System 30

Drive-Thru Timer System

Operating Instructions

For Software Version A.2.1*
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I. GENERAL

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 or two-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 an active detection point until its departure from the same or another selected 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.

**Raw car data:** Data automatically stored by the System 30 for each time a vehicle passes a detection point. The raw car database includes all raw car data collected over a period of time, that is used by the System 30 in compiling reports.
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 84 for more information about detection point names.

NOTE: In a one-lane drive-thru, you can select up to 6 of the 7 detection points shown in Figure 1. You can also assign names to each detection point, from the list on page 84.
NOTE: In a two-lane drive-thru, you can assign names to each detection point, from the list on page 87.

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.
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 3 and 4.

1. Main Features

- **Control display** shows the menus and keypad entries when the system is being set up and in daily operation.

- **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.

- **Printer** is used to print reports of timing event measurements. Inside the printer cover are instructions for loading or reordering printer paper.

- **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.

- **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 4. System 30 control unit keypad](image)

- 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. Remote Display Units

Up to four Remote Display Units can be connected to the System 30. Each unit operates with a System 30 timer to display any one of eight timing events or average goal percentages. The R31S is the standard Remote Display Unit, but you may have any of the units described below.

1. R31S Remote Display

The R31S has a 2¼ inch (57.15 mm), single-sided, multicolor display.

2. R30S Remote Display

The R30S has a 2¼ inch (57.15 mm), single-sided, red display.

3. R30 Remote Display

The R30 has a 1 inch (25.4 mm), single-sided, red display.
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>Viewing the following types of On-Demand Reports</td>
<td>You can view any one of nine 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 records</td>
<td>Under certain traffic conditions, you will want to reset a vehicle detector</td>
</tr>
<tr>
<td></td>
<td>or delete a car from the system records.</td>
</tr>
<tr>
<td>Modifying the System Settings</td>
<td>As conditions and seasons change, you may want to modify the settings that</td>
</tr>
<tr>
<td></td>
<td>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 91).</td>
</tr>
</tbody>
</table>
B. Standby Display

The Standby display is the normal operating display. The display is different for one and two-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>ű</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>
<tr>
<td>Blinking G</td>
<td>The GREET INPUT detection point is active</td>
</tr>
</tbody>
</table>

Times on the Standby display will be shown in either minutes:seconds or seconds only, depending on the format selected in the Installer Setup.

The one-lane Standby display is shown below:

![One-lane display example]

SERVICE = Service time for the last car through the selected event, SERVICE*
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:

![Two-lane display example]

SER1/SER2 = Service time for the last car through the selected event, SERVICE*
Lane = The number of cars currently in the lane
Total = Total time for the last car through

* In this case, SERVICE is the name of the event assigned to the last detector. This label could have other event names, if the user assigns different event to the last detector, such as window or pickup, etc. For two-lane configuration, the event names are abbreviated by combining the first three letters with the last letter of the event name.
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.

*Times on the Mini Reports will be shown in either minutes:seconds or seconds only, depending on the format selected in the Installer Setup.*

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

**Hint!**

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.

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.
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>
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.

Times on the Standby display will be shown in either minutes:seconds or seconds only, depending on the format selected in the Installer Setup.

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

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

![Config: JUL 05,00 Pwr Up: JUL 05,00 Mk Date: JUL 05,00 Sys30: Ver A.2.10]

4. **Raw Car Database Status** shows the size of the memory containing the raw car data, the number of records stored in the raw car database and the start and end times.

![Car Database Times: JUN 26,00 02:38:59P 4Mb: 35000 records JUN 31,00 11:12:01A]
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 67.

Entering Your Access Codes

Access to the System 30 for making system setup changes and printing reports can be controlled by Access Codes (optional).

! 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 \( \text{^a} \) and \( \text{^f} \) 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>Flash Size</th>
<th>Lane Configuration</th>
<th>Detection points (except Alert) used for each lane</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>1 Mb</td>
<td>One Lane</td>
<td>14,000</td>
</tr>
<tr>
<td></td>
<td>Two Lane</td>
<td>14,000</td>
</tr>
<tr>
<td>4 Mb</td>
<td>One Lane</td>
<td>46,800</td>
</tr>
<tr>
<td></td>
<td>Two Lane</td>
<td>46,800</td>
</tr>
</tbody>
</table>

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

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.

[Image of Every Car Report interface]

**Step 2** Use the +/- and 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.*

*Times on the Standby display will be shown in either minutes:seconds or seconds only, depending on the format selected in the Installer Setup.*

12:34:12P  G N N
SERVICE = 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.

