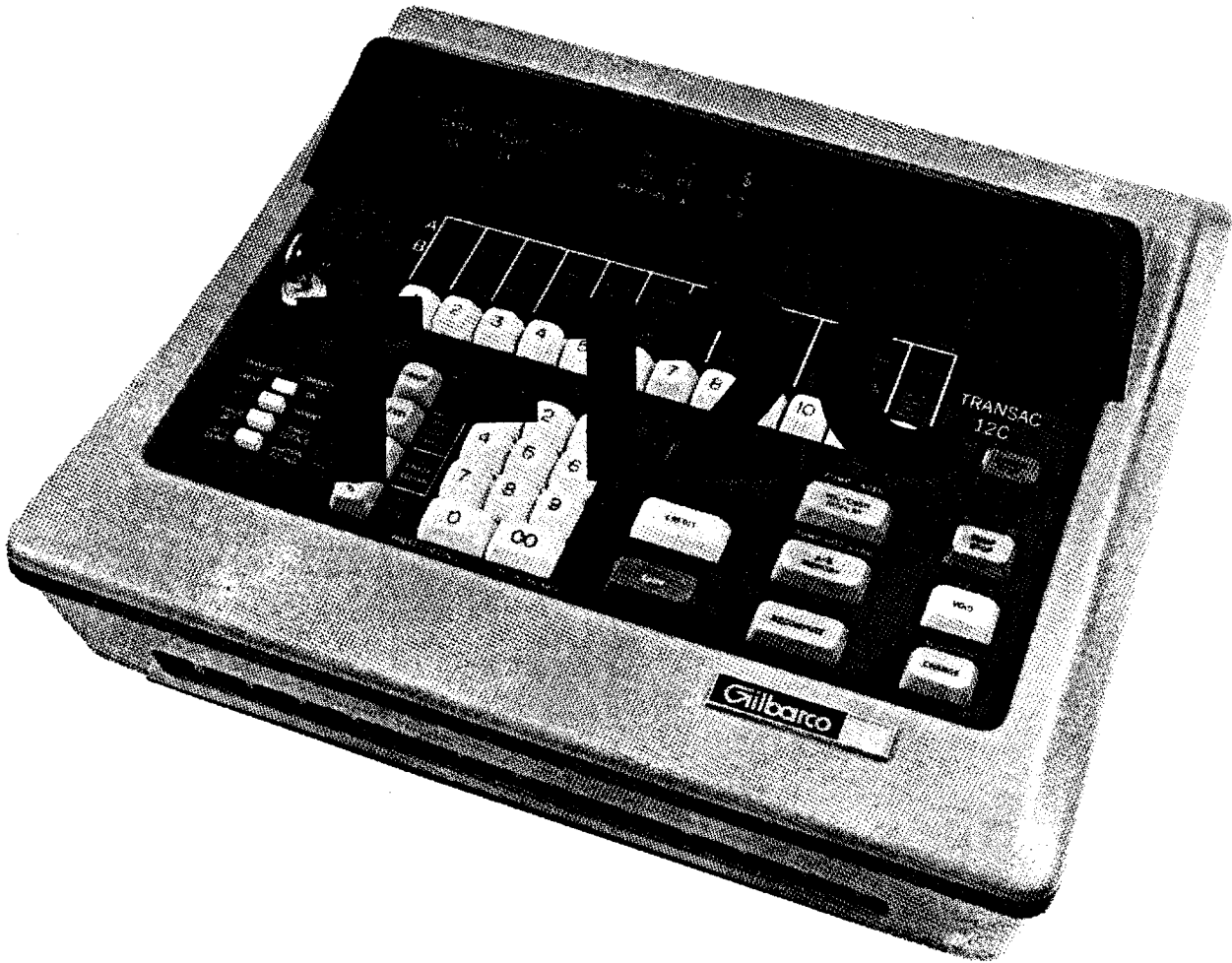


MDE1907A

# Gilbarco



# Operator Manual

15JUL87

## WARNING

This equipment generates, uses, and can radiate radio frequency energy and if not installed according to instructions in this manual, may cause interference to radio communications. It has been tested and found to comply with the limits for a Class A computing device pursuant to Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference in which case the user at his own expense will be required to take whatever measures may be required to correct the interference.

This document is subject to change without notice. Considerable effort is expended to make it a valuable source of information and reference. However, it is not meant to be a substitute for adequate technical training for those involved in the installation and service of this equipment.

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# 1.0 GENERAL DESCRIPTION

## 1.1 OVERVIEW

## 1.2 FEATURES

## 1.3 DISPLAY

## 1.4 KEYBOARD

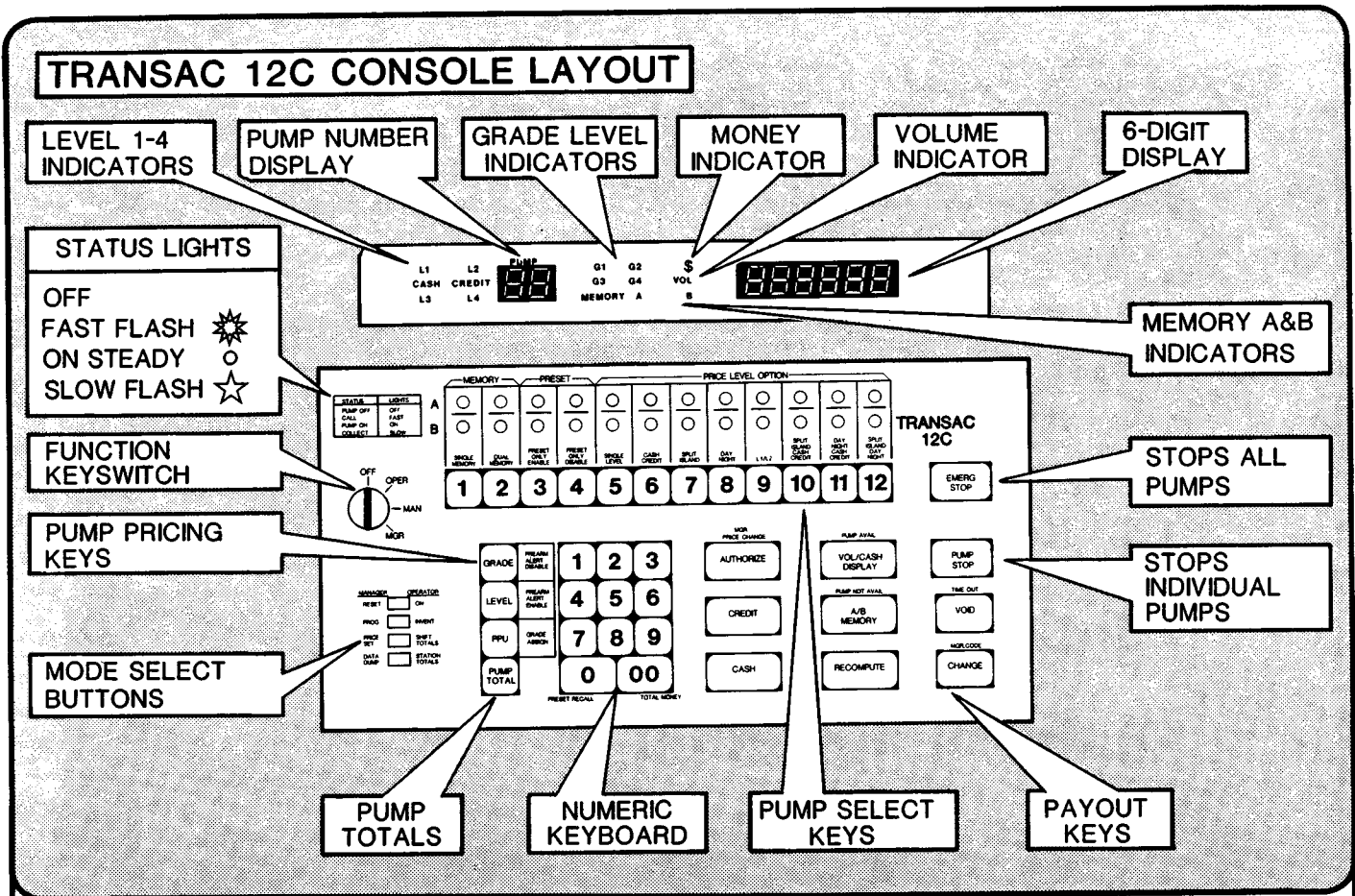
## 1.5 DISTRIBUTION SYSTEM

## 1.6 INITIAL POWER-UP

### CAUTION

**In an emergency (spillage, etc.): Remove all station power by activating the station emergency power cut-off switch (if available). If not available, turn off all breakers controlling power to the forecourt and to the STP.**

**REASON: The EMERGENCY STOP key will not stop the pumping action of the pumps submerged in tanks, and may not stop the flow of fuel from the hose in all conditions.**



## 1.1 OVERVIEW

The T12C Console is a fuel dispenser controller which interfaces directly with Gilbarco Two-Wire dispensers. It incorporates many enhancements over its predecessors, the T12A and the T12B.

This manual has been developed for the T12C Console Operator. It provides a comprehensive guide to the Operational features of the console.

For T12C Programming Instructions, see MDE1905.

For T12C Installation Instructions, see MDE1908A.

For T12C Service Information, see MDE2065.

MDE1906 is an Operator's Quick Reference Flip Chart which the operator may find useful for day to day reference.

The T12C can be a valuable tool for monitoring inventory as well as controlling gasoline pumps. The Station Totals function will show gallons to the one-hundredth and dollars to the penny.

