, and paper feed button.]

- The **control display** shows the menus and keypad entries when the system is being set up and in daily operation.
- The **keypad** is used to enter setup information into the system and to request printed reports. It has 16 number and symbol keys, and provides one-touch access to many system functions and reports.
- The **printer** is used to print reports of timing event measurements. Inside the printer cover are instructions for loading or reordering printer paper.
- The **reset switch** is used to reset the system. It is mounted on the main circuit board, and can be reached by opening the printer cover.
- The **paper feed button** is used to load paper. The printer will advance ten lines every time the paper feed button is pressed.
2. Keypad

![Figure 5. System 30 control unit keypad]

- The **0-9** keys are used to set up the system and input numbers.

- The **EVERY CAR, HOUR, DAYPART, SHIFT, DAY, WEEK, MONTH** and **YEAR-TO-DATE** report keys are used to print these reports on demand.

- The **»»** key is used to move back one field in an entry display.

- The **ºº** key is used to move forward one field in an entry display.

- The **ENTER** key is used to accept an entry in a display field and move to the next field.

- The **EXIT** key is used to accept the entries you have input, and to exit the current display. It is also used to stop the printer.

- The **,,** key is used to move back in a list of selections, or sometimes to move to a previous display.

- The **[[** key is used to move ahead in a list of selections, or sometimes to advance to the next display.
B. R30 Remote Display Unit

The R30 has a 1 inch (25.4 mm) LED which operates with a System 30 timer to display any one of eight timing events.

Up to four R30 Remote Display Units can be connected to the System 30.

Figure 6. R30 Remote Display Unit
III. NORMAL OPERATION AND USE

If the control unit is plugged into an electrical outlet, the system will always be in operation. There is no ON/OFF switch on the control unit.

A. Typical Operation

Typical operation of the System 30 will include the following activities. More detailed explanations and instructions are given later in this manual. Refer to the Table of Contents for page references.

<table>
<thead>
<tr>
<th>Typical Operation Activity</th>
<th>What it Does</th>
</tr>
</thead>
<tbody>
<tr>
<td>Printing the following types of On-Demand Reports</td>
<td>You can print any one of 8 reports with one touch of the keypad.</td>
</tr>
<tr>
<td>1 – Mini Reports</td>
<td>Mini Reports give you one-touch information about system and staff activity.</td>
</tr>
<tr>
<td>2 – Status Reports</td>
<td>Status Reports give you one-touch information about system status.</td>
</tr>
<tr>
<td>Resetting vehicle detector or Deleting cars from</td>
<td>Under certain traffic conditions, you will want to reset a vehicle detector or delete a car from the system records.</td>
</tr>
<tr>
<td>records</td>
<td></td>
</tr>
<tr>
<td>Modifying the System Settings</td>
<td>As conditions and seasons change, you may want to modify the settings that were input at the time of installation.</td>
</tr>
<tr>
<td>Setting Dayparts</td>
<td>Set the number of Dayparts and when they begin.</td>
</tr>
<tr>
<td>Setting Date and Time</td>
<td>Set the current date and time for the system.</td>
</tr>
<tr>
<td>Resetting the Defaults</td>
<td>Reset all system entries to the factory settings.</td>
</tr>
</tbody>
</table>
The following are typical display characteristics you will experience during routine operation of the System 30.

<table>
<thead>
<tr>
<th>Display Characteristic</th>
<th>What it Means</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blinking Field</td>
<td>On all displays, the current field that you can input data to will blink. The number of underline spaces indicates how many characters you can input to that field.</td>
</tr>
<tr>
<td>Minutes</td>
<td>All schedule minutes are 00 through 59.</td>
</tr>
<tr>
<td>Seconds</td>
<td>All programming seconds are 00 through 59.</td>
</tr>
<tr>
<td>Timeout</td>
<td>All displays will return to the Standby display after 5 minutes with no activity.</td>
</tr>
<tr>
<td>Action Hints</td>
<td>The bottom line of each display provides keying prompts. “Press + or - &amp; Enter” will appear for all name entries. “Press # keys &amp; Enter” will appear for all numeric fields.</td>
</tr>
<tr>
<td>System Defaults</td>
<td>All displays are set to factory default settings when the system is shipped. The system can be reset to the system defaults at any time (see page 85).</td>
</tr>
</tbody>
</table>
B. **Standby Display**

The Standby display is the normal operating display. The display is different for one, two or six-lane locations.

The following symbols will appear on the display during routine operation of the System 30.

<table>
<thead>
<tr>
<th>Symbol</th>
<th>What it Means</th>
</tr>
</thead>
<tbody>
<tr>
<td>♂</td>
<td>The detection point is active</td>
</tr>
<tr>
<td>♂</td>
<td>The detection point is inactive</td>
</tr>
<tr>
<td>N</td>
<td>The detection point is OFF (not available)</td>
</tr>
<tr>
<td>G</td>
<td>The detection point is GREET INPUT</td>
</tr>
</tbody>
</table>

The one-lane Standby display is shown below:

```
12:34:12P ♂ ♂ N N N N
Service Time = 01:32
Cars in Lane = 6
Total Time = 2.32
```

Service Time = Service time for the last car through
Cars in Lane = The number of cars currently in the lane
Total Time = Total time for the last car through

The two-lane Standby display is shown below:

```
12:34:12P ♂ ♂ ♂ ♂ N N
Serv.   1:32 1.22
Lane    3     4
Total   2.32 2.59
```

The six-lane Standby display is shown below:

```
12:34:12P ♂ ♂ ♂ ♂ ♂ N
Lane Serv.  1=2:22 2=1:22 3=4:02
       4=0:00 5=0:00 6=0:00
```

**NOTE:** The 6-lane display shows only the total Service Time for each lane. It does not show the number of cars in the queue.
C. **Viewing Mini Reports**

Mini Reports give you a quick view of system activity.

From the Standby display, press the +/- keys until the desired Mini Report is displayed. If you continue to press the +/- keys, you will also see the system Status reports, which are described in the next section of this manual.

C. Viewing Mini Reports

Mini Reports give you a quick view of system activity.

From the Standby display, press the +/- keys until the desired Mini Report is displayed. If you continue to press the +/- keys, you will also see the system Status reports, which are described in the next section of this manual.

12:34:12P 11 11 N N N
Service Time = 01:32
Cars in Lane = 6
Total Time= 2.32

*You don’t need to enter a Report Access Code or a Manager’s Code to view a Mini Report.*

**1. Current Hour Mini Report:** (for one-lane operation only)

This report shows the average service time, average number of cars in the lane, and the total number of customers served for the current hour.

**Current Hour:**
Avg. Service = 01:32
Avg. Cars in Lane= 6
# Customers= 145

**2. Current Daypart Mini Report:** (for one-lane operation only)

This report shows the average service time, average number of cars in the lane, and the total number of customers served for the current daypart.

**Current Daypart:**
Avg. Service = 01:32
Avg. Cars in Lane= 6
# Customers= 145
3. **Current Shift Mini Report:** (for one-lane operation only)

This report shows the average service time, average number of cars in the lane, and the total number of customers served for the current shift.

<table>
<thead>
<tr>
<th>Current Shift:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Avg. Service = 01:32</td>
</tr>
<tr>
<td>Avg. Cars in Lane = 6</td>
</tr>
<tr>
<td># Customers = 145</td>
</tr>
</tbody>
</table>

4. **Current Day Mini Report:** (for one-lane operation only)

This report shows the average service time, average number of cars in the lane, and the total number of customers served for the current day.

<table>
<thead>
<tr>
<th>Current Day:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Avg. Service = 01:32</td>
</tr>
<tr>
<td>Avg. Cars in Lane = 6</td>
</tr>
<tr>
<td># Customers = 145</td>
</tr>
</tbody>
</table>

5. **Six Lane Mini Report:** (for six-lane operation only)

This report shows the current average time for each lane in a six-lane location for the current day.

<table>
<thead>
<tr>
<th>Lane Activity:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 = 0:12</td>
</tr>
<tr>
<td>2 = OFF</td>
</tr>
<tr>
<td>3 = 0:33</td>
</tr>
<tr>
<td>4 = OFF</td>
</tr>
<tr>
<td>5 = 1:22</td>
</tr>
<tr>
<td>6 = OFF</td>
</tr>
</tbody>
</table>

6. **Two Lane Mini Report:** (for two-lane operation only)

This report shows the average time for three detection points in each of the lanes of a two-lane location for the current day.

<table>
<thead>
<tr>
<th>Lane ONE:</th>
<th>Lane TWO:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 = 0:12</td>
<td>2 = 0:14</td>
</tr>
<tr>
<td>3 = 0:33</td>
<td>4 = 0:21</td>
</tr>
<tr>
<td>5 = 0:00</td>
<td>6 = 0:00</td>
</tr>
</tbody>
</table>
D. Viewing Status Reports

Status reports let you check the system's performance.

From the Standby display, press the +/- keys until the desired Status report is displayed.

<table>
<thead>
<tr>
<th>12:34:12P</th>
<th>N N N N</th>
<th>Service = 01:32</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>Cars in Lane = 6</td>
<td></td>
</tr>
<tr>
<td>2.32</td>
<td>Total Time = 2.32</td>
<td></td>
</tr>
</tbody>
</table>

You don’t need to enter a Report Access Code or a Manager’s Code to view a Status Report.

### Hint!

1. **System Status Report** indicates the copyright date for the system, and may flash a LOW BATTERY or REMOTE CONNECTING notice.

| Copyright © 1997 |
| HM Electronics Inc. |
| CURRENT DATE/TIME: MAR 10, 97 07:51:45A |

| Copyright © 1997 |
| HM Electronics Inc. |
| CURRENT DATE/TIME: LOW BATTERY |

2. **System Resets Report** shows how many times the system and its detectors have been reset from the time the system was setup. It also shows the number of cars deleted. Resetting the detectors and deleting the first car in the lane are done through the Drive-Thru Manager display. See page 33.

| Manual Counts: |
| System Resets = 5 |
| VDB Reset = 10 |
| Cars Deleted = 15 |
3. **Cars Deleted Report**  shows the count of cars automatically deleted, if they were drive throughs or if the maximum number of cars in the lane was exceeded.

A drive through occurs when a customer comes to the Menu or Alert detector, and leaves without ordering. The system can be set up to discard drive throughs in the Discard < 4 Sec Vehicles display (see page 70).

When your system was set up, the installer entered a “maximum number of cars in the lane” based on the length of the drive-thru lane and the size of the average car. You can modify this setting through the Set Up Lane display (see page 72).

```
<table>
<thead>
<tr>
<th>Total Auto Deleted:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pul louts</td>
</tr>
<tr>
<td>Maximum Cars in Lane</td>
</tr>
<tr>
<td>20</td>
</tr>
<tr>
<td>18</td>
</tr>
</tbody>
</table>
```

4. **Power-up Date and Software Version Report**  shows the current date, the date the system was powered up, and the software version currently running.

```
<table>
<thead>
<tr>
<th>Config:</th>
<th>MAR 06, 97</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pwr Up:</td>
<td>MAR 10, 97</td>
</tr>
<tr>
<td>F/W Date:</td>
<td>MAR 06, 97</td>
</tr>
<tr>
<td>F/W Ver:</td>
<td>1.00</td>
</tr>
</tbody>
</table>
```
E. Printing On-Demand Reports

If you want to print any of the system reports, on demand, follow the instructions in this section. If you want to print the program entries you have made for the system, follow the instructions on page 61.

Entering Your Access Codes

Access to the System 30 for making system setup changes and printing reports is controlled by Access Codes.

! A Report Code is needed for printing reports.

! A Manager’s Code can be used to change the system setup or print reports.

! If a report has been printed in the past 5 minutes, you will not need to enter the Report Code again in order to print another report.

! If a report has been printed or system changes made with the Manager’s Code in the past 5 minutes, you will not need to enter a code again in order to print a report.

Press the key for the report that you want to print. If a report has not been printed in the last five minutes, use the number keys to enter a Manager’s or Report Access Code.

You will have three chances to enter the correct code. After the third failed attempt, the system will display the following message and lock the keypad for 5 minutes:
NOTES:

! You can override the Access Code Error by pressing the « and º keys at the same time.

! All On-Demand reports will initially display the current period.

! If the display allows printing of multiple dates or periods, the system will print individual reports for each period of each date. The data will not be combined into one report.

! All dates must be between the power-up date and the current date.

Instructions for printing the reports can be found on the following pages:

**Report**

Every-Car report ...................... go to page 17
Hour report .......................... go to page 19
Daypart report ....................... go to page 21
Shift report .......................... go to page 23
Day report ............................ go to page 25
Week report .......................... go to page 27
Month report ........................ go to page 29
Year-to-Date report ................... go to page 31

Some reports require beginning and ending dates and times, and therefore are not available until the ending date or time is past.