---

**Hint!**

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

**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
Please wait for Report..

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-----
```

Times on the report will be shown in either minutes:seconds or seconds only, depending on the format selected in the Installer Setup.
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 served within each goal, and Longest times for Menu, Service and Total times. This report also shows Total Pullouts, Average Queue Time, Cars Deleted Over Maximum Cars in lane, 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.

**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.*

*Times on the Standby display will be shown in either minutes:seconds or seconds only, depending on the format selected in the Installer Setup.*

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:

Times on the report will be shown in either minutes:seconds or seconds only, depending on the format selected in the Installer Setup.
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 served within each goal, and Longest times for Menu, Service and Total times. This report also shows Total Pullouts, Average Queue Time, Cars Deleted Over Maximum Cars in lane, Average Cars In the Lane, and system information (Power Fails, System resets and VDB Resets). If the report request is for more than one day, a daypart report will be printed with data covering the specified daypart for each of the requested days.

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

![Daypart Report: Daypart: 02, 09:00A
Dates: JAN, 14 JAN, 14
Print Report: START](image)

**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.*

*Times on the Standby display will be shown in either minutes:seconds or seconds only, depending on the format selected in the Installer Setup.*

![12:34:12P N N N N N
SERVICE = 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.
Example:

<table>
<thead>
<tr>
<th>Lane 1</th>
<th>Lane 2</th>
<th>Lane 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Cars = 2</td>
<td>Total Cars = 2</td>
<td>Total Cars = 2</td>
</tr>
<tr>
<td>Total (hh:mm) = 0:01</td>
<td>Total (hh:mm) = 0:01</td>
<td>Total (hh:mm) = 0:01</td>
</tr>
<tr>
<td>Average Time = 0:21</td>
<td>Average Time = 0:21</td>
<td>Average Time = 0:21</td>
</tr>
<tr>
<td>Cars &lt; 0:30 = 50%</td>
<td>Cars &lt; 0:30 = 50%</td>
<td>Cars &lt; 0:30 = 50%</td>
</tr>
<tr>
<td>Cars &lt; 1:00 = 50%</td>
<td>Cars &lt; 1:00 = 50%</td>
<td>Cars &lt; 1:00 = 50%</td>
</tr>
<tr>
<td>Longest time: 04/28/97 09:24:52A 0:35</td>
<td>Longest time: 04/28/97 09:22:27A 0:07</td>
<td>Longest time: 04/28/97 09:24:52A 0:37</td>
</tr>
</tbody>
</table>

Times on the report will be shown in either minutes:seconds or seconds only, depending on the format selected in the Installer Setup.
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 served within each goal, and Longest times for Menu, Service and Total times. This report also shows Total Pullouts, Average Queue Time, Cars Deleted over maximum cars in lane, 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.

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.

Times on the Standby display will be shown in either minutes:seconds or seconds only, depending on the format selected in the Installer Setup.

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  11:00:12A
Store ID: 0
From:MON 04/28/97 06:00A
To:MON 04/28/97 11:07A
Please wait for Report.

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

GREET 1
-------
Total Cars = 2
Total (hh:mm) = 0:02
Average Time = 0:53
Cars < 0:05 = 0% 0
Cars < 0:10 = 50% 1
Cars < 0:15 = 50% 1
Cars < 0:20 = 0% 0
Cars >= 0:20 = 0% 0
Longest time:
04/28/97 09:24:52A 1:07
04/28/97 09:22:27A 0:59

SERV 1
------
Total Cars = 2
Total (hh:mm) = 0:02
Average Time = 0:53
Cars < 0:30 = 50% 1
Cars < 1:00 = 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 = 0
Del. Over Max Cars = 0
Power Fails = 0
System Resets = 0
VDB Resets = 0

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

Times on the report will be shown in either minutes:seconds or seconds only, depending on the format selected in the Installer Setup.
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 served within each goal. This report also shows Total Pullouts, Cars Deleted over maximum cars in lane, Average Queue 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:
From: MAR 08
To: MAR 08
Print Report: START
```

**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.*

*Times on the Standby display will be shown in either minutes:seconds or seconds only, depending on the format selected in the Installer Setup.*

| 12:34:12P | G N N N N N Service = 01:32 |
| 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:

<table>
<thead>
<tr>
<th>Day Report</th>
<th>report title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MON 04/28/97 11:29:58A</td>
<td>current date and time</td>
</tr>
<tr>
<td>Store ID : 0</td>
<td>store identification number</td>
</tr>
<tr>
<td>From:MON 04/28/97 06:00A</td>
<td>report beginning time</td>
</tr>
<tr>
<td>To:MON 04/28/97 11:59P</td>
<td>report ending time</td>
</tr>
</tbody>
</table>

Please wait for Report...

**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

**GREET 1**

- Total Cars = 2
- Total (hh:mm) = 0:02
- Average Time = 0:03
- Cars < 0:00 = 0% 0
- Cars < 0:10 = 50% 1
- Cars < 0:15 = 50% 1
- Cars < 0:20 = 0% 0
- Cars < 0:30 = 0% 0
- Longest time:
  - 04/28/97 09:24:52A 1:07
  - 04/28/97 09:22:27A 0:59

**SERV 1**

- Total Cars = 2
- Total (hh:mm) = 0:02
- Average Time = 0:53
- Cars < 0:30 = 50% 1
- Cars < 1:00 = 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 < 2:30 = 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 = 0
- Del. Over Max Cars = 0
- Power Fails = 0
- System Resets = 0
- VDB Resets = 0

---End of Report---

*Longest time will be printed only if the day of this report is within the current raw car database.

Times on the report will be shown in either minutes:seconds or seconds only,
depending on the format selected in the Installer Setup.
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 served within each goal. This report also shows Total Pullouts, Cars Deleted Over Maximum in lane, Average Queue 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 +/- keys to select the DAYOFF or DAY ON option, then press ENTER.

The DAYOFF option will provide a report for the week selected. The DAY ON option will provide a report for the week selected, followed by daily reports for each day of the same week.

Step 3  Use the +/- keys to enter the beginning month, then press ENTER.

Use the number keys to enter the day and year. The system will automatically display the end date.

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

The Standby display will appear while the report is printing.

Times on the Standby display will be shown in either minutes:seconds or seconds only, depending on the format selected in the Installer Setup.

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

NOTE: Because the DAYOFF or DAY ON option, described in Step 2 above, allows Week Reports and Day Reports to be printed together, if you stop Week Reports and the printer keeps printing, you must also go to the Day Report display and stop the Day Report from printing.

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:

Times on the report will be shown in either minutes:seconds or seconds only, depending on the format selected in the Installer Setup.

*If the raw car database contains all records for the week of this report, the report will include longest times.

NOTE: If you selected the DAY ON option in Step 2, a separate report for each day of the week will
be printed following the Week Report. See page 26 for a sample Day 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 served within each goal. This report also shows Total Pullouts, Cars Deleted Over Maximum in lane, Average Queue 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.

Times on the Standby display will be shown in either minutes:seconds or seconds only, depending on the format selected in the Installer Setup.