## 1.2 FEATURES

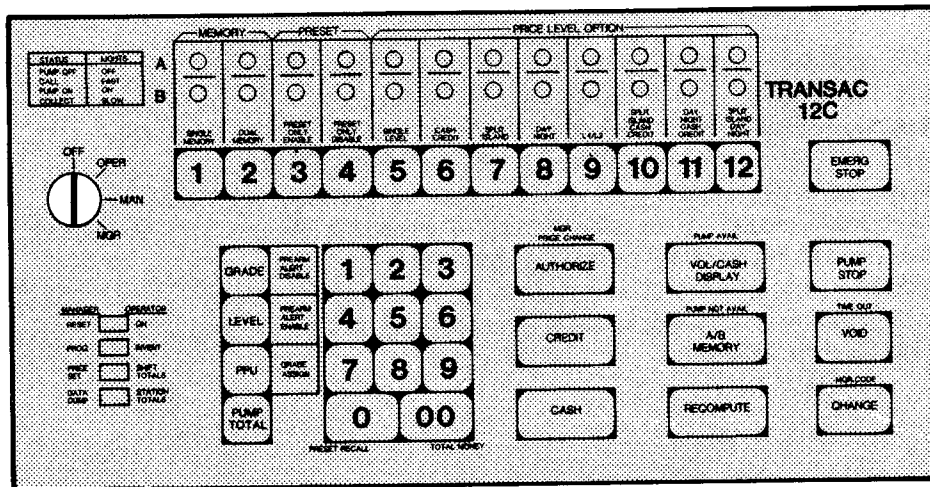
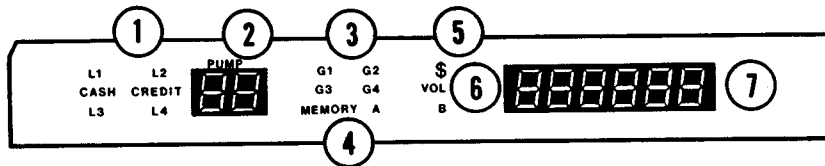
- The T12C can control up to 12 pump identifications or up to six MPD units.
- It has programmable low level inventory warning.
- It will handle prepay or postpay sales.
- It will read the dollar and volume amount of each purchase.
- It has status indicators for each pump.
- Central Price Setting for all pumps.
- Buffer memory capabilities (This allows back-to-back sales on the same hose with the console retaining the sale amounts of each sale.)
- EMERGENCY STOP key allowing the operator to stop all deliveries and a PUMP STOP key allowing the operator to stop individual pumps.
- The console has the capability for automatic de-authorization of a pump if the pump has not been used within a programmed time period.
- Provides SHIFT and STATION TOTALS by grade and level as well as CASH and CREDIT totals.
- Equipped with a battery backup system to retain all totals and inventory information for a minimum of 72 hours if the AC power is interrupted.
- The console can be used to place any or all pumps in a MANUAL or SELF SERVICE mode while still retaining full totals and inventory data.

In addition to the standard features previously mentioned, the T12C incorporates the following new features:

- ● Four level pricing - Cash/Credit, Day/Night, Split Island.
- ● Six grade capability - Each pump can be set for any of 6 grades.
- ● Real time money display - Displays money amount while pumping.
- ● RECOMPUTE key - Changes CASH display to CREDIT or L1 to L2.
- ● Programmable security code - Limits access to programmable variables.
- ● PRESET ONLY mode - programmable for preset transactions exclusively.
- ● VOID key - cancels prepay preset authorization.
- ● CHANGE key - computes change from amount tendered.
- ● Assignable grades - Any grade can be assigned to any pump.
- ● Enhanced station totals

# 1.3 DISPLAY

- ① L1-L4 This group of four LED's indicates the price level being used at any particular time. L1 is used if only one price is programmed. These LED's also indicate the method of payment immediately after a transaction is paid out. For CASH, L1 and L3 are on. For CREDIT, L2 and L4 are on.
- ② PUMP This display shows the pump number of the pump selected.
- ③ G1-G4 This group of four LED's indicates one of six possible grades being used at any given time. (Grade 5 is indicated when G4 and G1 are on; Grade 6 is indicated when G4 and G2 are on.)
- ④ A/B MEMORY When MEMORY A is lit, the first memory of a transaction on the selected pump is displayed. Single memory has MEM A only.  
  
When MEMORY B is lit, the second memory of a transaction on the same selected pump is displayed. Dual memory only.
- ⑤ MONEY (\$) When the money indicator is lit, it indicates that the display shows a dollar amount.
- ⑥ VOL When this indicator is lit, it indicates that the display is showing a volume amount.
- ⑦ DISPLAY The red 6-digit, 7-segment display displays either the dollar amount, a volume amount, or a mnemonic indicating the mode for which the console is set.



# 1.4 KEYBOARD

① **STATUS LEDs** These indicators show the status of the pump. These indicators also show the options that are selected in the programming mode.

- 1) OFF - Pump is idle. (De-authorized)
- 2) FAST FLASH - Pump Call (Nozzle out)
- 3) STEADY ON - Pump is authorized.
- 4) SLOW FLASH - Payment due (Nozzle in)

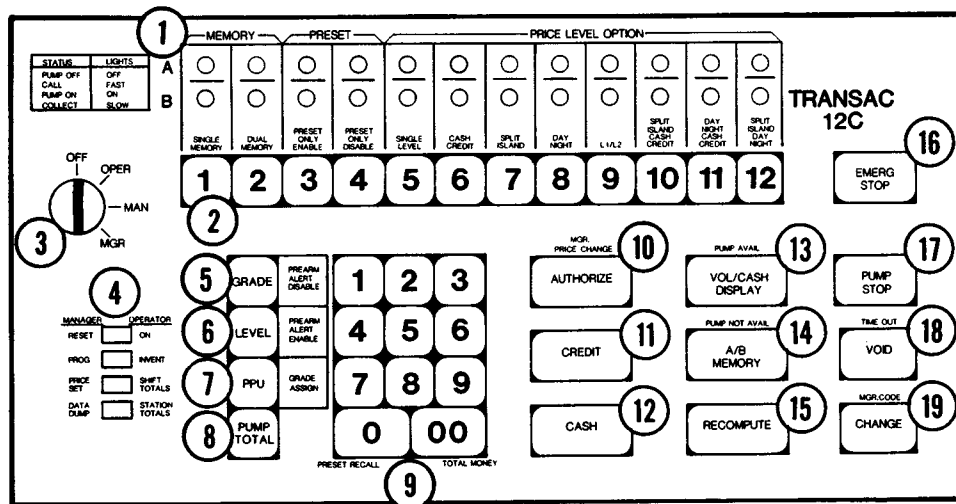
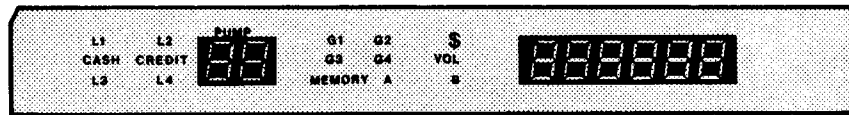


② **PUMP SELECT KEYS** These keys select the appropriate pump to be authorized, stopped, paid out, etc. These keys also select memory, preset, and price level options when the console is in the programming mode.

③ **FUNCTION KEYSWITCH** This switch selects the following functions:

- 1) OFF Console is inoperable. Can be placed in diagnostics mode.
- 2) OPER Normal position
- 3) MANUAL Full/Self Mode programming position
- 4) MGR Security position for manager functions, accessible with Manager key only.

There are two keys for this keyswitch, the OPERATOR key and the MANAGER key. The Manager key has access to all functions, but the Operator key will access only the OFF, OPERATOR, and MANUAL positions.



## 1.4 KEYBOARD Cont'd

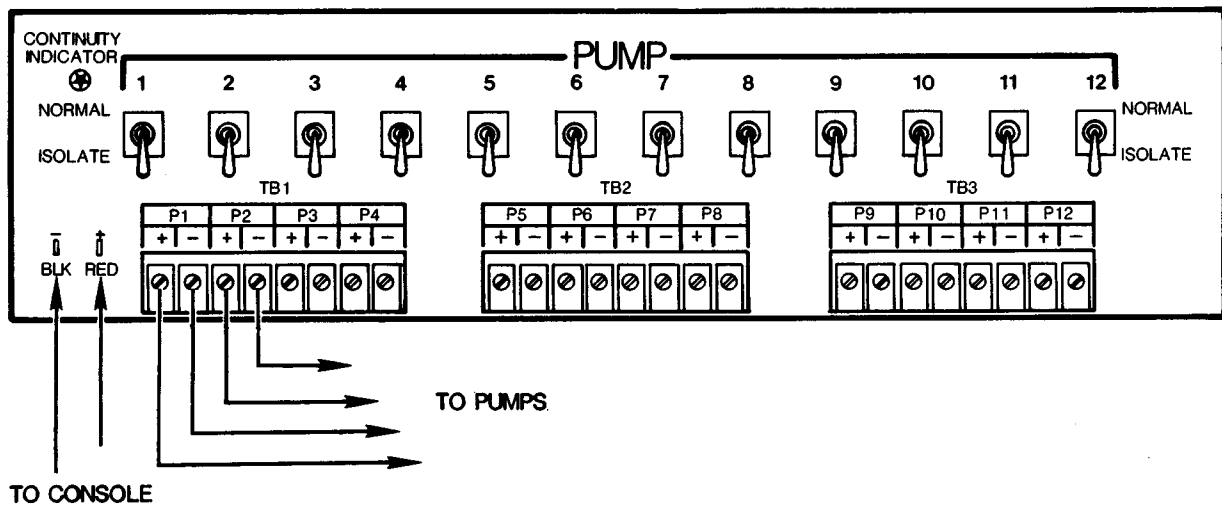
- ④ **MANAGER/OPERATOR MODE SELECT BUTTONS**
- Each button has a dual function depending on the position of the Function Keyswitch. The left side denotes the manager functions and the right side denotes the operator functions. Full details will be discussed later.
- ⑤ **GRADE**                      Used for grade selection operation. Also disables the Prearm Alert in the programming mode.
- ⑥ **LEVEL**                      Used to assign the price level to any pump, or to change the price level of a pump. Also enables the Prearm Alert in the programming mode.
- ⑦ **PPU**                         Used to display PPU information, for One Time Price Change function, and to program grade assignments.
- ⑧ **PUMP TOTAL**                Used to display money and running volume totals, and to activate printout with Dot-2.
- ⑨ **NUMERIC KEYBOARD**        Used for entering numeric information.
- ⑩ **AUTHORIZE**                  For authorization of a selected pump.
- ⑪ **CREDIT**                      Used to complete a sale if the payment is by CREDIT.
- ⑫ **CASH**                         Used to complete a sale if the payment is by CASH.
- ⑬ **VOL/CASH DISPLAY**        Changes the displayed transaction information from CASH to VOLUME or VOLUME to CASH.
- ⑭ **A/B MEMORY**                Used to recall Alternate Memory A or Memory B. When pressed once, alternate memory is recalled.
- ⑮ **RECOMPUTE**                 Recalculates CASH price of last transaction to CREDIT or CREDIT to CASH.  
Recalculates Level 1 price of last transaction to Level 2 or Level 2 to Level 1.
- ⑯ **EMERGENCY STOP**         When pressed, will STOP all pumps. All status lights and displays will flash.
- ⑰ **PUMP STOP**                 Used to STOP individual pumps. Also used to override a pre-authorized pump or to de-authorize a pump authorized in error.
- ⑱ **VOID**                         Cancels prepaid authorization.
- ⑲ **CHANGE**                      Shows change due from an incomplete prepay preset and computes change from amount tendered.