To stop a report from printing, press the key for that report again. When you see the display for that report, STOP will be flashing. Press ENTER while STOP is flashing. The report will stop printing.

**System 30 maximum vehicle data storage capability**

<table>
<thead>
<tr>
<th>Detection points (except Alert) used for each lane</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>One Lane</td>
<td>14,000</td>
<td>9,800</td>
<td>7,500</td>
<td>6,000</td>
<td>5,100</td>
<td>4,400</td>
</tr>
<tr>
<td>Two Lane</td>
<td>14,000</td>
<td>9,800</td>
<td>7,500</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Six Lane</td>
<td>14,000</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
</tbody>
</table>

Maximum cars can be retrieved by the Every-Car, Hour, and Daypart & Shift Report.

Every Car, Hour, and Daypart & Shift Reports can be retrieved from cars stored in the memory. If the System 30 XM30 Memory Expansion Kit has been installed you can store up to four times as many cars.

Day, Week, Month and Year-to-Date Reports can be retrieved up to one year (365 days).
1. Every-Car Report

This report will show the date and time of the report, along with the range of dates that you select. It will show the last two detection points “ON,” and the Total Time for each car.

Step 1  Press the EVERY CAR REPORT key to set up the report.

Every Car Report:
Fm JAN 01, 12:00A
To: JAN 01, 12:00A
Print Report: START

Step 2  Use the number keys to enter the dates and times, Fm (From) when To when, for the Every Car Report. **Use the +/- keys to set each time for AM or PM.** The default is the current time.

Step 3  Press ENTER after entering both date and time values. START will flash.

Step 4  When START is flashing, press ENTER to print the report.

*The Standby display will appear while the report is printing.*

12:34:12P •••–––
Service Time = 01:32
Cars in Lane = 6
Total Time = 2.32

If you want to stop the report, press the report key again. STOP will be flashing. Press ENTER to stop printing.

If you want to print another report, press the key for the new report.

*Remember! You can stop printing any report by pressing the key for the report. The report screen will appear, and STOP will be flashing. Just press ENTER when STOP is flashing and the report will stop printing!*  

**Hint!**

**NOTE:** This report is usually used for trouble shooting problems.
Example:

Every Car Report

MON 04/28/97 10:39:45A
Store ID: 0
From: MON 04/28/97 09:00A
To: MON 04/28/97 10:39A

Depart Lane SERV /TOTAL
09:22A 1 0:09/ 0:21
09:24A 1 1:37/ 2:32
11:10A System reset
11:18A 2 Delete car
11:18A 1 > Lane max
11:18A 1 > Lane max
11:18A 2 > Lane max
11:18A 1 Delete car
11:18A 2 Delete car
11:20A 1 Pullout Car
11:20A 2 Pullout Car

-----End of Report-----

report title
current date and time
store identification number
report beginning time
report ending time
departure time, lane number, service time & total time
individual car data
system reset
cars deleted manually
cars deleted over maximum number of cars in lane
cars deleted manually
cars that pulled out of lane
2. Hour Report

This report will show the date and time of the report, the Store ID, along with counts for Total Cars, Total Hours & Minutes, Average Time, Cars serviced within each goal, and Longest times for Menu, Service and Total times. This report also shows Total Pullouts, Average queue Time, Average Cars in the Lane, and system information (Power Fails, System Resets and VDB Resets).

**Step 1** Press the HOUR REPORT key to set up the report.

```
Hour Report: 10A
From: MAR, 08
To: MAR, 08
Print Report: START
```

**Step 2** Use the number and +/- keys to enter the start of the Hour to print and the date range. **Use the +/- keys to set each time for AM or PM.**

**Step 3** When START is flashing, press ENTER to print the report.

*The Standby display will appear while the report is printing.*

```
12:34:12P   01:32
Service Time = 01:32
Cars in Lane = 6
Total Time = 2.32
```

* If you want to stop the report, press the report key again. STOP will be flashing. Press ENTER to stop printing.

* If you want to print another report, press the key for the new report.
Example:

Hour Report
-----------------
MON 04/28/97 10:48:59A
Store ID : 0
From:MON 04/28/97 09:00A
To :MON 04/28/97 09:59A

MENU 1
-------
Total Cars = 2
Total (hh:mm) = 0:01
Average Time = 0:21
Cars < 0:30 = 50% 1
Cars < 1:00 = 50% 1
Longest time:
04/28/97 09:24:52A 0:35
04/28/97 09:22:27A 0:07

SFNV 1
-------
Total Cars = 2
Total (hh:mm) = 0:02
Average Time = 0:53
Cars < 0:30 = 50% 1
Cars < 2:00 = 50% 1
Longest time:
04/28/97 09:24:52A 1:37
04/28/97 09:22:27A 0:09

Total Lane 1
------------
Total Cars = 2
Average Time = 0:21
Cars < 0:30 = 50% 1
Cars < 3:30 = 50% 1
Longest time:
04/28/97 09:24:52A 2:32
04/28/97 09:22:27A 0:21

Ave Queue Time = 0:12
Ave Cars in Lane = 3
Total Pullouts = 4

Power Fails = 0
System Resets = 0
VDB Resets = 0

-----End of Report-----

report title
current date and time
store identification number
report beginning time
report ending time
first detection point in lane 1
first detection point summary
second detection point in lane 1
second detection point summary
total lane 1 summary
system summary
3. Daypart Report

This report will show the date and time of the report, the Store ID, along with counts for Total Cars, Total Hours & Minutes, Average Time, Cars serviced within each goal, and Longest times for Menu, Service and Total times. This report also shows Total Pullouts, Average Lane Time, average Cars in the Lane, and system information (Power Fails, System resets and VDB Resets).

**Step 1** Press the DAYPART REPORT key to set up the report.

**Step 2** Use the number and +/- keys to enter the Daypart number to be printed and the date range. The system will automatically display the start time of the selected Daypart.

**Step 3** When START is flashing, press ENTER to print the report.

*The Standby display will appear while the report is printing.*

12:34:12P і і і ņ ņ ņ ņ
Service Time = 01:32
Cars in Lane = 6
Total Time = 2.32

If you want to stop the report, press the report key again. STOP will be flashing. Press ENTER to stop printing.

If you want to print another report, press the key for the new report.
Example:

Daypart Report #1
MUN 04/28/97 11:04:12A
Store ID: 0
From: MUN 04/28/97 06:00A
To: MUN 04/28/97 11:04A

MENU 1

Total Cars = 2
Total (hh:mm) = 0:01
Average Time = 0:21
Cars < 0:30 = 50% 1
Cars < 1:00 = 50% 1
Longest time:
04/28/97 09:24:52A 0:35
04/28/97 09:22:27A 0:07

SERV 1

Total Cars = 2
Total (hh:mm) = 0:02
Average Time = 0:53
Cars < 0:30 = 50% 1
Cars < 2:00 = 50% 1
Longest time:
04/28/97 09:24:52A 1:37
04/28/97 09:22:27A 0:09

Total Lane 1

Total Cars = 2
Average Time = 1:26
Cars < 0:30 = 50% 1
Cars < 3:30 = 50% 1
Longest time:
04/28/97 09:24:52A 2:32
04/28/97 09:22:27A 0:21

Ave Queue Time = 0:12
Ave Cars in Lane = 3
Total Pullouts = 4

Power Fails = 0
System Resets = 0
VDB Resets = 0

-----End of Report-----
4. Shift Report

This report will show the date and time of the report, the Store ID, along with counts for Total Cars, Total Hours & Minutes, Average Time, Cars serviced within each goal, and Longest times for Menu, Service and Total times. This report also shows Total Pullouts, Average Lane Time, average Cars in the Lane, and system information (Power Fails, System resets and VDB Resets).

**Step 1**
Press the SHIFT REPORT key to set up the report.

![Shift Report]

**Shift Report:**
Shift: 3  09:00A
From JAN 14 To JAN 14
Print Report:  START

**Step 2**
Use the number and +/- keys to enter the Shift to be printed and the date range. The system will automatically display the start time of the selected Shift.

**Step 3**
When START is flashing, press ENTER to print the report.

*The Standby display will appear while the report is printing.*

![Service Time]

Service Time = 01:32
Cars in Lane = 6
Total Time = 2.32

If you want to stop the report, press the report key again. STOP will be flashing. Press ENTER to stop printing.

If you want to print another report, press the key for the new report.
Example:

Shift Report #1
---------------------
MON 04/28/97 11:07:12A
Store ID : 0
From: MON 04/28/97 06:00A
To : MON 04/28/97 11:07A

MENU 1
-------
Total Cars = 2
Total (hh:mm) = 0:01
Average Time = 0:21
Cars < 0:10 = 50% 1
Cars < 1:00 = 50% 1
Longest time:
04/28/97 09:24:52A 0:35
04/28/97 09:22:27A 0:07

SERV 1
-------
Total Cars = 2
Total (hh:mm) = 0:02
Average Time = 0:53
Cars < 0:30 = 50% 1
Cars < 2:00 = 50% 1
Longest time:
04/28/97 09:24:52A 1:37
04/28/97 09:22:27A 0:09

Total Lane 1
-------------
Total Cars = 2
Average Time = 1:26
Cars < 1:30 = 50% 1
Cars < 3:30 = 50% 1
Longest time:
04/28/97 09:24:52A 2:32
04/28/97 09:22:27A 0:21

Ave Queue Time = 0:12
Ave Cars In Lane = 3
Total Pullouts = 4

Power Fails = 0
System Resets = 0
VDB Resets = 0
-----------End of Report-------
5. Day Report

This report will show the date and time of the report, the Store ID, along with counts for Total Cars, Total Hours & Minutes, Average Time, and Cars serviced within each goal. This report also shows Total Pullouts, Average Lane Time, Average Cars in Lane, and system information (Power Fails, System resets and VDB Resets).

**Step 1** Press the DAY REPORT key to set up the report.

```
DAY REPORT
5
```

**Step 2** Use the +/- and number keys to enter the date range.

**Step 3** When START is flashing, press ENTER to print the report.

*The Standby display will appear while the report is printing.*

```
12:34:12P  •••––– Service Time = 01:32 Cars in Lane =  6 Total Time =  2.32
```

If you want to stop the report, press the report key again. STOP will be flashing. Press ENTER to stop printing.

If you want to print another report, press the key for the new report.

**NOTE:** Day Reports can be retrieved for up to one year (365 days) back.
Example:

Day Report
-------------------------------------
MON 04/28/97  11:29:58A
Store ID :  0
From:MON 04/28/97  06:00A
To :MON 04/28/97  11:59P

MENU 1
--------
Total Cars =  2
Total (hh:mm) =  0:01
Average Time =  0:21
Cars < 0:30 - 50%  1
Cars < 1:00 - 50%  1
Longest time:
04/28/97 09:24:52A  0:35
04/28/97 09:22:27A  0:07

SERV 1
--------
Total Cars =  2
Total (hh:mm) =  0:02
Average Time =  0:53
Cars < 0:30 - 50%  1
Cars < 2:00 - 50%  1
Longest time:
04/28/97 09:24:52A  1:37
04/28/97 09:22:27A  0:09

Total Lane 1
-------------
Total Cars =  2
Average Time =  0:26
Cars < 1:30 - 50%  1
Cars < 3:30 - 50%  1
Longest time:
04/28/97 09:24:52A  2:32
04/28/97 09:22:27A  0:21
Ave Queue Time =  0:12
Ave Cars In Lane =  3
Total Pullouts =  4
Power Fails =  0
System Resets =  0
VDB Resets =  0

-----End of Report-----

System Summary

Total Lane 1 Summary

Second Detection Point Summary

First Detection Point Summary

First Detection Point in Lane 1

Second Detection Point in Lane 1

Total Lane 1 Summary

System Summary
6. Week Report

This report will show the date and time of the report, the Store ID, along with counts for Total Cars, Total Hours & Minutes, Average Time, and Cars serviced within each goal. This report also shows Total Pullouts, Average Lane Time, Average Cars in Lane, and system information (Power Fails, System resets and VDB Resets).

