



TMS-24 USERS MANUAL

Third Edition

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1 INTRODUCTION

The TMS-24 is a modular retail system designed specifically to suit the modern service stations of today. It can be expanded from a basic but powerful self service system into a full retail system with all the features and functions required to operate a medium to high volume service station.

The following diagram, Fig. 1, shows the TMS-24 family of equipment.

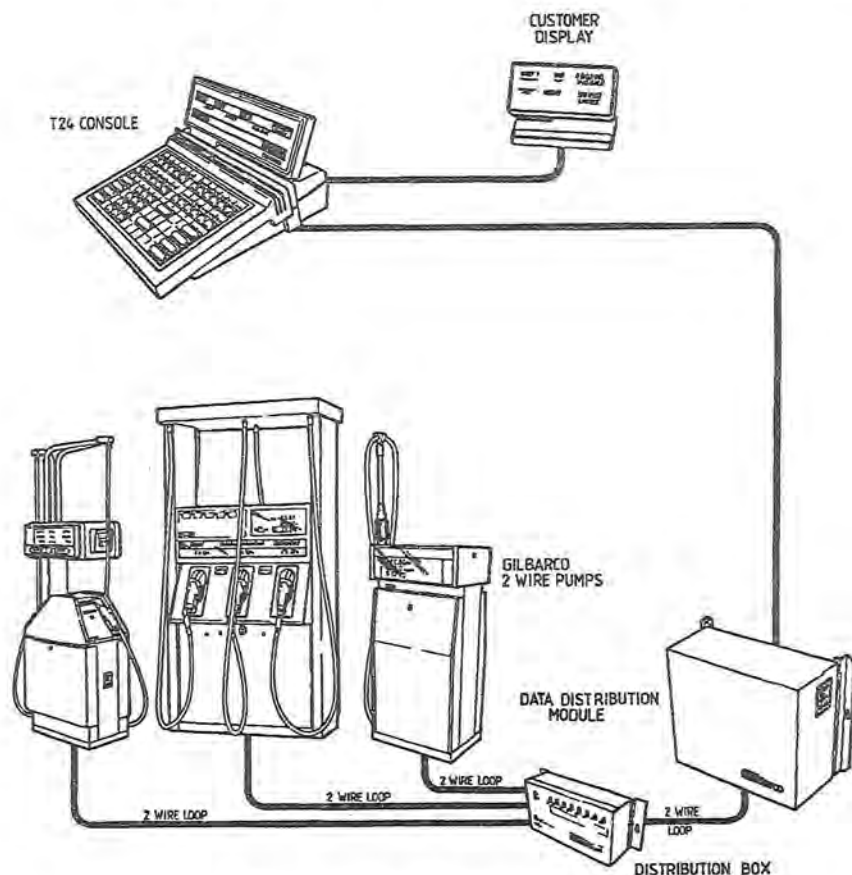


Fig. 1 - The Basic TMS-24 System

The basic TMS-24 system includes the following components:

- ☐ Transac 24 (T-24) Self-Serve Console.
- ☐ Data Distribution Module (DDM).
- ☐ Remote Customer Display.
- ☐ Two-wire Interconnect Box (up to 4 may be required).
- ☐ Gilbarco Two-wire Pumps (any combination of *ALL* models).

Additional equipment available for the TMS-24 System includes:

- ☐ A second (Slave) Console (sharing control of the same pumps).
- ☐ Universal ECR Interface Module.
- ☐ Report Printer.
- ☐ Gilbarco Universal Pump Interface (G-UPI).
- ☐ Transac Datapump Forecourt Credit Card System.
- ☐ Tank Monitoring System.

Other manufacturers equipment which may be linked to the TMS-24 System includes:

- ☐ EFT POS terminals or PC running Breeze Accounting software.
- ☐ Computer/Modem.
- ☐ Price Posting Signs.

2 T-24 SELF-SERVE CONSOLE

The T-24 Self-Serve Console, Fig. 2, consists of a low-profile Keyboard with an integrated (permanently attached) Liquid Crystal (LCD) Display which has an adjustable viewing angle.

The following information describe the features and functions of the T-24 Self-Serve Console.

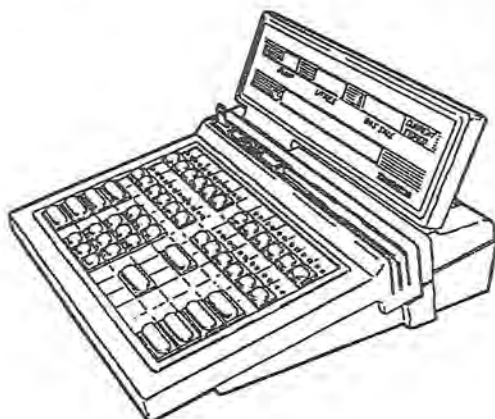


Fig. 2 - The T-24 Console

CONSOLE KEYBOARD

The Keyboard housing (see Fig. 2) contains the main circuit board, the Input/Output (I/O) Panel, and the Keyboard.

The main circuit board is located in the base of the keyboard housing and contains the main operating program, an area for storing temporary data, and an area for storing all totals information from pumps etc.

The circuit board is also equipped with a rechargeable battery which allows temporary data to be retained for a minimum of 6 days (worst case) after 5 years use, with a typical retention of 110 days when the battery is new. The Totals storage area also has battery backup which allows shift and station totals information to be retained for a period of approx. 11 years, while systems data, ie. site set-up data etc., is stored permanently.

Located on the rear of the keyboard housing is the I/O Panel which allows the T-24 to communicate with the outside world, ie. with pumps via the DDM, with ECRs via the Gilbarco Universal ECR Interface Module or "POS" connector (depending on the type of ECR), with a Report Printer when on-line, and with a Gilbarco Tank Monitor (TM-2, TM-3 or TM-4) system if installed.

The following is a brief explanation of the input/output ports found on the rear of the Console.

- ❑ **DDM** - for connecting the Data Distribution Module which supplies power to the T-24 Console and allows communications with the pumps on site. The DDM also allows a Slave T-24 Console to be connected to the system.
- ❑ **AUX DISPLAY** - for connecting the remote Customer Display module. This module is mandatory for normal pump operation.
- ❑ **PRINTER** - for connecting an optional 80 column printer for the output of all hard-copy reports available from the system. Report data can also be displayed line by line on the Console display in a condensed format.
- ❑ **ECR** - for connecting the Gilbarco Universal ECR Interface module to permit an approved ECR to integrate with the T-24 Console so allowing transfer of transaction data to the ECR. The same information may also be output through the POS port.
- ❑ **CONTROLLER** - for connecting a Transac-Datapump forecourt credit card system.
- ❑ **POS** - for connecting an EFT POS system (eg. a Burroughs EF1810 POS terminal), an IBM PC with accounting package (eg. Breeze, Parity, etc.) or an ECR which communicates through an RS-232-C interface.

- ❑ **TANK GAUGE** - for connecting a tank monitoring system for automatic reconciliation of declining balance, wetstock inventory and discrepancy reporting, OR, for connecting a Price Posting Sign for fuel price display.

NOTE If it is desired to have both Tank Monitor and Price Posting Sign connected simultaneously, a special adaptor cable is required.

- ❑ **PC/MODEM** - for connecting an IBM PC, XT or AT computer (or approved compatible) for retaining all site data and information or a modem for off-site polling of the system.

CONSOLE DISPLAY ASSEMBLY

The Console Display Assembly, Fig. 3, is attached to the top of the Keyboard Assembly and is adjustable to allow a large viewing angle. The Display Assembly contains a number of LCD displays.

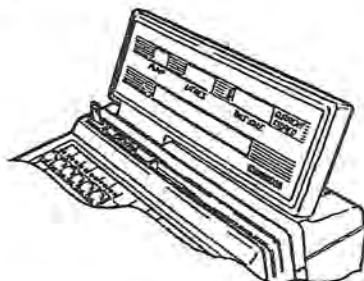


Fig. 3 - Console Display Assembly

The three upper displays are the transaction displays which are, from the left;

- ❑ **PUMP** number - 2 digits,
- ❑ **LITRES** - 5 digits (xxx.xx L),
- ❑ **THIS SALE \$** - 5 digits (xxx.xx \$), also the flag for Current/Stored transactions.

The single lower display is a 40 character LCD display where all messages and instructions appear.

3 MODES OF OPERATION

ATTENDED SELF-SERVE MODE

☐ **Post-Pay**

The customer dispenses fuel as required, then pays the operator in the kiosk at the completion of the transaction. This also applies to any BUFFERED transactions.

☐ **Console Preset with Post-Pay**

The delivery is set to a predetermined dollar amount at the Console. The customer then dispenses fuel until the pump reaches the value set at the Console, at which time the pump automatically stops. The customer then pays the cashier for the fuel received.

☐ **Console Preset with Pre-Pay**

The delivery is set to a predetermined dollar amount at the Console with the customer paying the cashier before commencing delivery. The customer then dispenses the fuel. When the pump reaches the amount set at the Console, the pump will automatically stop. At this time, the customer hangs up the nozzle and the transaction is complete.

UNATTENDED SELF-SERVE MODE

Unattended Self-Serve is where a customer swipes a valid card through a card reader and authorises a pump via the keyboard in a forecourt ICR. After the transaction is completed, the customer's account is adjusted automatically. In the case of a customer debit account, the site account is automatically credited.

NOTE Whether a credit or debit card will depend on the optional equipment connected to the T-24 Console.

MANUAL MODE

In Manual Mode, no operator is required at the Console. While in this mode, all money and inventory totals information is still updated within the Console.

4 FEATURES

AUTHORISATION

Pumps can be authorised in two ways;

- ☐ selected PUMP AUTHORISATION, by pressing the appropriate pump select button followed by AUTHORISE, or
- ☐ GENERAL AUTHORISATION, by pressing AUTHORISE only which will authorise all calling pumps. General Authorisation is a programmable option.

BUFFERED PAYMENTS

If a pump is used and, before the customer has payed, another customer picks up the nozzle of the same pump, the first transaction is buffered, allowing the second transaction to proceed. The operator can also buffer a transaction by authorising the pump for another transaction before the first customer has paid at the kiosk.

A buffered transaction means that the transaction amount is stored in memory for later recovery.

CENTRAL PRICE SETTING

With the exception of Calcopac pumps, all pumps having the same grade of fuel, can have their "price per litre" changed simultaneously from the Console. Eight grades are available at the same time.

ALLOCATION LIMIT

In any of the above modes, all pumps under control of the Console can be set to a fixed cash limit. Once set, no transaction can exceed this value, but "Pump Presets" and "Console Presets" will still operate up to the allocation limit amount.

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CHAPTER 1

GENERAL DESCRIPTION

This chapter gives a general description of the T-24 Console and its features as well as the the systems which can be linked to it.

The subjects covered in this chapter are:

1. A basic introduction.
2. The T-24 Self-Serve Console.
3. Modes of operation.
4. Features of the T-24 Console.
5. The Data Distribution Module (DDM).
6. The Remote Customer Display Module.
7. The two-wire Interconnect Box.
8. Gilbarco two-wire pumps.
9. The Universal ECR Interface.
10. The report printer.
11. The Gilbarco Universal Pump Interface (GUPI).
12. The Transac/Datapump credit card system.
13. The Tank Monitor system.
14. Specifications of the T-24 Console and associated systems.

PROGRAMMABLE DE-AUTHORISATION TIMER

A variable timer (from 0 to 255 seconds) which can be set at the Console so that if a pump is authorised and the nozzle not lifted before the timer period has elapsed, the pump will automatically de-authorise. If set to zero, the pump will remain authorised until the nozzle is lifted or the authorisation cancelled via the keyboard.

NOTE A permanent 15 second timeout period is set if the Console is linked for W.A. operation at the time of installation.

PROGRAMMABLE AUTHORISATION TIMER

A variable timer (from 0 to 30 seconds) for the EFT System which can be set to provide a delay between transaction approval by the EFT System and pump authorisation. This allows the customer time to "claim" his pump after approval.

LOW-LEVEL INVENTORY WARNING

The Low-Level Inventory warning can be set by tank and by grade. When a transaction is completed, the Console will flash a warning message whenever the volume for that particular grade has fallen below a predetermined amount which was programmed into Console memory.

ENABLE/DISABLE CONSOLE PRESETS

This is a hardware option which, before being enabled, *must* have presets fitted to *all* pumps.

TWO CONSOLE OPERATION

When used in a two Console (1st/2nd) situation, the 2nd Console can carry out all functions within the Operator, Manager and Test modes, however, it is only capable of accessing the Console Configuration option of the Master Mode.

13 TANK MONITORING SYSTEM

The Tank Monitor, Fig. 10, continuously monitors liquids in storage tanks and provides inventory information on demand or automatically at report times programmed by the manager.

The inventory information from the Tank Monitor is transmitted to the T-24 to allow automatic reconciliation and improved management control.

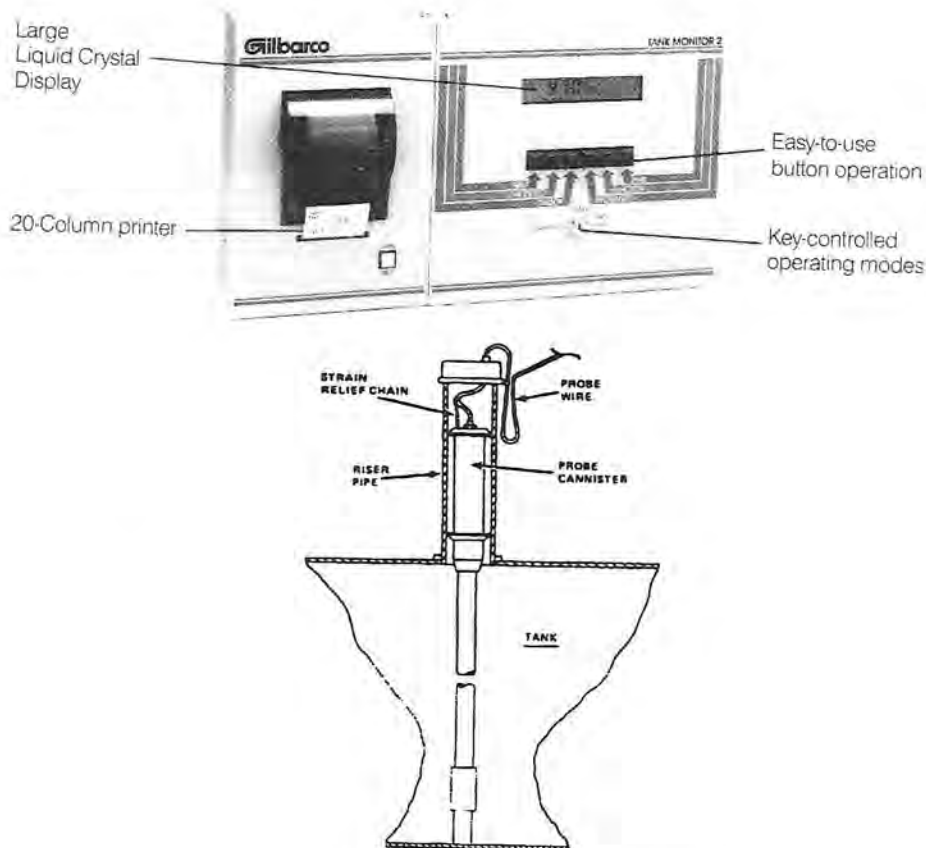


Fig. 10 - Tank Monitoring System

14 SPECIFICATIONS

POWER REQUIREMENTS

☐ VOLTAGE

- 240Vac -15%, 50Hz
- 250Vac +15%, 50Hz

☐ CURRENT

- 1 Amp. *total* rating.

TRANSACTION ACCURACY

☐ MONEY

- Displayed to the nearest whole cent
- Calculated to the nearest 1/10th cent
- Maximum \$995.00 (roll-over prevention)

☐ VOLUME

- Displayed to the nearest 1/100th litre
- Calculated to the nearest 1/200th litre
- Maximum 993.00 litres (roll-over protection)

TOTALS ACCURACY

☐ SHIFT TOTALS

- Volume to the nearest 1/100th litre for each grade up to 999,999.99 litres
- Money to the nearest whole cent for each total up to \$999,999.99

☐ **STATION TOTALS**

- Volume to the nearest 1/100th litre for each grade up to 999,999.99 litres
- Money to the nearest whole cent for each total up to \$999,999.99

☐ **GRAND TOTALS**

- Volume to the nearest litre for each grade up to 99,999,999.99 litres
- Money to the nearest dollar for each total up to \$99,999,999.99

☐ **INVENTORY**

- To the nearest litre for each grade up to 99,999,999 litres

☐ **PUMPS**

- Volume to the nearest 1/100th litre for each fuelling position up to 999,999.99 litres
- Money to the nearest cent for each fuelling position up to \$999,999.99

CONSOLE PRESET

- ☐ In whole dollars only, up to \$99 (Customer display must be fitted)

ALLOCATION LIMIT

- ☐ In whole dollars only, up to \$99

DE-AUTHORISATION TIMER

- ☐ In seconds, from 0 to 255 seconds

AUTHORISATION TIMER

- ☐ In seconds, from 0 to 30 seconds

CENTRAL PRICE SETTING

- ❑ In 1/10ths of a cent for each grade up to \$9.999 per litre

OPERATING TEMPERATURE

- ❑ -7°C to +50°C *without* sun loading

SYSTEM CAPACITIES**❑ FORECOURT**

- Fuelling positions - 24 max.
- Grades - 8 max.
- Tanks - 15 max.