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:

<table>
<thead>
<tr>
<th>Menu 1</th>
<th>Menu 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>First detection point in lane 1</td>
<td>First detection point in lane 2</td>
</tr>
<tr>
<td><strong>Total Cars</strong></td>
<td><strong>Total Cars</strong></td>
</tr>
<tr>
<td><strong>Total (h:mm)</strong></td>
<td><strong>Total (h:mm)</strong></td>
</tr>
<tr>
<td><strong>Average Time</strong></td>
<td><strong>Average Time</strong></td>
</tr>
<tr>
<td><strong>Cars &lt; 0:30</strong></td>
<td><strong>Cars &lt; 0:30</strong></td>
</tr>
<tr>
<td><strong>Cars &lt; 1:00</strong></td>
<td><strong>Cars &lt; 1:00</strong></td>
</tr>
<tr>
<td><strong>Cars &lt; 1:30</strong></td>
<td><strong>Cars &lt; 1:30</strong></td>
</tr>
<tr>
<td><strong>Cars &gt; 2:00</strong></td>
<td><strong>Cars &gt; 2:00</strong></td>
</tr>
<tr>
<td><strong>Total Lane 1</strong></td>
<td><strong>Total Lane 2</strong></td>
</tr>
<tr>
<td><strong>Total Cars</strong></td>
<td><strong>Total Cars</strong></td>
</tr>
<tr>
<td><strong>Average Time</strong></td>
<td><strong>Average Time</strong></td>
</tr>
<tr>
<td><strong>Cars &lt; 0:30</strong></td>
<td><strong>Cars &lt; 0:30</strong></td>
</tr>
<tr>
<td><strong>Cars &lt; 1:00</strong></td>
<td><strong>Cars &lt; 1:00</strong></td>
</tr>
<tr>
<td><strong>Cars &lt; 1:30</strong></td>
<td><strong>Cars &lt; 1:30</strong></td>
</tr>
<tr>
<td><strong>Avg Queue Time</strong></td>
<td><strong>Avg Queue Time</strong></td>
</tr>
<tr>
<td><strong>Avg Cars In Lane</strong></td>
<td><strong>Avg Cars In Lane</strong></td>
</tr>
<tr>
<td><strong>Del. Over Max Cars</strong></td>
<td><strong>Del. Over Max Cars</strong></td>
</tr>
<tr>
<td><strong>Total Pullouts</strong></td>
<td><strong>Total Pullouts</strong></td>
</tr>
<tr>
<td><strong>System Resets</strong></td>
<td><strong>System Resets</strong></td>
</tr>
<tr>
<td><strong>VBR Resets</strong></td>
<td><strong>VBR Resets</strong></td>
</tr>
</tbody>
</table>

Times on the report will be shown in either minutes:seconds or seconds only, depending on the format selected in the Installer Setup.

*If the raw car database contains all records for the week of this report, the report will include longest times.*
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 served within each goal. This report also shows Total Pullouts, Cars Deleted Over Maximum in lane, Average Queue 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.

```
8  Year-To-Date Report:
  Print Report: START
```

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

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

```
12:34:12P   G   N   N   N
SERVICE = 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:** Year-To-Date Reports can be retrieved for up to one year (365 days) back.
Example:

```
<table>
<thead>
<tr>
<th>Year-To-Date Report</th>
</tr>
</thead>
<tbody>
<tr>
<td>MON 04/28/97 11:42</td>
</tr>
<tr>
<td>Store ID: 0</td>
</tr>
<tr>
<td>From:WED 01/01/97 06:00A</td>
</tr>
<tr>
<td>To:WED 04/28/97 11:42</td>
</tr>
</tbody>
</table>

**MENU 1**

- **Total Cars**: 7311
- **Total (hrs/minutes)**: 109:22
- **Average Time**: 0:53
- **Cars < 0:30**: 18% 1308
- **Cars < 1:00**: 34% 2499
- **Cars < 1:30**: 46% 3373
- **Cars < 2:00**: 1% 67
- **Cars > 2:00**: 1% 74

**SERV 1**

- **Total Cars**: 7317
- **Total (hrs/minutes)**: 98:43
- **Average Time**: 0:48
- **Cars < 0:30**: 28% 1781
- **Cars < 1:00**: 44% 2909
- **Cars < 1:30**: 66% 1723
- **Cars >= 1:30**: 1% 57

**MENU 2**

- **Total Cars**: 6570
- **Total (hrs/minutes)**: 77:10
- **Average Time**: 0:42
- **Cars < 0:30**: 29% 1881
- **Cars < 1:00**: 44% 2909
- **Cars < 1:30**: 66% 1723
- **Cars >= 1:30**: 1% 57

**SERV 2**

- **Total Cars**: 6570
- **Total (hrs/minutes)**: 77:10
- **Average Time**: 0:42
- **Cars < 0:30**: 29% 1881
- **Cars < 1:00**: 44% 2909
- **Cars < 1:30**: 66% 1723
- **Cars >= 1:30**: 1% 57

**Total Lane 1**

- **Total Cars**: 7317
- **Average Time**: 0:42
- **Cars < 1:30**: 3% 203
- **Cars < 3:00**: 60% 4418
- **Cars < 5:00**: 93% 2319
- **Cars < 7:00**: 4% 287
- **Cars >= 7:00**: 1% 90
- **Avg Queue Time**: 1:26
- **Avg Cars In Lane**: 3
- **Total Pullouts**: 18
- **Del/Over Max Cars**: 0

**Total Lane 2**

- **Total Cars**: 6570
- **Average Time**: 0:42
- **Cars < 1:30**: 100% 6570
- **Avg Queue Time**: 1:23
- **Avg Cars In Lane**: 1
- **Total Pullouts**: 0
- **Del/Over Max Cars**: 0

**System Summary**

- **Power Failures**: 0
- **System Resets**: 0
- **VDB Resets**: 0

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

Times on the report will be shown in either minutes:seconds or seconds only, depending on the format selected in the Installer Setup.

*If the raw car database contains all records for the week of this report, the report will include longest times.*
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.

![Set Up System Menus: DRIVE-THRU MANAGER.
Press + or - & ENTER](image)

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.