**Step 1**  Press the WEEK REPORT key to set up the report.

**Step 2**  Use the +/- and number keys to enter the beginning date. The system will automatically display the end date.

**Step 3**  When START is flashing, press ENTER to print the report.

*The Standby display will appear while the report is printing.*

```
12:34:12P  ii ii ii ii ii
Service Time = 01:32
Cars in Lane = 6
Total Time = 2.32
```

**r**  If you want to stop the report, press the report key again. STOP will be flashing. Press ENTER to stop printing.

**r**  If you want to print another report, press the key for the new report.

**NOTE:**  Week Reports can be retrieved for up to one year (365 days) back.
Example:

Week Report
------------------
MON 04/26/97 11:42:06A
Store ID: 0
From: SUN 04/20/97 06:30A
To: SAT 04/26/97 11:59P

MENU 1
-------
Total Cars = 7311
Total (Ph:mm) = 109:22
Average Time = 0:53
Cars < 0:30 = 18% 1308
Cars < 1:00 = 34% 2489
Cars < 1:30 = 46% 3373
Cars < 2:00 = 1% 67
Cars > 2:00 = 1% 74

SERV 1
-------
Total Cars = 7317
Total (Ph:mm) = 98:43
Average Time = 0:48
Cars < 0:30 = 26% 1913
Cars < 1:00 = 34% 2518
Cars < 1:30 = 39% 2923
Cars < 1:30 = 1% 57

MENU 2
-------
Total Cars = 6570
Total (Ph:mm) = 77:10
Average Time = 0:42
Cars < 0:30 = 29% 1881
Cars < 1:00 = 44% 2909
Cars < 1:30 = 26% 1723
Cars > 1:30 = 1% 57

SERV 2
-------
Total Cars = 6570
Total (Ph:mm) = 77:10
Average Time = 0:42
Cars < 0:30 = 29% 1881
Cars < 1:00 = 44% 2909
Cars < 1:30 = 26% 1723
Cars > 1:30 = 1% 57

Total Lane 1
------------
Total Cars = 7317
Average Time = 3:09
Cars < Goal A = 3% 203
Cars < Goal B = 60% 4418
Cars < Goal C = 32% 2319
Cars < Goal D = 4% 267
Cars >=Goal = 1% 90
Avg Queue Time = 1:26
Avg Cars in Lane = 3
Total Pullouts = 18

Total Lane 2
------------
Total Cars = 6570
Average Time = 0:42
Cars < Goal A = 0:00% 6570
Avg Queue Time = 0:00
Avg Cars in Lane = 1
Total Pullouts = 0

Power Failures = 0
System Resets = 0
VDB Resets = 0

End of Report
--------------
7. Month Report

This report will show the date and time of the report, the Store ID, along
with counts for Total Cars, Total Hours & Minutes, Average Time, and
Cars serviced within each goal. This report also shows Total Pullouts,
Average Lane Time, Average Cars in Lane, and system information
(Power Fails, System resets and VDB Resets).

**Step 1** Press the MONTH REPORT key to set up the report.

**Step 2** Use the +/- and number keys to enter the month and year for the report.
The date must be after the power-up date.

**Step 3** When START is flashing, press ENTER to print the report.

*The Standby display will appear while the report is printing.*

- If you want to stop the report, press the report key again.
  STOP will be flashing. Press ENTER to stop printing.

- If you want to print another report, press the key for the new report.

**NOTE:** Month Reports can be retrieved for up to one year (365 days) back.
Example:

Month Report
---------
MON 04/28/97 11:42:06A
Store ID: 0
From: SAI 03/01/97 06:00A
To: MON 03/31/97 11:59P

MENU 1
--------
Total Cars = 7311
Total (hh:mm) = 100:22
Average Time = 0:53
Cars < 0:30 = 18% 1308
Cars < 1:00 = 54% 2499
Cars < 1:30 = 46% 3373
Cars < 2:00 = 1% 67
Cars > 2:00 = 1% 74

MENU 2
--------
Total Cars = 6570
Total (hh:mm) = 77:10
Average Time = 0:42
Cars < 0:30 = 29% 1881
Cars < 1:00 = 44% 2909
Cars < 1:30 = 26% 1723
Cars > 1:30 = 1% 57

SERV 1
--------
Total Cars = 7317
Total (hh:mm) = 98:43
Average Time = 0:48
Cars < 0:30 = 26% 1913
Cars < 1:00 = 34% 2516
Cars < 1:30 = 39% 2823
Cars > 1:30 = 1% 63

SERV 2
--------
Total Cars = 6570
Total (hh:mm) = 77:10
Average Time = 0:42
Cars < 0:30 = 29% 1881
Cars < 1:00 = 44% 2909
Cars < 1:30 = 26% 1723
Cars > 1:30 = 1% 57

Total Lane 1
-----------
Total Cars = 7317
Average Time = 3:39
Cars < Goal A = 3% 225
Cars < Goal B = 60% 4418
Cars < Goal C = 32% 2319
Cars < Goal D = 4% 287
Cars > Goal D = 1% 10
Avg Queue Time = 1:26
Avg Cars In Lane = 3
Total Pullouts = 18

Total Lane 2
-----------
Total Cars = 6570
Average Time = 0:42
Cars < Goal A = 0% 6570
Avg Queue Time = 0:00
Avg Cars In Lane = 1
Total Pullouts = 0

Power Fails = 0
System Resets = 0
VDB Resets = 0
-----End of Report-----
8. Year-To-Date Report

This report will show the date and time of the report, the Store ID, along with counts for Total Cars, Total Hours & Minutes, Average Time, and Cars serviced within each goal. This report also shows Total Pullouts, Average Lane Time, Average Cars in Lane, and system information (Power Fails, System resets and VDB Resets).

**Step 1** Press the Year-To-Date Report key to run the report.

![Year-To-Date Report:](image)

**Step 2** When START is flashing, press **ENTER** to print the report.

*The Standby display will appear while the report is printing.*

![Service Time = 01:32, Cars in Lane = 6, Total Time = 2.32](image)

- If you want to stop the report, press the report key again. STOP will be flashing. Press **ENTER** to stop printing.

- If you want to print another report, press the key for the new report.

**NOTE:** Year-To-Date Reports can be retrieved for up to one year (365 days) back.
**Example:**

**Year-To-Date Report**

<table>
<thead>
<tr>
<th>MON 04/28/97 11:42:06A</th>
<th>report title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Store ID: 0</td>
<td>current date and time</td>
</tr>
<tr>
<td>From: WED 01/01/97 06:00A</td>
<td>report beginning time</td>
</tr>
<tr>
<td>To: MON 04/28/97 11:42A</td>
<td>report ending time</td>
</tr>
</tbody>
</table>

**MENU 1**

<table>
<thead>
<tr>
<th>Total Cars</th>
<th>7311</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total (hh:mm)</td>
<td>109:22</td>
</tr>
<tr>
<td>Average Time</td>
<td>0:53</td>
</tr>
<tr>
<td>Cars &lt; 0:30</td>
<td>- 10% 1506</td>
</tr>
<tr>
<td>Cars &lt; 1:00</td>
<td>= 34% 2499</td>
</tr>
<tr>
<td>Cars &lt; 1:30</td>
<td>= 46% 3373</td>
</tr>
<tr>
<td>Cars &lt; 2:00</td>
<td>= 1% 67</td>
</tr>
<tr>
<td>Cars &gt; 2:00</td>
<td>= 1% 74</td>
</tr>
</tbody>
</table>

**SERV 1**

<table>
<thead>
<tr>
<th>Total Cars</th>
<th>7317</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total (hh:mm)</td>
<td>98:43</td>
</tr>
<tr>
<td>Average Time</td>
<td>0:48</td>
</tr>
<tr>
<td>Cars &lt; 0:30</td>
<td>= 26% 1913</td>
</tr>
<tr>
<td>Cars &lt; 1:00</td>
<td>= 34% 2518</td>
</tr>
<tr>
<td>Cars &lt; 1:30</td>
<td>= 38% 2923</td>
</tr>
<tr>
<td>Cars &gt;= 1:30</td>
<td>= 1% 63</td>
</tr>
</tbody>
</table>

**MENU 2**

<table>
<thead>
<tr>
<th>Total Cars</th>
<th>6570</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total (hh:mm)</td>
<td>77:10</td>
</tr>
<tr>
<td>Average Time</td>
<td>0:42</td>
</tr>
<tr>
<td>Cars &lt; 0:30</td>
<td>= 29% 1881</td>
</tr>
<tr>
<td>Cars &lt; 1:00</td>
<td>= 44% 2909</td>
</tr>
<tr>
<td>Cars &lt; 1:30</td>
<td>= 26% 1723</td>
</tr>
<tr>
<td>Cars &gt;= 1:30</td>
<td>= 1% 57</td>
</tr>
</tbody>
</table>

**SERV 2**

<table>
<thead>
<tr>
<th>Total Cars</th>
<th>6570</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total (hh:mm)</td>
<td>77:10</td>
</tr>
<tr>
<td>Average Time</td>
<td>0:42</td>
</tr>
<tr>
<td>Cars &lt; 0:30</td>
<td>= 29% 1881</td>
</tr>
<tr>
<td>Cars &lt; 1:00</td>
<td>= 44% 2909</td>
</tr>
<tr>
<td>Cars &lt; 1:30</td>
<td>= 26% 1723</td>
</tr>
<tr>
<td>Cars &gt;= 1:30</td>
<td>= 1% 57</td>
</tr>
</tbody>
</table>

**Total Lane 1**

<table>
<thead>
<tr>
<th>Total Cars</th>
<th>7317</th>
</tr>
</thead>
<tbody>
<tr>
<td>Average Time</td>
<td>3:09</td>
</tr>
<tr>
<td>Cars &lt; Goal A</td>
<td>- 3% 203</td>
</tr>
<tr>
<td>Cars &lt; Goal B</td>
<td>= 60% 4418</td>
</tr>
<tr>
<td>Cars &lt; Goal C</td>
<td>= 52% 3199</td>
</tr>
<tr>
<td>Cars &lt; Goal D</td>
<td>= 4% 287</td>
</tr>
<tr>
<td>Cars &gt; Goal D</td>
<td>= 1% 90</td>
</tr>
<tr>
<td>Avg Queue Time</td>
<td>1:26</td>
</tr>
<tr>
<td>Avg Cars In Lane</td>
<td>3</td>
</tr>
<tr>
<td>Total Pullouts</td>
<td>18</td>
</tr>
</tbody>
</table>

**System Summary**

| Power Falls | 0 |
| System Resets | 0 |
| VDB Resets | 0 |

---End of Report---
F. Drive-Thru Manager

Certain conditions may require that the system internal detectors be reset, or that the first car in the lane be deleted.

! Vehicle detectors need to be reset when a car has left a location but the detector is still on.

! The first car in the lane should be deleted when cars in the lane are out of sequence. This can happen if the detector has a problem, if cars with trailers have gone through the lane, or if other unusual events occur.

Step 1 When you need to reset the detectors or delete the first car in the lane, begin by pressing the Set Up System key. The Set Up System Menus display will appear.

```
<table>
<thead>
<tr>
<th>Set Up System Menus:</th>
</tr>
</thead>
<tbody>
<tr>
<td>DRIVE-THRU MANAGER</td>
</tr>
<tr>
<td>Press + or - &amp; ENTER</td>
</tr>
</tbody>
</table>
```

Step 2 Press +/- until DRIVE-THRU MANAGER appears on the Set Up System Menus display.

Step 3 Press ENTER. The Drive-Thru Manager display will appear.

```
<table>
<thead>
<tr>
<th>Drive-Thru Manager:</th>
</tr>
</thead>
<tbody>
<tr>
<td>RESET DETECTOR</td>
</tr>
<tr>
<td>Press + or - &amp; ENTER</td>
</tr>
</tbody>
</table>
```

This display offers two options:

<table>
<thead>
<tr>
<th>Option</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>RESET VEHICLE DETECTOR</td>
<td>Reset the internal vehicle detector(s).</td>
</tr>
<tr>
<td>DELETE FIRST CAR</td>
<td>Deletes the first (oldest) car from the current lane.</td>
</tr>
</tbody>
</table>

Step 4 Press +/- to choose one of these two actions. Press ENTER to view the display you have chosen.
If you want to reset the detectors, press **ENTER** when **RESET VEHICLE DETECTORS** appears on the Drive-Thru Manger display. The system will then return to the Set Up System Menus display.

**Note:** This should only be done when no vehicle is on the loop.

Press **ENTER** to:

- **RESET VEHICLE DETECTOR(s)**

If you choose DELETE FIRST CAR, the Delete First Car display will appear.

If you are operating multiple lanes, use the number keys to choose which lane to delete the car in.

**Step 5** Press **ENTER** to delete the first car in the lane.

```
DELETE FIRST CAR IN LANE: 1
Press # Keys & ENTER
```

**Step 6** Press **ENTER** to perform either operation, and then return to the Standby display.
G. Modifying the System Settings

The basic System 30 setups were done at the factory or by the installer, and should not normally need to be changed. However, if it becomes necessary to reset any of the basic system settings, follow the instructions in this section.

The system’s setup can be changed by pressing the Setup keys on the keypad.