❑ CONSOLE I/O

- ECR Interface - 1 Universal Interface
- ECR/POS Interface - 1 serial (RS-232-C) port
- Printer - 1 parallel (Centronics) port
- Transac Datapump - Controller, Forecourt ICR or CRIP
- Tank Monitor

❑ INTERFACES

- Datapump Controller
- PC or Modem
- P.O.S.
- Universal ECR
- Data Distribution Module
- Tank Gauge and/or Price Posting Sign
- Customer Display Module

APPROVALS

- ☐ Refer to equipment nameplate for current Certificate numbers.
- ☐ Standards Association of Australia
- ☐ Electricity Authority of New South Wales
- ☐ National Standards Commission

CHAPTER 2

OPERATING PROCEDURES

This chapter is primarily aimed at the attendant who will be responsible for the TMS-24 system on site, and the site manager or supervisor responsible for programming and site reports.

The subjects covered in this chapter are:

1. An introduction to the requirements for operating the system.
2. The daily start-up procedures to be followed for successful operation.
3. The keyboard operations of the T-24 Console.
4. Master Mode - initial programming.
5. Operator Mode.
6. Manager Mode.
7. Transac Datapump Systems.
8. Console Reports.

1 INTRODUCTION

The central component of the Transac Management System 24 (TMS-24) is the T-24 Console, which has four distinct work modes which are accessed by color coded MODE keys. Each Mode Key, when inserted in the key slot, allows access to specific functions for operating within that particular mode. The color codes for the keys are always the same; ie. Blue = Master Key, Black = Manager Key, Green = Operator Key and Red = Console Test Key. The following table lists the functions allowed with each key.

KEY	COLOR	FUNCTION
Master	Blue	Master, Manager & Operator
Manager	Black	Manager & Operator
Operator	Green	Operator
Test	Red	Console Test

With no key inserted into the Console, the flashing message **INSERT KEY** is displayed and the keyboard is totally immobilized but power remains on the Console to keep the internal battery charged and so retain the totals and operating program.

Mains power can be removed from the Console by switching off at the power outlet, however, this is not recommended unless there is a special need.

Console operation is made easier by the use of "Status" lights which quickly indicate the current status of each pump under Console control, for both "Current" and "Stored" transactions. Operator, manager, and master programming functions are also assisted by an audible response to a correct sequence of buttons for a specific task.

2 DAILY START-UP PROCEDURE

T-24 SELF-SERVE CONSOLE

To commence operation of the T-24 Console, when the flashing message **INSERT KEY** is displayed, insert the Operator Key (GREEN key) into the keyslot and press the **ENTER** key. The Console will prompt you with **ENTER CODE**.

NOTE The keys used in the T-24 Console are a *PUSH IN* type. Under *no* circumstances should the keys be turned in the keyslot, as this may cause the key to break off inside the keyslot.



Fig. 11 - The T-24 Console

If the option code is known, enter the code number followed by **ENTER**. However, if the code number is not known, use the cursor keys to step through the options available until the required option is displayed, then press **ENTER**.

For normal Self-Serve operation this will be CODE 01 - NORMAL PUMP OPERATION. Refer OPERATOR MODE.

TRANSAC-DATAPUMP CREDIT CARD SYSTEM

There is no start-up procedure required for the Transac Datapump Credit Card System after mains power has been removed. All relevant information for the correct operation of the system is retained in the systems internal memory.

OTHER CONSOLE FACILITIES

As well as controlling pumps, the T-24 Console has the ability to change Shift and Station Periods, change PPU's etc., and *all* Manager and Operator functions while transactions are in progress.

The T-24 Console has various other facilities available to the Operator and/or Manager. It can also support an E.F.T.P.O.S System (EF1810) and an IBM PC using an accounting package (eg. Breeze Software, etc.)

❑ Operator Functions

The operator has access to the following.

- Normal pump operation.
- Display, print or change Shift Totals.
- Display or print Station Totals.
- Display or print Pump Totals, or print Pump Period Totals.
- Display, print or update Fuel Inventory.
- Update current "price per litre" (via Manager Access Codes only).
- Setting pump mode (Self-Serve or Manual).
- Obtain status, list, or cancel printer reports.

For full details of OPERATOR functions, refer to Chapter 2, Operator Mode.

❑ Manager Functions

Normal manager functions include:

- Display, print or reset Station Totals.
- Display or print Pump Totals, or reset Pump Period Totals.
- Display, print, update or reset Tank Inventory.
- Display or print Grand Totals.
- Display or print volume delivered, per grade, between price changes.
- Update Fuel Price.
- Setup or print Console Options; Allocation, Manager Codes, Authorisation Options.

For full details of MANAGER functions, refer to Chapter 2, Manager Mode.

❑ Master Programming Functions

Normal master functions include:

- Console configuration.
- Site identity.
- Grade programming.
- Forecourt configuration.
- Pump Total Initialization.
- Set timings; De-authorisation, Authorisation and Date/Time.
- Master Reset.

For full details of MASTER functions, refer to Chapter 2, Site Configuration - Initial Programming.

5 DATA DISTRIBUTION MODULE (DDM)



Fig. 4 - Data Distribution Module

The Data Distribution Module, Fig. 4, contains the Power Supply for the T-24 Console and batteries for mains backup when buffered payments are pending.

It also houses the Communications Interface for the two-wire communications loop between the Console and pumps.

6 REMOTE CUSTOMER DISPLAY MODULE

The Customer Display Module, Fig. 5, is a large, easily read display fitted to the T-24 Console to assist customers when finalizing their transactions in the kiosk. The Customer Display contains a number of LCD displays to assist the customer when finalizing a transaction. The display module has three upper display areas and two lower display areas.

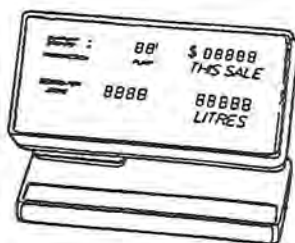


Fig. 5 - Customer Display Module

The three upper displays are, from the left;

- ☐ TRANSACTION - Current or Stored,
- ☐ PUMP number - 2 digits, and
- ☐ THIS SALE \$ - 5 digits.

The two lower displays are, from the left;

- ☐ CENTS PER LITRE - 4 digits, and
- ☐ LITRES - 5 digits.

NOTE The Customer Display **MUST** be fitted to allow pump control functions to operate.

7 TWO-WIRE INTERCONNECT BOX

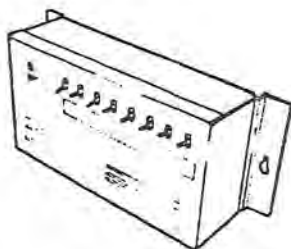


Fig. 6 - Two-wire Interconnect Box

The Two-wire Interconnect Box, Fig. 6, connects all Console controlled pumps in a series loop configuration which allows the Console to communicate with the pumps. Each pump may be isolated from the loop by a switch so that in the event of a pump going off-line or becoming faulty, the other pumps on the loop continue operating unaffected. A green light on the front of the Interconnect Box indicates a "good" loop condition. A number of boxes may be required depending on the number of pumps on the System.

8 GILBARCO TWO-WIRE PUMPS

The T-24 Self-Serve Console will communicate with any, or any combination of, Gilbarco two-wire pumps.

This range of pumps includes the following;

- ☐ MPP (multi product pump) range,
- ☐ Low Profile single product,
- ☐ Highline,
- ☐ Electroline (both universal and MPP compatible),
- ☐ *Electroline LPG dispensers,*
- ☐ all two-wire Calcopac pumps.

11 GILBARCO UNIVERSAL PUMP INTERFACE

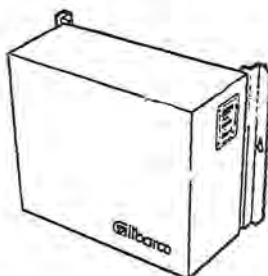


Fig. 8 - Universal Pump Interface

The Universal Pump Interface (G-UI), Fig. 8, will allow the T- 24 Console to control and monitor non-Gilbarco pumps.

12 TRANSAC-DATAPUMP CREDIT CARD SYSTEM

The Datapump Forecourt Credit Card System, Fig. 9, allows for unattended self service operation using customer account cards. The customer authorises a pump by swiping a valid card through the card reader in a forecourt ICR, or in a pump.

After the transaction has been completed, the transaction value is automatically added to the customer's credit account.

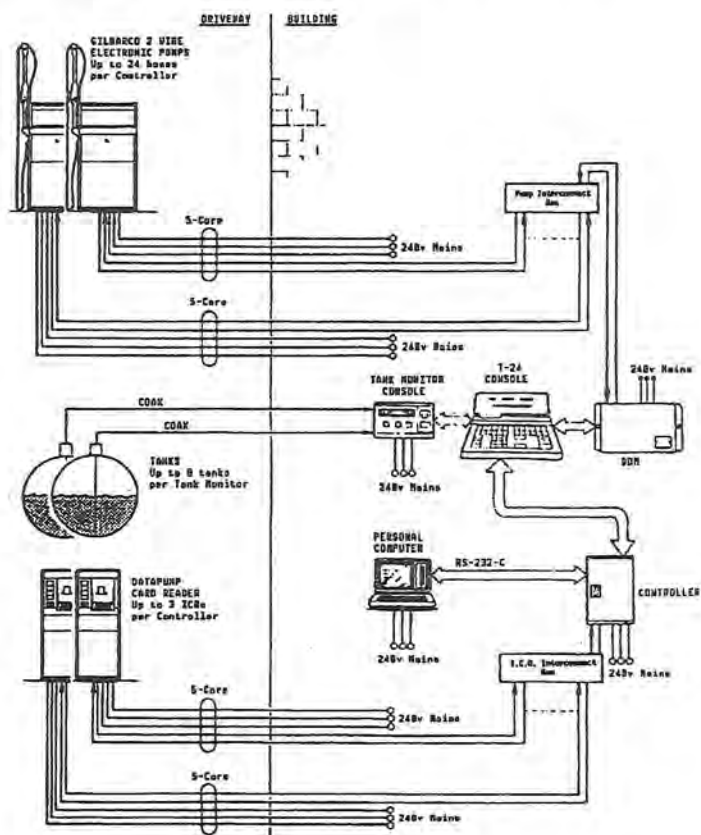


Fig. 9 - Datapump Forecourt Credit Card System

3 KEYBOARD OPERATION

Regardless of the operating mode, ie. Operator, Manager, or Master, accessing options and method of operation within those options is always the same.

When one of the keys is inserted, the required option is selected by either of the following methods.

- ☐ If the option code is known, enter the code number then press ENTER, or
- ☐ Use the cursor (arrow) keys to step through all options which are displayed on the screen. When the required option is displayed, press ENTER.

Pressing ENTER will place you within the option requested, with the default function flashing. While operating within an option, the ENTER key will either change the existing data if new data was entered, or step you to the next level within the option.

Pressing CODE will always step you back to the previous level in the option, or step you back to the previous option.

NOTE By removing the key, the Console will automatically revert to the start-up screen, ie., the flashing message INSERT KEY.

If the use of the cursor keys is required to view the next or previous function, this will be indicated by either a section of the display *flashing* (eg. grade name, tank number, volume etc.) and/or the "cursor left/cursor right" symbol (←/→) being displayed.

If it is required to enter alpha-numeric characters (ie. site name, address, etc.), the cursor key will scroll from one character position to the next, while the digit keys "0" and "7" will step through the built-in character set (7=forward, 0=back). Where all required characters are selected for each input field, press ENTER for that field to be accepted.

Press CODE to return to the tank selection function for assignment of remaining tanks. If no further assignment is required, press CODE to return to the CONFIGN option.

SET LOW LEVEL

With this function selected, the following is displayed:

```
TANK xx : LOW LEVEL xxxxxx L
```

Enter the desired volume for the low level alarm, followed by ENTER. Any previous data will be over-written with the value just entered and the display automatically returns to the previous function.

Press CODE to return to the CONFIGN option.

PUMP TYPE

With this option selected, the following is displayed:

```
SELECT PUMP BY PRESSING PUMP SELECT KEY
```

Select the desired pump using the appropriate PUMP SELECT key, the following is displayed:

```
PUMP xx: HLA HLRT ELIN ENVA CALP 2MP 3MP
```

NOTE To select LPG dispensers, selection is made as follows. If *no* pump totals are required, configure as ELIN. If pump totals *are* required, configure as ENVA.

Use the cursor keys to select the appropriate pump type followed by ENTER. The following is displayed:

```
PUMP xx : GRADE : xxxxxx
```

Use the cursor keys to select the required grade to be assigned to the pump selected followed by ENTER. After entry, the display automatically returns to the pump type selection option. Press CODE to return to the SELECT PUMP option for assignment of remaining pumps.

NOTE If multi-product pumps have been selected, two or three grades will need to be assigned (identical grades *must* be assigned on both sides of the pump) depending on the pump type initially selected, ie., 2MP or 3MP respectively.

If no further assignment is required, press CODE to return to the CONFIGN option.

PUMP/TANK

With PUMP/TANK selected, the following is displayed:

SELECT PUMP BY PRESSING PUMP SELECT KEY

Press the pump select key for the pump required, the following is displayed.

PUMP xx : SUPER : NA 1 2 3 5 7 8

Using the cursor keys to select a tank to be assigned to the pump selected followed by ENTER. The tank selected has now been assigned to the pump and the display automatically returns to the SELECT PUMP BY PRESSING . . display for remaining PUMP/TANK assignments.

NOTE If multi-product pumps have been selected, two or three tanks will need to be assigned to the same pump. The additional screens will be displayed automatically for 2MP or 3MP pumps.

If no further assignments are required, press CODE to return to PUMP CONFIGN OPTION. Press CODE again to return to MASTER MODE.

PUMP TOTAL INITIALISATION - CODE 54

Access is gained by selecting the PUMP TOTAL INITIALIZATION option followed by ENTER, or by entering code "54" followed by ENTER. The following is displayed.

SELECT PUMP BY PRESSING PUMP SELECT KEY

If the pump selected does not exist on the loop, or is *not* the correct type of pump for totals initialization, that is, a pump which *does* give pump totals, the following message is displayed.

PUMP xx NOT CORRECT TYPE FOR TOTAL INIT

However, if the pump type *is* correct, ie., Calcopac or Electroline, then the opening \$ and *Litre* amounts for the period can now be set. These amounts are generally taken from the mechanical and/or electro-mechanical totes on the pump.

NOTE The current Pump Totals *must* be reset (RESET PERIOD) *before* Pump Total Initialization can take place.

If the period *has* been reset, *and* the pump is of the correct type, the following is displayed.

PUMP xx: MONEY TOTAL \$xxxxxx.00

If a dollar value is required to be set, enter the appropriate amount followed by ENTER. When this value has been accepted, or if no value was entered and the ENTER key pressed, the following is displayed.

PUMP xx: VOLUME TOTAL xxxxxx.xL

If a litre value is required to be set, enter the appropriate amount followed by ENTER. When this value has been accepted, or if no value was entered and the ENTER key pressed, the display automatically returns to SELECT PUMP BY PRESSING... screen.

NOTE When setting values from mechanical or electro-mechanical totes which have *more* digits than can be programmed, the required *right hand* digits only must be entered. Press CODE again to return to MASTER MODE.

SET TIMINGS - CODE 55

Access is gained by selecting the SET TIMINGS option followed by ENTER, or by entering code "55" followed by ENTER. The following is displayed:

SET TIMING: DE_AUTH AUTH DATE/TIME

In the SET TIMING option, you can;

- ☐ set a de-authorisation delay,
- ☐ set an authorisation delay, or
- ☐ set the date and time.

DE_AUTH

With DE_AUTH selected, the following is displayed:

DE_AUTH DELAY: ### SECS (0 OR 1-255)

Enter 0 (zero) for NO de-authorisation delay, or any number between 1 and 255 which is equivalent to the number of seconds delay required. Press ENTER to permanently record the delay value; after a brief pause, the display will automatically return to the SET TIMING option.

NOTE A permanent 15 sec. de-authorisation delay can be set via a link on the main circuit board in the Console.

AUTH

With AUTH selected, the following is displayed:

AUTHORISE DELAY: ## SECS (0 OR 1-30)

Enter 0 (zero) for NO authorisation delay, or any number between 1 and 30 which is equivalent to the number of seconds delay required. Press ENTER to permanently record the delay value; after a brief pause, the display will automatically return to the SET TIMING option.

DATE/TIME

With DATE/TIME selected, the following is displayed:

DATE: DD/MM/YY TIME: HH:MM:00

Use the cursor keys to step to the field which needs changing and enter the new data. After all data has been entered press ENTER. After a brief pause, the display will automatically return to the SET TIMING option.

If no further timings are to be set, press CODE to return to MASTER MODE.

MASTER RESET - CODE 56**CAUTION**

Do not access Master Reset unless absolutely necessary as reconfiguration of the site will be required if the Master Reset function is instigated accidentally.

Access is gained by selecting the MASTER RESET option followed by ENTER, or by entering code "56" followed by ENTER. The following is displayed:

THIS WILL RESET ALL PARAMETERS & TOTALS

Press ENTER, the following is displayed:

ARE YOU SURE? NO/YES

If you are NOT sure, press ENTER and the display will return to MASTER MODE.

However, if you ARE sure, use the cursor keys to select YES then press ENTER, the following is displayed:

RESETTING SHIFT STATION AND INVENTORY

After a brief delay, the following is displayed:

RESETTING MANAGER SITE CONFIGURATION

After a brief delay, the display will return to MASTER MODE.

5 OPERATOR MODE

The following table lists the options currently available in OPERATOR Mode. The sub-sections following describe each of the options listed.