![Drive-Thru Manager: RESET DETECTOR
Press + or - & ENTER](image)

This display offers two options:

<table>
<thead>
<tr>
<th>Option</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>RESET 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 DETECTOR(s)** appears on the Drive-Thru Manger display. The system will then return to the Standby display (or mini report or status report).

**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 IN LANE** 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 (or mini report or status report).
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>58</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>73</td>
</tr>
</tbody>
</table>
1. **Schedule Your Automatic Reports**

You can set the system to print any of the system reports automatically. Automatic Reports are identical to On-Demand Reports.

**Step 1**

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

![Schedule Auto Report Screen](image)

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 43  
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 appears on the Schedule Auto Report display.

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

**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.

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

**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.
Schedule Hour Report

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

```
Schedule Auto Report
Select report,
HOUR
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.

*Entering zero (0) for any time will automatically turn that range OFF.*

**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.

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

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

<table>
<thead>
<tr>
<th>Daypart Report: OFF</th>
<th>Dayparts:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>01-12 &amp; 00-00</td>
</tr>
<tr>
<td>Press # Keys &amp; ENTER</td>
<td></td>
</tr>
</tbody>
</table>

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

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

Entering zero (0) for any time will automatically turn that range OFF.

**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 appears on the Schedule Auto Report display.

| Schedule Auto Report | Select report, SHIFT | 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 ñ, and then use the number keys to enter the shifts to be included in the automatic report.

| ON | Report will print at end of each shift within the selected range. |
| OFF | Report will not automatically print. |

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 appears on the Schedule Auto Report display.

![Schedule Auto Report
Select report,
DAY
Press + or - & ENTER]

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

![Day Report: ON
Range: MON SUN
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 f, and then press +/- to select the first day for the report to print.

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

**Step 6** Press ENTER or f, and then press the number keys to enter the time the report will print after the store closes on the specified day(s).

**Step 7** Press ENTER to accept these settings, or EXIT to leave this menu.
Schedule Week Report

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

Step 2  Press ENTER. The Week Report display will appear.

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

Step 4  Press ENTER or  , 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 the +/- keys to set DAYON if you want an additional report for each day of the week selected.

Step 6  Press ENTER to accept these settings, or EXIT to leave this menu.
Schedule Month Report

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

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

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

```
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 EXIT, 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, or EXIT to leave this menu.

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 displays) appears. Times on the Standby display will be shown in either minutes:seconds or seconds only, depending on the format selected in the Installer Setup.

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 displays 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 60).

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 60).

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 `)` 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 `)` 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.

Step 12  Press EXIT to return to the Standby display (or mini report or status report).

Set Up Shifts

Step 1  Press EXIT until the Standby display appears.

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

Step 3  Press +/- to display SHIFTS.

Times on the Standby display will be shown in either minutes:seconds or seconds only, depending on the format selected in the Installer Setup.
Step 4  Press ENTER to select Shifts.
The Set Up Shifts display will appear.

<table>
<thead>
<tr>
<th>Shift</th>
<th>Start Time</th>
<th>Stop Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>07:30 A</td>
<td>11:30 A</td>
</tr>
<tr>
<td>2</td>
<td>11:30 A</td>
<td>01:00 P</td>
</tr>
<tr>
<td>3</td>
<td>04:00 P</td>
<td>11:00 P</td>
</tr>
</tbody>
</table>

Step 5  Use the number keys to enter the Start and Stop times for each shift.
Press ENTER or Æ 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 display appears.
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 or at the same time as the previous Shift.

The last programmed Shift must end at or before the closing time entered in the Store Hours display (see page 60).
3. Set Up Service Goals

**Step 1** Press **EXIT** until the Standby display appears.

Times on the Standby display will be shown in either minutes:seconds or seconds only, depending on the format selected in the Installer Setup.

<table>
<thead>
<tr>
<th>12:34:12P</th>
<th>G</th>
<th>N</th>
<th>N</th>
<th>N</th>
</tr>
</thead>
<tbody>
<tr>
<td>SERVICE</td>
<td>01:32</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cars in Lane</td>
<td>6</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Time</td>
<td>2:32</td>
<td></td>
<td></td>
<td></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, REMOTE STANDBY DISP, REMOTE STANDBY DISP, or SET ALARMS.

Set Up Service Goals Display

- MASTER SERVICE GOALS ............... go to page 49
- DAYPART SERVICE GOALS ............... go to page 51
- REMOTE DISPLAYS ..................... go to page 52
- REMOTE STANDBY DISP .................. go to page 58
- SET ALARMS ......................... go to page 59
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.

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

**Step 3** Press +/- to select the event for which goals need to be set, then press ENTER.

*You can set goals for the events programmed in the Assign Locations display, reviewed in Appendix A.*

**Step 4** Use the number keys to set the time for each category of work goals.

The minimum time for Goal A is 0:01 (one second).
Most systems will use only categories A and B.
Press ENTER or after each entry to move to the next field.

*Master Service Goals times will be shown and edited in either minutes:seconds or seconds only, depending on the format selected in the Installer Setup.*
Step 5

Press EXIT to return to the Set Master Service Goals display.

If you want to set goals for another event, press +/- to select another event, 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.

When Master Service Goals are changed, the changes automatically replace all previously set Daypart Service Goals as well. Individual Daypart Service Goals can then be changed to override the newly set 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 Service Goals Menus display.

Step 2 Press +/- to select DAYPART SERVICE GOALS, then press ENTER.

Step 3 Press +/- to select the daypart for which goals need to be set, then press ENTER.

Step 4 Use the number keys to enter a Daypart number for which you want to set a new goal. Service Goal times will be shown and edited in either minutes:seconds or seconds only, depending on the format selected in the Installer Setup.

Step 5 Press ENTER or F to move to the next field, “Goals for day.” Press +/- to select the day (or ALL for all days) to which the goals apply, then press ENTER to choose the selected day.

Step 6 Press ENTER or F to move through the time goal fields.

Step 7 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 (one second). 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, then press ENTER.