<table>
<thead>
<tr>
<th>Key</th>
<th>Action</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="SET UP REPORT SCHEDULE" /></td>
<td>Press this key to set up the Report Schedule. You can schedule all of the system reports to print automatically.</td>
<td>36</td>
</tr>
<tr>
<td><img src="image" alt="SET UP DAYPARTS &amp; SHIFTS" /></td>
<td>Press this key to set up the Dayparts and Shifts. You can break the day into 12 Dayparts, and track activity for each of them. You can set up the store in up to 3 shifts.</td>
<td>44</td>
</tr>
<tr>
<td><img src="image" alt="SET UP SERVICE GOALS" /></td>
<td>Press this key to set up your Service Goals. The system can track a variety of timing events, and you can establish goals for each of them. You can also set the system to sound a tone or flash an alert when service goals times have been exceeded. This key also allows you to set up the Remote Display Event Tone, Flash sequence, Standby Mode, and Alarms.</td>
<td>48</td>
</tr>
<tr>
<td><img src="image" alt="SET UP SYSTEM" /></td>
<td>Press this key to set the current Date &amp; Time, the Store Hours, set up the Accounting, and change the Report or Manager Access Code.</td>
<td>55</td>
</tr>
<tr>
<td><img src="image" alt="SET UP SYSTEM" /></td>
<td>Press this key to reconfigure the initial system installation parameters (the system setup). This can include detection point assignments and other basic system settings.</td>
<td>69</td>
</tr>
</tbody>
</table>
1. Schedule Your Automatic Reports

You can set the system to print any of the system reports automatically.

**Step 1**
press *EXIT* to return to the Standby screen. Press the SET UP REPORT SCHEDULE key. The Schedule Auto Report display will appear.

This display can be used to schedule the following reports: EVERY CAR, HOUR, DAYPART, SHIFT, DAY, WEEK, MONTH and YEAR-TO-DATE.

**Report**

Every-car report ................. go to page 37
Hour report ....................... go to page 38
Daypart report .................. go to page 39
Shift report ....................... go to page 40
Day report ............................ go to page 41
Week report ....................... go to page 42
Month report ....................... go to page 42
Year-to-date report .................. go to page 43

**Step 2**
press the +/- keys to select the report that you want to schedule. Press *ENTER* when the desired report display appears.
Schedule Every-Car Report

**Step 1**  
Press +/- until EVERY CAR REPORT appears on the Schedule Auto Report display.

<table>
<thead>
<tr>
<th>Schedule Auto Report</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select report,</td>
</tr>
<tr>
<td>EVERY CAR REPORT</td>
</tr>
<tr>
<td>Press + or - &amp; ENTER</td>
</tr>
</tbody>
</table>

**Step 2**  
Press **ENTER**. The Every Car Report display will appear. The default is OFF.

| Every Car Report: OFF      |
| Will Continue To Print     |
| Until Stopped              |
| Press + or - & ENTER       |

**Step 3**  
Press **ENTER** to accept this setting.

*Hint!*  
*The Every Car Report is a real time, continuous report that will continue to print until it is turned off! To stop the printing, press Schedule Auto Reports, press +/- until the Every Car Report display appears, and press +/- to turn the report OFF. Then, press ENTER.*

**NOTE:** This report is usually used for trouble shooting problems.
Schedule Hour Report

**Step 1**  
Press +/- until HOUR REPORT appears on the Schedule Auto Report display.

```
Schedule Auto Report
Select report,
   HOUR REPORT
Press + or - & ENTER
```

**Step 2**  
Press **ENTER**. The Hour Report display will appear.

```
Hour Report: OFF
Ranges (From To)
   07A-09A & 11A-02P
Press + or - & ENTER
```

**Step 3**  
Use the +/- keys to set the report ON (print at the end of each hour within the selected range) or OFF.  
The default is OFF.  
Two ranges of hours can be programmed.

**Step 4**  
Press **ENTER** to accept the setting.
Schedule Daypart Report

You can select one or two ranges of Dayparts to include in the automatic report. The default is OFF.

**Step 1** Press +/- until DAYPART appears on the Schedule Auto Report display.

```
Schedule Auto Report
Select report, DAYPART
Press + or - & ENTER
```

**Step 2** Press ENTER. The Daypart Report display appears.

```
Daypart Report: OFF
Dayparts:
01-12 & 00-00
Press # Keys & ENTER
```

**Step 3** Press +/- to set the report On or Off.

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ON</td>
<td>The report will print at the end of each Daypart within the selected ranges.</td>
</tr>
<tr>
<td>OFF</td>
<td>The Daypart report will not automatically print.</td>
</tr>
</tbody>
</table>

**Step 4** Press ENTER or ↓ to move to the next field. Use the number keys to enter the Dayparts to include in the report. Two Daypart ranges can be entered for each report.

**Step 5** Press ENTER to accept these settings.
Schedule Shift Report

You can schedule the Shift report to print for any or all of the store’s shifts.

**Step 1**  Press +/- until SHIFT REPORT appears on the Schedule Auto Report display.

```
Schedule Auto Report
Select report,
SHIFT REPORT
Press + or - & ENTER
```

**Step 2**  Press ENTER. The Shift report display will appear.

```
Shift Report: OFF
Include Shifts: 1, 2, 3
Press + or - & ENTER
```

**Step 3**  Press +/- to set the report On or Off. The default is OFF.

**Step 4**  Press ENTER or ✓, and then use the number keys to enter the shifts to be included in the automatic report.

<table>
<thead>
<tr>
<th>ON</th>
<th>Report will print at end of each shift within the selected range.</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFF</td>
<td>Report will not automatically print.</td>
</tr>
</tbody>
</table>

**Step 5**  Press ENTER to accept these settings.
Schedule Day Report

You can schedule the Day report to print for any or all days of the week.

**Step 1** Press +/- until DAY REPORT appears on the Schedule Auto Report display.

<table>
<thead>
<tr>
<th>Schedule Auto Report</th>
<th>Select report,</th>
<th>DAY REPORT</th>
<th>Press + or - &amp; ENTER</th>
</tr>
</thead>
</table>

**Step 2** Press ENTER. The Day Report display will appear.

<table>
<thead>
<tr>
<th>Day Report: ON</th>
<th>Range: MON SUN</th>
<th>Print: 11:30 PM</th>
<th>Press + or - &amp; ENTER</th>
</tr>
</thead>
</table>

**Step 3** Press the +/- keys to set the report ON or OFF. The default is OFF.

**Step 4** Press ENTER or Æ, and then press +/- to select the first day for the report to print.

**Step 5** Press ENTER or Æ, and then press the +/- keys to select the final day for the report to print.

**Step 6** Press ENTER or Æ, and then press the number keys to enter a time of day for the report to print.

**Step 7** Press ENTER to accept these settings.
Schedule Week Report

**Step 1**  Press +/- until WEEK REPORT appears on the Schedule Auto Report display.

```plaintext
Schedule Auto Report
Select report,
WEEK REPORT
Press + or - & ENTER
```

**Step 2**  Press ENTER The Week report display will appear.

```plaintext
Week Report: OFF
Print: 11:30 P
Press + or - & ENTER
```

**Step 3**  Press the +/- keys to set the report On or Off. The default is OFF.

**Step 4**  Press ENTER or \( \bar{f} \), and then press the number keys to set a time of day at the end of the week for the report to print.

**NOTE:** Day of the week is set up in the Set Up Accounting display (page 51).

**Step 5**  Press ENTER to accept these settings.

Schedule Month Report

**Step 1**  Press +/- until MONTH REPORT appears on the Schedule Auto Report display.

```plaintext
Schedule Auto Report
Select report,
MONTH REPORT
Press + or - & ENTER
```

**Step 2**  Press ENTER The Month Report display will appear.

```plaintext
Month Report: OFF
Print: 11:30 P
Press + or - & ENTER
```

**Step 3**  Press the +/- keys to set the report On or Off. The default is OFF.

**Step 4**  Press ENTER or \( \bar{f} \), and then press +/- to select a time of day at the end of the month for the report to print.

**Step 5**  Press ENTER to accept these settings.
Schedule Year-to-Date Report

**Step 1** Press +/- until YEAR-TO-DATE appears on the Schedule Auto Report display.

| Schedule Auto Report | Select report, YEAR-TO-DATE | Press + or - & ENTER |

**Step 2** Press ENTER. The Year-To-Date Report display will appear.

| Year-to-Date: OFF Will print at end of month & year. | Press + or - & ENTER |

**Step 3** Press the +/- keys to set the report On or Off. The default is OFF.

**Step 4** Press ENTER to accept this setting.

The Year-To-Date report will print at the store closing time.
2. Set Up Dayparts and Shifts

Dayparts allow the store manager to look at the different types of activity that your store probably has: busy in the early morning, slower in late morning, busy during the lunch period, slow in the afternoon, and busy again around dinner time. Since each of these periods can be several hours long, and they will overlap the clock hours (10, 11, 12, etc.), the day can be broken into pieces called Dayparts. The System 30 allows you to set up 12 Dayparts.

Since most stores have several shifts, the System 30 allows you to track activity for each shift. The System 30 allows you to have 1, 2, or 3 shifts.

Follow the instructions below to set up your Dayparts and Shifts.

Set Up Dayparts

**Step 1** Press **EXIT** until the Standby display (or one of the other mini report screens) appears.

| 12: 34: 12P | i i i n n n
Service Time = 01: 32
Cars in Lane = 6
Total Time = 2. 32 |

**Step 2** Press the SET UP DAYPARTS & SHIFTS key. The Set Up Dayparts display will appear.

**Step 3** Press +/- to display DAYPARTS.

**Step 4** Press **ENTER** to select Dayparts.

The first Set Up Dayparts display will appear. Use this series of screens to set the Start time for each Daypart.

Up to 12 Dayparts can be set. You only need to enter the Start time. Each Daypart will end when the next one begins. The last Daypart End time will be the Store Closing time.

Dayparts 2-12 cannot start before the previous Daypart!
Here is some additional information about Daypart times and display entries:

1. The System 30 has up to 12 possible daypart periods numbered 1 through 12. You may use as many of the dayparts as you want. You do not have to set them all. Enter a 0 for any Daypart that is to be turned off.

2. Daypart times entered will apply to every day of the week.

3. Daypart #1 cannot start before the earliest open time entered in the Store Hours display (see page 57).

4. Gaps in Daypart times are not permitted.

5. The last programmed Daypart will end at the closing time entered in the Store Hours schedule (see page 57).

The first display is used to set Dayparts 1-4.

Step 5  Use the number keys to enter the Start times for each Daypart. The time can be 12:00 AM through 11:59 PM.

NOTE: A Daypart can overlap midnight. Enter the correct time. The system will track the date correctly.

Step 6  Press ENTER or \( \pm \) to move to the next field. Press +/- to set the time as AM or PM.

Step 7  Enter 00:00 and press ENTER for any Daypart that will be set to Off. The display will show Off when ENTER is pressed.

Step 8  Press ENTER or \( \pm \) after each entry to move to the next field or display. Fill in the Start time for each of these Dayparts (5-8).
Step 9  Press ENTER or → after each entry to move to the next field or display.
Fill in the Start time for each of these Dayparts.

Step 10 Press ENTER or → to the next display to set up Dayparts 9-12.

Step 11 Press EXIT to accept the entries and return to the Set Up Dayparts/Shifts display. Fill in the Start time for this last Daypart.

Step 12 Press EXIT to return to the Standby display.

Set Up Shifts

Step 1 Press EXIT until the Standby screen is displayed.

Step 2 Press the SET UP DAYPARTS & SHIFTS key. The Set Up Dayparts display will appear.

Step 3 Press +/- to display SHIFTS.
**Step 4** Press **ENTER** to select Shifts.  
The Set Up Shifts display will appear.

<table>
<thead>
<tr>
<th>Set Up Shifts:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. 07:30A / 11:30A</td>
</tr>
<tr>
<td>2. 11:30A / 01:00P</td>
</tr>
<tr>
<td>3. 04:00P / 11:00P</td>
</tr>
</tbody>
</table>

**Step 5** Use the number keys to enter the Start and Stop times for each shift.  
Press **ENTER** or **f** to move from one field to the next.

*Up to three shifts can be set up. Enter 00:00 to turn a shift off.  
Shifts can overlap, and there can be a gap between shifts.*

**Step 6** Press **EXIT** until the Standby screen is displayed.  
This ends the set up of Dayparts and Shifts.

*If there is a gap between shifts, no records will be reported on the Shift Report for that period.*

*Shift #1 cannot start before the earliest open time entered in the Store Hours display.*

*Shifts #2 and #3 cannot start before the previous Shift.*

*The last programmed Shift must end at or before the closing time entered in the Store Hours display (see page 57).*
3. Set Up Service Goals

**Step 1** Press **EXIT** until the Standby screen is displayed.

<table>
<thead>
<tr>
<th>Time</th>
<th>Cars in Lane</th>
<th>Total Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>12:34:12P</td>
<td>6</td>
<td>2.32</td>
</tr>
</tbody>
</table>

**Step 2** Press the SET UP SERVICE GOALS key. The Set Up Service Goals display will appear.

**Step 3** Press +/- to select MASTER SERVICE GOALS, DAYPART SERVICE GOALS, EVENT TONES, REMOTE DISPLAYS, REMOTE STANDBY MODE, or SET ALARMS.