Code	Operator Mode Options	1st	2nd
01	Normal Pump Operation	Yes	Yes
02	Shift Totals	Yes	Yes
03	Station Totals	Yes	Yes
04	Pump Totals	Yes	Yes
05	Fuel Inventory	Yes	Yes
06	Price Change	Yes	Yes
07	Pump Mode	Yes	Yes
08	Printer Control	Yes	Yes

NORMAL PUMP OPERATION - CODE 01

Access is gained by selecting the NORMAL PUMP OPERATION option followed by ENTER, or entering code "01" followed by ENTER. Normal transaction operation can now commence, however, a Customer Display must be connected.

SELF-SERVE - POST-PAY

To dispense fuel from a pump, the Console must be in NORMAL PUMP OPERATION mode. The following is the general sequence of events which occur for a normal Self-Serve transaction.

- When the customer lifts the nozzle of a pump, a CALL signal is sent to the Console. This activates a beeping signal and the pump status light for that particular pump indicates a fast flashing CALL state.

NOTE Current transaction status on the left, buffered transaction status on the right.

- ❑ The operator presses the corresponding PUMP SELECT button followed by AUTHORISE, *or*, if the Console is programmed for General Authorisation, the operator bypasses pressing PUMP SELECT and presses AUTHORISE only which then authorises all pumps which are in the CALL state.

NOTE If the PUMP SELECT button was used, the Console will display the previous transaction values for that pump on the Console display.

- ❑ When the AUTHORISE button is pressed, the pump status light will go from a flashing state to a steady state and, after a brief delay, the Console will display a running transaction amount for the pump authorised. This is now indicating that the pump is "in use".

NOTE HLA type pumps *do not* provide real time display on the Console.

- ❑ At the pump, the pump display will reset and the pump motor will start and the customer now dispenses the required amount of fuel.
- ❑ At the completion of fuel delivery, and when the nozzle is returned to the boot, one of the following will occur.
- ❑ If no fuel was dispensed, the pump status light will automatically go OFF and no further action is required.
- ❑ If the value of the fuel dispensed is greater than one (1) cent, a single BEEP occurs at the Console and the pump status light indicates a slow flashing COLLECT state.
- ❑ The operator presses the corresponding PUMP SELECT button and, if two transactions have occurred on the pump, the first (buffered) transaction values will be displayed.

The operator must press PUMP SELECT followed by CURRENT STORED to retrieve the second transaction values if it is required to pay off the second transaction first.

This information is also displayed on the Customer Display Module.

- ❑ The operator then presses the PAID button to complete the transaction.

- NOTES**
1. Another transaction cannot commence until completion of the pump interlock time-out. This time-out period starts when the nozzle is hung up. This is a pump function which is utilized by the T-24 Console.
 2. The pump interlock time-out period is nominally 5 seconds except when a Console Preset transaction has not been completed; the time-out is then 3 minutes.

- ❑ Only if both conditions described above are satisfied and the nozzle again lifted at the pump, will the Console accept a CALL signal from that pump.

SELF-SERVE - CONSOLE POST-PAY PRESET

Console Preset transactions are only permitted if the Console has been configured to allow preset transactions, and if the pumps under Console control are fitted with Preset panels, and operating in Self-Serve mode.

To carry out a Post-Pay transaction, proceed as follows.

- ❑ The operator presses the required PUMP SELECT button; the Console displays the previous transaction information.
- ❑ The operator enters the preset amount, in whole dollars only.

For example, to enter a \$7.00 preset, press the digit 7 on the numerical keypad. The status LED will begin flashing and the message ENTERING PRESET \$ 7.00 will be displayed.

- ❑ The operator then presses the AUTHORISE button on the Console.
- ❑ The customer now dispenses the required amount of fuel. When finished, the customer hangs up the nozzle and the pump interlock timer will commence.

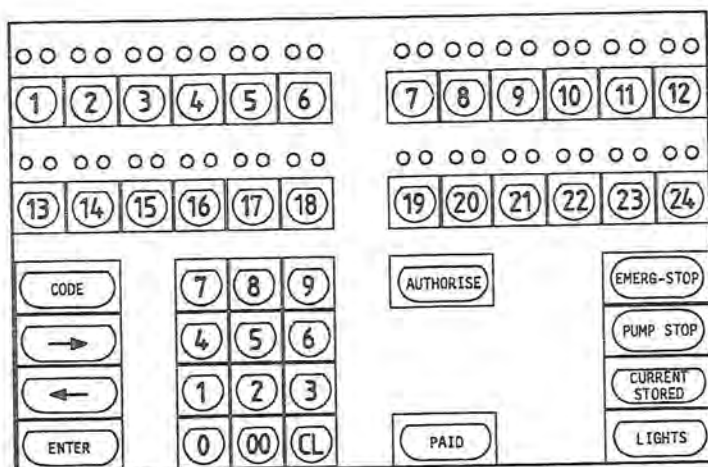


Fig. 12 - T-24 Keyboard Layout

4 MASTER MODE - INITIAL PROGRAMMING

Site configuration and initial programming is carried out in MASTER MODE using the BLUE key. The following table lists the options currently available in MASTER Mode. The sub-sections following describe each of the options listed.

Code	Master Mode Options	1st	2nd
50	Console Configuration	Yes	Yes
51	Site Identity	Yes	No
52 *	Grade Programming	Yes	No
53 *	Forecourt Configuration	Yes	No
54	Pump Totals Initialisation	Yes	No
55	Set Timings	Yes	No
56 *	Master Reset	Yes	Yes

NOTE Access to the options marked with an asterisk (*) is not permitted unless Shift Totals AND Station Totals have first been cleared. The following is displayed if access is attempted.

CURRENT SHIFT & STATION TOTALS NOT RESET

CONSOLE CONFIGURATION - CODE 50

Access is gained by selecting the CONSOLE CONFIGURATION option followed by ENTER, or by entering code "50" followed by ENTER. The following is displayed:

CONFIGN: UNI ECR PRINTER POS/ECR

In the CONFIGURATION option, you can;

- ☐ connect a Universal ECR,
- ☐ connect a report printer, and/or
- ☐ connect a POS terminal or ECR to the RS-232-C port.

UNI ECR

This option allows you to indicate if a cash register is connected to the Console and, if so, to set the operating speed. With UNI ECR selected, the following is displayed:

UNI ECR: NOT CONNECTED CONNECTED SPEED

Use the cursor keys to select the required function followed by ENTER. To return to the CONFIGN option, press the CODE key.

SPEED

With SPEED selected, the following is displayed:

ECR SPEED: SLOW FAST

Use the cursor keys to select the required function followed by ENTER. The display will automatically return to the UNI ECR option.

PRINTER

This option allows you to indicate if a printer is connected to the Console. With this option selected, the following is displayed.

PRINTER: CONFIGURATION STYLE

CONFIGURATION

With CONFIGURATIONS selected, the following is displayed:

PRINT CONFIG: NOT CONNECTED CONNECTED

Use the cursor keys to select the required function followed by ENTER. To return to the PRINTER option, press the CODE key. Press the CODE key again to return to the CONSOLE CONFIGN option.

STYLE

With **STYLE** selected, the following is displayed:

PRINT STYLE: NORMAL ENHANCED

With **NORMAL** selected, the reports will have no **BOLD** or **UNDERLINE** characters printed.

With **ENHANCED** selected, the reports will have **BOLDED** heading at the top of each page, and **UNDERLINED** sections throughout the report.

To return to the **PRINTER** option, press the **CODE** key. Press the **CODE** key again to return to the **CONSOLE CONFIG** option.

POS/ECR

This option allows you to indicate if a **POS** (Point of Sale) terminal, or a cash register is connected to the Console. With this option selected, the following is displayed:

POS/ECR: NOT CONNECTED CONNECTED

Use the cursor keys to select the required function followed by **ENTER**. The display will automatically return to the **CONFIG** option.

SITE IDENTITY - CODE 51

This function is only required if the Site Name and/or Site Address is required to be printed on the top of reports.

Access is gained by selecting the **SITE IDENTITY** option followed by **ENTER**, or by entering code "51" followed by **ENTER**. The following is displayed:

IDENTITY: NAME NUMBER SYSTEM_NUMBER

In the SITE IDENTITY option, you can;

- ☐ enter a site name and/or address,
- ☐ enter a site number, and/or
- ☐ enter a system number.

NAME

With NAME selected, the following is displayed:

NAME: SITE NAME ADDRESS

Use the cursor keys to select the required function followed by ENTER.

SITE NAME

The site name to be allocated can be up to 20 characters in length. With SITE NAME selected, the following is displayed:

SITE NAME: xxxxxxxxxxxxxxxxxxxxxx

Enter the Site Name using one of the pre-described methods of keyboard data entry. When the entire name has been keyed in, press ENTER for the name to be accepted and return to the NAME option.

ADDRESS

The site address can be allocated over two lines of up to 30 characters each. With ADDRESS selected, the following is displayed:

LINE 1: xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

LINE 2: xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

Enter the Site Address using one of the pre-described methods of keyboard data entry. When the entire address has been keyed in, press ENTER for the address to be accepted and return to the NAME option.

If no further action is required within the NAME option, press CODE to return to SITE IDENTITY option.

SITE NUMBER

With NUMBER selected, the following is displayed:

SITE NUMBER: xxxxxx

If display only is required, press CODE to return to the SITE IDENTITY option. However, if the current site number is to be altered, enter the new site number allocated followed by ENTER. The display will automatically return to the SITE IDENTITY option.

SYSTEM NUMBER

With SYSTEM NUMBER selected, the following is displayed:

SYSTEM NUMBER: xxxxxx

If display only is required, press CODE to return to the SITE IDENTITY option. However, if the current system number is to be altered, enter the new system number allocated followed by ENTER. The display will automatically return to the SITE IDENTITY option.

If no further action is required within the SYSTEM NUMBER option, press CODE to return to SITE IDENTITY option.

GRADE PROGRAMMING - CODE 52

Access is gained by selecting the GRADE PROGRAMMING option followed by ENTER, or by entering code "52" followed by ENTER. The following is displayed:

GRADE NAME: SUPER

[←/→]

In the GRADE PROGRAMMING option, you can;

- ☐ change the name of a grade, or
- ☐ set the low level warning volume.

Use the cursor keys to select the required grade followed by ENTER. The following is displayed:

`xxxxxx: NAME CHANGE SET LOW LEVEL`

Use the cursor keys to select the required function followed by ENTER.

NAME CHANGE

With this option selected, the following is displayed:

`GRADE NAME CHANGE: UNLEADED`

Enter the new grade name followed by ENTER (refer to KEYBOARD OPERATION for correct alpha-numeric input procedures). The grade name has now been updated and the display automatically returns to the GRADE NAME option.

SET LOW LEVEL

With this option selected, the following is displayed:

`xxxxxx : LOW LEVEL : xxxxxx L`

Enter the low level alarm volume followed by ENTER. The alarm level has now been updated and the display automatically returns to the GRADE NAME option. If no further action is required, press CODE to return to MASTER MODE.

FORECOURT CONFIGURATION - CODE 53

This function tells the Console what equipment is available on the forecourt.

NOTE Pump type *must* be assigned for *all* pumps.

Access is gained by selecting the FORECOURT CONFIGURATION option followed by ENTER, or by entering code "53" followed by ENTER. The following is displayed:

CONFIG: TANK PUMP TYPE PUMP/TANK

In the CONFIGURATION option, you can;

- ☐ assign a grade to a tank and set a tank low level alarm,
- ☐ assign a pump type and grade to a PUMP SELECT button, or
- ☐ assign a pump to a tank.

NOTE Ensure *all* tanks and pumps connected to the system have been assigned correctly *before* leaving this option.

TANK

With this option selected, the following is displayed:

TANK 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Use the cursor keys to select the required tank followed by ENTER. The following is displayed:

TANK xx: ASSIGN GRADE SET LOW LEVEL

Use the cursor keys to select the required function followed by ENTER.

ASSIGN GRADE

With this function selected, the following is displayed:

GRADE FOR TANK xx: NO GRADE [←/→]

Select the required grade using the cursor keys, followed by ENTER.

- ❑ The Console will respond with a single BEEP and the status light for that pump will indicate the slow flashing COLLECT mode.
- ❑ The operator presses PUMP SELECT followed by PAID. This finalizes the transaction and updates all totals and inventory. When the PAID button is pressed, the slow flashing status light is cancelled.
- ❑ If the delivered amount of fuel was less than the original preset amount, the pump interlock timer will set a time-out period of 3 minutes before the next transaction on that pump can commence.

SELF-SERVE - CONSOLE PRE-PAY PRESET

To carry out a Pre-Pay Preset transaction, proceed as follows.

- ❑ The operator presses the required PUMP SELECT button; the Console displays the previous transaction values.
- ❑ The operator enters the preset amount, in whole dollars only.

For example, to enter a \$7.00 preset, press the digit 7 on the numerical keypad. The status LED will begin flashing and the message ENTERING PRESET \$ 7.00 will be displayed.

- ❑ The customer pays for the fuel, the operator presses the PAID button followed by the AUTHORISE button and the message PREPAID PRESET \$7-00 is displayed.
- ❑ The customer goes to the selected pump and dispenses fuel.

NOTE The pump will automatically stop when the preset dollar amount is reached.

- ❑ When the customer has completed the delivery, and the nozzle has been returned to the nozzle boot, the status light on the Console will go off because payment has already been made.

This message will remain on the display until a keyboard key is pressed, *or* a *printer failure* message is displayed.

BUFFERED Shift

With BUFFERED selected, the following is displayed:

BUFFER SHIFT: xxxx xxxx xxxx xxxx xxxx

Use the cursor keys to select which of the Shifts is required then press ENTER. The following is displayed:

SHIFT xxxx REPORT NOW IN QUEUE

This message will remain on the display until a keyboard key is pressed, *or* a *printer failure* message is displayed. If no further reports are required, press CODE to return to the SHIFT TOTALS option.

CHANGE Shift

With CHANGE selected, the following is displayed:

SHIFT CHANGE: CLOSING xxxx OPENING xxxx

This means that the CURRENT shift is now being closed off and the NEXT shift is being opened for operation. Press ENTER to return to the SHIFT TOTALS options.

NOTE Shift change *is* permitted while transactions are in progress. However, shift change is *not* permitted if:

1. The Shift Total has already been reset, eg., a transaction *must* have been completed since the reset.
2. A pre-paid preset transaction is currently in progress.

If no further action is required within the SHIFT TOTALS option, press CODE to return to OPERATOR MODE then select the next required function or option.

STATION TOTALS - CODE 03

Access is gained by selecting the STATION TOTALS option followed by ENTER, or by entering code "03" followed by ENTER. The following is displayed:

STATION TOTALS: DISPLAY PRINT

In the STATION TOTALS option, you can;

- ☐ display the Station Totals on the Console one line at a time, or
- ☐ print a hard copy Station Totals report on a Report Printer.

DISPLAY Station Totals

With DISPLAY selected, the Console displays the following:

DISPLAY STATION: CURRENT PREVIOUS

This option allows you to display the Station Totals from the current period, or the previous period (the totals period immediately prior to the current period).

CURRENT Totals

With CURRENT selected, the period number (1-9999), time and date that the period was opened (STARTed), and STILL CURRENT are displayed on the Console as follows:

START HH:MM DD/MM STILL CURRENT

Press ENTER and the following is displayed:

SUPER: xxxxxx.xxL \$xxxxxx.xx [←/→]

Use the cursor keys to step through the grades. As you step through the grades, the volume (L) total and money (\$) value for that grade are both displayed, eg., the total of *all* transactions from *all* pumps for that period.

Press ENTER to access the next function; a combined money (\$) total of the grades. The following is displayed:

TOTAL FOR ALL GRADES: \$xxxxxx.xx

Press ENTER to access the next function; grade totals for FORECOURT, KIOSK and MANUAL transactions. The following is displayed:

SUPER: Fxxxxxx.xx Kxxxxxxx.xx Mxxxxxx.xx

Use the cursor keys to step through the grades. As you step through the grades, the following money (\$) totals for that grade are displayed.

- ☐ F = all forecourt ICR and CRIP transactions,
- ☐ K = all kiosk transactions, and
- ☐ M = for all pumps operating in Manual Mode.

Press ENTER to access the next function; a combined money (\$) total of ALL grades for FORECOURT, KIOSK and MANUAL transactions. The following is displayed:

TOTAL: Fxxxxxx.xx Kxxxxxx.xx Mxxxxxx.xx

Press ENTER to access the next function; grade totals for POS transactions which failed to be transferred. The following is displayed:

SUPER: P.O.S FAILED \$xxxxxx.xx [←/→]

Use the cursor keys to step through the grades. As you step through the grades, the money (\$) value of the POS transactions which failed to be transferred are displayed.

Pressing ENTER will now place you back in the DISPLAY STATION option which will allow you to display Station Totals from the PREVIOUS period (the period immediately prior to the CURRENT period).

PREVIOUS Totals

With PREVIOUS selected, the period number, time and date that the period was opened (STARTed), and the time and date that the period was closed (ENDED) are displayed as follows:

START HH:MM DD/MM END HH:MM DD/MM

Press ENTER and the following is displayed:

SUPER: xxxxxx.xxL \$xxxxxx.xx [←/→]

Use the cursor keys to step through the grades. As you step through the grades, the volume (L) total and money (\$) value for that grade are both displayed.

Press ENTER to access the next function; a combined money (\$) total of ALL grades. The following is displayed:

TOTAL FOR ALL GRADES: \$xxxxxx.xx

Press ENTER to access the next function; grade totals for FORECOURT, KIOSK and MANUAL transactions. The following is displayed:

SUPER: Fxxxxxx.xx Kxxxxxx.xx Mxxxxxx.xx

Use the cursor keys to step through the grades. As you step through the grades, the following money (\$) totals for that grade are displayed.