**Step 3** Press +/- to select SETUP RMT DISPLAYS, then press ENTER to edit the Remote Display number and mode.

**Step 4** Press the number keys to select a Remote Number, from 1 to 16, then press ENTER.

*Numbers 1-8 are for model R30 and R30S/D Remote Displays, or R31S Remote Displays in the R30mode. Numbers 9-16 are for R31S Remote Displays.*

**Step 5** Press +/- to select the Mode, then press ENTER.
Mode:

**AVERAGE ONLY**
In the Average Only mode, the Remote Display shows the AVERAGE time for the assigned event. The Remote Displays behave identically to the GOAL-AVG mode while the remote is in the Standby mode.

**GOAL-AVG/GOAL%** *(R31 Remote Display only)*
In the Goal-Average - Goal Percent Mode, the Remote Display shows the event times similar to the Goal-Average Mode. Unlike the Goal-Average Mode, this mode enables Remote Displays to provide additional information regarding the percentage of vehicles under and over the service goal for a given day or daypart.

**CARS IN LANE**
In the Cars In Lane mode the Remote Displays show the current number of cars in the specified lane. The Cars In Lane value is shown in the Over Goal color if the number of cars in lane is over a specified goal, or in the Under Goal color if the number of cars in lane is under the specified goal (colors are applicable ONLY to R31 remote displays). In addition, the Remote Display can be programmed to sound a beep based on the “Beep” goal.

**GOAL-AVG**
In the Goal-Average Mode, the Remote Display shows the event times as vehicles pass through the drive-thru lane. Event times occurring under or over a selected goal are distinguished by display cues such as solid or flashing (or in the case of R31S Remote Displays, in colors). In addition to display cues, alert tones can be played through the Remote Displays as critical event times occur. Finally, in the Goal-Average Mode, the Remote Displays can be programmed to display average event times for a day/daypart after the event times have been displayed for a fixed time without new event.

**GOAL PERCENT ONLY** *(R31 Remote Display only)*
In Goal Percent Only mode the Remote Display shows the current percentage of cars with a service goal below a specified goal. The Remote Displays can change color and sound alarm based on the specified Color Percent and Beep Percent values. Applies to R31 Remote Displays ONLY.

**DISABLED**
The Remote Display is completely disabled. The display is blank, with a single “blinking” dot.

**Start:**
Press the **ENTER** key to select START, to begin editing settings for the selected Remote Display number.
Editing Remote Displays in Goal-Average Mode:

The two displays for editing Remote Display settings for Goal-Average Mode are as follows:

<table>
<thead>
<tr>
<th>Rem 02: Goal_Avg p1</th>
<th>Rem 02: Goal_Avg p2</th>
</tr>
</thead>
<tbody>
<tr>
<td>EVENT Flash at: A</td>
<td>Change Color at: OFF</td>
</tr>
<tr>
<td>Tone at: A Beeps=1</td>
<td>Under-Goal = RED</td>
</tr>
<tr>
<td>Rpt = 0 Arrival: OFF</td>
<td>Over-Goal = GREEN</td>
</tr>
</tbody>
</table>

**Rem** refers to the number of the Remote Display previously selected.

**EVENT** selects one of the events defined in the ASSIGN LOCATIONS MENU, including menu, service total, etc. The remote display will display the event time for this entry.

**Flash at:** selects the goal at which the display will start flashing.

**Tone:** selects the goal at which the remote display will start toning.

**Beeps:** selects the number of tones (1, 2, 3 or 4) to be sounded when the goal is reached.

**Rpt:** selects the interval for tones to repeat after the last goal.

**Arrival:** selects sound ON or OFF when a car arrives.

**Change Color at:** selects the goal at which the display will change colors.

(Only applicable for R31 dual-color remote displays)

**Under-Goal:** selects the under-goal color.

(Only applicable for R31 dual-color remote displays)

**Over-Goal:** selects the over-goal color.

(Only applicable for R31 dual-color remote displays)
Editing Remote Displays for Goal-Average - Goal Percent Mode:
(R31 dual-color remote displays)

The four displays for editing Remote Display settings for Goal-Average - Goal Percent Mode are as follows:

```
Rem 09:Goal-Goal% p1
EVENT Flash Goal at: A
Tone Goal at: A Beeps=1
Rpt = 0 Arrival: OFF

Rem 09:Goal-Goal% p2
EVENT Change Color at: OFF
Under-Goal= RED
Over-Goal = GREEN

Rem 09:Goal-Goal% p3
Toggel=OFF Time=5
%EVENT %Goal = A
Disp GREEN if %<80

Rem 09:Goal-Goal% p4
Disp RED if over %
Standby Disp Time=00
Press + or - & ENTER
```

Rem refers to the number of the Remote Display previously set.

EVENT selects one of the events defined in the ASSIGN LOCATIONS MENU, including menu, service total, etc. The remote display will display the event time for this entry.

Flash Goal: selects the goal at which the display will start flashing.

Tone Goal: selects the goal at which the remote display will start toning.

Beeps: selects the number of tones (1 through 7) to be sounded when the goal is reached.

Rpt: selects the interval for tones to repeat after the last goal.

Arrival: selects sound ON or OFF when a car arrives.

Change Color Goal: selects the goal at which the display will change colors.

Under-Goal: selects the under-goal color.

Over-Goal: selects the over-goal color.

Toggle: selects whether the display will toggle or not (between average event time and percentage of cars under goal) after the event is finished timing.

Toggle Time: selects the amount of time in seconds that the display toggles.

%EVENT: selects one of the events defined in the ASSIGN LOCATIONS MENU, including menu, service total, etc. The remote display will compute percentage of cars over/under goal for this event.

%Goal: selects goal for percentage of cars over/under goal.

Disp color if under %__: selects color to be displayed for percentage of cars under/over goal that is under selected % goal.

Disp color if over %: selects color to be displayed for percentage of cars under/over goal that is over selected % goal.