**Service Goals Display**

- Set Up Master Service Goals ............... go to page 49
- Set Up Daypart Service Goals .............. go to page 51
- Set Remote Displays ...................... go to page 52
- Remote Display Standby Mode ............ go to page 53
- Set Alarm ................................... go to page 54
Set Up Master Service Goals

The System 30 allows you to set up Master Service Goals for all Dayparts for all days of the week. You can then set up individual Daypart service goals for any Daypart, for any day of the week (see page 51).

**Step 1** Press +/- to select MASTER SERVICE GOALS.

Set Up Service Goals

Menus:

MASTER SERVICE GOALS
Press + or - & ENTER

**Step 2** Press ENTER. The Set Master Service Goals display appears.

Set Master Service Goals for:

TOTAL
Press + or - & ENTER

**Step 3** Press +/- to select the event to set the goals for. You can set goals for the events programmed in the Assign Locations display, reviewed in Appendix A.

**Step 4** Press ENTER for the event that you want to set goals for. A Master Service Goals display will appear.

Master Service Goals

TOTAL  A=1: 30
B=3: 30  C=5: 00  D=7: 00
Press # Keys & ENTER

**Step 5** Use the number keys to set the time for each category of work goals. The minimum time for Goal A is 0:01. Most systems will use only categories A and B. Press ENTER or ° after each entry to move to the next field.
Step 6  
Press **ENTER** to return to the Set Master Service Goals display.

<table>
<thead>
<tr>
<th>Set Master Service Goals for:</th>
</tr>
</thead>
<tbody>
<tr>
<td>TOTAL</td>
</tr>
<tr>
<td>Press + or - &amp; ENTER</td>
</tr>
</tbody>
</table>

If you want to set goals for another event, press +/- to select another event to set goals for. Then, repeat steps 1 and 2 above.

If you are done, press **EXIT** to return to the Standby display.

*Each Service Goal must be greater than all previous goals. B must be greater than A, C must be greater than B, etc.*

*IIf programmed, Daypart Service Goals will take priority over the previously programmed Master Service Goals.*
Set Up Daypart Service Goals

The Master Service Goals display will set the same goal for each day of the week. You can then use the Daypart Service Goals display to set individual goals for any Daypart, for any day of the week.

**Step 1** Press **EXIT** to return to the Set Up Master Service Goals display.

**Step 2** Press +/- to select Daypart Service Goals.

**Step 3** Press **ENTER**. The Daypart Service display will appear.

**NOTE:** When this display appears, it will show the settings programmed in the Master Service Goals display.

**Step 4** Use the number keys to enter a Daypart number for which you want to set a new goal.

**Step 5** Press **ENTER** or ↓ to move to the next field.

**Step 6** Press +/- to select the event name to set the Daypart for, or select Total to set the goal for the Total time.

**Step 7** Press **ENTER** or ↓ to move through the time goal fields.

**Step 8** Use the number keys to enter the time goal for each goal (A, B, C, or D). The minimum time for Goal A is 0:01. Enter 0:00 to set the Repeat interval off.

If you want to set another Daypart, repeat steps 1 and 2 above.
Set Remote Displays

The attached remote displays will be on until an event time reaches its designated goal. The remotes can be set to flash once every two seconds when service time reaches a goal.

**Step 1** Press **EXIT** to return to the Set Up Service Goals Menus display.

**Step 2** Press +/- to select REMOTE DISPLAYS.

**Step 3** Press **ENTER**. The Set Remote Displays menu will appear.

**Step 4** Press +/- to select the Event to set for. Press **ENTER** or `º` to move to the next field.

**Step 5** Press +/- to select remote display beginning goal for flash (A,B,C,D or OFF). Press **ENTER** or `º` to move to the next field.

**Step 6** Press +/- to select remote display beginning goal for tone (A,B,C,D or OFF). Press **ENTER** or `º` to move to the next field.

**Step 7** Set the tone beeps (1–4).

**Step 8** Set the repeat interval for tone after last goal (0–59).

**Step 9** Press +/- to turn ON or OFF after arrival tone.

*The display will begin a slow flash when the event time exceeds the designated goal. When the vehicle departs the detection point, it will fast flash for 10 seconds for the Daypart selected in the next step.*
Remote Display Standby Mode

You can determine which event time should be shown on the remote displays when no other events or over-target times are being displayed.

**Step 1**  Press **EXIT** to return to the Set Up Service Goals Menus display.

**Step 2**  Press +/- to select REMOTE STANDBY DISP.

**Step 3**  Press **ENTER**. The Remote Standby Mode display will appear.

**Step 4**  Press +/- to select Daypart, Day or None. Daypart is the default.

*When there is no drive-thru activity for 10 seconds, the remote display will show the average time for the selected display.*

*Hint!*
Set Alarm

The alarm is either a strobe or buzzer that is connected to the System 30 control unit.

**Step 1** Press EXIT to return to the Set Up Service Goals Menus display.

**Step 2** Press +/- to select ALARMS.

<table>
<thead>
<tr>
<th>Set Up Service Goals Menus:</th>
</tr>
</thead>
<tbody>
<tr>
<td>SET ALARMS</td>
</tr>
<tr>
<td>Press + or - &amp; ENTER</td>
</tr>
</tbody>
</table>

**Step 3** Press ENTER. The Alarms display will appear.

<table>
<thead>
<tr>
<th>Set Alarm To: ON</th>
</tr>
</thead>
<tbody>
<tr>
<td>for: MENU Goal: B</td>
</tr>
<tr>
<td>Duration: 1/Rpt: 0</td>
</tr>
<tr>
<td>Press + or - &amp; ENTER</td>
</tr>
</tbody>
</table>

**Step 4** Press +/- to set the alarm to On, Off or Pulse. Press ENTER or \( \) to move to the next field.

If the alarm is set to ON or PULSE, press the +/- keys to select the location name and the Service Goal (A, B, C or D) for the alarm.

If the alarm is set to Pulse, set the Duration field to the number of seconds (0 through 9) that the Alarm should sound or flash.

**Step 5** Set the Repeat Interval (0-59).

**Step 6** Press ENTER to accept the settings.
4. Set Up the System

These Setup options allow you to set the current date and time, enter your store hours, set up accounting periods, and change the Report and Manager access codes.

Setup

Set the Date and Time .................. go to page 56
Store Hours .......................... go to page 57
Set Up Accounting .................... go to page 58
Change the Reports Access Code ...... go to page 59
Change the Manager Access Code ...... go to page 60
Print Programming ...................... go to page 61

Step 1  Press the SET UP SYSTEM key.
        The System Setup Menus display will appear.

        Press + or – & ENTER

Step 2  Press + or – until the display shows SYSTEM SETUP.

Step 3  Press ENTER to accept this option, which allows setup of the following functions:

<table>
<thead>
<tr>
<th>Option</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>Set Date/Time</td>
<td>Set the current date and time, and Daylight Savings Time adjustment.</td>
</tr>
<tr>
<td>Store Hours</td>
<td>Set the open hours of the store.</td>
</tr>
<tr>
<td>Set Up Accounting</td>
<td>Set the system for accounting week, fiscal year, and Store ID.</td>
</tr>
<tr>
<td>Change Access Codes</td>
<td>Change the Manager's and Report access codes.</td>
</tr>
</tbody>
</table>
Set the Date and Time

**Step 1** Press the + or - keys to move through the Setup Menu options until DATE & TIME appears.

**Step 2** Press ENTER. The Date/Time display will appear.

**Step 3** Press + or - until the correct month is displayed. Press ENTER or + to move to the Date field.

**Step 4** Press the number keys to enter the correct day of the month and the correct year. Press ENTER.

**Step 5** Press the number keys to enter the correct time. Press ENTER.

**Step 6** Press the + and - keys to select A (AM) or P (PM). Press ENTER.

**Step 7** Press the + and - keys to select automatic adjust for daylight saving time (YES) or no automatic adjustment (NO).

**Step 8** Press ENTER. The system will accept the changes and return to the System Setup display.

**Step 9** Press ENTER again. The system will return to the System Setup Menus display.

**IMPORTANT:** If the System Setup time is set to a time prior to the first time the System 30 control unit was plugged in, as shown in Figure 7, data will not be gathered until you reset to factory defaults as instructed under “Resetting Defaults” in Appendix A, page 85.
Store Hours

**Step 1**  Press +/- until System Setup appears on the display.

```
Set Up System Menus:
SYSTEM SETUP
Press + or – & ENTER
```

**Step 2**  Press ENTER. The System Setup display will appear.

**Step 3**  Press +/- until STORE HOURS appears on the selection line.

```
System Setup:
STORE HOURS
Press + or – & ENTER
```

**Step 4**  Press ENTER to display the Store Hours display.

**Step 5**  Press +/- to select one day of the week, or all weekdays.

**Step 6**  Use the number keys to enter the store hours for the select days.

**Step 7**  Press +/- to set the time as AM or PM.

```
Store Hours:
For Day: ALL
  06: 00A – 11: 30P
Press + or – & ENTER
```
Set Up Accounting

**Step 1** Press +/- until SET UP ACCOUNTING appears in the System Setup display.

```
System Setup:
SET UP ACCOUNTING
Press + or – & ENTER
```

**Step 2** Press ENTER. The Set Up Accounting display appears.

```
Set Up Accounting:
Begin: Week MON
Fiscal Yr JAN 01
Store ID #: 12345678
```

<table>
<thead>
<tr>
<th>Option</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Begin Week</td>
<td>Enter the day of the week to begin accounting.</td>
</tr>
<tr>
<td>Fiscal Year</td>
<td>Enter the date of the customer's fiscal year.</td>
</tr>
<tr>
<td>Store ID</td>
<td>Enter the ID number of this location, up to 8 digits.</td>
</tr>
</tbody>
</table>

**Step 3** Press +/- to enter the day of the week to begin accounting.

**Step 4** Press ENTER or \(\) and then press +/- to enter the fiscal year start month.

**Step 5** Press ENTER or \(\) and then use the number keys to enter the fiscal year start date and Store ID.

**Step 6** Press ENTER to accept these entries and return to the System Setup display.
Changing the Reports Access Code

The Report Access code is used to prevent unauthorized access to the System data. The Report code allows reports to be printed on demand, but will not provide access to system setups.

The Store Manager can change the access code for the Reports.

**Step 1**  Press +/- to display CHANGE ACCESS CODES.

```plaintext
System Set up:  
CHANGE ACCESS CODES
Press + or - & ENTER
```

**Step 2**  Press ENTER. Press +/- to select REPORTS code. Press ENTER.

```plaintext
To Select Access Code To Be Changed:  
REPORTS
Press + or - & ENTER
```

**Step 3**  Use the number keys to enter the new code. The new code must be entered twice before it will be accepted.

```plaintext
Change REPORTS Code  
Enter New code: ____  
Retype New code: ____  
Press # keys & ENTER
```

You will have three chances to enter the correct code. After a third failed attempt, the system will switch to the Standby screen. The keypad will not lock up.

```
12:34:12 P   •••–––
Service Time = 01:32
Cars in Lane = 6
Total Time = 2.32
```
Changing the Manager Access Code

The Manager’s Access code is used to prevent unauthorized access to the System data. The Manager’s code allows reports to be printed on demand, and also provides access to system setups.

Step 1  
Press +/– to display CHANGE ACCESS CODES.

Step 2  
Press ENTER.

Step 3  
Press +/– to select MANAGER. Press ENTER.

Step 4  
Use the number keys to enter the new code. The new code must be entered twice before it will be accepted.

NOTE: You will have three chances to enter the correct code. After a third failed attempt, the system will go back to the Standby screen. The keypad will not lock up.
Print Programming

It is a good idea to print all of the program entries that you have made. Then, if there is a system problem, you will be able to quickly reenter the settings.

**Step 1**
Press +/- until PRINT PROGRAMMING appears in the display.

```
Set up System Menus:
PRINT PROGRAMMING
Press + or - & ENTER
```

**Step 2**
Press ENTER. The Print Programming options will display.

```
Print Programming:
Print: SYSTEM
Setup Listing.
Press + or - & ENTER
```

You can print Setup listings for INSTALLER, SYSTEM, DAYPART & SHIFTS, SERVICE GOALS, REPORT SCHEDULE or ALL.

**Step 3**
Press +/- to select the listings to print.

**Step 4**
When START is flashing, press ENTER to print the selected setup listing.

**Step 5**
Press EXIT to abort the Printing and return to the Setup System Menus display.

```
Set up System Menus
PRINT PROGRAMMING
Press + or - & ENTER
```
IV. IN CASE OF TROUBLE

A. Special Problems

If any problem with the System 30 cannot be corrected using the following troubleshooting instructions, call HME at 1-800-848-4468 for help.