# 1.5 DISTRIBUTION SYSTEM

The console is supplied with a Two-Wire distribution box. All pumps must connect to the terminal strip below the switches. To disconnect any pump from the system, simply place the switch for that pump in the ISOLATE position.

If the Two-Wire circuit is complete, the loop indicator will be on. If this indicator does not light, place all switches in the ISOLATE position. The light should come on at this point. If not, there is a problem with the console. Ensure that the console is on and the wires to the distribution box are complete.

If the console checks OK when all switches are placed in ISOLATE position, the operator should place each switch one by one, in the normal position. If there is a problem with any pump's Two-Wire circuit, the loop indicator will go off when the switch to that pump is placed in the NORMAL position. The failed pump can remain isolated while the others are operated normally.



**1.6 INITIAL POWER-UP****CAUTION**

**CHECK THE PART NUMBER OF THE PROCESSOR BOARD ON THIS T-12C CONSOLE BEFORE POWERING UP.**

**IF THE PROCESSOR BOARD NUMBER IS T15899-G1, MOVE JUMP JACK JP5 TO JP4 BEFORE APPLYING POWER TO THE CONSOLE.**

**IF THE PROCESSOR BOARD ASSEMBLY NUMBER IS T16249 OR T16322 AND THE T12C IS NOT UP AND RUNNING, SEE MDE2065: T12C SERVICE MANUAL.**

## **2.0 OPERATOR FUNCTIONS**

**2.1 OVERVIEW**

**2.2 AUTHORIZATION OPTIONS**

**2.3 PRICE-LEVEL OPTIONS**

**2.4 PAYOUT OPTIONS**

**2.5 GENERAL FUNCTIONS**

**2.6 TOTALS**

**2.7 GENERAL KEYS**

## 2.1 OVERVIEW

The Operator Functions Section of this manual is organized into four categories:

- OVERVIEW OF THE CONSOLE
- AUTHORIZATION OPTIONS
- PRICE LEVEL OPTIONS
- PAYOUT OPTIONS
- TOTALS REPORTS
- GENERAL KEY FUNCTIONS

T12C operation consists of **Authorization Options, Payout Options, and General functions** used in combination within a specific price level option to customize system operation.

One of several **Price Level options** is chosen when the console is initially programmed.

**Authorization Options, Payout Options and General Functions** are chosen and programmed to tailor an individual site to specific needs of the business. Most options can be used in any combination desired. Some notable exceptions are:

- **Preset Only Options** which are limited Preset Transactions.
- **Price Level Options** are limited to the specific combinations described in section 2.3.
- **One-Time price change** which must be performed between transactions.

Three of the four general functions can be used simultaneously on a given transaction. For instance, you can re-compute the price and calculate the change on a 'B-Memory' transaction.

The T12C will provide resettable shift totals, station totals and inventory information. The inventory data can be adjusted for deliveries and 'Low Warning' set points can be established.

Study the OPERATOR FUNCTIONS section thoroughly before attempting to operate the console.

## 2.2 AUTHORIZATION OPTIONS

### MANUAL

This mode allows the operator to set individual fueling positions to either **FULL SERVICE** or **SELF SERVICE**. To enter this mode, the keylock must be in **MAN** (manual) position.

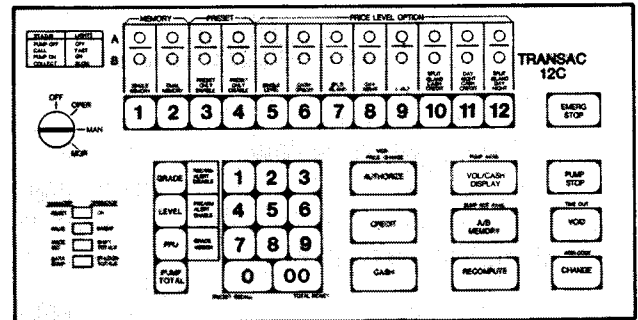
**KEYLOCK: MAN.**  
**MODE SELECT BUTTON: ON**

Press a **PUMP SELECT** key.

To select **FULL SERVICE** for that pump:  
 Press **AUTHORIZE**.

To select **SELF SERVICE** for that pump:  
 Press double zero (**00**).

Press **AUTHORIZE**.



**FILL-UP**

**KEYLOCK: OPER**

**MODE SELECT BUTTON: ON**

Customer removes nozzle from pump number 1.

Console beeps 4 time repeatedly. Pump #1 status light will fast flash. Displays last transaction.

**AUTHORIZATION**

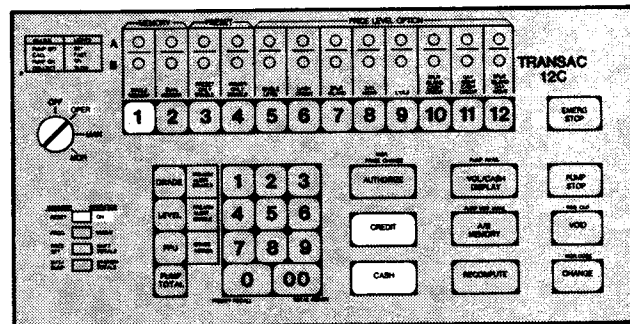
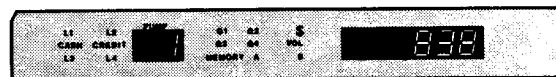
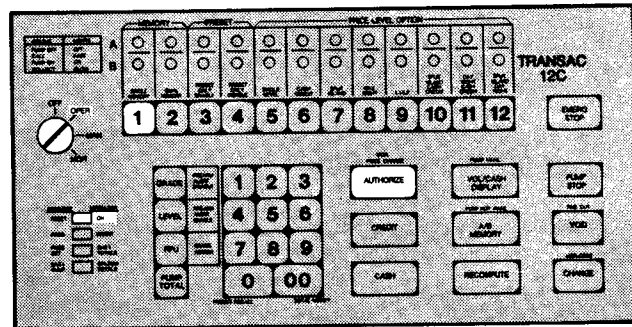
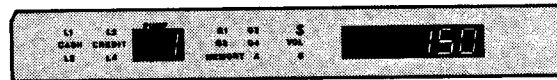
1. Press **PUMP SELECT #1** Key  
Pump # display shows 1
2. Press **AUTHORIZE**  
Pump resets and starts. Numerical display shows running total. Pump #1 status light is steady on.

Customer takes delivery and stops. Customer replaces nozzle. Console will beep once. Pump #1 status light will slow flash. Customer arrives at kiosk.

**PAYOUT**

1. Press pump select #1 key display shows total for sale.
2. Press **CASH** or **CREDIT** key. **CASH** or **CREDIT** LED lights. Pump #1 Status light goes off and Display total remains.

The T12C will hold the memory of the last transaction. Memory can be recalled by pressing the pump key until the pump is re-authorized.



**PRESET OPTIONS**

**PRESET PREPAY:**

**KEYLOCK: OPER**

**MODE SELECT BUTTON: ON**

Customer arrives at kiosk and requests \$10.00 worth of regular gasoline. (PUMP #2)

Authorize:

1. Press **PUMP SELECT** key (#2) Pump number and last transaction are displayed. **MONEY (\$)** indicator is on.
2. Enter preset amount using numeric keyboard. (In this example, \$10.00) Display shows preset amount. **MONEY (\$)** indicator is **OFF**.
3. Press **CASH** or **CREDIT** key. Cash or Credit **LED** lights. Status light (#2) flashes fast. **MONEY (\$)** indicator is **ON**.
4. Press **AUTHORIZE**. Status light (#2) is on.

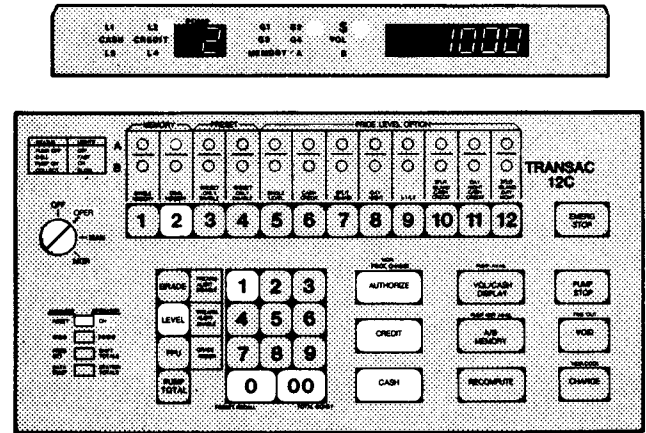
Customer raises pump handle. Both **MONEY (\$)** and **VOLUME** indicators come on.