- ☐ F = all forecourt ICR and CRIP transactions,
- ☐ K = all kiosk transactions, and
- ☐ M = for all pumps operating in Manual Mode.

Press ENTER to access the next function; a combined money (\$) total of ALL grades for FORECOURT, KIOSK and MANUAL transactions. The following is displayed:

```
TOTAL: Fxxxxxx.xx Kxxxxxx.xx Mxxxxxx.xx
```

Press ENTER to access the next function; grade totals for POS transactions which failed to be transferred. The following is displayed:

```
SUPER: P.O.S FAILED $xxxxxx.xx      [←/→]
```

Use the cursor keys to step through the grades. As you step through the grades, the money (\$) value of the POS transactions which failed to be transferred are displayed.

Pressing ENTER will now place you back in the Display Totals option. If no further action is required within the Display Totals option, press CODE to return to the STATION TOTALS option.

PRINT Station Totals

With PRINT selected, the Console displays the following:

```
PRINT STATION: CURRENT PREVIOUS
```

This option allows you to print a report of the STATION TOTALS from the CURRENT period, or the PREVIOUS period (the period immediately prior to the CURRENT period).

NOTE Ensure the printer is turned ON and the paper is properly aligned.

CURRENT Totals

With CURRENT selected, the following is displayed:

```
PERIOD xxxx NOW IN PRINTER QUEUE
```

This message will remain on the display until a keyboard key is pressed, or a printer failure message is displayed.

PREVIOUS Totals

With PREVIOUS selected, the following is displayed:

PERIOD xxxx NOW IN PRINTER QUEUE

This message will remain on the display until a keyboard key is pressed, *or* a *printer failure* message is displayed. If no further reports are required, press CODE to return to the STATION TOTALS option.

PUMP TOTALS - CODE 04

Access is gained by selecting the PUMP TOTALS option followed by ENTER, or by entering code "04" followed by ENTER. The following is displayed.

PUMP TOTALS: **DISPLAY** PRINT

In the PUMP TOTALS option, you can;

- ☐ display the Pump Totals, Volume and Money, on the Console one line at a time, or
- ☐ print a hard copy Pump Totals report on a Report Printer.

DISPLAY Pump Totals

With DISPLAY selected, the Console displays the following:

DISPLAY PUMP: **CURRENT** PERIOD TOTAL

This option allows you to display the CURRENT Pump Totals, or the Pump Totals over a specified PERIOD.

CURRENT Pump Totals

With CURRENT selected, the following is displayed:

SELECT PUMP BY PRESSING PUMP SELECT KEY

Press the pump select button for the pump required, the following will be displayed:

```
P xx TOTAL ALL GRADES $xxxxxx.xx  [←/→]
```

By pressing a PUMP SELECT button, the total money for that pump will be displayed. Use the cursor keys to step through the grades available to display the Volume and Money totals for each grade (multi product pumps only).

```
P xx TOTAL SUPER: xxxxxx.xxL $xxxxxx.xx
```

NOTE If the pump is an MPP with a software version less than Version 4, the grade Money display will show zero dollars.

Pressing CODE will now place you back in the DISPLAY PUMP option which will allow you to select another pump, or press CODE to return to the PUMP TOTALS option.

PERIOD Totals

This function has not yet been implemented.

PRINT Pump Totals

With PRINT selected, the Console displays the following:

```
PRINT PUMP: CURRENT PERIOD TOTAL
```

This option allows you to print a report of the CURRENT Pump Totals, or the Pump Totals over a specified PERIOD.

NOTE Ensure the printer is turned ON and the paper is properly aligned.

CURRENT Pump Totals

With CURRENT selected, the following is displayed:

```
READING PUMP TOTALS..... xx
```

After reading the totals from all pumps connected to the communications loop, the following will be displayed:

PUMP TOTALS REPORT NOW IN QUEUE

This message will remain on the display until a keyboard key is pressed, *or a printer failure* message is displayed.

PERIOD Totals

With this function selected, the following is displayed.

PRINT PERIOD TOTAL: CURRENT LAST

If the *Last* period total is selected, the information held in memory from the last period reset is automatically sent to the printer queue.

If the *Current* period total is selected, the Console scans the pumps connected to it for their totals. After scanning has been completed, the period totals report is placed in the printer queue, and the following is displayed.

CURRENT PERIOD TOTALS REPORT NOW IN QUEUE

To return to the PRINT PERIOD TOTALS option, press the CODE key; and to return to the PRINT TOTALS option, press the CODE key a second time. Press the CODE key a third time to return to the PUMP TOTALS option.

FUEL INVENTORY - CODE 05

Access is gained by selecting the FUEL INVENTORY option followed by ENTER, or by entering code "05" followed by ENTER. The following is displayed:

INVENTORY: DELIVERY DISPLAY PRINT

In the FUEL INVENTORY option, you can;

- ☐ on each delivery, update the inventory,
- ☐ display current tank and grade inventories, or
- ☐ print an inventory report.

DELIVERY

With DELIVERY selected, the following is displayed:

```
TANK 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
```

Use the cursor keys to select which tank inventory is to be updated, then press ENTER. The following is displayed:

```
TANK 01 : SUPER : ENTER DROP xxxxxx L
```

Enter the amount of the fuel delivery (in whole litres) followed by ENTER. The inventory for that tank, and its assigned grade, is now updated to include the quantity of fuel just entered, after which, the display will automatically return to the tank selection option to allow you to update other tank inventories as required.

If no further adjustments are required, press CODE to return to the FUEL INVENTORY option.

DISPLAY Inventory

With DISPLAY selected, the following is displayed:

```
DISPLAY INVENTORY: TANK GRADE
```

This option allows you to display the current INVENTORY for each tank and for each grade.

TANK

With TANK selected, the tank number, grade name, and current inventory for that tank are displayed as follows:

```
TANK 01 : SUPER : 999999 L [←/→]
```


PUMP MODE - CODE 07

Access is gained by selecting the PUMP MODE option followed by ENTER, or by entering code "07" followed by ENTER. The following is displayed:

SELECT PUMP BY PRESSING PUMP SELECT KEY

Press the PUMP SELECT button for the pump which is to have the mode change. The following is displayed:

PUMP ~~xx~~: SELF-SERVE MANUAL

NOTE The current operating mode of the pump selected is flashing.

Use the cursor keys to select the required operating mode, then press ENTER. The display will return to the SELECT PUMP option to allow you to carry out mode changes on other pumps.

If no further mode changes are required, press CODE to return to the OPERATOR MODE.

PRINTER CONTROL - CODE 08

Access is gained by selecting PRINTER CONTROL followed by ENTER, or by entering code "08" followed by ENTER. The following is displayed.

PRINTER QUEUE: **STATUS** LIST CANCEL

In the PRINTER CONTROL option, you can;

- ☐ obtain a printer status report,
- ☐ list the reports currently waiting to be printed, or
- ☐ cancel printing of the report currently being printed, or all reports waiting to be printed.

However, if the amount of fuel dispensed is less than the preset amount, the transaction does not terminate when the nozzle is hung up. In this case, proceed as follows:

- ❑ When the customer has completed the delivery, and the nozzle has been returned to the nozzle boot, the Console will respond with a single BEEP. The status light for that pump will indicate the slow flash COLLECT state and a 3 minute pump interlock timer will commence.
- ❑ The operator then presses the PUMP SELECT and PAID button to terminate the transaction with the actual transaction value. All totals and inventory will be updated with the corrected values.

EMERGENCY STOP

If the operator is required to stop delivery of fuel from ALL hoses simultaneously, it can be done by pressing the button marked EMERG- STOP. In two Console systems, you can press the button on either Console.

The Console display will commence flashing all 8s and all status lights will be flashing. The flashing can be stopped at any time by pressing the PUMP SELECT button for any pump which is under Console control.

The operator will be able to tell which of the pumps requires re-authorisation as the status light for those pumps will show the fast flashing CALL signal. If a customer has returned the nozzle to the nozzle boot during the EMERG-STOP, the Console will regard this as a completed delivery. This will be indicated by a single BEEP and the status light for that pump indicating the slow flashing COLLECT signal. The pump interlock timer will commence, the time-out depending on the type of transaction and the delivery status.

STATUS

This option tells you the number of reports currently in the print queue waiting to be printed. With this option selected, the following is displayed.

PRINT QUEUE CONTAINS **xx** REPORTS

NOTE The printer queue is capable of holding 20 reports maximum.

To return to the PRINTER CONTROL option, press the CODE key.

LIST

This option lists the reports currently waiting to be printed. With this option selected, the following is displayed.

QUEUE #xx: *Report Type*

[←/→]

The *Report Type* can be any of the following:

- ☐ Shift #xxxx
- ☐ Station #xxxx
- ☐ Pump Totals
- ☐ Inventory
- ☐ Price Change
- ☐ Grand Totals
- ☐ Site Parameters
- ☐ Pump Period

Use the cursor keys to review *each* report queue position. To return to the PRINTER CONTROL option, press the CODE key.

PUMP MODE - CODE 07

Access is gained by selecting the PUMP MODE option followed by ENTER, or by entering code "07" followed by ENTER. The following is displayed:

SELECT PUMP BY PRESSING PUMP SELECT KEY

Press the PUMP SELECT button for the pump which is to have the mode change. The following is displayed:

PUMP xx: SELF-SERVE MANUAL

NOTE The current operating mode of the pump selected is flashing.

Use the cursor keys to select the required operating mode, then press ENTER. The display will return to the SELECT PUMP option to allow you to carry out mode changes on other pumps.

If no further mode changes are required, press CODE to return to the OPERATOR MODE.

PRINTER CONTROL - CODE 08

Access is gained by selecting PRINTER CONTROL followed by ENTER, or by entering code "08" followed by ENTER. The following is displayed.

PRINTER QUEUE: **STATUS** LIST CANCEL

In the PRINTER CONTROL option, you can;

- ☐ obtain a printer status report,
- ☐ list the reports currently waiting to be printed, or
- ☐ cancel printing of the report currently being printed, or all reports waiting to be printed.

STATUS

This option tells you the number of reports currently in the print queue waiting to be printed. With this option selected, the following is displayed.

PRINT QUEUE CONTAINS xx REPORTS

NOTE The printer queue is capable of holding 20 reports maximum.

To return to the PRINTER CONTROL option, press the CODE key.

LIST

This option lists the reports currently waiting to be printed. With this option selected, the following is displayed.

QUEUE #xx: *Report Type* [←/→]

The *Report Type* can be any of the following:

- ☐ Shift #xxxx
- ☐ Station #xxxx
- ☐ Pump Totals
- ☐ Inventory
- ☐ Price Change
- ☐ Grand Totals
- ☐ Site Parameters
- ☐ Pump Period

Use the cursor keys to review *each* report queue position. To return to the PRINTER CONTROL option, press the CODE key.

CANCEL

This option allows you to cancel all reports, or only the report currently being printed. With this option selected, the following is displayed.

CANCEL PRINTER REPORTS: CURRENT ALL

Use the cursor keys to select the required function followed by ENTER. When the report(s) has been cancelled, the following is displayed.

PRINT QUEUE CONTAINS xx REPORTS

To return to the CANCEL PRINTER REPORTS option, press the CODE key. To return to the PRINTER CONTROL option, press the CODE key a second time.

6 MANAGER MODE

The following table lists the options currently available in MANAGER Mode. The sub-sections following describe each of the options listed.

Code	Manager Mode Options	1st	2nd
30	Station Totals	Yes	Yes
31	Pump Totals	Yes	Yes
32	Fuel Inventory	Yes	Yes
33	Price Change	Yes	Yes
34	Grand Totals	Yes	Yes
35	Console Setup	Yes	Yes
36	Tank Monitor	Yes	Yes

STATION TOTALS - CODE 30

Access is gained by selecting the STATION TOTALS option followed by ENTER, or by entering code "30" followed by ENTER. The following is displayed:

STATION TOTALS: DISPLAY PRINT RESET

In the STATION TOTALS option, the manager can;

- ☐ display the Station Totals on the Console one line at a time,
- ☐ print a hard copy Station Totals report on a Report Printer,
or
- ☐ reset the current STATION TOTALS to zero.

DISPLAY Station Totals

With DISPLAY selected, the Console displays the following:

DISPLAY STATION: CURRENT PREVIOUS

PUMP STOP

If an operator is required to stop delivery from one or more individual hoses, it can be done by pressing the corresponding PUMP SELECT followed by the PUMP STOP button. When the problem has been corrected, each hose can be re-authorized, or the transaction completed (if the nozzle was returned to the nozzle boot), in the same manner as described above in EMERGENCY STOP.

CURRENT/STORED

If a transaction has been completed on a pump and, before the customer has paid for the fuel, another customer picks up the nozzle of the same pump, the first transaction is *buffered* allowing the second transaction to proceed. A buffered transaction means that the transaction amount is stored in Console memory for later recovery.

NOTE The "buffering" function is programmable via Manager - CONSOLE SETUP (CODE 35).

In the above case, the second transaction is the *current* transaction while the first transaction is the *stored* transaction.

PUMP LIGHTS

If the pumps on the forecourt are capable of remote control light switching, the LIGHTS key on the Console will toggle the pump/dispenser lights *ON* or *OFF*, depending on the state of the lights prior to pressing the LIGHTS key.

SHIFT TOTALS - CODE 02

Access is gained by selecting the SHIFT TOTALS option followed by ENTER, or by entering code "02" followed by ENTER. The following is displayed:

SHIFT TOTALS: DISPLAY PRINT CHANGE

In the SHIFT TOTALS option, you can;

- ☐ display the Shift Totals on the Console one line at a time,
- ☐ print a hard copy Shift Totals report on a Report Printer, and/or
- ☐ change shifts, which automatically closes the shift and prints the Shift Totals, if a printer is connected. It also "buffers" the shift data for display/printing later, ie., the last 6 Shift Totals are retrievable.

DISPLAY Shift

With DISPLAY selected, the following is displayed:

DISPLAY SHIFT: CURRENT LAST BUFFERED

This option allows you to display the Shift Totals from the CURRENT shift, the LAST shift (the shift immediately prior to the CURRENT shift) or any of five BUFFERED shifts prior to the LAST shift.

CURRENT Shift

With CURRENT selected, the shift number (1-9999), time and date that the shift was opened (STARTed), and STILL CURRENT are displayed as follows:

START HH:MM DD/MM STILL CURRENT

Press ENTER and the following is displayed:

SUPER: xxxxxx.xxL \$xxxxxx.xx [←/→]

Use the cursor keys to step through the grades. As you step through the grades, the volume (L) totals and money (\$) value for that grade are both displayed.

Press ENTER to access the next function; a combined money (\$) total of ALL grades. The following is displayed:

TOTAL FOR ALL GRADES: \$xxxxxx.xx

Press ENTER to access the next function; grade totals for FORECOURT, KIOSK and MANUAL transactions. The following is displayed:

SUPER: Fxxxxxx.xx Kxxxxxx.xx Mxxxxxx.xx

Use the cursor keys to step through the grades. As you step through the grades, the following money (\$) totals for that grade are displayed:

- ☐ F = all forecourt ICR and CRIP transactions,
- ☐ K = all kiosk transactions, and
- ☐ M = for all pumps operating in Manual Mode.

Press ENTER to access the next function; a combined money (\$) total of ALL grades for FORECOURT, KIOSK and MANUAL transactions. The following is displayed:

TOTAL: Fxxxxxx.xx Kxxxxxx.xx Mxxxxxx.xx

Press ENTER to access the next function; grade totals for POS transactions which failed to be transferred. The following is displayed:

SUPER: P.O.S FAILED \$xxxxxx.xx [←/→]

Use the cursor keys to step through the grades. As you step through the grades, the money (\$) value of the POS transactions which failed to be transferred are displayed.

Pressing ENTER will now place you back in the DISPLAY SHIFT option which will allow you to re-examine Shift Totals from the CURRENT Shift, display Shift Totals from the LAST shift (the shift immediately prior to the CURRENT shift) or any of five BUFFERED shifts prior to the LAST shift.

LAST Shift

With LAST selected, the shift number, time and date that the shift was opened (STARTed), and the time and date that the shift was closed (ENDED) are displayed as follows:

#... START HH:MM DD/MM END HH:MM DD/MM

Press ENTER and the following is displayed:

SUPER: xxxxxx.xxL \$xxxxxx.xx [←/→]

Use the cursor keys to step through the grades. As you step through the grades, the volume (L) totals and money (\$) value for that grade are both displayed.

Press ENTER to access the next function; a combined money (\$) total of ALL grades. The following is displayed:

TOTAL FOR ALL GRADES: \$xxxxxx.xx

Press ENTER to access the next function; grade totals for FORECOURT, KIOSK and MANUAL transactions. The following is displayed:

SUPER: Fxxxxxx.xx Kxxxxxx.xx Mxxxxxx.xx

Use the cursor keys to step through the grades. As you step through the grades, the following money (\$) totals for that grade are displayed.

- ☐ F = all forecourt ICR and CRIP transactions,
- ☐ K = all kiosk transactions, and
- ☐ M = for all pumps operating in Manual Mode.

Press ENTER to access the next function; a combined money (\$) total of ALL grades for FORECOURT, KIOSK and MANUAL transactions. The following is displayed:

TOTAL: Fxxxxxx.xx Kxxxxxx.xx Mxxxxxx.xx

Press ENTER to access the next function; grade totals for POS transactions which failed to be transferred. The following is displayed:

SUPER: P.O.S FAILED \$xxxxxx.xx	[←/→]
---------------------------------	-------

Use the cursor keys to step through the grades. As you step through the grades, the money (\$) value of the POS transactions which failed to be transferred are displayed.

