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NATIONAL STANDARDS COMMISSION

WEIGHTS & MEASURES (PATTERNS OF INSTRUMENTS) REGULATIONS

REGULATION 9

SUPPLEMENTARY CERTIFICATE OF APPROVAL No S144

This is to certify that an approval has been granted by the Commission that the pattern of the

Gilbarco Transac 7 Note-accepting Driveway Flowmeter System

submitted by Gilbarco Aust. Ltd
12-38 Talavera Road
North Ryde, New South Wales, 2113

is suitable for use for trade.

The approval is subject to review on or after 1/3/88.

Instruments purporting to comply with this approval shall be marked NSC No S144.

Relevant drawings and specifications are lodged with the Commission.

Condition of Approval

The pattern shall only be used with the T11-5 or T12 driveway flowmeter systems, and only where presets are fitted to each flowmeter.

Signed

Executive Director

Descriptive Advice

Pattern: approved 24/1/83

. A Gilbarco Transac 7 \$2 or \$5 banknote-accepting driveway flowmeter system.

Technical Schedule No S144 dated 18/2/83 describes the pattern.

Filing Advice

The documentation for this approval comprises:

Certificate of Approval No S144 dated 18/2/83
Technical Schedule No S144 dated 18/2/83
Test Procedure No S144 dated 18/2/83
Figures 1 to 3 dated 18/2/83.

18/2/83



NATIONAL STANDARDS COMMISSION

TECHNICAL SCHEDULE No S144

Pattern: Gilbarco Transac 7 Note-accepting Driveway Flowmeter System

Submittor: Gilbarco Aust. Ltd
12-38 Talavera Road
North Ryde, New South Wales, 2113.

1. Description of Pattern

A \$2 or \$5 banknote-accepting system as a part of a self-serve fuel delivery system.

The pattern consists of:

- . Transac 7 control unit and banknote-acceptor console
- . Low-level detection unit

1.1 Banknote-acceptor Console

The banknote-acceptor and control unit console (Figure 1) consists of a banknote insertion aperture, a "Cash Accepted" display, four driveway flowmeter select buttons and their associated status indicators.

1.2 Driveway Flowmeter Status Indicators

The operational status of each of the driveway flowmeters is indicated by coloured displays adjacent to the appropriate select button, according to the following key:

GREEN BLACK	READY for use
BLACK BLACK	BUSY
BLACK RED	OUT OF SERVICE

1.3 Low-level Detection Unit

The low-level detection unit (Figures 3 and 4) consists of an air-filled pressure bell in the supply tank and a low pressure sensing device. The low-level detection device will cause the appropriate driveway flowmeter to go OUT OF SERVICE when the liquid level falls below the level of the pressure bell, thereby allowing air to escape. The bell is mounted in the tank so that this occurs at approximately 700 litres. This setting may be checked by comparison with the tank dipstick.

1.4 Operation

When in the READY state, selection of a driveway flowmeter will cause the "Cash Accepted" display to zero and the status indicators to show BUSY, for that driveway flowmeter.

The banknote-acceptor will now accept up to \$30 in \$2 or \$5 banknotes; upon reaching this limit the "Cash Accepted" display will flash \$30.

The cash preset display on the driveway flowmeter will indicate the value of the cash accepted.

Upon lifting the nozzle of the selected driveway flowmeter, the note-acceptor display will blank. At the completion of a full delivery (to the full value of cash accepted) the nozzle is hung-up and, after approximately 20 seconds, the driveway flowmeter status indicators will show READY for that driveway flowmeter and the preset display at the driveway flowmeter will blank.

1.5 Incomplete Deliveries

If two incomplete deliveries occur from any one driveway flowmeter (i.e. not to the full value of the cash accepted) or if the fuel level falls below a preset minimum (detected by the low-level detection unit) then the status indicators for that driveway flowmeter will indicate OUT OF SERVICE and the flowmeter will be disabled.

1.6 Sealing

1.6.1 Transac 7 Control Unit

A lead and wire seal prevents the cover over the control unit from being removed and seals the serial number of the banknote-acceptor to the control unit (Figure 2).

1.6.2 Low-level Detection Unit

A lead and wire seal is used to seal the bell in the tank (Figure 4).

1. Transac 7 Control Unit And Banknote-acceptor

1.1 Begin with the site operating under the control of the banknote-accepting system. If it is not, the following procedure will transfer control for the T11-5 or T12 console to the banknote-accepting system.

(i) Ensure that all driveway flowmeters allocated to the banknote-acceptor:

- (a) are functioning correctly in SELF-SERVE mode (i.e. pre-pay or post-pay under T11-5 or T12 console control),
- (b) have their nozzles hung-up, and
- (c) have no current transactions (i.e. all paid off).

(ii) Switch the power to the Transac 7 ON by unlocking and operating the door at the rear of the T7 unit, switching mains switch to ON, then closing and locking the door.

(iii) At the interconnection box, switch the note-acceptor ON (down position).

(iv) At the T11-5 or T12 console, turn the keyswitch to the MANAGER position.

(v) Depress the following buttons in the sequence given:

- PRGM/INVENTORY
- NOTE ACCEPT (Driveway flowmeter No 1 select button)
- AUTHORIZE
- RESET/ON (PRICE SET/ON for T11-5 console)

(vi) At the console return the keyswitch to the OPERATOR position.

1.2 (i) At the Transac 7 note-acceptor unit select one driveway flowmeter that has a READY indicator. Upon pressing the select button the green READY status indicator will blank indicating that this driveway flowmeter is now BUSY and the "Cash Accepted" display will show zero.

(ii) Insert one \$2 (or \$5) banknote. The "Cash Accepted" display and the cash preset display on the driveway flowmeter should indicate \$2.00 (or \$5.00).