Customer completes delivery. Pump turns off when it reaches \$10.00 total.

Customer replaces nozzle. Pump #2 status light goes off. Display shows total.

This type of transaction is prepaid. Therefore, no action is required at the console after the pump handle is turned off.

**NOTE:** a Preset value must not be less than \$ 0.10.



**PRESET POSTPAY:**

**KEYLOCK: OPER**

**MODE SELECT BUTTON: ON**

Customer requests \$10.00 worth of regular.

Authorize

1. Press **PUMP SELECT** key (#2). Pump number and last transaction are displayed

- A Press **LEVEL**
- B Press **CASH** or **CREDIT**

**NOTE:** In price level modes L1/L2, press **LEVEL** only.

2. Enter preset amount using numeric keyboard (in this example \$10.00). Display shows preset amount. **MONEY** indicator is **OFF**.
3. Press **AUTHORIZE** Status light (#2) is on. **MONEY** indicator comes **ON**.

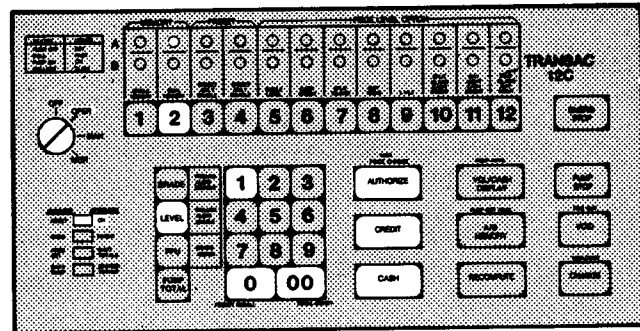
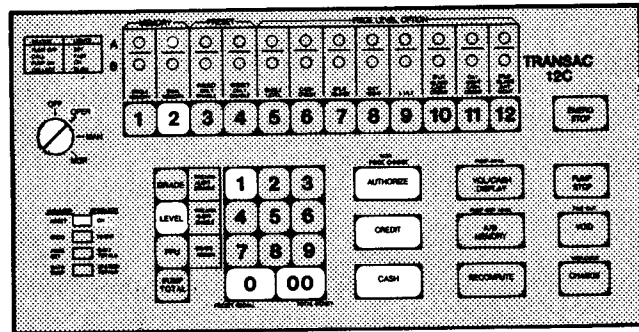
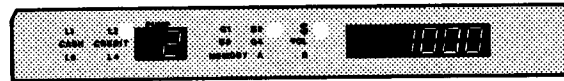
Customer raises pump handle and begins delivery.

Customer completes delivery. Pump turns off when \$10.00 goal is reached and pump #2 status light will slow flash. Customer arrives at kiosk.

**PAYOUT**

1. Press **PUMP SELECT** #2 key. Display shows total sale (\$10.00).
2. Press **CASH** or **CREDIT** key.

**CASH** or **CREDIT** LED lights. Pump #2 status light goes off. Display total remains.



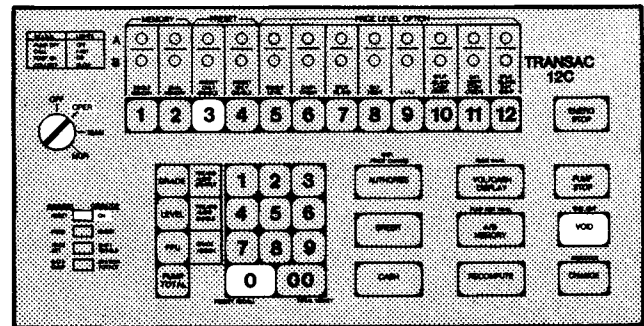
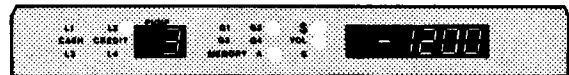
**PRESET CORRECTION:**

**KEYLOCK: OPER**  
**MODE SELECT BUTTON: ON**

The preset amount can easily be voided in case of an error.

To void a transaction that has already been preset, refer to the following:

1. Press **PUMP SELECT** key.  
 Current cash, level, and grade indications will be displayed. Status light shows call signal.
2. Press **PRESET RECALL (zero key)**.  
 Pump number and preset amount will be displayed. **MONEY** and **VOLUME** indicators are **ON** indicating a preset sale.
3. Press **VOID**.  
 Pump number, minus sign, and preset amount will be displayed. Status light will be off.
4. Re-enter correct transaction information and authorize.



## 2.3 PRICE LEVEL OPTIONS

### DUAL PRICE OPTION (L1/L2)

#### DUAL PRICE OPTION (L1/L2)

**KEYLOCK: OPER**  
**MODE SELECT BUTTON: ON**

When L1/L2 option has been selected during the programming sequence, one of two programmed price levels can be selected for a given transaction during the authorization cycle.

1. Follow appropriate operational sequence for type of transaction authorization desired.

Except:

After desired pump select key is pressed:

2. Check L1/L2 LEDs for existing price level selection. If opposite price level is desired, press **LEVEL** key.
3. Continue with appropriate authorization sequence for type of transaction desired.

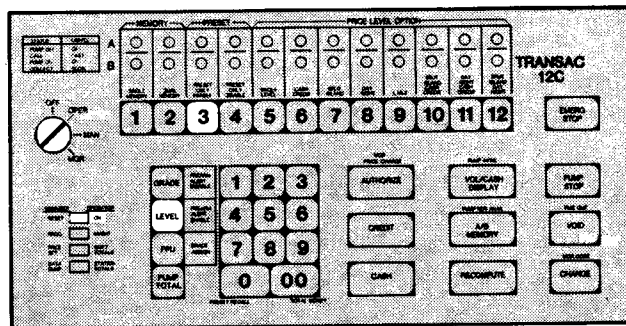
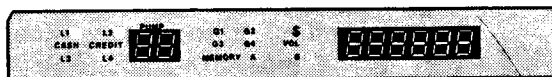
#### PRICE

L1 - Level 1 price (Cash)

L2 - Level 2 price (Credit)

L3 - not used

L4 - Not used



### DAY/NIGHT PRICE OPTION

When Day/Night option is selected during the programming sequence, the console will switch price levels at all hoses simultaneously. Press the authorize key after the level key is pressed.

NOTE: This operation is done between transactions. Only pumps with pump handles in off position will receive new price.

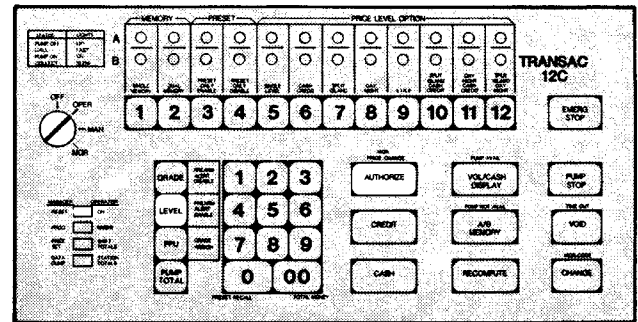
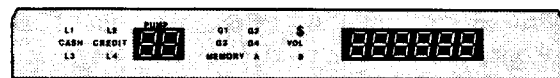
**KEYLOCK: OPER.**

**MODE SELECT BUTTON: INVENT**

1. Press LEVEL key if opposite price is desired.
2. Press AUTHORIZE to enter the change. Operate system as usual after price selection.
3. Press ON mode selection button to restore normal operation.

### PRICE LEVEL MATRIX

- L1 - Day price
- L2 - Night price
- L3 - not used
- L4 - not used



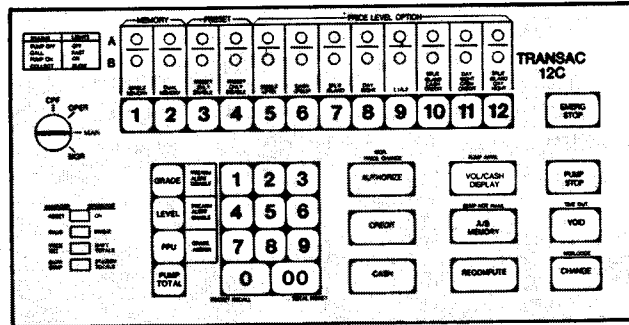
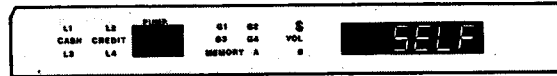
### SPLIT-ISLAND PRICE OPTION

**KEYLOCK: OPER**  
**MODE SELECT BUTTON: ON**

When split island option is selected during the programming operation, it will be possible to use some hoses in self-serve mode while others are used in the full-serve mode. The console will maintain management data on all hoses, self-serve and full-serve.

To select those hoses to be operated in the full-serve mode, use manual mode programming instructions. See Page 11.

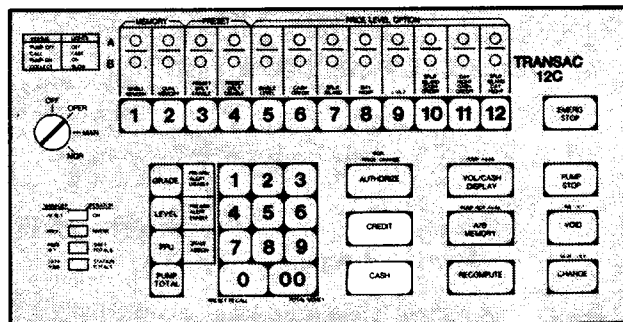
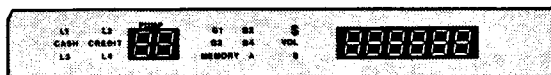
- L - Cash
- L2 - Credit
- L3 - Not Used
- L4 - Not Used



### CASH/CREDIT PRICE OPTION

**KEYLOCK: OPER**  
**MODE SELECT BUTTON: ON**

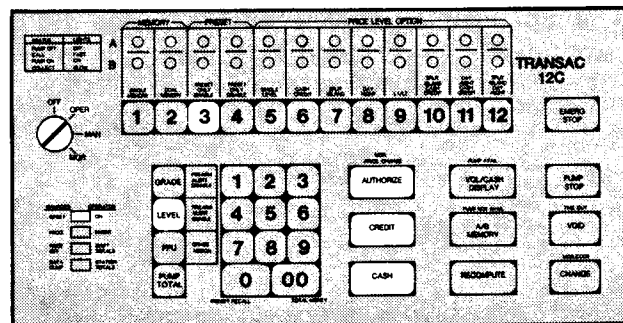
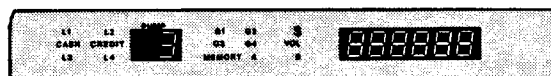
When the CASH/CREDIT option is selected during the programming cycle, one of two price levels can be established for each transaction, during the authorization sequence. Payout price level selection must agree with the authorization selection.