Problem 1 — Incorrect display data

When the system is first plugged in, the following data should appear on the LCD display on the control unit:

STORE IS CLOSED!
(Press + or - to view other screens)

or

12:34:12P
Service Time = 0:00
Cars in Lane = 0
Total Time = 0:00

0:00 should appear on any remote display unit. If 0:00 does not appear, press the Reset switch and check for loose wiring connections. See Figure 4 on page 5 for location of the Reset switch inside the printer cover of the control unit.

NOTE: If the store is closed, only one flashing decimal point will appear on any remote unit.

Problem 2 — Processor hangup

If the time (updated every second) on the displays does not change, and flashing decimals appear on the remote displays, press the reset switch.

Problem 3 — Cars not being detected

If cars are driving into the drive-thru lane, and a • appears on the System 30 displays, press the reset switch. If no • appears, check the operation of the vehicle detector.
Problem 4 — Printer malfunction

If the printer malfunctions, check for loose wiring connections. Press the PAPER FEED button to cycle the paper (see Figure 8).

CAUTION: Unplug the AC adapter or disconnect J2 before removing the ribbon cable from the printer circuit board.
Problem 5 — Low Battery

If the system loses its memory, the LCD will display LOW BATTERY. The Real-Time Clock Module on the main circuit board should be replaced. If this happens, change the Real-Time Clock as follows.

Real-Time Clock Module Replacement

WARNING: You must unplug the System 30 AC adapter from the electrical outlet before replacing the Real-Time Clock Module.

CAUTION: Handle the Real-Time Clock Module with care. Do not get grease or body oil on its contacts.

! Open the front cover of the control unit.

! Locate the Real-Time Clock Module in the center of the control unit circuit board.

! Very carefully, pull the defective Real-Time Clock Module off the board.

! Carefully insert the new Real-Time Clock Module into the chip socket. Make sure that the notch is on the left, and the dot is at the lower left as you place the chip in the board socket.

! Close the control unit.

Figure 9. System 30 Real-Time Clock Module on Control Unit circuit board
B. Restarting the System after the Real-Time Clock Module has been Replaced

If the Real-Time Clock Module has been replaced, the LOW BATTERY display will disappear from the LCD after the power has been restored.

**NOTE:** If the system has been without power for more than 2 days with a LOW BATTERY display, all system settings will be lost. Always keep a full printout of all system settings.

Follow the instructions on page 56 to set the date and time. Then, print out a full set of system settings to see if the system has lost its memory. If the data is lost, the System Setups will need to be re-input.

C. Diagnostic Tests

The System 30 has a user diagnostics feature which you can perform by following the instructions in this section.

*Before doing any diagnostic tests, check the system status reports to verify the system’s status.*

**Hint!**

*To run diagnostics:*

**Step 1**  
Press the SET UP SYSTEM key.  
The timer will show the Set Up System Menus display.

**Step 2**  
Press +/- until RUN DIAGNOSTICS appears in the display.
**Step 3**  Press **ENTER**. The Run Diagnostics display will appear.

```
Run Diagnostics:
    LCD DISPLAY
Press + or - & Enter
```

**Step 4**  Press +/- to select a diagnostic test to run. Test options include KEYPAD, LCD DISPLAY, PRINTER, and REMOTE.

**Step 5**  Press **ENTER** to start the selected test.
A copy of the test results will automatically be printed.
The testing process can be stopped by pressing **ENTER** or **EXIT** at any time.

---

**D. Clearing Printer-Paper Jams**

If the paper in your System 30 printer jams, follow these instructions carefully.

**CAUTION!**

Never pull the paper backward through the printer, toward the paper roll, to remove it from the printer.

**Step 1**  Open the front panel of the System 30 control unit by pressing down on the small button on top of the cabinet and slowly pulling the front panel forward.

Figure 10. Press down on button and pull front panel forward.
Step 2  Remove power from the printer by gripping the cable connector and pulling it out of its receptacle on the main circuit board.

Pull the connector, not the cable.

Push the cable and connector back through the hole in the cabinet.

*Figure 11. Remove power from printer*

Step 3  Locate the drive gear, the largest black, plastic gear on the right side of the printer. Turn the gear slowly counterclockwise to move the printer head (platen) to the left, or clockwise to move it to the right, away from the jammed paper.

**NOTE:** Most paper jams occur when the platen pushes the torn paper to the right side of the roller.

*Figure 12. Turn drive gear to move platen*

Step 4  Pull the paper forward slowly to clear the jammed paper from the roller area. Tweezers may be needed. Tear or cut off any damaged paper.

*Figure 13. Move platen away from jammed paper*

Step 5  Plug the power cable connector back into the receptacle on the main circuit board, and carefully close the front panel of the control unit.

You're Done!
V. OPTIONAL EQUIPMENT

The following equipment is available for use with the System 30. To order any of these items, call the HME Sales Department at (858) 535-6060.

<table>
<thead>
<tr>
<th>Equipment</th>
<th>Model Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard Remote Display Unit with 1 inch (25.4mm) display and 50 ft. (15 m.) Cable</td>
<td>R30</td>
</tr>
<tr>
<td>System 30 Single-Side Remote Display with 2 inch (50.8mm) display and 50 ft. (15 m.) Cable</td>
<td>R30S</td>
</tr>
<tr>
<td>System 30 Dual-Side Remote Display with 2 inch (50.8mm) display and 50 ft. (15 m.) Cable</td>
<td>R30D</td>
</tr>
<tr>
<td>System 30 Single-Side Super-Bright Remote Display with 2 inch (50.8mm) display and 50 ft. (15 m.) Cable</td>
<td>R30SB</td>
</tr>
<tr>
<td>System 30 Dual-Side Super-Bright Remote Display with 2 inch (50.8mm) display and 50 ft. (15 m.) Cable</td>
<td>R30DB</td>
</tr>
<tr>
<td>Remote Thermal Printer with Cable</td>
<td>*</td>
</tr>
<tr>
<td>Thermal Printer Paper</td>
<td>*</td>
</tr>
<tr>
<td>Ultrasonic Vehicle Detector</td>
<td>DU2 or DU3</td>
</tr>
<tr>
<td>Vehicle Detector Board</td>
<td>VDB 101B</td>
</tr>
<tr>
<td>External vehicle Loop Detector</td>
<td>VDX201</td>
</tr>
<tr>
<td>Computer Serial-Port Interface Cable (This cable can also be ordered from a computer dealer.)</td>
<td>See Appendix D</td>
</tr>
<tr>
<td>Stop Timer Switch</td>
<td>SB1</td>
</tr>
<tr>
<td>Strobe Light</td>
<td>SL1</td>
</tr>
<tr>
<td>Audio Alert</td>
<td>*</td>
</tr>
<tr>
<td>Modem</td>
<td>MK1</td>
</tr>
<tr>
<td>Memory Expansion (4MB)</td>
<td>XM30</td>
</tr>
<tr>
<td>PC Software</td>
<td>PC30</td>
</tr>
<tr>
<td>Control Switch</td>
<td>*</td>
</tr>
<tr>
<td>Phone Line Switch</td>
<td>LS1</td>
</tr>
<tr>
<td>100 ft. (30 m.) Extension Cable</td>
<td>*</td>
</tr>
<tr>
<td>Printer Replacement Kit</td>
<td>*</td>
</tr>
</tbody>
</table>

* Some products have no model numbers. They can be ordered by description only.
VI. SPECIFICATIONS

Control Unit
Voltage input 12VAC
Supply current (max) Main unit only 0.4A
                          Main + 1 remote 0.7A
                          Main + 2 remotes 1.0A
                          Main + 3 remotes 1.3A
                          Main + 4 remotes 1.6A
Indicators 4-line alpha-numeric LCD data display
Connectors 6-pin header for AC power and remote display
                    16-pin header for detection point, greet, and control
                    9-pin female D-sub connector for PC interface
                    2-pin header for alert output
PC interface RS232, baud rate 9600, full-duplex
Operating temperature 32°F to 104°F (0°C to 40°C)
Dimensions 9"H x 11"W x 4"D (241 x 279 x 102 mm)
Weight 3 lbs, 5 oz. (1.5 kg) maximum

Standard Remote Display, 1" LED (R30)
Dimensions 6.6"H x 4.3"W x 1.8"D (167.64 x 109.22 x 47.52 mm)
Weight .5 lbs (.34 Kg)

Optional Internal Printer
Line width 24 characters per line
Printer paper Thermal calculator paper

Optional Remote Display Unit, 2" LED
Dimensions 4¾"H x 8¼"W x 2¼"D (120.65 x 222.25 x 57.15 mm)
Weight 2 lbs 8 oz (1.13 kg)
APPENDIX A
Installer Setup Changes

The Installer Setup displays are used to change the printing options, number of lanes, detector assignments, and other basic system settings.

Step 1  Press +/- to select INSTALLER SETUP.

Step 2  Press ENTER. The Installer Password display will appear.

Step 3  Enter your Installer Password using the number keys and press ENTER.

Step 4  Press ENTER to continue. The Installer Setup display will appear.

Step 5  Press +/- to choose a setup option: DELETE UNDER 4 SECS, SET PRINTER OPTION, SET UP LANE, SET CONTROL, ASSIGN LOCATIONS, SET NUMBER OF LANES, and DEFAULT PROGRAM.

Setup Option
Delete Cars Under 4 Seconds ............ go to page 71
Set Printer Option ................................ go to page 72
Set Up Lane ..................................... go to page 73
Set Control ..................................... go to page 75
Assign Locations .............................. go to page 77
Delete Vehicles Under 4 Seconds

This function is used to discard vehicles that drive through without stopping, and therefore do not record at least 4 seconds at the detection point that marks the beginning or end of the vehicle’s total time.

The installer can set the system to discard vehicles that do not remain at the detection point at the start of the total time, at the end of the total time, or both. The system defaults are YES at the start and NO at the end.

**Step 1**  Press +/- until DELETE UNDER 4 SECS appears on the selection line of the Installer Setup display.

**Step 2**  Press ENTER. The Discard <4 Seconds display will appear.

**Step 3**  Press +/- to set each field On (YES) or Off (NO). Press ENTER to move to the next field.

**Step 4**  Press EXIT to accept the setting and return to the Installer Setup display.
Set Printer Option

Step 1  Press +/- to display SET PRINTER OPTION on the selection line of the Installer Setup display.

```
Installer Setup:
***** CAUTION *****
SET PRINTER OPTION
Press + or - & Enter
```

Step 2  Press ENTER to view the Printer Option display.

```
Printer Option:
Printer: INTERNAL
Press + or - & Enter
```

Step 3  Press +/- to set one of the following options:

<table>
<thead>
<tr>
<th>Option</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>Internal</td>
<td>Use the System 30 internal printer.</td>
</tr>
<tr>
<td>External</td>
<td>Use an external printer.</td>
</tr>
<tr>
<td>None</td>
<td>Do not print.</td>
</tr>
</tbody>
</table>

For most systems, choose Internal.

Step 4  Press ENTER to accept this setting and return to the Installer Setup display.
Set Up Lane

Each store has a limit on how many cars can fit in the service lane, based on the length of the lane and the size of a typical car. This function allows you to discard vehicles when there are unusual delays in service or when the maximum number of cars allowed in the lane is exceeded.

Step 1  Press +/- until SET UP LANE appears on the selection line of the Installer Setup display.

Step 2  Press ENTER. The Set Up Lane display will appear.
Options for the Set Up Lane display include:

<table>
<thead>
<tr>
<th>Option</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Service Idle</td>
<td>This is the maximum time that the last detection point “ON” or “CON” can be vacant with cars between locations. The possible range is 00:01 (one second) through 10:00 (10 minutes). The default is 01:00 (one minute).</td>
</tr>
<tr>
<td>Maximum Delay Time</td>
<td>This is the maximum time to allow for a vehicle to leave the first Detection Point “ON” or “CON”, and arrival at the last Detection Point “ON” or “CON” before discarding the record. The possible range is 00:01 through 10:00 (minutes:seconds). The default is 02:00.</td>
</tr>
<tr>
<td>Maximum Number of Cars in the Lane</td>
<td>If the queue has more cars than the programmed maximum, the record for the first car will be discarded. Options are 1 through 24. The default is 15. The distance between the first detection point (menu board or order point) to the service window or pickup window is 10 feet per car.</td>
</tr>
<tr>
<td>Option off</td>
<td>Setting the Service and Delay times to 00:00 or 00 turns this function OFF. Cars will not be deleted even if they exceed the typical number of cars that can fit in the lane.</td>
</tr>
</tbody>
</table>
Set Control

The System 30 allows you to set up events that will be outside of the automatic control of the system. This function is typically used for two-lane or six-lane installations, where one or more lanes are only open for heavy use periods. For example, a two lane location may only require the second or passenger-side lane to be open during the heavy traffic lunch hours.