Pressing ENTER will now place you back in the DISPLAY SHIFT option which will allow you to re-examine Shift Totals from the CURRENT Shift or from the LAST shift (the shift immediately prior to the CURRENT shift), or display any of five BUFFERED shifts prior to the LAST shift.

BUFFERED Shift

With BUFFERED selected, the following is displayed:

BUFFER SHIFT: xxxx xxxx xxxx xxxx xxxx
--

Use the cursor keys, select which of the shifts is required then press ENTER. With the required shift selected, the shift number, time and date that the shift was opened (STARTed), and the time and date that the shift was closed (ENDED) are displayed as follows:

#xxxx START HH:MM DD/MM END HH:MM DD/MM

Press ENTER and the following is displayed:

SUPER: xxxxxxx.xxL \$xxxxxx.xx	[←/→]
--------------------------------	-------

Use the cursor keys to step through the grades. As you step through the grades, the volume (L) totals and money (\$) value for that grade are both displayed.

Press ENTER to access the next function; a combined money (\$) total of ALL grades. The following is displayed:

TOTAL FOR ALL GRADES: \$xxxxxx.xx

Press ENTER to access the next function; grade totals for FORECOURT, KIOSK and MANUAL transactions. The following is displayed:

SUPER: Fxxxxxx.xx Kxxxxxx.xx Mxxxxxx.xx

Use the cursor keys to step through the grades. As you step through the grades, the following money (\$) totals for that grade are displayed.

- ☐ F = all forecourt ICR and CRIP transactions,
- ☐ K = all kiosk transactions, and
- ☐ M = for all pumps operating in Manual Mode.

Press ENTER to access the next function; a combined money (\$) total of ALL grades for FORECOURT, KIOSK and MANUAL transactions. The following is displayed:

TOTAL: Fxxxxxx.xx Kxxxxxx.xx Mxxxxxx.xx

Press ENTER to access the next function; grade totals for POS transactions which failed to be transferred. The following is displayed:

SUPER: P.O.S FAILED \$xxxxxx.xx [←/→]

Use the cursor keys to step through the grades. As you step through the grades, the money (\$) value of the POS transactions which failed to be transferred are displayed.

Pressing ENTER will now place you back in the BUFFER SHIFT option which will allow you to display Shift Totals from any of the remaining BUFFERED shifts.

If no further BUFFERED Shift is required, press CODE to return to the DISPLAY SHIFT option which will allow you to re-examine Shift Totals from the CURRENT Shift, Shift Totals from the LAST shift (the shift immediately prior to the CURRENT shift), or any of five BUFFERED shifts prior to the LAST shift.

If no further action is required within the DISPLAY SHIFT option, press CODE to return to the SHIFT TOTALS option.

PRINT Shift

With PRINT selected, the following is displayed:

PRINT SHIFT: **CURRENT** LAST BUFFERED

This option allows you to print a report of the Shift data from the CURRENT shift, the LAST shift (the shift immediately prior to the CURRENT shift) or any of five BUFFERED shifts prior to the LAST shift.

NOTE Ensure the printer is turned ON and the paper is properly aligned.

CURRENT Shift

With CURRENT selected, the following is displayed:

SHIFT xxxx REPORT NOW IN QUEUE

This message will remain on the display until a keyboard key is pressed, *or a printer failure* message is displayed.

LAST Shift

With LAST selected, the following is displayed:

SHIFT xxxx REPORT NOW IN QUEUE

This option allows the manager to display the STATION TOTALS from the current period, or the previous period (the totals period immediately prior to the current period).

CURRENT Totals

With CURRENT selected, the period number (1 - 9999), time and date that the period was opened (STARTed), and STILL CURRENT are displayed on the Console as follows:

```
START HH:MM DD/MM STILL CURRENT
```

Press ENTER and the following is displayed:

```
SUPER: xxxxxx.xxL $xxxxxx.xx [←/→]
```

Use the cursor keys to step through the grades. As you step through the grades, the volume (L) totals and money (\$) value for that grade are both displayed.

Press ENTER to access the next function; a combined money (\$) total of the grades. The following is displayed:

```
TOTAL FOR ALL GRADES: $xxxxxx.xx
```

Press ENTER to access the next function; grade totals for FORECOURT, KIOSK and MANUAL transactions. The following is displayed:

```
SUPER: Fxxxxxx.xx Kxxxxxx.xx Mxxxxxx.xx
```

Use the cursor keys to step through the grades. As you step through the grades, the following money (\$) totals for that grade are displayed.

- ☐ F = all forecourt ICR and CRIP transactions,
- ☐ K = all kiosk transactions, and
- ☐ M = for all pumps operating in Manual Mode.

FUEL INVENTORY - CODE 32

Access is gained by selecting the FUEL INVENTORY option followed by ENTER, or by entering code "32" followed by ENTER. The following is displayed:

INVENTORY: DELIVERY DISPLAY PRINT RESET

In the FUEL INVENTORY option, the manager can;

- ☐ on each delivery, update the inventory,
- ☐ display current tank inventories,
- ☐ print an inventory report, or
- ☐ reset inventory to zero for a specified tank.

DELIVERY

With DELIVERY selected, the following is displayed:

TANK 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Use the cursor keys to select which tank inventory is to be modified, then press ENTER. The following is an example:

TANK 01 : SUPER : ENTER DROP xxxxxxL

Enter the amount of the fuel delivery (in whole litres) followed by ENTER. The inventory for that tank, and its assigned grade, has now been automatically updated to include the quantity of fuel just entered after which the Console returns to the tank selection screen to allow the manager to enter other deliveries as required.

If no further adjustments are required, press CODE to return to the FUEL INVENTORY option.

DISPLAY Inventory

With DISPLAY selected, the following is displayed:

DISPLAY INVENTORY: TANK GRADE

This option allows the manager to display the current INVENTORY for each tank or for each grade.

TANK

With TANK selected, the tank number, grade name, and current inventory for that tank are displayed as follows:

TANK 01 : SUPER : 999999 L	[←/→]
----------------------------	-------

Use the cursor keys to step through the tanks. As you step through the tanks, the grade name and volume (L) available in each tank is displayed as shown above.

Pressing the ENTER or CODE key will now place you back in the DISPLAY INVENTORY option.

GRADE

With GRADE selected, the grade name and current total inventory for that grade are displayed as follows:

GRADE: SUPER: 999999 L	[←/→]
------------------------	-------

Use the cursor keys to step through the grades. As you step through the grades, the volume (L) available for each grade is displayed as shown above.

Pressing the ENTER or CODE key will now place you back in the DISPLAY INVENTORY option. If no further action is required within the DISPLAY INVENTORY option, press CODE to return to the FUEL INVENTORY option.

PRINT Inventory Report

NOTE Ensure the printer is turned ON and the paper is properly aligned before selecting PRINT.

With PRINT selected, a report containing the tank number, grade name and declining balance for each grade is printed on the report printer.

RESET Inventory

With RESET selected, the following is displayed:

TANK 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
--

Use the cursor keys to select which tank inventory is to be modified, then press ENTER. The following is displayed:

TANK 01: SUPER: SET NEW LEVEL xxxxxx L
--

Enter the new tank level setting (in whole litres) followed by ENTER. The grade inventory for the selected tank has now been modified to include this tanks new setting. After the inventory has been adjusted, the display automatically returns to the tank selection option to allow the manager to modify other tank inventories as required.

If no further inventory modification is required, press CODE to return to the FUEL INVENTORY option, then press CODE again to return to the MANAGER MODE and select the next required function or option.

PRICE CHANGE - CODE 33

Access is gained by selecting the PRICE CHANGE option followed by ENTER, or by entering code "33" followed by ENTER. The following is displayed:

FUEL PRICE: CHANGE PRICE_VOLUME TOTAL

In the PRICE CHANGE option, the manager can;

- ☐ change the fuel price of any or all grades of fuel, or
- ☐ display or print a fuel pricing report.

CHANGE Price

With CHANGE selected, the following is displayed:

SELECT GRADE: SUPER	[←/→]
---------------------	-------

Use the cursor keys to step through the grades. When the required grade has been found, press ENTER; the following is displayed:

xxxxxx PRICE IS : xxx.x C/L

The grade name and the current selling price for that grade (the selling price will be flashing) will be displayed.

Enter the new selling price (up to four digits only). If an error is made, press the CL (clear) button and re-enter the selling price.

After the correct selling price has been entered, press ENTER, this will update the selling price for the selected grade and automatically return to the grade select option for further updating if necessary.

If no further price changing is required, press CODE to return to the FUEL PRICE option to allow for printing of a fuel pricing report or, if no further action is required, press CODE again to return to MANAGER MODE and select the next required function or option.

PRICE_VOLUME TOTAL

With PRICE_VOLUME TOTAL selected, the following is displayed:

PRICE_VOLUME TOTAL: DISPLAY PRINT RESET

This option allows you to display the volume of fuel sold at a specific price, print a Price_Volume Totals report, or reset the Price_Volume Totals.

DISPLAY Price_Volume Totals

With DISPLAY selected, the following is displayed:

SELECT GRADE: SUPER	[←/→]
---------------------	-------

Use the cursor keys to step through the grades. When the required grade has been found, press ENTER, the following is displayed:

SUPER 00: HH:mm DD/MM xxx.x xxxxxx.xxL
--

The current Price_Volume period (00) is displayed. Use the cursor keys to step through other periods stored, up to a total of 100 periods (00 to 99) for all grades.

The time and date indicated, is the *start* of the price period indicated, and the end of the previous period.

The quantity (xxxxxx.xxL) indicated is the volume of the selected grade sold during the price_volume period, and the price (xxx.x) indicated is the price set during that period. Pressing the right cursor key (→) selects each previous Price_Volume period for the selected grade.

Pressing CODE will return you to the SELECT GRADE option. This will allow you to select other grades for display.

Pressing CODE again will return you to the PRICE_VOLUME TOTALS option which will enable you to PRINT a report or RESET the Price_Volume Totals.

PRINT Price_Volume Totals

NOTE Ensure the printer is turned ON and the paper is properly aligned before selecting PRINT.

With this function selected, a Price_Volume Totals report is placed in the print queue and the following is displayed:

PRICE CHANGE REPORT NOW IN QUEUE

To return to the PRICE_VOLUME TOTALS option, press the CODE key.

RESET Price_Volume Totals

With this function selected, the following is displayed:

RESET CURRENT PRICE_VOLUME: NO/YES

If NO is selected, the Console will reset all PRICE_VOLUME TOTALS except the current totals for each grade. However, if YES is selected, all price volume totals will be reset, and the following is displayed:

PRICE_VOLUME REPORT NOW IN QUEUE

PRICE_VOLUME TOTALS NOW RESET

NOTE At the completion of printing the Price_Volume report, *all* buffered Price_Volume totals are reset.

To return to the PRICE_VOLUME TOTALS option, press the CODE key twice.

GRAND TOTALS - CODE 34

The Grand Totals are non-resettable totals. Access is gained by selecting the GRAND TOTALS option followed by ENTER, or by entering code "34" followed by ENTER. The following is displayed:

GRAND TOTALS: DISPLAY PRINT

In the GRAND TOTALS option, the manager can;

- ☐ display the Grand Totals on the Console one line at a time, or
- ☐ print a hard copy Grand Totals report on a Report Printer.

DISPLAY Grand Totals

With DISPLAY selected, the Console displays the following:

GRAND START hh:mm dd/mm/yy STILL CURRENT

SUPER: xxxxxxxxL \$xxxxxxx [←/→]

Use the cursor keys to step through the grades. As you step through the grades, the volume (L) totals and money (\$) value for that grade are both displayed.

Press ENTER to access the next function; a combined money (\$) total of the grades. The following is displayed:

TOTAL FOR ALL GRADES: \$xxxxxxx

Press ENTER to access the next function; grade totals for FORECOURT, KIOSK and MANUAL transactions. The following is displayed:

SUPER: Fxxxxxxx Kxxxxxxx Mxxxxxxx

Use the cursor keys to step through the grades. As you step through the grades, the following money (\$) totals for that grade are displayed.

- ☐ F = all forecourt ICR and CRIP transactions,
- ☐ K = all kiosk transactions, and
- ☐ M = for all pumps operating in Manual Mode,

Press ENTER to access the next function; a combined money (\$) total of ALL grades for FORECOURT, KIOSK and MANUAL transactions. The following is displayed:

TOTAL: Fxxxxxx.xx Kxxxxxx.xx Mxxxxxx.xx

Pressing ENTER will now place you back in the GRAND TOTALS option.

PRINT Grand Totals

NOTE Ensure the printer is turned ON and the paper is properly aligned before selecting PRINT.

With PRINT selected, a report containing Product Sales and Sales Analysis is printed on the report printer, the contents of each as follows:

- ☐ Product Sales - contains grade name, volume sold (L), and the value (\$) for each grade.
- ☐ Sales Analysis - contains grade name, forecourt sales (\$), manual sales (\$), and kiosk total (\$) for each grade.

If no further action is required within the GRAND TOTALS option, press CODE twice to return to MANAGER MODE and select the next required function or option.

CONSOLE SETUP - CODE 35

Access is gained by selecting the CONSOLE SETUP option followed by ENTER, or by entering code "35" followed by ENTER. The following is displayed:

SETUP: ALLOCATION CODES AUTH-OPTS PRINT

In the SETUP option, the manager can;

- ☐ set a site allocation limit,
- ☐ set operator price change codes,
- ☐ set authorisation options, or
- ☐ print a Site Parameters report on a Report Printer.

ALLOCATION

With ALLOCATION selected, the following is displayed:

SITE ALLOCATION: \$xx.00

The manager can now enter the allocation amount from \$1 to \$99 (in whole dollars) followed by ENTER. After pressing ENTER, the display indicates the pump number of the allocation is sent, then returns to the SETUP option.

NOTE Allocations can be sent regardless of the state of the pumps.

CODES

With CODES selected, the following is displayed:

CODES: PRICE CHANGE MODE

This option allows the manager to set the codes for Operator Price Change and Operator Station Mode change.

PRICE CHANGE

With PRICE CHANGE selected, one of the following is displayed:

PRICE CHANGE CODE # x : xxxxx

OR

PRICE CHANGE CODE # x : xxxxx USED

The top display shows that the code allocated has not yet been used by the appropriate operator.

If the allocated price change code has been used, then the lower display will be shown. If the same code is to be re-allocated, pressing ENTER will re-activate that code. However, if a different code is to be allocated, enter the new code number followed by ENTER.

If no further allocations are required, press CODE to return to the CODES option for setting of the STATION MODE code.

MODE

With MODE selected, the following is displayed:

ACCESS MODE CODE: xxxxx

To allow the operator to change Station Mode, enter the MODE ENTRY code required followed by ENTER. Pressing ENTER will automatically return the display to the CODES option. If no further allocations are required, press CODE to return to SETUP options.

AUTH-OPTS

With AUTH-OPTS selected, the following is displayed:

AUTH-OPTIONS: GEN AUTH BUFFER PAYMENT

This option allows the manager to ENABLE or DISABLE General Authorisation and buffered payments of transactions.

GEN AUTH

With GEN AUTH selected, the following is displayed:

GENERAL AUTHORISATION: ON OFF

Use the cursor keys to turn General Authorisation ON or OFF, followed by ENTER. The display will automatically return to the AUTH-OPTIONS option. If no further action is required, press CODE to return to the SETUP option, then CODE again to return to MANAGER MODE.

BUFFER PAYMENT

With BUFFER PAYMENT selected, the following is displayed:

BUFFER PAYMENT: ON OFF

Press ENTER to access the next function; a combined money (\$) total of ALL grades for FORECOURT, KIOSK and MANUAL transactions. The following is displayed:

TOTAL: Fxxxxxx.xx Kxxxxxx.xx Mxxxxxx.xx

Press ENTER to access the next function; grade totals for POS transactions which failed to be transferred. The following is displayed:

SUPER: P.O.S FAILED \$xxxxxx.xx [←/→]

Use the cursor keys to step through the grades. As you step through the grades, the money (\$) value of the POS transactions which failed to be transferred are displayed.

Pressing ENTER will now place you back in the DISPLAY STATION option which will allow the manager to display STATION TOTALS from the PREVIOUS period (the period immediately prior to the CURRENT period).

PREVIOUS Totals

With PREVIOUS selected, the period number, time and date that the period was opened (STARTed), and the time and date that the period was closed (ENDED) are displayed as follows:

START HH:MM DD/MM END HH:MM DD/MM

Press ENTER and the following is displayed:

SUPER: xxxxxx.xxL \$xxxxxx.xx [←/→]

Use the cursor keys to step through the grades. As you step through the grades, the volume (L) totals and money (\$) value for that grade are both displayed.

Use the cursor keys to turn buffered transaction payments ON or OFF, followed by ENTER. The display will automatically return to the AUTH- OPTIONS option. If no further action is required, press CODE to return to the SETUP option, then CODE again to return to MANAGER MODE.

PRINT

NOTE Ensure the printer is turned ON and the paper is properly aligned before selecting PRINT.

With PRINT selected, a Site Parameters report containing the Forecourt Configuration and Console Configuration is printed on the report printer.

If no further action is required within the SETUP option, press CODE twice to return to MANAGER MODE and select the next required function or option.

TANK MONITOR - CODE 36

NOTE This function has not yet been implemented.

7 TRANSAC-DATAPUMP SYSTEMS

For information relating to the correct procedures necessary for correct Transac-Datapump operation, refer to the Datapump Users' Manual.