### FILL-UP SALE:

**KEYLOCK: OPER**  
**MODE SELECT BUTTON: ON**

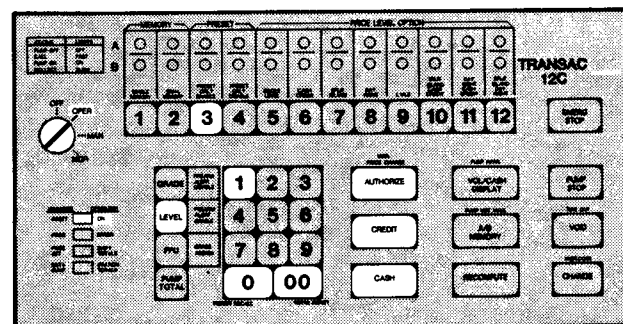
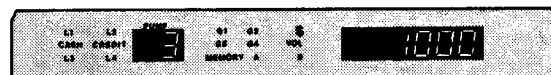
1. Press PUMP SELECT key.
2. Press LEVEL key.
3. Select CASH or CREDIT key.
4. Press AUTHORIZE key.



### PRESET POST-PAY SALE:

**KEYLOCK: OPER**  
**MODE SELECT BUTTON: ON**

1. Press PUMP SELECT.
2. Press LEVEL.
3. Select CASH or CREDIT.
4. Enter sale amount using numeric keypad (\$10.00).
5. Press AUTHORIZE.

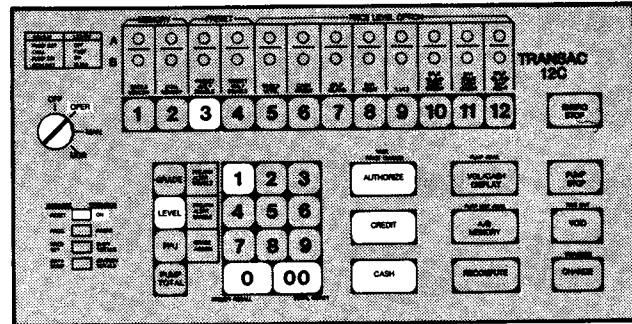
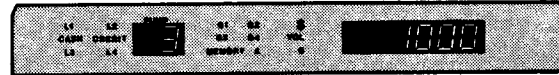


**PRESET/PREPAY SALE:**

**KEYLOCK: OPER**  
**MODE SELECT BUTTON: ON**

1. Press **PUMP SELECT**.
2. Enter the sale amount using numeric keypad.
3. Select **CASH** or **CREDIT**. \*
4. Press **AUTHORIZE**.

**NOTE:** On pumps with customer cash/credit selection feature, console and pump must agree for authorization to be achieved. A prepaid sale must be voided to correct a selection error.



**PRICE LEVEL MATRIX**

- L1 - CASH
- L2 - CREDIT
- L3 - Not used
- L4 - Not used

\* Simultaneously selects price level and pays sale out.

### SPLIT-ISLAND/DAY-NIGHT OPTION

**KEYLOCK: OPER**  
**MODE SELECT BUTTON: ON**

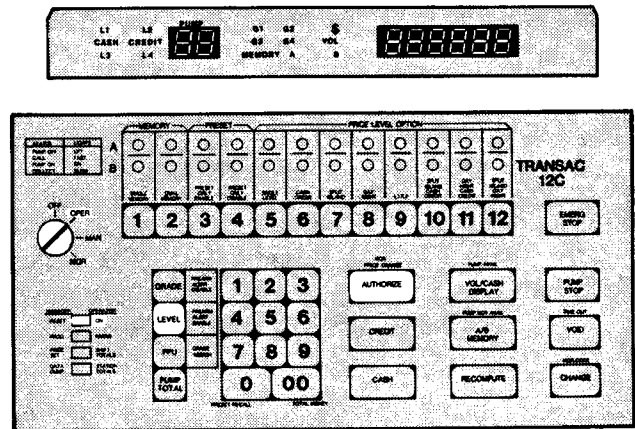
When split island, day/night price option is selected during the programming cycle, one of four prices is possible at a given hose.

**FULL SERVICE** hoses have a **DAY** and a **NIGHT** price.

**SELF SERVICE** hoses have a **DAY** and a **NIGHT** price.

**SET UP:**

1. To set up **SELF SERVE/FULL SERVE** hoses, follow key strokes in **MANUAL MODE** programming instructions (Page 11).
2. Return **KEYLOCK** to **OPER**.
3. Follow procedure given on Page 17 in this manual for **DAY/NIGHT Price Option**.



### SPLIT-ISLAND/CASH-CREDIT OPTION

**KEYLOCK: OPER**  
**MODE SELECT BUTTON: ON**

When the **SPLIT ISLAND, CASH/CREDIT** option has been selected during the programming cycle, **TWO** of **FOUR** prices are possible at a given hose.

**FULL SERVICE** hoses are capable of both **CASH** and **CREDIT** prices.

**SELF SERVICE** hoses are capable of both **CASH** and **CREDIT** prices.

**SET UP:**

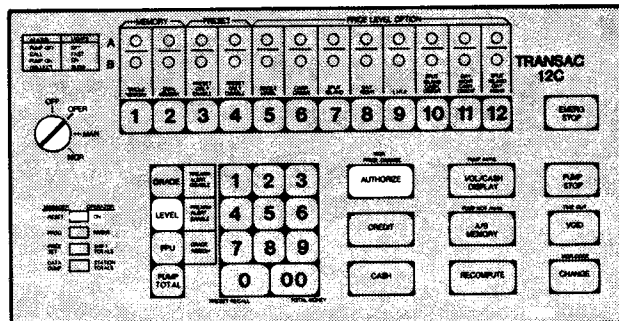
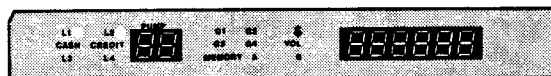
To set up **SELF SERVE/FULL SERVE** hoses, follow key strokes in given on Page 11 for programming in **MANUAL MODE**.

The **CASH/CREDIT** price option on self serve hoses is selected during the **AUTHORIZATION** cycle, following keystroke pattern outlined in the **CASH/CREDIT** option, Page 20. The console operator can Press: **PUMP SELECT**, then **L1** or **L2/CASH OR CREDIT** for a fillup using a manual pump.

**NOTE:** On self service hoses with customer **CASH/CREDIT** selection, console and pump must agree for **AUTHORIZATION** to be achieved. A **PREPAID** sale must be **VOIDED** to correct a selection error.

#### PRICE LEVEL MATRIX

- L1 - Cash, Self Service
- L2 - Credit, Self Service
- L3 - Cash, Full Service
- L4 - Credit, Full Service



### DAY/NIGHT-CASH/CREDIT OPTION

KEYLOCK: OPER  
 MODE SELECT BUTTON: ON

When the DAY/NIGHT, CASH CREDIT option has been selected during the programming cycle, TWO of FOUR prices are possible at a given hose.

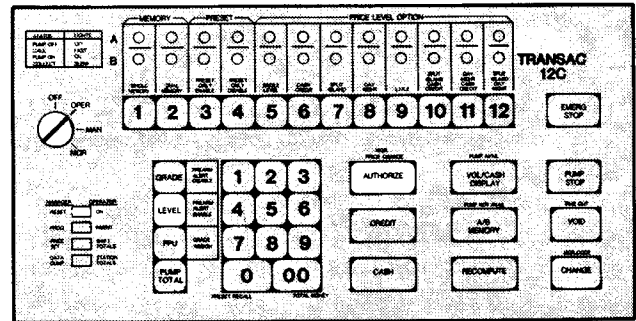
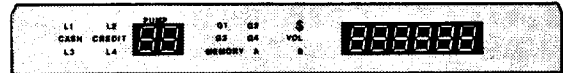
Both CASH and CREDIT price levels can be shifted from DAY LEVEL to NIGHT LEVEL or vice versa by following DAY/NIGHT price change procedure on Page 17.

Be sure to perform the DAY/NIGHT price shift between transactions since only pumps with pump handle in the OFF position will assume the new price levels.

Follow the procedures for CASH/CREDIT operation.