Standby Display Time: selects the number of seconds (00 to 59) to transpire from the end of the chosen Remote Display event, until the Remote Standby Mode average time is displayed.
**Editing Remote Displays for Cars in Lane Mode:**

The two displays for editing Remote Display settings for Cars In Lane only mode are as follows:

<table>
<thead>
<tr>
<th>Rem XX: Cars/Lane p1</th>
<th>Rem XX: Cars/Lane p2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tone Max=10</td>
<td>Color Max Cars = 15</td>
</tr>
<tr>
<td>Rpt=00</td>
<td>Under Max = GREEN</td>
</tr>
<tr>
<td>Beeps=1</td>
<td>Over Max = RED</td>
</tr>
<tr>
<td>Lane=1</td>
<td></td>
</tr>
<tr>
<td>Flash Max Cars = 5</td>
<td></td>
</tr>
</tbody>
</table>

Rem refers to the number of the Remote Display previously set.

**Tone Max** selects the number of cars at which the Remote Display will start toning.

**Rpt** selects the interval for tones to repeat after the last goal.

**Beeps** selects the number of tones (1 through 7) to be sounded when the goal is reached.

**Lane** selects the lane for which the number of cars in lane will be monitored.

**Flash Max Cars** selects the number of cars at which the Remote Display will start flashing.

**Color Max Cars** selects the number of cars at which the Remote Display will change colors. (R31 dual-color remote displays)

**Under Max** selects the under goal color. (R31 dual-color remote displays)

**Over Max** selects the over goal color. (R31 dual-color remote displays)

**Editing Remote Displays for Average Only Mode:**

The display for editing Remote Display settings for Average Only Mode is as follows:

<table>
<thead>
<tr>
<th>Rem XX: Avg. Only Mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>EVENT</td>
</tr>
<tr>
<td>Goal: OFF</td>
</tr>
<tr>
<td>Under Goal: RED</td>
</tr>
<tr>
<td>Over Goal: GREEN</td>
</tr>
</tbody>
</table>

Rem refers to the number of the Remote Display previously set.

**EVENT** selects one of the events defined in the ASSIGN LOCATIONS MENU, including menu, service total, etc. The remote display will display the event time for this entry.

**Goal** selects the goal at which the Remote Display will change colors.

**Under Max** selects the under goal color. (R31 dual-color remote displays)

**Over Max** selects the over goal color. (R31 dual-color remote displays)
Editing Remote Displays for Goal Percent Only Mode:
(R31 dual-color remote displays)

The two displays for editing Remote Display settings for Goal Percent Only mode are as follows:

<table>
<thead>
<tr>
<th>Rem XX: Goal% Only</th>
<th>Rem XX: Goal% Only</th>
</tr>
</thead>
<tbody>
<tr>
<td>G</td>
<td>G</td>
</tr>
<tr>
<td>EVENT</td>
<td>% EVENT</td>
</tr>
<tr>
<td>%Goal = A</td>
<td>%Goal = A</td>
</tr>
<tr>
<td>Beeps = 7</td>
<td>Beeps = 7</td>
</tr>
<tr>
<td>Rpt = 59</td>
<td>Rpt = 59</td>
</tr>
<tr>
<td>Tone if %&gt; 100</td>
<td>Tone if %&gt; 100</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Rem ref</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Rem refers to the number of the Remote Display previously set.
EVENT selects one of the events defined in the ASSIGN LOCATIONS MENU, including menu, service total, etc. The remote display will display the event time for this entry.
Tone Max selects the number of cars at which the Remote Display will start toned.
Rpt selects the interval for tones to repeat.
Beeps selects the number of tones (1 through 7) to be sounded when the goal is reached.
%Goal selects the goal for percentage of cars over/under goal.
Disp color if <% selects the color to be displayed for percentage of cars under the selected % goal.
Disp color if over % selects the color to be displayed for percentage of cars over the selected % goal.

Editing Remote Standby Display:

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

Step 7 Press EXIT to return to the Set Up Service Goals Menus display. Press +/- to select REMOTE STANDBY DISP.

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

Step 8 Select either DAY or DAYPART for Period over which average event time is displayed.
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.

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

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

| Remote Standby Mode: |
| Display Average Time For: **DAYPART** |
| Press + or - & ENTER |

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

*Hint!*

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

**Step 3** Press +/- to set the alarm mode to:

**CARS IN LANE MODE:** The alarm is activated based on the number of cars in lane.

**EVENT TIME MODE:** The alarm is activated based on the time of the specified event. This mode is the same as software version 1.04 to 2.02 alarm in the ON mode.

**DISABLED MODE:** The alarm is off.

**Step 4** Select the Alarm mode and press ENTER.
Editing Alarm Settings for Event Time Mode:

<table>
<thead>
<tr>
<th>Alarm</th>
<th>Goal</th>
</tr>
</thead>
<tbody>
<tr>
<td>UNDER</td>
<td>Goal</td>
</tr>
<tr>
<td>Service</td>
<td>Goal: A</td>
</tr>
<tr>
<td>Duration: 1</td>
<td>Rpt: 00</td>
</tr>
<tr>
<td>Press + or - &amp; ENTER</td>
<td></td>
</tr>
</tbody>
</table>

**Alarm Goal** selects whether the alarm will be activated on the transition from Under to Over, or from Over to Under Goal.