**Step 1**  Press +/- until SET CONTROL appears on the selection line of the Installer Setup display.

<table>
<thead>
<tr>
<th>Installer Setup:</th>
</tr>
</thead>
<tbody>
<tr>
<td>***** CAUTION *****</td>
</tr>
<tr>
<td>SET CONTROL</td>
</tr>
<tr>
<td>Press + or - &amp; Enter</td>
</tr>
</tbody>
</table>

**Step 2**  Press ENTER The Set Control display will appear.

<table>
<thead>
<tr>
<th>Set &quot;CONTROL&quot; to OFF</th>
</tr>
</thead>
<tbody>
<tr>
<td>Schedule MON-SUN</td>
</tr>
<tr>
<td>From 00:00A To 00:00P</td>
</tr>
<tr>
<td>Press + or - &amp; Enter</td>
</tr>
</tbody>
</table>

**Step 3**  Press +/- and the number keys to set the status for this location.

**Step 4**  Press ENTER or ∞, and then use the +/- keys to set the days of the week for this detection point to be controlled.

**Step 5**  Press ENTER or ∞, and then use the number keys to set the times for this location to be controlled.

<table>
<thead>
<tr>
<th>Option</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTO</td>
<td>AUTO permits the timed scheduling of opening and closing times for the events that are assigned CON in the Assign Locations display.</td>
</tr>
<tr>
<td>MANUAL</td>
<td>MANUAL permits the store to control opening and closing of the events through the activation of a remote switch.</td>
</tr>
<tr>
<td>OFF</td>
<td>No independent control is set.</td>
</tr>
</tbody>
</table>
Only events that have been assigned CON in the Assign Locations display (see page 77) will appear on the Set Control display.

Controlled events will open at the Controlled schedule or store opening, whichever is later.

**Hint!** Controlled events will close at the Controlled schedule time or store close, whichever is earlier.

**Step 6** Press **EXIT** to accept changes and return to the Set Up System Menus display.
Assign Locations

When the system is set up, you must assign a function (On, Off, Independent, Greet, etc.) to each detection point. You must also assign a name to each point (Menu, Service, Cashier, etc.). Follow the instructions below to complete these setup activities using the ASSIGN LOCATIONS displays.

**Step 1**  Press +/- until ASSIGN LOCATIONS appears on the selection line of the Installer Setup display.

![Installer Setup Display]

**Step 2**  Press ENTER to accept this selection.

The first display in the Assign Locations sequence allows you to enter the function, name, and delay time for detection points 1 and 2.

**NOTE:** The system will display the proper menus for the number of lanes entered in the Number of Lanes display.

The system allows the following settings for each detection point:

<table>
<thead>
<tr>
<th>Setting</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>ON</td>
<td>Always active during open hours.</td>
</tr>
<tr>
<td>OFF</td>
<td>Not used.</td>
</tr>
<tr>
<td>CON</td>
<td>Controlled by a remote switch or by the event control schedule. Typically used for peak hour lanes in multi-lane locations.</td>
</tr>
<tr>
<td>ALT</td>
<td>ALERT tone only, does not count for reports.</td>
</tr>
<tr>
<td>IND</td>
<td>INDEPENDENT is assigned when times will be recorded and reported but not calculated into the total time. IND will always be assigned to the Wait Area and can be assigned to a Pre-alert, Alert or Pre-Warning detection point.</td>
</tr>
<tr>
<td>GRT</td>
<td>When GREET is assigned, the audio is connected to the detection point instead of a vehicle detector. Note: If GRT is selected the appropriate switch on S19 of the circuit board must be selected.</td>
</tr>
</tbody>
</table>
Step 3  Press +/- to select a setting for each detection point in the system.
Press ENTER to move to the NAME field.

Step 4  Press +/- to select a Name to assign to each detection point in the system.
Event name options are listed on the next two pages.

Step 5  Press ENTER to accept the Name entry and move to the Delay Time field.

Step 6  Use the number keys to set a Delay Time (0-9 seconds) for each detection point.

The detection delay allows you to eliminate delays that employees are not responsible for, such as a delay at the menu board to permit the customer to roll down the window or a delay at the cashier's station to permit the customer to get their money out.

Event Names: One- Lane Location

The system allows you to assign any of a set of pre-programmed names to each detection point in the system. The table below lists the available names for a one-lane system.

<table>
<thead>
<tr>
<th>Location Name</th>
<th>System 30 Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARRIVAL</td>
<td>ARRIVAL</td>
</tr>
<tr>
<td>ALERT</td>
<td>ALERT</td>
</tr>
<tr>
<td>BOOTH</td>
<td>BOOTH</td>
</tr>
<tr>
<td>CASHIER</td>
<td>CASHER</td>
</tr>
<tr>
<td>DELIVERY</td>
<td>DELIVRY</td>
</tr>
<tr>
<td>GREET</td>
<td>GREET</td>
</tr>
<tr>
<td>MENU BOARD</td>
<td>MENU</td>
</tr>
<tr>
<td>ORDER POINT</td>
<td>ORDERPT</td>
</tr>
<tr>
<td>ORDER POINT 1</td>
<td>ORDER 1</td>
</tr>
<tr>
<td>ORDER POINT 2</td>
<td>ORDER 2</td>
</tr>
<tr>
<td>PRE-ALERT</td>
<td>PRE-ALT</td>
</tr>
<tr>
<td>PRE-LOOP</td>
<td>PRE-LP</td>
</tr>
<tr>
<td>PRESENTER</td>
<td>PRESNTR</td>
</tr>
<tr>
<td>PRE-WARNING</td>
<td>P WARN</td>
</tr>
<tr>
<td>SERVICE</td>
<td>SERVICE</td>
</tr>
<tr>
<td>WAIT AREA</td>
<td>WAIT AR</td>
</tr>
<tr>
<td>WINDOW 1</td>
<td>WINDOW1</td>
</tr>
<tr>
<td>WINDOW 2</td>
<td>WINDOW2</td>
</tr>
<tr>
<td>PICKUP WINDOW</td>
<td>PICKUP</td>
</tr>
</tbody>
</table>

The same name cannot be assigned to more than one location!
Assigning Names in a One-Lane Location:

The following sample screens show how a one-lane system with six detection points could be set up.

**Step 1**  Press +/- until ASSIGN LOCATIONS appears on the selection line of the Installer Setup display.

**Step 2**  Press ENTER to accept this selection.

**Step 3**  Press +/- to select a setting for each detection point. Press ENTER or f to move to the Name field.

**Step 4**  Press +/- to choose a name for each detection point. Press ENTER or f to move to the Delay Time field.

**Step 5**  Use the number keys to enter a Delay Time for each detection point.

**Step 6**  Press ENTER or f to move to the next display.
Step 7  Press ENTER or \( \pm \) to move to the next display.

Assign Locations (p3)
V5 = ON / SERVICE DL0
V6 = IND / WAIT AR DL0
Press + or - & Enter

**NOTE:** GREET cannot come before MENU.

Step 8  Press EXIT when all detection points in the system have been set.

*There will be a brief delay while the system is being configured.
The system will then return to the Installer Setup display.*

Installer Setup:

***** CAUTION *****
ASSIGN LOCATIONS
Press + or - & Enter

\( \uparrow \) If you are done, press EXIT to return to the Standby display.
Event Names: Two-Lane Location

The system allows you to assign any of a set of pre-programmed names to each detection point in the system. The table below lists the available names for a two-lane system.

<table>
<thead>
<tr>
<th>Location Name</th>
<th>System 30 Abbreviation</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARRIVAL 1</td>
<td>ARVL 1</td>
</tr>
<tr>
<td>ARRIVAL 2</td>
<td>ARVL 2</td>
</tr>
<tr>
<td>ALERT 1</td>
<td>ALT 1</td>
</tr>
<tr>
<td>ALERT 2</td>
<td>ALT 2</td>
</tr>
<tr>
<td>PRE-ALERT 1</td>
<td>P-ALT 1</td>
</tr>
<tr>
<td>PRE-ALERT 2</td>
<td>P-ALT 2</td>
</tr>
<tr>
<td>PRE-LOOP 1</td>
<td>P-LP 1</td>
</tr>
<tr>
<td>PRE-LOOP 2</td>
<td>P-LP 2</td>
</tr>
<tr>
<td>PRE-WARNING 1</td>
<td>PW 1</td>
</tr>
<tr>
<td>PRE-WARNING 2</td>
<td>PW2</td>
</tr>
<tr>
<td>BOOTH 1</td>
<td>BOOTH 1</td>
</tr>
<tr>
<td>BOOTH 2</td>
<td>BOOTH 2</td>
</tr>
<tr>
<td>CASHIER 1</td>
<td>CASHR 1</td>
</tr>
<tr>
<td>CASHIER 2</td>
<td>CASHR 2</td>
</tr>
<tr>
<td>DELIVERY 1</td>
<td>DLVRY 1</td>
</tr>
<tr>
<td>DELIVERY 2</td>
<td>DLVRY 2</td>
</tr>
<tr>
<td>GREET 1</td>
<td>GREET 1</td>
</tr>
<tr>
<td>GREET 2</td>
<td>GREET 2</td>
</tr>
<tr>
<td>MENU BOARD 1</td>
<td>MENU 1</td>
</tr>
<tr>
<td>MENU BOARD 2</td>
<td>MENU 2</td>
</tr>
<tr>
<td>ORDER POINT 1</td>
<td>ORDER 1</td>
</tr>
<tr>
<td>ORDER POINT 2</td>
<td>ORDER 2</td>
</tr>
<tr>
<td>PRESENTER1</td>
<td>PRSNT 1</td>
</tr>
<tr>
<td>PRESENTER2</td>
<td>PRSNT 2</td>
</tr>
<tr>
<td>SERVICE 1</td>
<td>SERV 1</td>
</tr>
<tr>
<td>SERVICE 2</td>
<td>SERV 2</td>
</tr>
</tbody>
</table>
Assigning Names in a Two-Lane Location:

The following sample screens show how a two-lane system with six detection points could be set up.

**Step 1**  Press +/- until ASSIGN LOCATIONS appears on the selection line of the Installer Setup display.

```
Installer Setup:
***** CAUTION *****
ASSIGN LOCATIONS
Press + or - & Enter
```

**Step 2**  Press ENTER to accept this selection.

```
Assign Locations(p1)
V1 = ON / MENU 1 DL0
V2 = ON / MENU 2 DL0
Press + or - & Enter
```

**Step 3**  Press ENTER or → to move to the next display.

```
Assign Locations(p2)
V3 = ON / CASHR 1 DL0
V4 = ON / CASHR 2 DL0
Press + or - & Enter
```

**Step 4**  Press ENTER or → to move to the next display.

```
Assign Locations(p3)
V5 = OFF / ____ DLO
V6 = OFF / ____ DLO
Press + or - & Enter
```

**Step 5**  Press EXIT when all detection points in the system have been set.

*There will be a brief delay while the system is being configured.*
*The system will then return to the Installer Setup display.*

```
Installer Setup:
***** CAUTION *****
ASSIGN LOCATIONS
Press + or - & Enter
```

If you are done, press EXIT to return to the Standby display.
Event Names: Six-Lane Location

The system allows you to assign any of a set of pre-programmed names to each detection point in the system. The table below lists the available names for a six-lane system.

<table>
<thead>
<tr>
<th>LANE 1</th>
<th>LANE 2</th>
<th>LANE 3</th>
<th>LANE 4</th>
<th>LANE 5</th>
<th>LANE 6</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOOTH 1</td>
<td>BOOTH 2</td>
<td>BOOTH 3</td>
<td>BOOTH 4</td>
<td>BOOTH 5</td>
<td>BOOTH 6</td>
</tr>
<tr>
<td>TELLER 1</td>
<td>TELLER 2</td>
<td>TELLER 3</td>
<td>TELLER 4</td>
<td>TELLER 5</td>
<td>TELLER 6</td>
</tr>
</tbody>
</table>

Assigning Names in a Six-Lane Location:

The following sample screens show how a six-lane system with six detection points could be set up.

**Step 1**
Press +/- until ASSIGN LOCATIONS appears on the selection line of the Installer Setup display.

**Step 2**
Press ENTER to accept this selection.

**Step 3**
Press ENTER or \( f \) to move to the next display.
Press **ENTER** or * to move to the next display.

**Step 4**

Assign Locations (p2)

V3 = **ON** / LANE 3 DL0

V4 = **ON** / LANE 4 DL0

Press + or - & Enter

Assign Locations (p3)

V5 = **ON** / LANE 5 DL0

V6 = **ON** / LANE 6 DL0

Press + or - & Enter

**Step 5**

Press **EXIT** when all detection points in the system have been set. The system will then return to the Installer Setup display.