#### PRICE LEVEL MATRIX

- L1 - Day, Cash
- L2 - Day, Credit
- L3 - Night, Cash
- L4 - Night, Credit



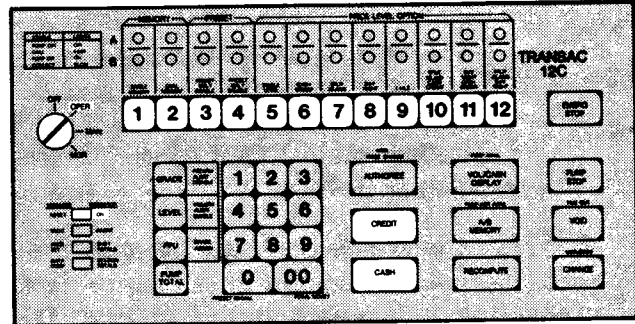
## 2.4 PAYOUT OPTIONS

### POST-PAY SALE PAYOUT

**KEYLOCK: OPER**  
**MODE SELECT BUTTON: ON**

1. Press **PUMP SELECT**.
2. Press either **CASH** or **CREDIT** key, depending upon method of payment.

**NOTE:** When operating in a **CASH/CREDIT** mode, payout selection must match price level of transaction.



### PREPAY PAYOUT

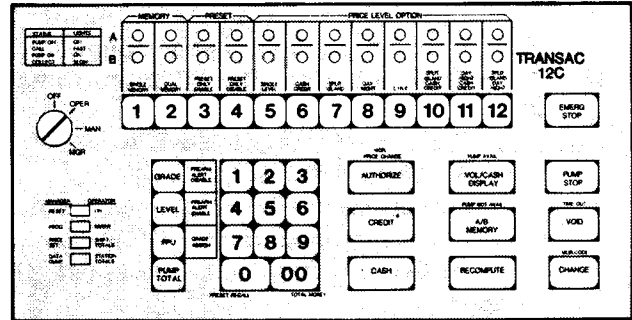
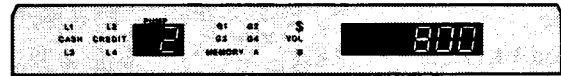
#### INCOMPLETE PREPAY:

KEYLOCK: OPER

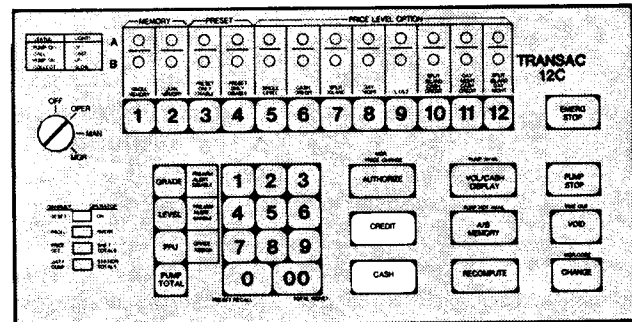
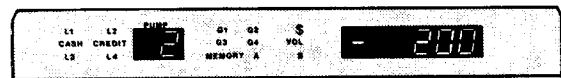
MODE SELECT BUTTON: ON

A customer requests \$10.00 worth of gasoline. After the amount is preset with T12C, the customer only pumps \$8.00 worth of fuel. The pump status light will slow flash indicating collect signal.

1. Press **PUMP SELECT (#2)**. The display will show the *amount*, **GRADE**, and **LEVEL** for that pump. (In this example the *amount* is \$8.00).

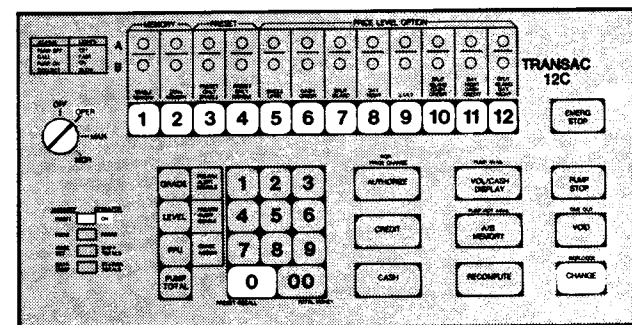
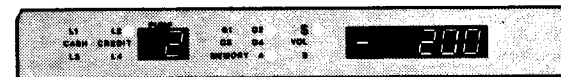


2. Press **CASH** or **CREDIT**. Pump number and level will be displayed along with a minus sign and the amount of change due the customer. (In this example \$2.00).



#### TO REDISPLAY CHANGE:

1. Press **PUMP SELECT**.
2. Press preset recall (**0** key).
3. Press **CHANGE** key.





**PRICE CONVERSION (RECOMPUTE)**

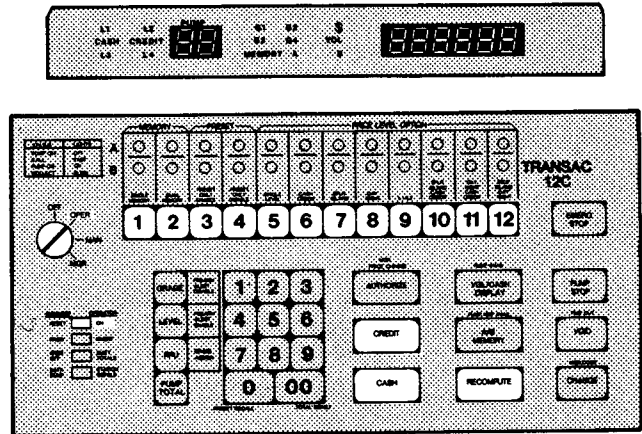
**KEYLOCK: OPER**  
**MODE SELECT BUTTON: ON**

This feature is designed for use with CASH/CREDIT or L1, L2 sales if the customer changes his/her mind about the method of payment after the delivery is complete (but before payout).

**POST PAY SALE:**

1. Press desired **PUMP SELECT**.
2. Press **RECOMPUTE** key.
3. Pay out by pressing **CASH** or **CREDIT**, as appropriate.

**NOTE:** Pressing **PUMP SELECT** again will restore the original transaction data.



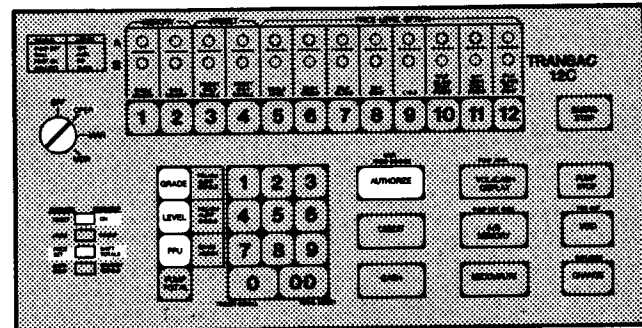
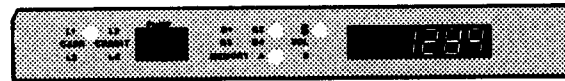
## ONE-TIME PRICE CHANGE

**KEYLOCK: OPER**

**MODE SELECT BUTTON: ON**

This operation provides a quick, one time, method of changing the price level without a manager key.

1. Press the manager "PRICE SET" mode button.
2. Press PPU.
3. Enter the **MANAGER CODE** that was set in the programming mode.
4. Press **AUTHORIZE**.
5. Press **GRADE** to sequence through the grades.
6. Press **LEVEL** to sequence through the levels.
7. Enter the new **PPU** value using the numeric keyboard.
8. Press **AUTHORIZE** after each **PPU** entry.
9. Repeat steps 5 - 8 for each new **PPU**.
10. Press **PPU** key to exit this mode. (Caution: No return after exit).
11. Press **ON MODE SELECT BUTTON** to return to normal operation.



**DUAL MEMORY**

When the dual memory option is selected during the programming cycle, it will be possible to authorize a transaction on a particular hose before the previous transaction on that hose has been paid out.

First customer completes a delivery on pump #1.

Customer #1 is late in arriving at Kiosk to pay.

Customer No. 2 removes nozzle at hose #1.  
 Console call signal sounds.  
 A status light for hose #1 will maintain a slow flash rate.

B status light for hose #1 will begin flashing at a fast rate.

**KEYLOCK: OPER**

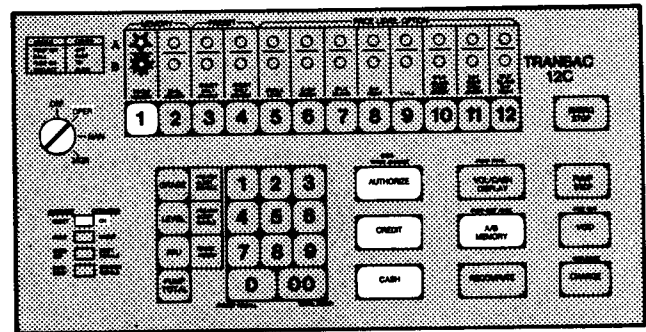
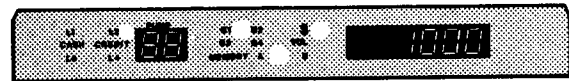
**MODE SELECT BUTTON: ON**

To authorize the "B" memory transaction:

1. Press **PUMP SELECT**.
2. Press **A/B MEMORY**
3. Authorize per any standard procedure.
3. After **AUTHORIZE** is pressed, indicator for "B memory will be on (if A/B was pressed before **AUTHORIZE**).

"A Memory" transaction can be paid out during or after "B Memory" transactions. To pay out,

1. Press **PUMP SELECT**.
2. Observe **A/B MEMORY** indicators on display.



3. Press **A/B MEMORY** key if payout of other than indicated memory is desired.
4. Press **CASH** or **CREDIT** key to payout transaction or select another payout option.

## 2.6 TOTALS

### PUMP TOTALS

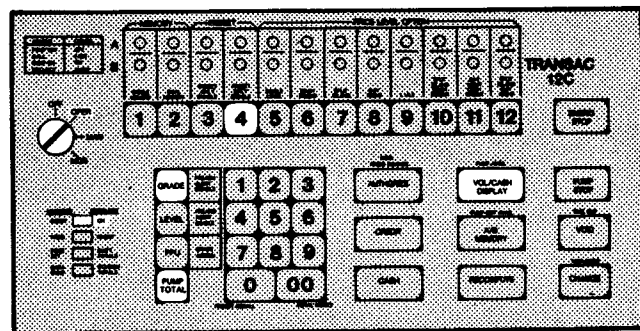
**KEYLOCK: OPER**

**MODE SELECT BUTTON: ON**

To obtain pump memory totals for each grade of fuel use the following procedure:

1. Press **PUMP SELECT**.  
Last transaction cash, level, and grade will be displayed.
2. Press **PUMP TOTAL** key.  
Display will momentarily flash **MONEY, VOLUME, and DECIMAL POINT LED's**, then it will show total **MONEY** at **GRADE 1**.
3. Press **VOL/CASH**.  
Toggles between total money and total volume when key is pressed. The **MONEY** and **VOLUME LED'S** will also toggle.
4. Press **GRADE**.  
Changes to next grade. (Grade LED changes to the next grade.)