8 REPORTS

The following pages of this chapter contain sample reports obtained from the T-24 Console, via a Report Printer.

CAUTION: These reports are samples only. The information contained in each individual report will vary greatly from that obtained from your own site.

ASCOT PETROLEUM
31 NEW STREET
TERRIGAL N.S.W. 2260

13:56 13/11/91
SITE NO 060758

***** SHIFT REPORT *****

REPORT ON SHIFT FROM 11:06 13/11/91
TO 13:56 13/11/91

SHIFT NO 4
CONSOLE #1

PRODUCT SALES

	VOLUME SOLD L	VALUE \$
SUPER	7045.06	4764.09
ULP	5593.47	3772.00
DIESEL	593.33	373.20
LPG	528.97	178.79
PR ULP	5879.61	4318.11
GRADE6	0.00	0.00
GRADE7	0.00	0.00
GRADE8	0.00	0.00

TOTAL ALL GRADES \$ 13406.19

SALES ANALYSIS

GRADE	F COURT \$	KIOSK \$	MANUAL \$
SUPER	0.00	4764.09	0.00
ULP	0.00	3772.00	0.00
DIESEL	0.00	373.20	0.00
LPG	0.00	178.79	0.00
PR ULP	0.00	4318.11	0.00
GRADE6	0.00	0.00	0.00
GRADE7	0.00	0.00	0.00
GRADE8	0.00	0.00	0.00
TOTALS \$	0.00	13406.19	0.00

ERROR TOTALS

P.O.S. XFER
FAIL \$

SUPER	0.00
ULP	0.00
DIESEL	0.00
LPG	0.00
PR ULP	0.00
GRADE6	0.00
GRADE7	0.00
GRADE8	0.00
TOTAL \$	0.00

***** END OF REPORT *****
***** GILBARCO T24 SOFTWARE VERS 32.03 *****

Operating Procedures

TMS-24 Systems

ASCOT PETROLEUM
31 NEW STREET
TERRIGAL N.S.W. 2260

14:21 13/11/91
SITE NO 060758

***** SHIFT REPORT *****

REPORT ON SHIFT FROM 13:56 13/11/91
TO CURRENT

SHIFT NO 5
CONSOLE #1

PRODUCT SALES

	VOLUME SOLD L	VALUE \$
SUPER	312.24	211.11
ULP	307.21	64.15
DIESEL	0.00	0.00
LPG	0.00	0.00
PR ULP	121.69	12.16
GRADE6	0.00	0.00
GRADE7	0.00	0.00
GRADE8	0.00	0.00

TOTAL ALL GRADES \$ 287.42

SALES ANALYSIS

GRADE	F COUNT \$	KIOSK \$	MANUAL \$
SUPER	0.00	211.11	0.00
ULP	0.00	64.15	0.00
DIESEL	0.00	0.00	0.00
LPG	0.00	0.00	0.00
PR ULP	0.00	12.16	0.00
GRADE6	0.00	0.00	0.00
GRADE7	0.00	0.00	0.00
GRADE8	0.00	0.00	0.00
TOTALS \$	0.00	287.42	0.00

ERROR TOTALS

P.O.S. XFER
FAIL \$

SUPER	0.00
ULP	0.00
DIESEL	0.00
LPG	0.00
PR ULP	0.00
GRADE6	0.00
GRADE7	0.00
GRADE8	0.00
TOTAL \$	0.00

***** END OF REPORT *****

***** GILBARCO T24 SOFTWARE VERS 32.03 *****

ASCOT PETROLEUM
31 NEW STREET
TERRIGAL N.S.W. 2260

13:56 13/11/91
SITE NO 060756

***** SHIFT REPORT *****

REPORT ON SHIFT FROM 11:06 13/11/91
TO 13:56 13/11/91

SHIFT NO 1
CONSOLE #2

PRODUCT SALES

	VOLUME SOLD L	VALUE \$
SUPER	7814.80	5285.10
ULP	9247.16	6234.59
DIESEL	1747.15	1098.96
LPG	539.31	182.28
PR ULP	5313.04	3901.62
GRADE6	0.00	0.00
GRADE7	0.00	0.00
GRADE8	0.00	0.00
TOTAL ALL GRADES \$		16702.55

ERROR TOTALS

	P.O.S. XFER FAIL \$
SUPER	0.00
ULP	0.00
DIESEL	0.00
LPG	0.00
PR ULP	0.00
GRADE6	0.00
GRADE7	0.00
GRADE8	0.00
TOTAL \$	0.00

***** END OF REPORT *****
***** GILBARCO T24 SOFTWARE VERS 32.03 *****

Operating Procedures

TMS-24 Systems

ASCOT PETROLEUM
31 NEW STREET
ERRIGAL N.S.W. 2260

14:21 13/11/91
SITE NO 060758

***** SHIFT REPORT *****

REPORT ON SHIFT FROM 13:56 13/11/91
TO CURRENT

SHIFT NO 10
CONSOLE #2

PRODUCT SALES

	VOLUME SOLD L	VALUE \$
SUPER	282.59	124.09
ULP	320.80	216.31
DIESEL	0.00	0.00
LPG	0.00	0.00
PR ULP	179.11	55.55
GRADE6	0.00	0.00
GRADE7	0.00	0.00
GRADE8	0.00	0.00
TOTAL ALL GRADES \$		395.95

ERROR TOTALS

P.O.S. XFER
FAIL \$

SUPER	0.00
ULP	0.00
DIESEL	0.00
LPG	0.00
PR ULP	0.00
GRADE6	0.00
GRADE7	0.00
GRADE8	0.00
TOTAL \$	0.00

***** END OF REPORT *****

***** GILBARCO T24 SOFTWARE VERS 32.03 *****

ASCOT PETROLEUM
31 NEW STREET
TERRIGAL N.S.W. 2260

13:56 13/11/91
SITE NO 060758

***** STATION REPORT *****

STATION TOTALS FROM 11:07 13/11/91
TO 13:56 13/11/91

PERIOD NO 3

PRODUCT SALES

	VOLUME SOLD L	VALUE \$
SUPER	14859.86	10049.19
ULP	14840.63	10006.59
DIESEL	2340.48	1472.16
LPG	1068.28	361.07
PR ULP	11192.65	8219.73
GRADE6	0.00	0.00
GRADE7	0.00	0.00
GRADE8	0.00	0.00

TOTAL ALL GRADES \$ 30108.74

SALES ANALYSIS

GRADE	F COURT \$	KIOSK #1 \$	MANUAL \$	KIOSK #2 \$
SUPER	0.00	4764.09	0.00	5285.10
ULP	0.00	3772.00	0.00	6234.59
DIESEL	0.00	373.20	0.00	1098.96
LPG	0.00	178.79	0.00	182.28
PR ULP	0.00	4318.11	0.00	3901.62
GRADE6	0.00	0.00	0.00	0.00
GRADE7	0.00	0.00	0.00	0.00
GRADE8	0.00	0.00	0.00	0.00
TOTALS	0.00	13406.19	0.00	16702.55

ERROR TOTALS

	P.O.S. CONSOLE #1	XFER FAIL \$ CONSOLE #2
SUPER	0.00	0.00
ULP	0.00	0.00
DIESEL	0.00	0.00
LPG	0.00	0.00
PR ULP	0.00	0.00
GRADE6	0.00	0.00
GRADE7	0.00	0.00
GRADE8	0.00	0.00
TOTAL \$	0.00	0.00

***** END OF REPORT *****
***** GILBARCO T24 SOFTWARE VERS 32.03 *****

Operating Procedures

TMS-24 Systems

ASCOT PETROLEUM
31 NEW STREET
TERRIGAL N.S.W. 2260

14:21 13/11/91
SITE NO 060758

***** STATION REPORT *****

STATION TOTALS FROM 13:56 13/11/91
TO CURRENT

PERIOD NO 4

PRODUCT SALES

	VOLUME SOLD L	VALUE \$
SUPER	594.83	335.20
ULP	628.01	280.46
DIESEL	0.00	0.00
LPG	0.00	0.00
PR ULP	300.80	67.71
GRADE6	0.00	0.00
GRADE7	0.00	0.00
GRADE8	0.00	0.00
TOTAL ALL GRADES \$		683.37

SALES ANALYSIS

GRADE	F COURT \$	KIOSK #1 \$	MANUAL \$	KIOSK #2 \$
SUPER	0.00	211.11	0.00	124.09
ULP	0.00	64.15	0.00	216.31
DIESEL	0.00	0.00	0.00	0.00
LPG	0.00	0.00	0.00	0.00
PR ULP	0.00	12.16	0.00	55.55
GRADE6	0.00	0.00	0.00	0.00
GRADE7	0.00	0.00	0.00	0.00
GRADE8	0.00	0.00	0.00	0.00
TOTALS	0.00	287.42	0.00	395.95

ERROR TOTALS

	P.O.S. XFER FAIL \$ CONSOLE #1	CONSOLE #2
SUPER	0.00	0.00
ULP	0.00	0.00
DIESEL	0.00	0.00
LPG	0.00	0.00
PR ULP	0.00	0.00
GRADE6	0.00	0.00
GRADE7	0.00	0.00
GRADE8	0.00	0.00
TOTAL \$	0.00	0.00

***** END OF REPORT *****
***** GILBARCO T24 SOFTWARE VERS 32.03 *****

ASCOT PETROLEUM
31 NEW STREET
TERRIGAL N.S.W. 2260

14:07 13/11/81
SITE NO 060758

***** CURRENT PUMP TOTALS REPORT *****

ELECTRONIC PUMP TOTALS

PUMP	GRADE	VOLUME L	CASH \$	PUMP	GRADE	VOLUME L	CASH \$
1	DIESEL	2227.33	1411.51	2	SUPER	5414.97	3691.54
3	SUPER	5409.82	3687.66	4	ULP	5408.72	3681.23
5	ULP	5331.91	3628.83	6	PR ULP	5417.98	3960.83
7	PR ULP	5419.03	3861.63	8	SUPER	5423.50	3697.13
9	SUPER	5426.46	3699.26	10	ULP	5427.91	3694.44
11	ULP	5430.88	3696.27	12	DIESEL	2177.14	1379.54
13	LPG	571760.21	2528.59	14	SUPER	2966.62	1817.03
					ULP	2428.14	1570.30
					PR ULP	3747.01	2415.87
					TOTAL \$		5803.20
15	SUPER	3930.77	2565.71	16	SUPER	4191.59	2456.82
	ULP	4085.64	2496.35		ULP	6548.34	4429.04
	PR ULP	4777.94	3528.16		PR ULP	2959.53	2004.84
	TOTAL \$		8590.22		TOTAL \$		8890.70
17	SUPER	4069.75	2528.28	18	SUPER	3408.20	2003.43
	ULP	3632.36	2335.49		ULP	3802.52	2394.69
	PR ULP	2092.46	1312.03		PR ULP	2905.40	2346.66
	TOTAL \$		6175.80		TOTAL \$		6746.78
19	SUPER	2968.62	1817.83	20	SUPER	3704.38	2229.25
	ULP	3589.82	2179.32		ULP	3117.70	1912.11
	PR ULP	3184.76	2794.36		PR ULP	2309.65	1466.56
	TOTAL \$		6791.51		TOTAL \$		5807.92
21	SUPER	2230.03	1343.85	22	SUPER	4340.97	2729.45
	ULP	3997.69	2394.16		ULP	3261.72	1965.40
	PR ULP	2623.75	1700.37		PR ULP	2637.43	2267.13
	TOTAL \$		5438.38		TOTAL \$		6961.98
23	SUPER	3309.63	1978.93	24	LPG	2502.74	757611.73
	ULP	3852.13	2367.61				
	PR ULP	2416.21	1600.54				
	TOTAL \$		5947.08				

***** END OF REPORT *****
***** GILBARCO T24 SOFTWARE VERS 32.03 *****

Press ENTER to access the next function; a combined money (\$) total of ALL grades. The following is displayed:

TOTAL FOR ALL GRADES: \$xxxxxx.xx

Press ENTER to access the next function; grade totals for FORECOURT, KIOSK and MANUAL transactions. The following is displayed:

SUPER: Fxxxxxx.xx Kxxxxxx.xx Mxxxxxx.xx

Use the cursor keys to step through the grades. As you step through the grades, the following money (\$) totals for that grade are displayed.

☐ F = all forecourt ICR and CRIP transactions,

☐ K = all kiosk transactions, and

☐ M = for all pumps operating in Manual Mode.

Press ENTER to access the next function; a combined money (\$) total of ALL grades for FORECOURT, KIOSK and MANUAL transactions. The following is displayed:

TOTAL: Fxxxxxx.xx Kxxxxxx.xx Mxxxxxx.xx

Press ENTER to access the next function; grade totals for POS transactions which failed to be transferred. The following is displayed:

SUPER: P.O.S FAILED \$xxxxxx.xx [←/→]

Use the cursor keys to step through the grades. As you step through the grades, the money (\$) value of the POS transactions which failed to be transferred are displayed.

Pressing ENTER will now place you back in the DISPLAY TOTALS option. If no further action is required within the DISPLAY TOTALS option press CODE to return to the STATION TOTALS option.

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ASCOT PETROLEUM
31 NEW STREET
TERRIGAL N.S.W. 2260

13:57 13/11/91
SITE NO 060756

***** INVENTORY REPORT *****

TANK INVENTORY

TANK NO	GRADE	DECLINING BALANCE L
01	SUPER	49605
02	SUPER	45413
03	ULP	60504
04	ULP	59180
05	DIESEL	83895
06	DIESEL	73036
07	LPG	58114
08	LPG	65239
09	PR ULP	65517
10	PR ULP	37389
11	NO GRADE	0
12	NO GRADE	0
13	NO GRADE	0
14	NO GRADE	0
15	NO GRADE	0

GRADE INVENTORY

01	SUPER	95019
02	ULP	119684
03	DIESEL	156932
04	LPG	123353
05	PR ULP	102907
06	GRADE6	0
07	GRADE7	0
08	GRADE8	0

***** END OF REPORT *****
***** GILBARCO T24 SOFTWARE VERS 32.03 *****

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ASCOT PETROLEUM
31 NEW STREET
TERRIGAL N.S.W. 2260

08:24 14/11/91
SITE NO 080758

***** PRICE CHANGE REPORT *****

VOLUMES SOLD SINCE 08:12 14/11/91

GRADE	PRICE c/L	VOLUME SOLD L	FROM	TO
SUPER	67.9	3122.51	08:19 14/11/91	CURRENT
	64.9	849.89	08:15 14/11/91	08:19 14/11/91
	65.9	2822.09	08:11 14/11/91	08:15 14/11/91
ULP	67.9	3114.80	08:19 14/11/91	CURRENT
	64.9	939.80	08:16 14/11/91	08:19 14/11/91
	65.9	2625.77	08:11 14/11/91	08:16 14/11/91
DIESEL	65.9	445.81	08:19 14/11/91	CURRENT
	62.9	151.66	08:16 14/11/91	08:19 14/11/91
	61.9	412.69	08:11 14/11/91	08:16 14/11/91
LPG	31.8	175.75	08:20 14/11/91	CURRENT
	33.9	42.39	08:16 14/11/91	08:20 14/11/91
	35.9	148.94	08:11 14/11/91	08:16 14/11/91
PR ULP	75.2	1556.99	08:20 14/11/91	CURRENT
	76.5	539.48	08:16 14/11/91	08:20 14/11/91
	75.9	1604.79	08:11 14/11/91	08:16 14/11/91
GRADE6	0.0	0.00	08:11 14/11/91	CURRENT
GRADE7	0.0	0.00	08:11 14/11/91	CURRENT
GRADE8	0.0	0.00	08:11 14/11/91	CURRENT

***** END OF REPORT *****
***** GILBARCO T24 SOFTWARE VERS 32.03 *****

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ASCOT PETROLEUM
31 NEW STREET
TERRIGAL N.S.W. 2260

14:06 13/11/81
SITE NO 060758

***** GRAND TOTALS REPORT *****

GRAND TOTALS FROM 08:03 13/11/81
TO CURRENT

PRODUCT SALES

	VOLUME SOLD L	VALUE \$
SUPER	28801.63	19645.29
ULP	30329.04	20668.56
DIESEL	4404.47	2791.05
LPG	1284.33	431.73
PR ULP	18167.00	13298.76
GRADE6	0.00	0.00
GRADE7	0.00	0.00
GRADE8	0.00	0.00

TOTAL ALL GRADES \$ 56835.39

SALES ANALYSIS

GRADE	F COURT \$	KIOSK \$	MANUAL \$
SUPER	0.00	19645.29	0.00
ULP	0.00	20668.56	0.00
DIESEL	0.00	2791.05	0.00
LPG	0.00	431.73	0.00
PR ULP	0.00	13298.76	0.00
GRADE6	0.00	0.00	0.00
GRADE7	0.00	0.00	0.00
GRADE8	0.00	0.00	0.00
TOTALS	0.00	56835.39	0.00

***** END OF REPORT *****
***** GILBARCO T24 SOFTWARE VERS 32.03 *****

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ASCOT PETROLEUM
31 NEW STREET
TERRIGAL N.S.W. 2260