Installer Setup:

***** CAUTION *****

ASSIGN LOCATIONS

Press + or - & Enter

**Step 6**

If you are done, press **EXIT** to return to the Standby display.
Set Number of Lanes

This function allows the user to tell the system the number of lanes in the store location.

**Step 1**  Press +/- until NUMBER OF LANES appears on the selection line of the Installer Setup display.

![Installer Setup: ***** CAUTION *****
SET NUMBER OF LANES
Press + or - & Enter]

**Step 2**  Press ENTER to accept this selection.
The system will ask you to select the number of lanes for this location.

![Set Number of Lanes: 1
(1, 2, or 6)
Press # and EXIT]

**Step 3**  Press the number keys to enter the number of lanes.

**Step 4**  Press EXIT to accept the setting and return to the Installer Setup display.

*In a six-lane store location, individual lanes can be turned off.*

**Hint!**
Resetting Defaults

The system can be reset to the factory defaults.

**NOTE:** Resetting the system will erase all user-programmed settings and car data.

**Step 1**  From the Standby display, press the Set Up System key.

```
12:34:12P  N N N N N
Service Time = 01:32
Cars in Lane = 6
Total Time = 2.32
```

**Step 2**  Press +/- until INSTALLER SETUP is displayed.

```
Set Up System Menus:
INSTALLER SETUP
Press + or - & Enter
```

**Step 3**  Press ENTER  The Installer Warning display will appear.

```
CHANGES TO INSTALLER SETUP WILL DELETE HISTORICAL RECORDS!
PRESS EXIT OR ENTER.
```
Step 4  
Press **ENTER**. The Installer Setup display appears. 
Press +/- until DEFAULT PROGRAM is displayed.

![Installer Setup: ***** CAUTION *****
DEFAULT PROGRAM
Press + or - & Enter]

Step 5  
Press **ENTER**. The Reset System display appears.

Step 6  
Press +/- to choose Yes or No. No is the default.

![Reset system to DEFAULT SETTINGS?
YES
Press + or - & Enter]

*A warning message will be displayed if you request a system reset.*

![DEFAULTING SYSTEM WILL ERASE CUSTOMER SETTINGS AND DATA!
pres exit or ENTER]

Step 7  
Press **ENTER** to reset the system, or press **EXIT** to cancel the system reset.

Step 8  
Press **EXIT** until the system returns to the Standby display.

![12:34:12P N N N N
Service Time = 0:00
Cars in Lane = 0
Total Time = 0.00]
APPENDIX B
PC Interface Setup

You must have an HME PC30 to use the System 30 with a Personal Computer (PC).

To interface the System 30 with a personal computer serial port, you must have an RS232 interface (Null Modem) cable. If you do not, it can be purchased at most computer stores or from HME. The cable must be connected to the 9-pin connector on top of the System 30 control unit, and to the RS232 serial port on the PC. Pin connections for the cable wires must be as shown in Figure 14, below.

If you have any questions please contact HME at 1-800-848-4468.

Figure 14. RS232 connectors
APPENDIX C
Quick Reference Guide for
System 30 Firmware Version 1.01

FIRST-TIME SETUP

STORE IS CLOSED!
(Press + or – keys to view other screens)

Set Up System Menus:
DRIVE-THRU MANAGER
Press + or – & ENTER

Set Up System Menus:
SYSTEM SETUP
Press + or – & ENTER

System Setup:
SET DATE/TIME
Press + or – & ENTER

Date/Time
Date: JAN 24, 97
Time: 07:57A
Daylight Sav: YES

Set Up System Menus:
SYSTEM SETUP
Press + or – & ENTER

Set Up System Menus:
INSTALLER SETUP
Press + or – & ENTER

Enter Installer Password for access to INSTALLER SETUP.

INCORRECT PASSWORD
TRY AGAIN
ENTER PASSWORD

Maximum Access Code Trys Exceeded!
Key Pad Locked for 5 Minutes!

IN-OPERATION SETUP

Set Up System Menus:
INSTALLER SETUP
Press + or – & ENTER

Enter Installer Password for access to INSTALLER SETUP.

INCORRECT PASSWORD
TRY AGAIN
ENTER PASSWORD

Maximum Access Code Trys Exceeded!
Key Pad Locked for 5 Minutes!
SET UP SYSTEM

Set Up System Menus:
DRIVE-THRU MANAGER
Press + or - & ENTER

Press +/- to view options and press ENTER to select:
DRIVE-THRU MANAGER
PRINT PROGRAMMING
RUN DIAGNOSTICS
SYSTEM SETUP
INSTALLER SETUP

Drive-Thru Manager

Drive-Thru Manager.
RESET DETECTOR
Press + or - & ENTER

Press +/- to view options and press ENTER to select:
RESET VEHICLE DETECTOR
DELETE FIRST CAR IN LANE

Press ENTER to
RESET VEHICLE DETECTOR(s)

DELETE FIRST CAR IN LANE: 1
Press # Keys & ENTER

Print Programming

Print Programming Menus:
Print: SYSTEM
Setup Listing
Press + or - & ENTER

Press +/- to view options and press ENTER to select:
Installer
System
Dayparts & Shifts
Service Goals
Report Schedule
ALL

Run Diagnostics

Run Diagnostics:
LCD DISPLAY
Press + or - & ENTER

Press +/- to view options and press ENTER to select:
Keypad
LCD Display
Printer
Remote
SYSTEM SETUP

System Setup:
STORE HOURS
Press + or - & ENTER

Press +/- to view options and press ENTER to select:
   Date & Time
   Store Hours
   Accounting
   Access Codes

Access Codes

Set Up System Menus
CHANGE ACCESS CODES
Press + or - & ENTER

Press +/- to view options and press ENTER to select:
   Report Access Code
   Manager Access Code

Date & Time

System Setup:
SET DATE & TIME
Press + or - & ENTER

Dates/Time
Date: JAN 24, 96
Time: 07:57 A
Daylight Sav: YES

Change Report Access Code

To Select Access Code
To Be Changed:
   REPORT
Press + or - & ENTER

Change REPORT Code:
Enter New code:____
Retype New code:____
Press # keys & ENTER

Store Hours

System Setup:
STORE HOURS
Press + or - & ENTER

Store Hours:
For day= ALL
   06:00 A - 11:30 P
Press + or - & ENTER

Change Manager Access Code

To Select Access Code
To Be Changed:
   MANAGER
Press + or - & ENTER

Change MANAGER Code:
Enter New code:____
Retype New code:____
Press # keys & ENTER

Set Up Accounting

Set Up System Menus
SET UP ACCOUNTING
Press + or - & ENTER

Set Up Accounting:
Begin: Week MON
Fiscal Yr JAN 01
StoreID#:12345678
INSTALLER SETUP

Set Up System Menus
Press + or – & ENTER

Enter Installer
Password for access
to INSTALLER SETUP
Code: ______

CHANGES TO INSTALLER SETUP WILL DELETE HISTORICAL RECORDS
Press EXIT or ENTER

INSTALLER SETUP
***** CAUTION *****
DELETE UNDER 4 SECS
Press + or – & ENTER

Press +/- to view options and press ENTER to select:
SET PRINTER OPTION
DELETE UNDER 4 SECS
SET UP LANE
SET CONTROL
NUMBER OF LANES
ASSIGN LOCATIONS
DEFAULT PROGRAM

Set Printer Option

Press +/- to view options and press ENTER to select:
Internal
External
None

Set Printer Option:
Printer: INTERNAL
Press + or – & ENTER

Delete under 4 Secs

Discard <4 Sec Vehs:
At start of Total: YES
At end of Total: NO
Press + or – & ENTER

Set up Lane

Set Up Lane:
Max Serv Idle 01:00
& Delay Time 02:00
Max Cars in Lane 15

Set Number of Lanes

Set Number of Lanes: 1
(1, 2, or 6)
Press # Keys & ENTER

Assign Locations

Set each location to ON, OFF, CON, ALT, IND, or GRT.
Set name per pages 77-84

Assign Locations (p1)
V1= ALT /P-WARN DLQ
V2= ON /MENU DLQ
Press + or – & ENTER

Assign Locations (p2)
V3= GRT /GREET DLQ
V4= ON /CASHER DLQ
Press + or – & ENTER

Assign Locations (p3)
V5= ON /SERVICE DLQ
V6= IND /WAIT AR DLQ
Press + or – & ENTER

Set Control

Set CONTROL to OFF
Schedule MON-SUN
From 00:00A To 00:00P
Press + or – & ENTER
Resetting the Defaults

Reset system to DEFAULT SETTINGS
NO
Press + or - & ENTER

DEFAULTING SYSTEM WILL ERASE CUSTOMER SETTINGS & DATA!
Press EXIT or ENTER

Dayparts & Shifts

Set Up Dayparts/ Shifts Menus:
DAYPARTS
Press + or - & ENTER

Dayparts

Set Up Dayparts (p1)
01=07:30A 02=09:00A
03=11:30A 04=01:30P
Press # Keys & ENTER

Set Up Dayparts (p2)
05=04:00P 06=07:30P
07=09:00P 08=OFF
Press # Keys & ENTER

Set Up Dayparts (p3)
09=OFF 10=OFF
11=OFF 12=OFF
Press # Keys & ENTER

Shifts

Set Up Shifts:
1, 07:30A / 11:30A
2, 11:30A / 01:00P
3, 04:00P / 11:00P

SET UP GOALS

Set Up Service Goals Menus:
MASTER SERVICE GOALS
Press + or - & ENTER

Press +/- to view options and press ENTER to select:
MASTER SERVICE GOALS
DAYPART SERVICE GOALS
SET UP EVENT TONES
REMOTE DISPLAYS
REMOTE STANDBY DISP
ALARMS

Master Service Goals

Set Up Service Goals Menus:
MASTER SERVICE GOALS
Press + or - & ENTER

Set Master Service Goals for:
MENU
Press + or - & ENTER

Master Service Goals
MENU
A=00:30
B=01:00 C=1:00 D=1:00
Press # Keys & ENTER
Daypart Service Goals

Set Up Service Goals
Menus:
DAYPART SERVICE GOALS
Press + or – & ENTER

Set Daypart Service Goals for:
TOTAL
Press + or – & ENTER

Daypart 01 SERVICE
00:00 - 00:00 MON
Goals
A = 1:00
B = 0:00
C = 1:00
D = 1:00

Remote Displays

Set Up Service Goals
Menus:
SET UP EVENT TONES
Press + or – & ENTER

Event Tone: MENU
Begins: OFF Beeps: 1
Arrival Tone: OFF
Press + or – & ENTER

Set Up Service Goals
Menus:
DISPLAY FLASH
Press + or – & ENTER

Set Display:
Event: TOTAL
Flash at: C
Press + or – & ENTER

Remote Display Standby Mode

Set Up Service Goals
Menus:
REMOTE STANDBY DISP
Press + or – & ENTER

Remote Standby Mode:
Display Average Time
for: DAYPART
Press + or – & ENTER

Set Alarms

Set Up Service Goals
Menus:
SET ALARMS
Press + or – & ENTER

Set Alarm To: ON
for: MENU Goal : B
Duration _, __ Rpt : __
Press + or – and ENTER

REPORTS

Schedule Auto Report
Select report:
DAYPART
Press + or – & ENTER

Press +/- to view options and press ENTER to select:
EVERY CAR
HOUR
DAYPART
SHIFT
DAY
WEEK
MONTH
YEAR-TO-DATE
DETECTION ACTIVITY
TRANSFER DATA
Every Car

Schedule Auto Report
Select report, EVERY CAR REPORT
Press + or - & ENTER

Every Car Report: OFF
Will Continue To
Print until Stopped
Press + or - & ENTER

Day

Schedule Auto Report
Select report, DAY REPORT
Press + or - & ENTER

Day Report: ON
Range: MON - SUN
Print: 12:00 P
Press + or - & ENTER

Hour

Schedule Auto Report
Select report, HOUR REPORT
Press + or - & ENTER

Hour Report: OFF
Ranges: (From - To)
07A - 09A & 11A - 02P
Press + or - & ENTER

Week

Schedule Auto Report
Select report, WEEK REPORT
Press + or - & ENTER

Week Report: OFF
Print: 00:00 A
Press + or - & ENTER

Daypart

Schedule Auto Report
Select report, DAYPART
Press + or - & ENTER

Daypart Report: OFF
Dayparts:
01-12 & 00-00
Press + or - & ENTER

Month

Schedule Auto Report
Select report, MONTH REPORT
Press + or - & ENTER

Month Report: OFF
Print: 12:00 P
Press + or - & ENTER

Shift

Schedule Auto Report
Select report, SHIFT REPORT
Press + or - & ENTER

Shift Report: OFF
Include Shifts: 1, 2, 3
Press + or - & ENTER

Year-to-date

Schedule Auto Report
Select report, YEAR-TO-DATE
Press + or - & ENTER

Year-to-Date: OFF
Will print at end of month & year.
Press + or - & ENTER