**Event** selects one of the events defined in the ASSIGN LOCATIONS MENU, including menu, service total, etc.

**Goal** selects the goal at which the alarm is activated.

**Duration** selects the number of seconds to activate the alarm.

**Rpt** selects the interval for alarm activation to repeat.

Editing alarm settings for Cars In Lane Mode:

<table>
<thead>
<tr>
<th>Alarm</th>
<th>Goal</th>
</tr>
</thead>
<tbody>
<tr>
<td>UNDER</td>
<td>Goal</td>
</tr>
<tr>
<td>Max Cars = 99</td>
<td>Lane = 1</td>
</tr>
<tr>
<td>Duration: 1</td>
<td>Rpt: 00</td>
</tr>
<tr>
<td>Press + or - &amp; ENTER</td>
<td></td>
</tr>
</tbody>
</table>

**Max Cars** selects the number of cars at which the alarm will be activated.

**Lane** selects which lane will be monitored.

**Duration** selects the number of seconds to activate the alarm.

**Rpt** selects the interval for alarm activation to repeat.
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 62
Store Hours ............................... go to page 63
Set Up Accounting ....................... go to page 64
Change the Manager Access Code ...... go to page 65
Change the Reports Access Code ...... go to page 66
Print Programming ..................... go to page 67

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

**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 &amp; 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 System Setup options until SET 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 Set Up System 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 6, data will not be gathered until you reset to factory defaults as instructed under “Resetting Defaults” in Appendix A, page 88.
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 the day of the week, and then press +/- to enter the fiscal year start month.

**Step 5**
Press ENTER or the fiscal year start month, 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 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 display. The keypad will not lock up.

Times on the Standby display will be shown in either minutes:seconds or seconds only, depending on the format selected in the Installer Setup.
Changing the Reports Access Code

**NOTE:** In order to activate Report Access control, the Manager Access Code must first be programmed.

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.

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

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

You will have three chances to enter the correct code. After a third failed attempt, the system will switch to the Standby display. 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.

```
Setup 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.
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 control unit display:

- STORE IS CLOSED!
  (Press + or - to view other screens)
- SECURITY = 01:32
- Cars in Lane = 6
- Total Time = 2:32

or

- 12:34:12P
  SERVICE = 01:32
  Cars in Lane = 6
  Total Time = 2:32

Any remote display unit should initially display its own firmware version, and then display data which is determined by REMOTE DISPLAYS programming. If any remote display does not do so, check for loose wiring connections.

**NOTE:** If the store is closed, or if a remote display is program-disabled, only one flashing decimal point will appear on that 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. See Figure 4 on page 5 for location of the Reset switch inside the printer cover of the control unit.

Problem 3 — Cars not being detected

If cars are driving into the drive-thru lane, and no 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 7).

CAUTION: Unplug the AC adapter or disconnect J 2 before removing the ribbon cable from the printer circuit board.

Figure 8. System 30 PAPER FEED button
If the system loses its memory, the LOW BATTERY display will appear. 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 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 62 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.

<table>
<thead>
<tr>
<th>Run Diagnostics:</th>
</tr>
</thead>
<tbody>
<tr>
<td>LCD DISPLAY</td>
</tr>
<tr>
<td>Press + or - &amp; Enter</td>
</tr>
</tbody>
</table>

Step 4  Press +/- to select a diagnostic test to run. Test options include KEYPAD, LCD DISPLAY, PRINTER, and REMOTE.
Press ENTER again to choose the selected test. RUN will display.

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.

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.

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.

Figure 13.  Move platen  
away from jammed paper

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, Single-Sided, Multicolor Remote Display with 2¼ inch (57.15mm) display and 50 ft. (15 m.) Cable</td>
<td>R31S</td>
</tr>
<tr>
<td>System 30 Single-Sided Remote Display 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 2¼ inch (57.15mm) display and 50 ft. (15 m.) Cable</td>
<td>R30S</td>
</tr>
<tr>
<td>System 30 Dual-Side Remote Display with 2¼ inch (57.15mm) display and 50 ft. (15 m.) Cable</td>
<td>R30D</td>
</tr>
<tr>
<td>System 30 Single-Side Super-Bright Remote Display with 2¼ inch (57.15mm) display and 50 ft. (15 m.) Cable</td>
<td>R30SB</td>
</tr>
<tr>
<td>System 30 Dual-Side Super-Bright Remote Display with 2¼ inch (57.15mm) display and 50 ft. (15 m.) Cable</td>
<td>R30DB</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>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 (406 x 305 x 89 mm)
Weight: 3 lbs, 5 oz. (1.5 kg) maximum

R31S Remote Display, Multicolor, 2¼" LED
Dimensions: 4.75"H x 8.75"W x 2.28"D (120.65 x 222.25 x 57.15 mm)
Weight: 2 lb 8 oz (1.13 Kg)

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

Optional 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: 8 oz (.22 Kg)

Optional Remote Display Unit, 2¼" LED
Dimensions: 4¼"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.

**Setup System Menus:**
- INSTALLER SETUP
- Press + or - & Enter

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

**Enter Installer Password for access to INSTALLER SETUP.**
- Code: _ _ _ _ _ _

**Step 3**
Enter your Installer Password using the number keys and press **ENTER**.
A warning display will appear.

**Changes to INSTALLER SETUP will delete historical records!**
- Press EXIT or **ENTER**.

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

**Installer Setup:**
- ***** CAUTION *****
- DELETE UNDER 4 SECS
- Press + or - & Enter

**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, FORMAT SELECT and DEFAULT PROGRAM.

**Installer Setup Options**
1. Delete Vehicles Under 4 Seconds ........ go to page 77
2. Set Options .......................... go to page 78
3. Set Up Lane .......................... go to page 79
4. Set Control .......................... go to page 81
5. Assign Locations ...................... go to page 83
6. Set Number of Lanes ................... go to page 89
7. Select Format ........................ go to page 90
8. Reset Defaults ........................ go to page 91
9. Set Up Adjustable Total ................. go to page 92
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 Sec Vehs (discard vehicles under 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 three times to accept the setting and return to the Installer Setup display.
Set Options

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

![Installer Setup: ***** CAUTION ***** SET OPTION Press + or - & Enter]

**Step 2** Press ENTER to view the Printer option display.

![Options: Printer: INTERNAL Baud Rate: 38400 Press + or - & Enter]

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

<table>
<thead>
<tr>
<th>Field</th>
<th>Option</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>Printer</td>
<td>Internal*</td>
<td>Use the System 30 internal printer (for most systems).</td>
</tr>
<tr>
<td></td>
<td>External</td>
<td>Use an external printer.</td>
</tr>
<tr>
<td></td>
<td>None</td>
<td>Do not print.</td>
</tr>
<tr>
<td>Baud Rate</td>
<td>9600</td>
<td>Serial port is configured for 9600 bits/second.</td>
</tr>
<tr>
<td></td>
<td>19200</td>
<td>Serial port is configured for 19200 bits/second.</td>
</tr>
<tr>
<td></td>
<td>38400*</td>
<td>Serial port is configured for 38400 bits/second.</td>
</tr>
</tbody>
</table>

* default value

*For most systems, choose Internal.*

**Step 4** Press EXIT three times 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.

![Installer Setup: **** CAUTION ***** SET UP LANE Press + or - & Enter](image)

**Step 2**  Press ENTER. The Set Up Lane display will appear.

![Set Up Lane: Max Serv Idle :00:30 & Delay Time: DD:MM Max Cars in Q : 15](image)

*These times are in minutes:seconds only.*

**Step 3**  Press ENTER or \( \) , and then use the number keys to set the time duration desired.

**Step 4**  Press EXIT three times to accept this setting and return to the Installer Setup display.
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 00:30 (30 seconds).</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 01:00.</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 installations, where the second lane is 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.

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

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

<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>

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

**Step 5** Press ENTER or $f$, and then use the number keys to set the times for this location to be controlled.
Only events that have been assigned CON in the Assign Locations display (see page 83) will appear on the Set Control display.

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

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

**Hint!**

Step 6  Press **EXIT** three times to accept changes and return to the Installer Setup 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.

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>No detection point programmed.</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>GREET 1</td>
<td>GREET 1</td>
</tr>
<tr>
<td>GREET 2</td>
<td>GREET 2</td>
</tr>
<tr>
<td>MENU BOARD</td>
<td>MENU</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</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>PICKUP WINDOW</td>
<td>PICKUP</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>
</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 ø to move to the Name field.

**Step 4** Press +/- to choose a name for each detection point.
Press ENTER or ø 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 ø to move to the next display.

**NOTE:** The delay times do not take effect until the System 30 Timer is reset by pressing the reset switch.
**Step 7**  Press ENTER or \( \) to move to the next display.