13:53 13/11/91
SITE NO 060758

***** SITE PARAMETERS REPORT *****

GRADE ASSIGNMENTS & LOW LEVEL SETTINGS

TANK NO	GRADE	LOW LEVEL L	TANK NO	GRADE	LOW LEVEL L	GRADE NO	NAME	LOW LEVEL L
01	SUPER	1000	09	PR ULP	1000	01	SUPER	10000
02	SUPER	1000	10	PR ULP	1000	02	ULP	10000
03	ULP	1000	11	NO GRADE		03	DIESEL	8000
04	ULP	1000	12	NO GRADE		04	LPG	10000
05	DIESEL	2000	13	NO GRADE		05	PR ULP	8000
06	DIESEL	2000	14	NO GRADE		06	GRADE8	
07	LPG	1000	15	NO GRADE		07	GRADE7	
08	LPG	1000				08	GRADE8	

PUMP NO	TYPE	1ST TANK	PRODUCT GRADE	2ND TANK	PRODUCT GRADE	3RD TANK	PRODUCT GRADE
01	HLRT	5	DIESEL				
02	ELIN	1	SUPER				
03	ELIN	2	SUPER				
04	ELIN	3	ULP				
05	ELIN	4	ULP				
06	ELIN	9	PR ULP				
07	ELIN	10	PR ULP				
08	ELIN	1	SUPER				
09	ELIN	2	SUPER				
10	ELIN	4	ULP				
11	ELIN	3	ULP				
12	HLRT	6	DIESEL				
13	HLRT	7	LPG				
14	3MP	2	SUPER	3	ULP	8	PR ULP
15	3MP	2	SUPER	4	ULP	9	PR ULP
16	3MP	2	SUPER	3	ULP	9	PR ULP
17	3MP	1	SUPER	4	ULP	9	PR ULP
18	3MP	1	SUPER	4	ULP	9	PR ULP
19	3MP	1	SUPER	3	ULP	10	PR ULP
20	3MP	1	SUPER	3	ULP	9	PR ULP
21	3MP	2	SUPER	4	ULP	10	PR ULP
22	3MP	1	SUPER	4	ULP	9	PR ULP
23	3MP	1	SUPER	3	ULP	10	PR ULP
24	HLRT	8	LPG				

PAGE 01

***** GILBARCO T24 SOFTWARE VERS 32.03 *****

***** SITE PARAMETERS REPORT *****

CONSOLES CONFIGURATION

PERIPHERAL DEVICES	CONNECTION STATUS
CONSOLE #1	
UNIV ECR	ON SPEED : SLOW
P.O.S. SER PORT	OFF
PRINTER	ON STYLE : ENHANCED
CONSOLE #2	
UNIV ECR	OFF
P.O.S. SER PORT	OFF
PRINTER	OFF
BUFFER MEMORY	ON
GEN AUTHORISATION	ON
DE-AUTH DELAY	00 SECS
PREAUT DELAY	00 SECS
ACCESS CODE :	01
	02
	03
	04
	05
ALLOCATION LIMIT	\$ 00
PUMPS IN MANUAL :	NIL

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***** END OF REPORT *****
***** GILBARCO T24 SOFTWARE VERS 32.03 *****

ASCOT PETROLEUM
31 NEW STREET
TERRIGAL N.S.W. 2260

13:59 13/11/91
SITE NO 080758

***** PUMP PERIOD & CONSOLE VARIANCE REPORT *****

ANALYSIS OF ELECTRONIC PUMP TOTALS FROM 11:46 13/11/91
TO 13:59 13/11/91

PUMP GRADE				PUMP TOTALS		CONSOLE	
				CLOSE	OPEN	THROUGH	VARIANCE
1 DIESEL	VOL	L		2227.33	1366.22	859.11	0.00
	CASH	\$		1411.51	871.13	540.38	0.00
2 SUPER	VOL	L		5414.97	3703.29	1711.68	0.00
	CASH	\$		3691.54	2534.34	1157.20	0.00
3 SUPER	VOL	L		5409.82	3696.44	1713.38	0.00
	CASH	\$		3687.66	2529.44	1158.22	0.00
4 ULP	VOL	L		5406.72	3693.14	1715.58	0.00
	CASH	\$		3681.23	2524.77	1156.46	0.00
5 ULP	VOL	L		5331.91	3614.59	1717.32	0.00
	CASH	\$		3628.83	2471.18	1157.65	0.00
6 PR ULP	VOL	L		5417.96	3698.98	1718.98	0.00
	CASH	\$		3960.83	2699.42	1261.41	0.00
7 PR ULP	VOL	L		5419.03	3698.01	1721.02	0.00
	CASH	\$		3961.63	2698.68	1262.95	0.00
8 SUPER	VOL	L		5423.50	3701.41	1722.09	0.00
	CASH	\$		3697.13	2532.84	1164.29	0.00
9 SUPER	VOL	L		5426.46	3703.15	1723.31	0.00
	CASH	\$		3699.26	2534.20	1165.06	0.00
10 ULP	VOL	L		5427.91	3702.87	1725.04	0.00
	CASH	\$		3694.44	2531.65	1162.79	0.00
11 ULP	VOL	L		5430.88	3704.05	1726.83	0.00
	CASH	\$		3696.27	2532.33	1163.94	0.00
12 DIESEL	VOL	L		2177.14	1323.81	853.33	0.00
	CASH	\$		1379.54	842.80	536.74	0.00
13 LPG	VOL	L		571760.21	571384.41	375.80	0.00
	CASH	\$		2528.59	2401.57	127.02	0.00

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PRINT Station Totals

With PRINT selected, the Console displays the following:

PRINT STATION: **CURRENT** PREVIOUS

This option allows the manager to print a report of the STATION TOTALS from the CURRENT period, or the PREVIOUS period (the period immediately prior to the CURRENT period).

NOTE Ensure the printer is turned ON and the paper is properly aligned.

CURRENT Totals

With CURRENT selected, the following is displayed:

PERIOD xxxx REPORT NOW IN QUEUE

This message will remain on the display until a keyboard key is pressed, *or a printer failure* message is displayed.

Press CODE to return to PRINT STATION TOTALS. Press CODE again to return to the STATION TOTALS option.

PREVIOUS Totals

With PREVIOUS selected, the following is displayed:

PERIOD xxxx REPORT NOW IN QUEUE

This message will remain on the display until a keyboard key is pressed, *or a printer failure* message is displayed. Press CODE to return to the STATION TOTALS option.

RESET STATION TOTALS

WARNING: Station Totals cannot be reset while a shift is still open. All shifts must be closed with the current shift blank, ie. no transactions stored.

***** PUMP PERIOD & CONSOLE VARIANCE REPORT *****

ANALYSIS OF ELECTRONIC PUMP TOTALS FROM 11:46 13/11/91
TO 13:59 13/11/91

PUMP GRADE				PUMP TOTALS		CONSOLE		
				CLOSE	OPEN	THROUGH	THROUGH	VARIANCE
14	SUPER	VOL	L	2966.62	2966.62	0.00	0.00	0.00
		CASH	\$	1817.03	1817.03	0.00	0.00	0.00
	ULP	VOL	L	2428.14	2170.55	257.59	257.59	0.00
		CASH	\$	1570.30	1396.43	173.87	173.87	0.00
	PR ULP	VOL	L	3747.01	3182.90	564.11	564.11	0.00
		CASH	\$	2415.87	2001.25	414.62	414.62	0.00
		TOTAL	\$	5803.20	5214.71	588.49	588.49	0.00
15	SUPER	VOL	L	3930.77	3359.62	571.15	571.15	0.00
		CASH	\$	2565.71	2179.04	386.67	386.67	0.00
	ULP	VOL	L	4065.64	4065.64	0.00	0.00	0.00
		CASH	\$	2496.35	2496.35	0.00	0.00	0.00
	PR ULP	VOL	L	4777.94	4518.96	258.98	258.98	0.00
		CASH	\$	3528.16	3337.81	190.35	190.35	0.00
		TOTAL	\$	8590.22	8013.20	577.02	577.02	0.00
16	SUPER	VOL	L	4191.59	3934.22	257.37	257.37	0.00
		CASH	\$	2456.82	2282.58	174.24	174.24	0.00
	ULP	VOL	L	6548.34	6548.34	0.00	0.00	0.00
		CASH	\$	4429.04	4429.04	0.00	0.00	0.00
	PR ULP	VOL	L	2958.53	2394.37	565.16	565.16	0.00
		CASH	\$	2004.84	1589.45	415.39	415.39	0.00
		TOTAL	\$	8890.70	8301.07	589.63	589.63	0.00
17	SUPER	VOL	L	4069.75	3810.03	259.72	259.72	0.00
		CASH	\$	2528.28	2352.45	175.83	175.83	0.00
	ULP	VOL	L	3632.36	3061.75	570.61	570.61	0.00
		CASH	\$	2335.48	1950.33	385.16	385.16	0.00
	PR ULP	VOL	L	2082.48	2092.48	0.00	0.00	0.00
		CASH	\$	1312.03	1312.03	0.00	0.00	0.00
		TOTAL	\$	6175.80	5614.81	560.99	560.99	0.00
18	SUPER	VOL	L	3408.20	3408.20	0.00	0.00	0.00
		CASH	\$	2003.43	2003.43	0.00	0.00	0.00
	ULP	VOL	L	3802.52	3546.47	256.05	256.05	0.00
		CASH	\$	2394.69	2221.86	172.83	172.83	0.00
	PR ULP	VOL	L	2905.40	2339.15	566.25	566.25	0.00
		CASH	\$	2348.66	1832.47	416.19	416.19	0.00
		TOTAL	\$	6746.78	6157.76	589.02	589.02	0.00

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***** GILBARCO T24 SOFTWARE VERS 32.03 *****

If the Shift Totals have not been cleared, the following will be displayed:

CURRENT SHIFT TOTAL NOT RESET

With RESET selected, the Console displays the following:

STATION CHANGE: CLOSING xxxx OPENING xxxxx

This means that the CURRENT Station Totals period has been closed off and the NEXT period opened. Press CODE to return to the STATION TOTALS option.

If no further action is required within the STATION TOTALS option, press CODE to return to MANAGER MODE then select the next required function or option.

PUMP TOTALS - CODE 31

Access is gained by selecting PUMP TOTALS followed by ENTER, or by entering code "31" followed by ENTER. The following is displayed.

PUMP TOTALS: **DISPLAY** PRINT PERIOD RESET

Two sets of pump totals exist, one in the pump, the other in the Console.

The totals in the pump are the sum of *all* transactions through that pump.

Pump totals contained by the pump are read from the pump by the Console. The pump stores a non-resettable electronic totalizer for both \$ and Litre throughput.

The Console calculates the pumps throughput by subtracting the totalizer values at the opening of a period, from the totalizer values at the end of the period.

When the pump total period is reset, the Console sets the Console pump total to zero and records the most recent totalizer values from the pump as the closing values of the *LAST* period, and also as the opening values of the *CURRENT* (next) period.

Pump totals can be presented in two ways.

- ☐ The *CURRENT* pump totals are a listing of pump totalizer values at the time of reading.
- ☐ The *PERIOD* pump totals are a comparison of the pump totals kept by the Console, with those kept by the pump. The variance (difference) between these values is calculated by the Console, then listed.

Pump period and Console variance can be listed for two time periods.

- ☐ The *CURRENT* period total is calculated from the *most recent* period reset (OPEN), to the present time.
- ☐ The *LAST* period total is calculated from the *second most recent* period reset (OPEN), to the *most recent* period reset (CLOSE).

In the PUMP TOTALS option, you can;

- ☐ display pump totals,
- ☐ print pump totals, or
- ☐ reset the pump totals period.

DISPLAY

This option allows you to select and display individual pump totals. With this option selected, the following is displayed.

DISPLAY TOTALS: CURRENT PERIOD TOTAL

Use the cursor keys to select the required function, or press the CODE key to return to the PUMP TOTALS display.

CURRENT

This option allows you to display the *current* pump totals for individual pumps. With this option selected, the following is displayed.

SELECT PUMP BY PRESSING PUMP SELECT KEY

Press the appropriate pump select key for the pump whose totals are required. The following is displayed.

P xx TOTAL Grade: xxxxxx.xxL \$xxxxxx.xx

where: xx is the pump number and *Grade* is the grade assigned to that pump.

To return to the DISPLAY TOTALS option, press the CODE key; and to return to the PUMP TOTALS option, press the CODE key a second time.

PERIOD TOTAL

This function has not yet been implemented.

PRINT

This option allows you to obtain a print-out of the *Current* and *Period* pump totals. With this option selected, the following is displayed.

PRINT TOTALS: **CURRENT** PERIOD TOTAL

Use the cursor keys to select the required function, or press the CODE key to return to the PRINT TOTALS option.

CURRENT

With this function selected, the Console scans the pumps connected, and, if they are the correct type, reads the totals from the pumps.

After scanning of the pumps has been completed, the pump totals report is placed in the printer queue, and the following is displayed.

READING PUMP TOTALS..... xx

After reading the totals from all pumps connected to the communications loop, the following will be displayed:

CURRENT PUMP TOTALS REPORT NOW IN QUEUE

To return to the PRINT TOTALS option, press the CODE key; to return to the PUMP TOTALS option, press the CODE key a second time.

PERIOD TOTAL

With this function selected, the following is displayed.

PRINT PUMP PERIOD TOTALS: CURRENT LAST

If the *Last* period total is selected, the information held in memory from the last period reset is automatically sent to the printer queue.

If the *Current* period total is selected, the Console scans the pumps connected to it for their totals. After scanning has been completed, the period totals report is placed in the printer queue, and the following is displayed.

READING PUMP TOTALS..... xx

After reading the totals from all pumps connected to the communications loop, the following will be displayed:

CURRENT PERIOD TOTALS REPORT NOW IN QUEUE

To return to the PRINT TOTALS option, press the CODE key; to return to the PUMP TOTALS option, press the CODE key a second time.

RESET PERIOD

This option allows you to reset the pump totals period. In the case of pumps which have electronic totes, the Console will scan the pumps and use the totals values received as the *CLOSE* and *OPEN* values for the *Previous Period* and *Current Period* respectively. The following is then displayed:

READING PUMP TOTALS..... xx

After reading the totals from all pumps connected to the communications loop, the following will be displayed:

PUMP TOTALS PERIOD NOW RESET

- NOTE**
1. Console pump totals for pumps which *do not* have electronic totes are not reset.
 2. Pump totals *cannot* be reset while a pump throughput report is in the print queue.

To return to the PRINT TOTALS option, press the CODE key; to return to the PUMP TOTALS option, press the CODE key a second time.

***** PUMP PERIOD & CONSOLE VARIANCE REPORT *****

ANALYSIS OF ELECTRONIC PUMP TOTALS FROM 11:46 13/11/91
TO 13:59 13/11/91

PUMP GRADE			PUMP TOTALS		CONSOLE		VARIANCE
			CLOSE	OPEN	THROUGH	THROUGH	
19	SUPER	VOL L	2968.62	2968.82	0.00	0.00	0.00
		CASH \$	1817.83	1817.83	0.00	0.00	0.00
	ULP	VOL L	3589.82	3328.86	260.96	260.96	0.00
		CASH \$	2179.32	2003.17	176.15	176.15	0.00
	PR ULP	VOL L	3184.76	2614.64	570.12	570.12	0.00
		CASH \$	2794.36	2375.32	419.04	419.04	0.00
		TOTAL \$	6791.51	6186.32	595.19	595.19	0.00
20	SUPER	VOL L	3704.38	3136.91	567.47	567.47	0.00
		CASH \$	2229.25	1845.07	384.18	384.18	0.00
	ULP	VOL L	3117.70	3117.70	0.00	0.00	0.00
		CASH \$	1912.11	1912.11	0.00	0.00	0.00
	PR ULP	VOL L	2309.65	2053.97	255.68	255.68	0.00
		CASH \$	1466.56	1278.64	187.92	187.92	0.00
		TOTAL \$	5607.92	5035.82	572.10	572.10	0.00
21	SUPER	VOL L	2230.03	2230.03	0.00	0.00	0.00
		CASH \$	1343.85	1343.85	0.00	0.00	0.00
	ULP	VOL L	3997.69	3997.69	0.00	0.00	0.00
		CASH \$	2394.16	2394.16	0.00	0.00	0.00
	PR ULP	VOL L	2623.75	1791.95	831.80	831.80	0.00
		CASH \$	1700.37	1089.00	611.37	611.37	0.00
		TOTAL \$	5438.36	4827.01	611.37	611.37	0.00
22	SUPER	VOL L	4340.97	3518.50	822.47	822.47	0.00
		CASH \$	2729.45	2172.64	556.81	556.81	0.00
	ULP	VOL L	3261.72	3261.72	0.00	0.00	0.00
		CASH \$	1965.40	1965.40	0.00	0.00	0.00
	PR ULP	VOL L	2637.43	2637.43	0.00	0.00	0.00
		CASH \$	2267.13	2267.13	0.00	0.00	0.00
		TOTAL \$	6961.98	6405.17	556.81	556.81	0.00
23	SUPER	VOL L	3309.63	3309.63	0.00	0.00	0.00
		CASH \$	1978.93	1978.93	0.00	0.00	0.00
	ULP	VOL L	3852.13	3282.90	569.23	569.23	0.00
		CASH \$	2367.61	1983.38	384.23	384.23	0.00
	PR ULP	VOL L	2416.21	2153.28	262.92	262.92	0.00
		CASH \$	1600.54	1407.29	193.25	193.25	0.00
		TOTAL \$	5847.08	5369.60	577.48	577.48	0.00
24	LPG	VOL L	2502.74	2106.04	396.70	396.70	0.00
		CASH \$	757611.73	757477.65	134.08	134.08	0.00

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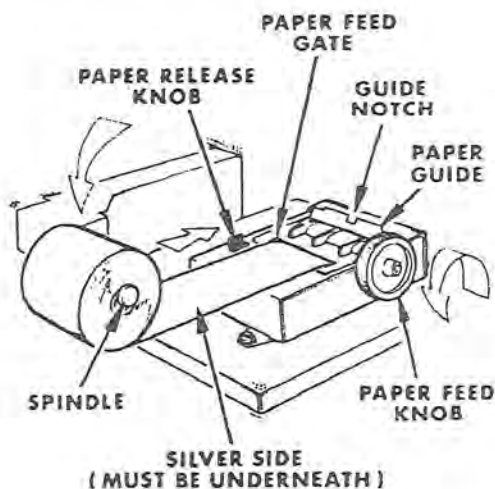
ICR RECEIPT PRINTER

Fig. 16 - ICR Receipt Printer

To change the paper roll:

- ☐ Unlock and open the ICR front panel.
- ☐ Pull back the latch and swing the printer assembly outwards.
- ☐ Remove the used paper roll from the spindle.
- ☐ Press the paper release knob and pull the paper backwards out of the printer.
- ☐ Position a new paper roll on the spindle, ensuring the roll is fitted with the silver side underneath.