**NOTE:** If a Transac DOT-2 printer is connected to the Transac 12C, pressing the **PUMP TOTAL** key will cause **ALL** the pump totals for the *selected pump* to be printed out.



### SHIFT TOTALS

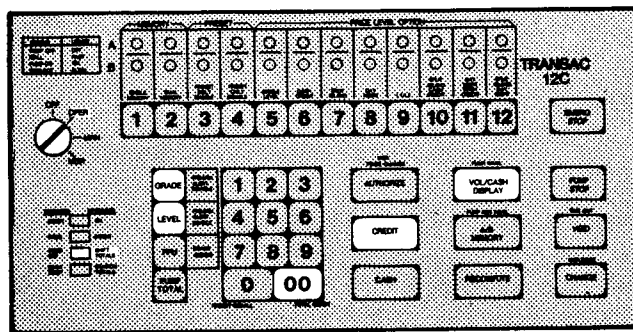
**KEYLOCK: OPER**  
**MODE SELECT BUTTON: SHIFT TOTALS**

1. Press **LEVEL**.  
**MONEY** total of **GRADE 1, LEVEL 1** is displayed.  
**L1, G1, and (\$)** LEDs are ON.
2. Press **VOL/CASH**.  
**VOLUME** total (gals.) of **GRADE 1, LEVEL 1** is displayed.



3. Press **LEVEL**.  
**L2, and G1, LEDs** are ON. **(\$)** LED is OFF.
4. Press **VOL/CASH**.\*

\* If **(\$)** LED lights, a money total of the **GRADE**, and **LEVEL** (which is being sequenced) is displayed. If the **VOL** LED lights, a volume total in gallons is displayed.

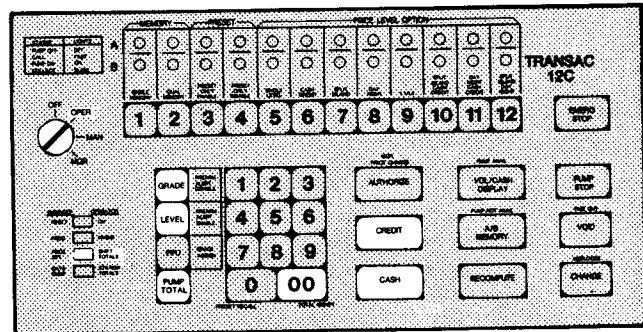
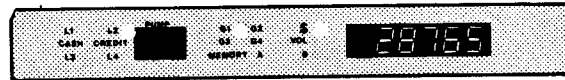


After sequencing through each level of **GRADE 1**:

5. Press **GRADE**.  
**L1, G2, and (\$)** LEDs are ON.
6. Press **LEVEL**.  
**L2, G2, and (\$)** LEDs are ON.  
**Money** total of **GRADE 2, LEVEL 1** is displayed.

**SHIFT TOTALS Cont'd**

7. Follow procedure above to sequence through each level of all grades.
8. Press **CASH**.  
The grand total (money) of all transactions paid with Cash will be displayed.
9. Press **CREDIT**.  
The grand total (money) of all transactions paid with Credit will be displayed.
10. Press double zero (00).  
Grand total money for all grades is displayed. The level and Grade keys can be used to sequence through every possible combination of level and grade.
11. Press **PUMP TOTAL** to print data.



**NOTE:** Shift Totals Report is printed and the PPU Data Report is printed.

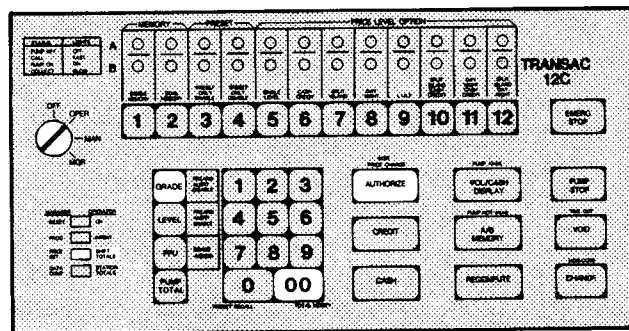
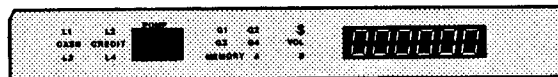
### RESETTING SHIFT TOTALS:

**KEYLOCK: OPER**  
**MODE SELECT BUTTON: SHIFT TOTALS**

This operation resets all shift totals to zero.

1. Press **GRADE**.
2. Press double zero (00).  
Total money will be displayed.
3. Press **AUTHORIZE**.  
Console will beep and all shift totals are will be reset to zero.

**NOTE:** Totals data will automatically print prior to reset.

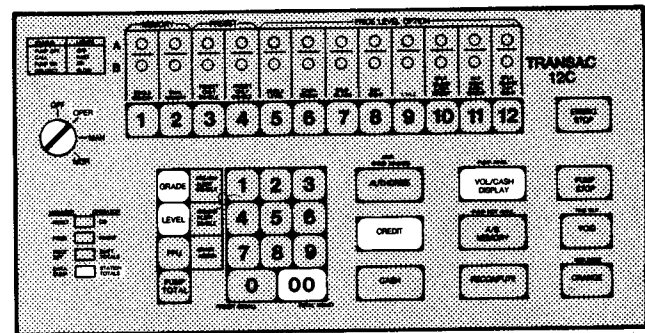
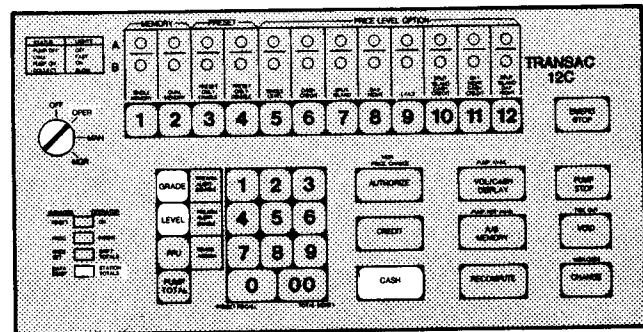
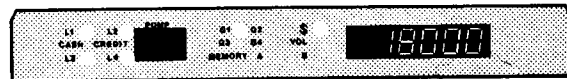


### STATION TOTALS

**KEYLOCK: OPER**

**MODE SELECT BUTTON: STATION TOTALS**

1. Money total of **GRADE 1** will be displayed. **G1** and **(\\$)** LED's are **ON**. All level LED's will be on.
2. Press **GRADE**. Total at next **GRADE** will be displayed each time the Grade key is pressed.
3. Press **LEVEL**. Each time the **LEVEL** key is pressed, the total for the next level of the selected grade will be displayed. All four levels can be sequenced and the level LED's will light accordingly. After the fourth level is displayed, all level LED's will be **ON**.
4. Press **CASH**. The grand total of all transactions paid with **CASH** will be displayed first. Using the **GRADE** and **LEVEL** keys, Cash totals for each combination of **GRADE** and **LEVEL** can be obtained. The **VOLUME** totals for all transactions paid with **CASH** are also available by pressing the **VOL/CASH** key.
5. Press **CREDIT**. The grand total of all transactions paid with Credit will be displayed.
6. Press double zero (**00**). Grand total money for all grades is displayed.
7. Press **PUMP TOTAL** to print data.



### INVENTORY TOTALS

**KEYLOCK: OPER**

**MODE SELECT BUTTON: INVENT**

The T12C will keep a running total of station product inventory based on pump volume totals.

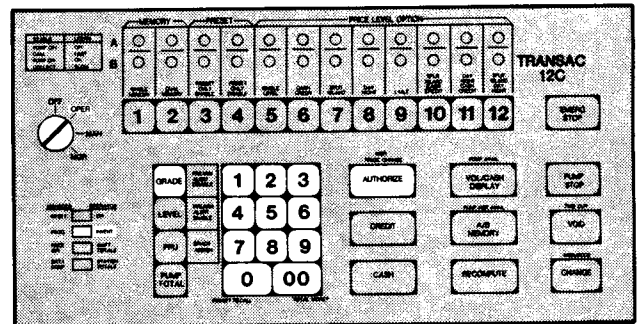
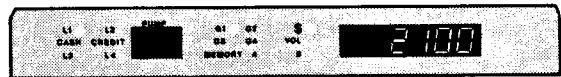
Whenever a fuel transaction is performed, the volume of that transaction is subtracted from the inventory total. To enter the inventory mode, the keyswitch must be in the operator position and the invent mode select button pressed.

### ADDING TO INVENTORY:

To add inventory to the inventory total, such as when a fuel delivery is made to the station, press the invent mode select and refer to the following:

1. **Press GRADE.**  
Total data of grade selected is displayed. Grade indicator sequences to the next grade when GRADE key is pressed.
2. **Enter the amount to be added by using the numeric keyboard.** The entered amount will be displayed. All other display LED's will be off.
3. **Press AUTHORIZE .**  
The total of the original inventory Plus the amount entered will be displayed.

**NOTE:** If a Dot II Printer is connected: Upon leaving this mode, the printer will automatically print the new inventory Data that was entered.