```
Assign Locations(p3)
V5= ON / SERVICE DL0
V6= FIND / 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
```

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>PRESENTER 1</td>
<td>PRSNT 1</td>
</tr>
<tr>
<td>PRESENTER 2</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.

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

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

**Step 4**  
Press ENTER or \( \) to move to the next display.

**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.*

**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.*

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 SET NUMBER OF LANES appears on the selection line of the Installer Setup display.

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

**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!**
Select Format

This function allows the user to select either seconds only or minutes:seconds format for times shown on the display and printed on reports.

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

```
Installer Setup:
***** CAUTION *****
FORMAT SELECT
Press + or - & Enter
```

**Step 2** Press ENTER to accept this selection. The system will ask you to select the format for times to be in minutes and seconds, or seconds only.

```
Format Select:
Format: MINUTES:SECS
SECONDS ONLY
Press + or - & Enter
```

**Step 3** Press +/- to select either MINUTES:SECS or SECONDS ONLY

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

Times on the Standby display will be shown in either minutes:seconds or seconds only, depending on the format selected in the Installer Setup.

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

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

**Step 4**  
Press ENTER. The Installer Setup display appears. Press +/- until DEFAULT PROGRAM is displayed.

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

**Step 6**  
Press +/- to choose Yes or No.

If you choose YES, requesting the system to be reset to defaults, a warning message will be displayed.
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.

Times on the Standby display will be shown in either minutes:seconds or seconds only, depending on the format selected in the Installer Setup.

Set Up Adjustable Total

The total time that a car experiences through the lane is based on settings that configure the start and end of the total time.

Step 1  Press +/- until SET UP TOTAL appears on the Installer Setup display, then press ENTER.

Installer Setup:

***CAUTION***
SET UP TOTAL
Press + or - & ENTER

Step 2  Press +/- to set the Adjustable Total Mode to MANUAL or AUTO.

Total Time: AUTO
Lane: 1
Start: SERVICE@ARRVL
Stop: WINDOWL @DEPRT

If you choose AUTO, the previous Adjustable Total will be defined from the arrival to the first detector to the departure from the last detector.

Total Time: MANUAL
Lane: 1
Start: MENU @DEPRT
Stop: WINDOWL @ARRVL

If you choose MANUAL, you can choose whether to start accumulating TOTAL time from the arrival at or departure from an event, as well as which two events define start and stop of the TOTAL time.
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 13, below.

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

![RS232 Connectors Diagram]

Figure 14. RS232 connectors
APPENDIX C
Flowchart for Quick Reference

System 30 Menus

Manager Passcode May Be Required

Reports Passcode May Be Required

### System 30 Menus

**Set Up Report Schedule**
- Every Car
- Hour
- Daypart
- Shift
- Day
- Week
- Month
- Year-To-Date

See pages 35-43.

**Set Up Dayparts & Shifts**
- Dayparts
- Shifts

See pages 44-47.

**Set Up Service Goals**
- Master Service Goals
- Daypart Service Goals
- Remote Displays
- Remote Standby Displays
- Set Alarms

See pages 48-54.

**Set Up System**
- Drive-Thru Manager
- Printer Programming
- Run Diagnostics
- System Setup

See pages 55-61.

**Installer Setup**
- Installer Setup

See pages 70-88.

**Delete Under 4 Seconds**

**Set Printer Option**

**Set Up Lane**

**Set Control**

**Assign Locations**

**Set Number of Lanes**

**Format Select**

**Default Program**

1. **Delete 1st Car**
2. **Reset Detector**
3. **System**
4. **Dayparts & Shifts**
5. **Service Goals**
6. **Report Schedules**
7. **Installer**
8. **All**

**Keypad**
- LCD Display
- Printer
- Remotes

**Store Hours**
- Set Date/Time
- Set Up Accounting
- Change Access Codes

**Reports Manager**

Manager Passcode May Be Required