WARNING If the paper is fitted upside down, the receipts will be blank.

- ☐ Insert the paper into the feed gate and rotate the feed knob until the paper just appears at the guide notch. If the paper is fed past the edge of the paper guide, push the release knob and pull the paper back.

- ❑ Close and latch the paper roll support.

NOTE If the printer has previously jammed, the print head may be blocking the path of the paper. In this case, turn off the power to the ICR by reaching into the back of the cabinet and turning off the mains and battery switches. Wait for a few seconds, then turn both switches on again. The printer should try and print a blank line leaving print head clear. Now try feeding the paper through again. If unsuccessful, call for service.

- ❑ Turn off the power to the ICR by reaching into the back of the cabinet and turning OFF the mains and battery switches. Wait for a few seconds, then turn both switches ON again.
- ❑ Check that the receipt printer prints two lines of text.
- ❑ Close and lock the ICR front panel.

4 LUBRICATION AND ADJUSTMENT

There are no parts on the system which require lubrication or adjustment.

5 TRANSAC-DATAPUMP MAINTENANCE

For all information related to the Operator Maintenance of Transac- Datapump Systems, refer to the Datapump Users' Manual.

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CHAPTER 4

OPERATOR FAULT FINDING

The fault finding instructions should be carried out by the operator. By doing this first, the system may not be out of operation for very long, and service personnel may not need to be called.

The subjects covered in this chapter are:

1. Transac 24 Console.
General Failures and Error Messages
2. Transac-Datapump systems.

1 TRANSAC 24 CONSOLE

GENERAL FAILURES

The Fault Finding instructions given here can usually be performed by the attendant or operator to correct TMS-24 system operation so that an authorised service representative does not have to be called.

First, see if the fault condition appears in the following list under "Symptom". If listed, perform the corresponding tasks in the sequence given under "Action". If the faulty condition is not listed, or it cannot be corrected by performing the tasks given, it will be necessary to call an authorised service representative.

SYMPTOM	ACTION
Product & Software Version numbers do not appear when the Console is switched on at the mains outlet. The LEDs do not start flashing, and the other displays do not show flashing 8s.	Make sure that the DDM mains cable is plugged into the mains outlet, and that the mains power is switched ON. At the switchboard, make sure the circuit breaker or fuse is not tripped or blown.
A steady display showing the pump number and last transaction values does not appear after entering normal operating mode, or after an EMERG-STOP situation.	Make sure that the Console is in the correct operating mode. Make sure that the green LEDs on the Interconnect Box are ON and the neon is OFF. Make sure that the relevant switches are in the correct position for all pumps in the system.

SYMPTOM	ACTION
The Console does not receive a CALL from any pump, and the pumps cannot be authorized.	Make sure that the Console is in the correct operating mode.
Pressing pump select produces an incorrect pump number and transaction details for the pump selected. The status LEDs are functioning correctly.	Make sure that the Console is in the correct operating mode.
When the nozzle is lifted on a particular pump there is no audible signal and no flashing status LED	Make sure that the Console is in the correct operating mode. Make sure that the green LEDs on the Interconnect Box are ON and the neon is OFF. Make sure that the relevant switches are in the correct position for all pumps in the system. Make sure that the pump in question is in the correct operating mode (Self-Serve).
When the nozzle is lifted on a particular pump there is no audible signal and no flashing status LED. However, the LED is in a steady state and the pump does deliver fuel.	Make sure that the Console is in the correct operating mode.

SYMPTOM	ACTION
A pump cannot be authorized and the status LED for that pump does not light. All other LEDs function correctly.	Make sure that the green LEDs on the Interconnect Box are ON and the neon is OFF. Make sure that the relevant switches are in the correct position for all pumps in the system. Make sure that the pump in question is in the correct operating mode (Self-Serve). Make sure that the previous or buffered transaction on that pump has been finalized, ie., paid off.
Pump communications seems unreliable, (i) it takes a few seconds for the Console display to settle when a pump is selected, (ii) LEDs are flashing at an uneven rate, or (iii) there is no "real time" display where there should be.	Make sure that all pump types are programmed correctly in the Console.
A transaction cannot be "buffered" for stored payment.	Make sure that the Console has been programmed for "buffered" payments.

ERROR MESSAGES

The following are the error messages, their meaning, and the actions required.

☐ - WARNING - CONNECT AUXILIARY DISPLAY

The Console has detected that the Auxiliary Display is not connected; this display *must* be connected for correct operation.

☐ - WARNING - GRADE xxxxxx LOW

The low-level limit programmed for grade xxxxxx has been reached.

☐ - WARNING - MASTER MODE NOT ALLOWED

Not all pumps are in the OFF state; the timer must be complete, and transactions must be paid off.

☐ - WARNING - PRESET NOT FITTED ON PUMPS

Console Presets have been disabled.

☐ - WARNING - TANK xx LOW

The low-level limit programmed for this tank has been reached.

☐ BATTERY TEST IN PROGRESS - CHECK LATER

The DDM batteries are currently being tested; re-check later.

☐ BUFFERED PAYMENT NOT PROGRAMMED

The Console has *not* been programmed to allow "buffered" payments.

***** PUMP PERIOD & CONSOLE VARIANCE REPORT *****

SUMMARY OF TOTALS FROM 11:46 13/11/91
TO 13:59 13/11/91

GRADE			ALL PUMPS THROUGHPUT	----- CONSOLE THROUGH	----- VARIANCE
SUPER	VOL	L	9348.64	9348.64	0.00
	CASH	\$	6322.50	6322.50	0.00
ULP	VOL	L	8799.21	8799.21	0.00
	CASH	\$	5833.08	5833.08	0.00
DIESEL	VOL	L	1712.44	1712.44	0.00
	CASH	\$	1077.12	1077.12	0.00
LPG	VOL	L	772.50	772.50	0.00
	CASH	\$	261.10	261.10	0.00
PR ULP	VOL	L	7315.02	7315.02	0.00
	CASH	\$	5372.49	5372.49	0.00
GRADE6	VOL	L	0.00	0.00	0.00
	CASH	\$	0.00	0.00	0.00
GRADE7	VOL	L	0.00	0.00	0.00
	CASH	\$	0.00	0.00	0.00
GRADE8	VOL	L	0.00	0.00	0.00
	CASH	\$	0.00	0.00	0.00
TOTAL VOLUME		L	27947.81	27947.81	0.00
TOTAL MONEY		\$	18966.29	18966.29	0.00

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***** END OF REPORT *****
***** GILBARCO T24 SOFTWARE VERS 32.03 *****

☐ **CODE ENTERED NOT WITHIN RANGE**

The code entered for the function required is outside the allowable range.

☐ **CPU RAM FAILURE - SYSTEM HALT**

Call for service.

☐ **C.T.S./R.T.S. LINE - FAULTY**

The Console has detected a faulty communications line, call for service.

☐ **CURRENT PUMP PERIOD NOT RESET**

The function currently being attempted requires the Pump Period to be reset first.

☐ **CURRENT SHIFT & STATION TOTALS NOT RESET**

The function currently being attempted requires the Shift and Station Totals to be reset first.

☐ **CURRENT SHIFT TOTAL ALREADY RESET**

A Shift Total reset was attempted after the Shift Totals had already been reset.

☐ **CURRENT SHIFT TOTALS NOT RESET**

The function currently being attempted requires the Shift Totals to be reset first.

☐ **CURRENT STATION TOTAL ALREADY RESET**

A Station Total reset was attempted after the Station Totals had already been reset.

☐ **D.C.D./D.T.R. LINE - FAULTY**

The Console has detected a faulty communications line, call for service.

☐ **EPROM FAILURE - SYSTEM HALT**

A memory failure was detected during the automatic self-tests, call for service.

☐ **ERROR - PRINTER NOT CONFIGURED**

A report was requested without the printer being configured in the system.

☐ **ERROR - PRINTER QUEUE ALREADY FULL**

An attempt was made to send a report to the printer while the print queue was full.

☐ **LAST TEST BAD - NEXT TEST AT xx:xx:00**

The last battery test failed. The battery will now be tested every hour until deemed "good". The time shown is the time of the *next* test.

☐ **MAINS OFF - BUFFERED PAYMENTS ONLY**

Mains power has failed; only "buffered" payments can be cashed off.

☐ **MAINS OFF - POWERING DOWN**

Mains power has failed with *no* "buffered" payments being held; the Console will now go into shut-down mode.

☐ **MAINS ON - RESUME FULL OPERATION**

Mains power has been restored; normal operation may now resume.

☐ **P ~~xx~~ TOTAL NOT AVAILABLE — PUMP NOT OFF**

Pump XX is still in use; wait till the pump is in the OFF state before requesting pump totals.

☐ **PREPAID PRESET TRANSACTION IN PROGRESS**☐ **PRINTER DOWN — LOW PAPER**

Low paper was detected in the printer; printer now off-line until paper is replaced.

☐ **PRINTER DOWN — NOT ON LINE**

Communications with the printer has failed; check that the printer is ON LINE.

☐ **PUMP AVAILABLE BUT NOT PROGRAMMED**

The pump selected has not been programmed in the Console.

☐ **PUMP LOOP 1-12 BROKEN OR SHORTED**

Call for service.

☐ **PUMP LOOP 13-24 BROKEN OR SHORTED**

Call for service.

☐ **PUMP ~~xx~~ NOT CORRECT TYPE FOR TOTAL INIT**

The pump in question is *not* capable of storing totals.

☐ **PUMP ~~xx~~ TYPE/GRADE NOT YET ASSIGNED**

Programming for this pump is incomplete; finish programming.

☐ **S.I.O. RECEIVER FAULTY**

Call for service.

☐ TANK xx GRADE NOT YET ASSIGNED

Programming for this pump is incomplete; finish programming.

☐ THIS PUMP NOT AVAILABLE

The pump selected is not available to the Console; check that a valid pump number has been selected. If it is a valid number, make sure the pump is switched on at the Interconnect Box.

☐ TOTALS RAM FAILURE — SYSTEM HALT

A memory failure was detected during the automatic self-tests, call for service.

☐ WATCHDOG/CPU TEST — FAIL

Call for service.

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CHAPTER 3

OPERATOR MAINTENANCE

This chapter outlines the necessary maintenance which should be carried out by the operators/attendants to ensure the equipment continues functioning correctly.

The subjects covered in this chapter are:

1. General precautions when maintaining equipment.
2. Cleaning the system.
3. Changing paper in printers.
4. Lubrication and adjustment.
5. Transac-Datapump maintenance.

1 GENERAL PRECAUTIONS

Observe these precautions when cleaning and caring for the equipment.

CONSOLE

Do not use any type of cleaning compound or solvent to clean console. Use only a dampened cloth.

Do not place liquids or powders near the control console. Serious damage will occur if they spill inside.

Do not remove any safety covers; remember -

ELECTRICITY CAN KILL

Avoid placing the console in a position where it will be exposed to direct sunlight. Operation in the shade will facilitate display viewing and avoid overheating.

Do not attempt to lubricate the buttons and switches on the control console.

The frequency of inspection and cleaning is dependent upon the environment in which the equipment is installed. The best method for cleaning is with a soft brush or low pressure air.

PUMPS AND DISPENSERS

Avoid the use of solvents on any of the viewing windows. Use damp cloths or chamois to clean.

Check the operation of the safety shut-off feature of your nozzles at least weekly. Call for service if defective.

Regularly inspect the quality of hose to nozzle couplings and report any defect or leakage.

Never hose inside the pump, as water will enter Flame-proof enclosures and damage the equipment.

2 CLEANING THE SYSTEM

The card readers, printers and external surfaces require cleaning periodically.

CARD READERS

The card readers should be cleaned every 2,000 or 3,000 transactions or whenever the misreading of cards becomes a problem.

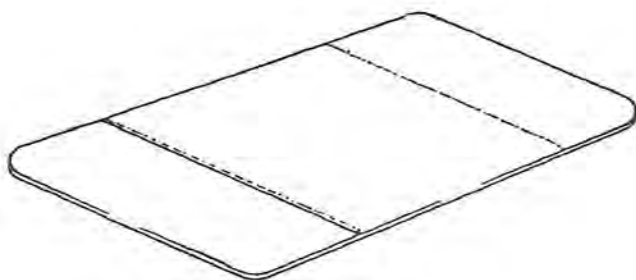


Fig. 13 - Cleaning Card for Card Readers

With the cleaning surface facing to the right side of ICR, swipe the card through the reader. Repeat this procedure four or five times.

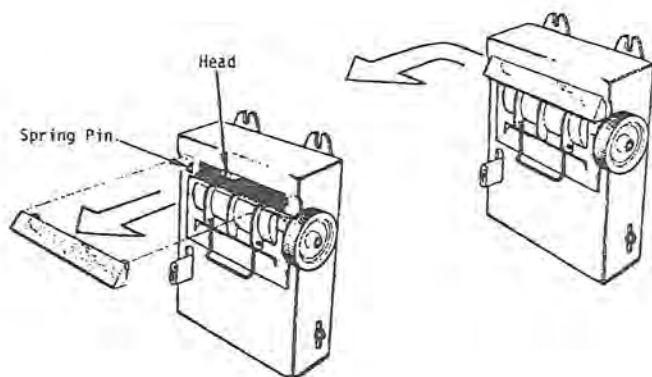
CONTROLLER AND ICR PRINTERS

Fig. 14 - Print Head

The print head should be cleaned every 3 to 4 months, or when print quality deteriorates. To get to the head, remove the paper cutter by sliding it to the left and lifting it straight up.

Clean the print head using a cotton swab and methylated spirits. Rub back and forth on each side of the print head electrodes. This must be done carefully, as the print head could be easily damaged by rough handling. Ensure that no cotton fibres remain stuck to the print head.

For journal printer only, replace the paper cutter by placing the left side of the paper cutter against the spring pin on the left side of the paper opening. Press cutter to the left and allow it to drop into place.

EXTERNAL SURFACES

The external surfaces of the Controller and ICR(s) should be cleaned with a damp, soft cloth. The white painted surfaces may be polished with an ordinary car polish.

Under no circumstances should solvents be used, particularly on the face of the ICR.

3 CHANGING PAPER IN PRINTERS

When the paper rolls in the Controller journal printer and the ICR receipt printer need replacing, use only approved metallized paper.

- ☐ Controller Journal (100 metres) DQ08720-001
- ☐ ICR Receipt (30 metres) DQ08720-002

CONTROLLER JOURNAL PRINTER

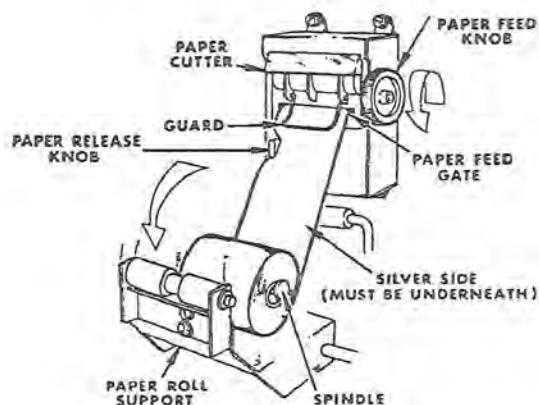


Fig. 15 - Journal Printer

To change the paper roll:

- ☐ Ensure all transactions are complete and all nozzles hung up.
- ☐ Unlock and open external door.
- ☐ Swing down the journal printer paper receptacle cover.
- ☐ Remove the used paper roll from the spindle.
- ☐ Tear off and save the journal already printed.
- ☐ Swing back the paper roll support into the load position.

- ❑ Press the paper release knob and pull the paper backwards out of the printer.
- ❑ Position a new paper roll (DQ08720-001) on the spindle. Ensure the roll is fitted with the silver side underneath.

WARNING If the paper is fitted upside down no transactions will be recorded.

- ❑ Lift up the guard and insert the paper into the paper feed gate. Rotate the paper feed knob until the paper feeds past the paper cutter.

NOTE If the printer has previously jammed, the print head may be blocking the path of the paper. In this case, turn off the mains power to the Controller, at the switchboard or power outlet, and wait for 15 seconds. Turn the power on again. After the printing stops, the print head should be left clear of the paper path. Try feeding the paper through again. If unsuccessful, call for service.

- ❑ Take up the slack on the paper roll and swing the paper roll support back into the operating position.
- ❑ With the keyswitch set to NORMAL, press the TEST SWITCH. Any items which were not printed on the journal should then be printed.
- ❑ If the printer has not already printed something, check that it works correctly by turning the key to the MGR position then back to NORMAL. The printer will print the Manager Menu.
- ❑ Re-attach and close the journal paper receptacle.
- ❑ Close and lock the Controller external door.

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