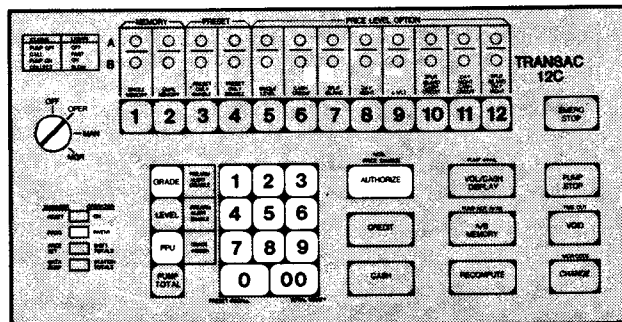
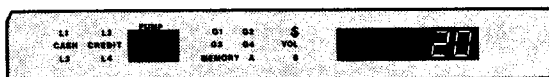
**"INVENTORY LOW" WARNING:**

**KEYLOCK: OPER**

**MODE SELECT BUTTON: INVENT**

When inventory for any grade reaches a certain level, the LED for that particular grade will flash to indicate an Inventory Low condition. To set this level, press the INVENT mode button and proceed as follows.

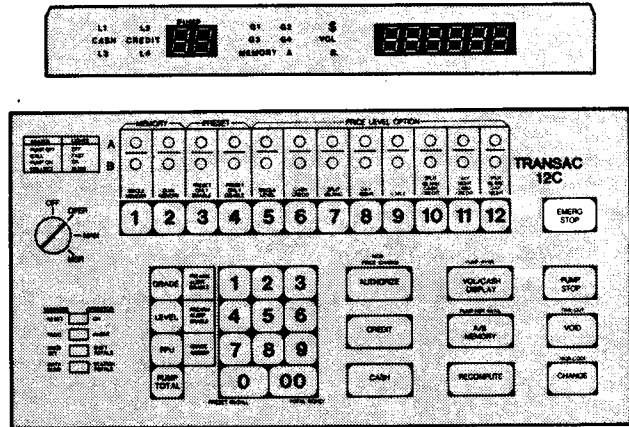
1. Press PPU. Existing low warning level will be displayed. LED for grade shows **GRADE 1**.
2. Press **GRADE**. Next grade low warning level will be displayed. **GRADE** LED's sequence when **GRADE** key is pressed.
3. Enter the new low warning level using the numeric keyboard. This entry will be displayed. All other LED'S will be OFF, except for Level LED's.
4. Press **AUTHORIZE**. The new low warning level will be displayed. To set the next grade, simply press the **GRADE** key and repeat steps 3 and 4.
5. Press **PPU** to exit this mode.



## 2.7 GENERAL KEYS

### E-STOP KEY

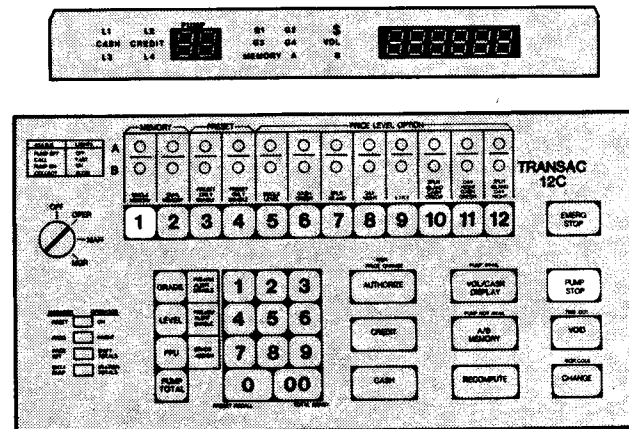
The **E-STOP** key terminates all transactions in progress when it is pressed. The **E-STOP** key *does not remove power from the dispensers*. Re-authorization of transactions stopped with the **E-STOP** key will not reset the transaction providing the pump handle remains on.



### PUMP STOP KEY

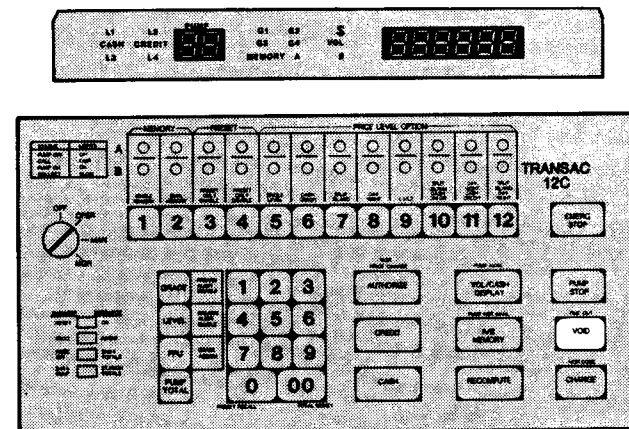
The **PUMP STOP** key will terminate a transaction on a particular hose without terminating other transactions. A **PUMP SELECT** key must be pressed before the **PUMP STOP** key will work. The pump stop key does not remove power from the dispenser. Reauthorization of transactions stopped with the **Pump Stop** key will not reset the transaction, provided the pump handle remains on.

When used to correct an error in Preset Postpay or authorization of wrong pump:  
 Press **PUMP SELECT**.  
 Press **PUMP STOP**.



### VOID KEY

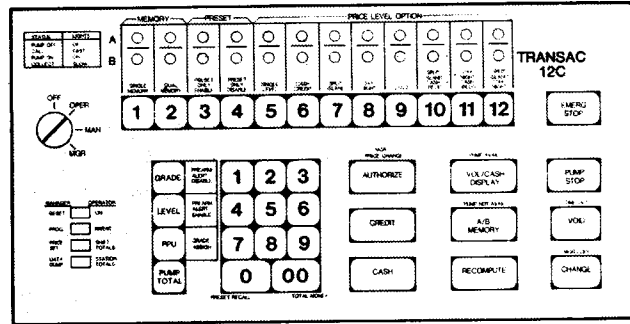
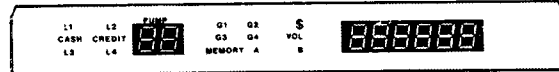
The **VOID** key is used to erase erroneous preset transaction amounts.



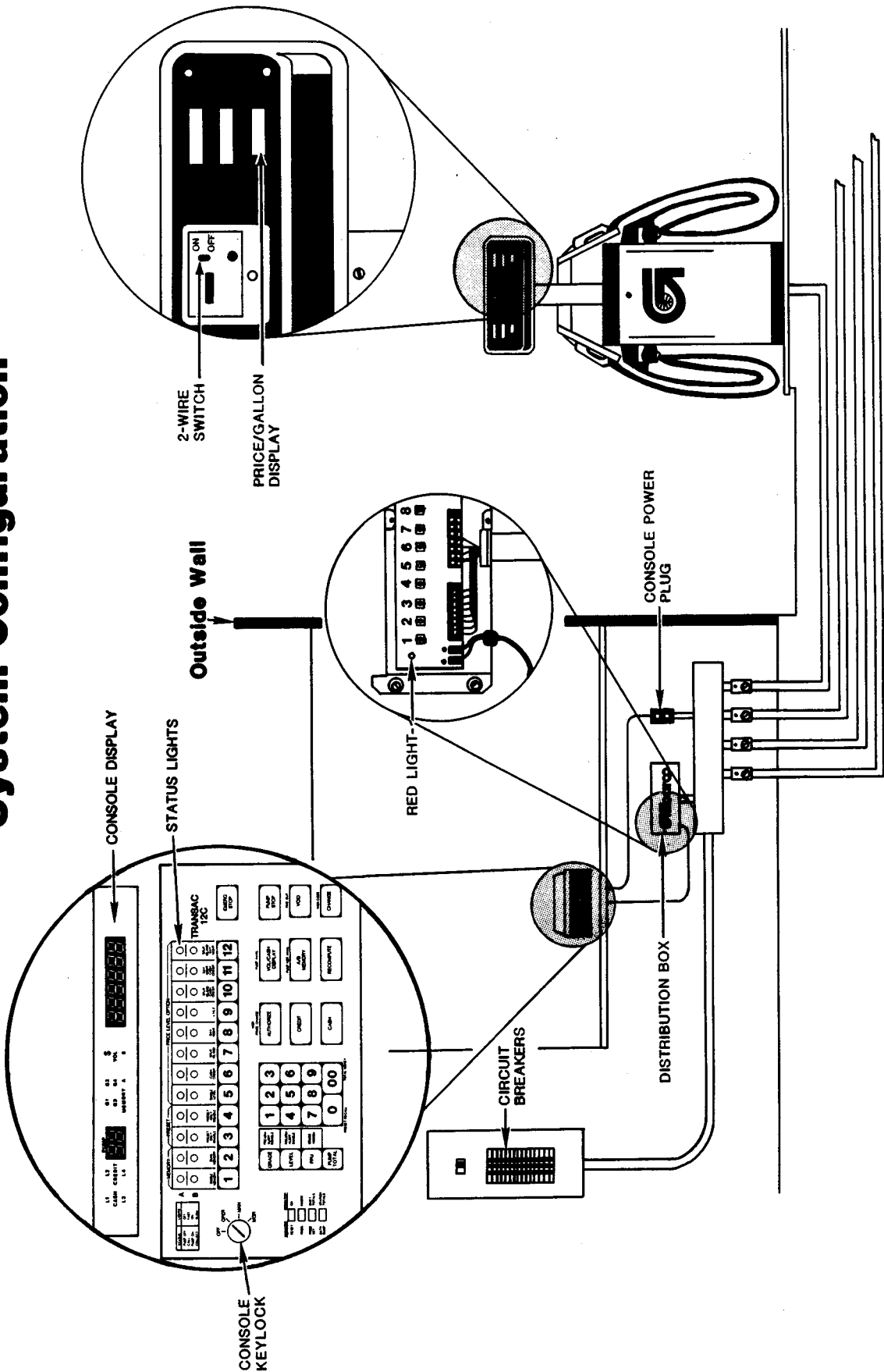
**VOLUME/CASH DISPLAY KEY**

This key will cause the display to switch between the transaction dollar amount and the transaction gallons amount. LED's on the display will indicate which information is being displayed.

**NOTE:** A PUMP SELECT key must be pressed before the VOL/CASH DISPLAY key is pressed.



# System Configuration



**NOTES:**



Gilbarco Inc., 7300 W. Friendly Ave., P.O. Box 22087, Greensboro, N.C. 27420, Phone (919) 292-3011  
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