(iii) Lift the nozzle of the appropriate driveway flowmeter and deliver less than \$2.00 (or \$5) worth of fuel. Hang-up the nozzle; after approximately 3 minutes the cash preset display on the driveway flowmeter will blank and the status indicators for that driveway flowmeter will indicate that it is READY for use.

(iv) Repeat steps (i) to (iii). After approximately 3 minutes the cash preset display will blank and the status indicators for that driveway flowmeter will indicate that it is OUT of SERVICE.

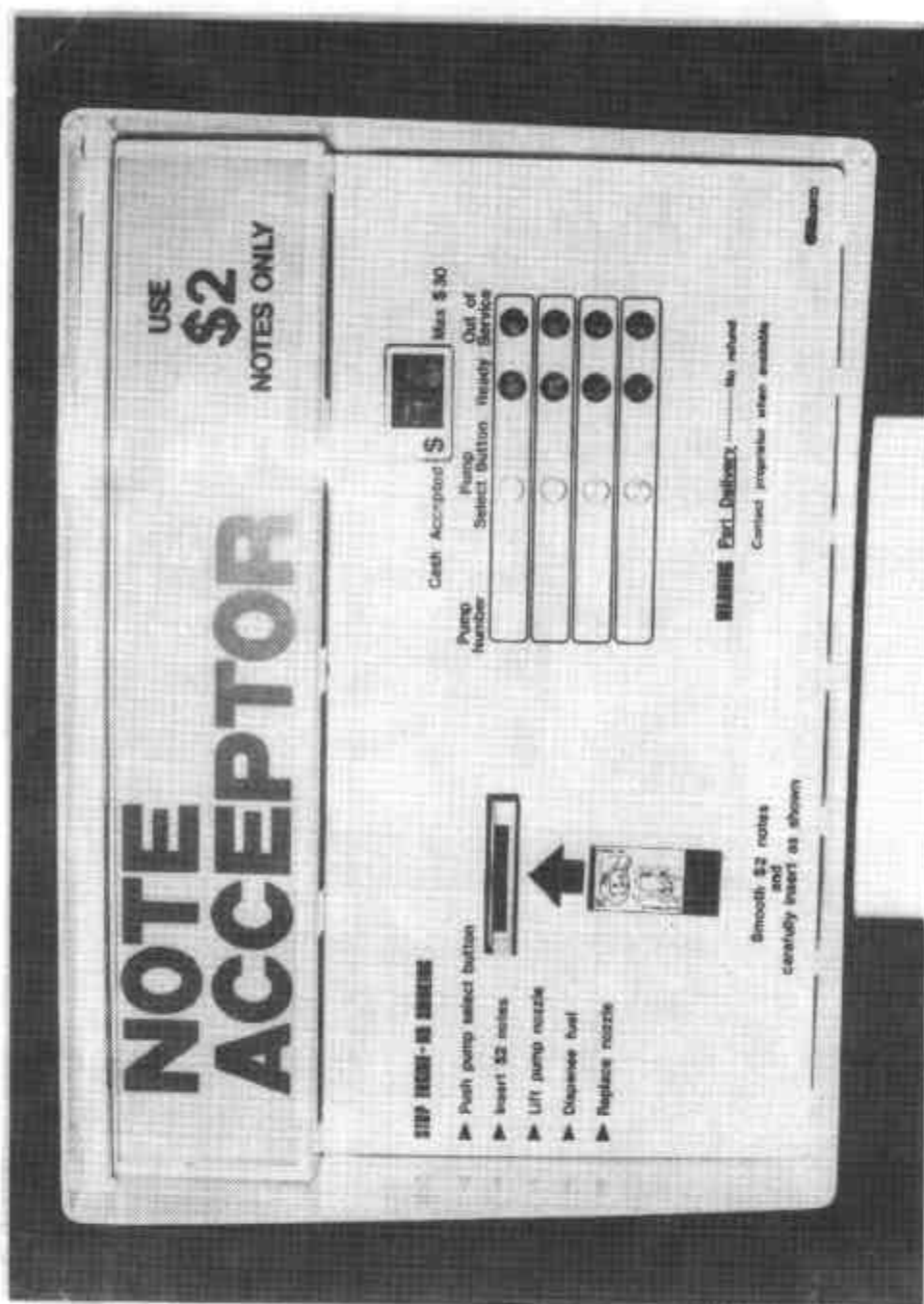
(v) Select a (different) driveway flowmeter that has a READY status indicator. Insert one \$2 (or \$5) banknote, lift the nozzle of the appropriate driveway flowmeter and begin a delivery. The delivery should stop automatically when exactly \$2.00 (or \$5) worth of fuel has been delivered. Hang-up the nozzle; after approximately 20 seconds the green READY status indicator will appear.

- 1.3 To return all driveway flowmeters to SELF SERVE mode:
- (i) Ensure that all driveway flowmeters:
 - (a) have their nozzles hung-up, and
 - (b) have no current transactions (i.e. all paid off).
 - (ii) At the T11-5 or T12 console, turn the keyswitch to the MANAGER position.
 - (iii) Depress the following buttons in the sequence given:
 - PRGM/INVENTORY
 - NOTE ACCEPT (Driveway flowmeter No 1 select button)
 - AUTHORIZE
 - RESET/ON (PRICE SET/ON for T11-5 console)
 - (iv) At the console return the keyswitch to the OPERATOR position.
 - (v) At the interconnection box, switch the note-acceptor OFF (up position).
 - (vi) Switch the power to the Transac 7 OFF by unlocking and opening the door at the rear of the T7 unit, switching the mains switch to OFF, then closing and locking the door.

2. Low-level Detection Unit

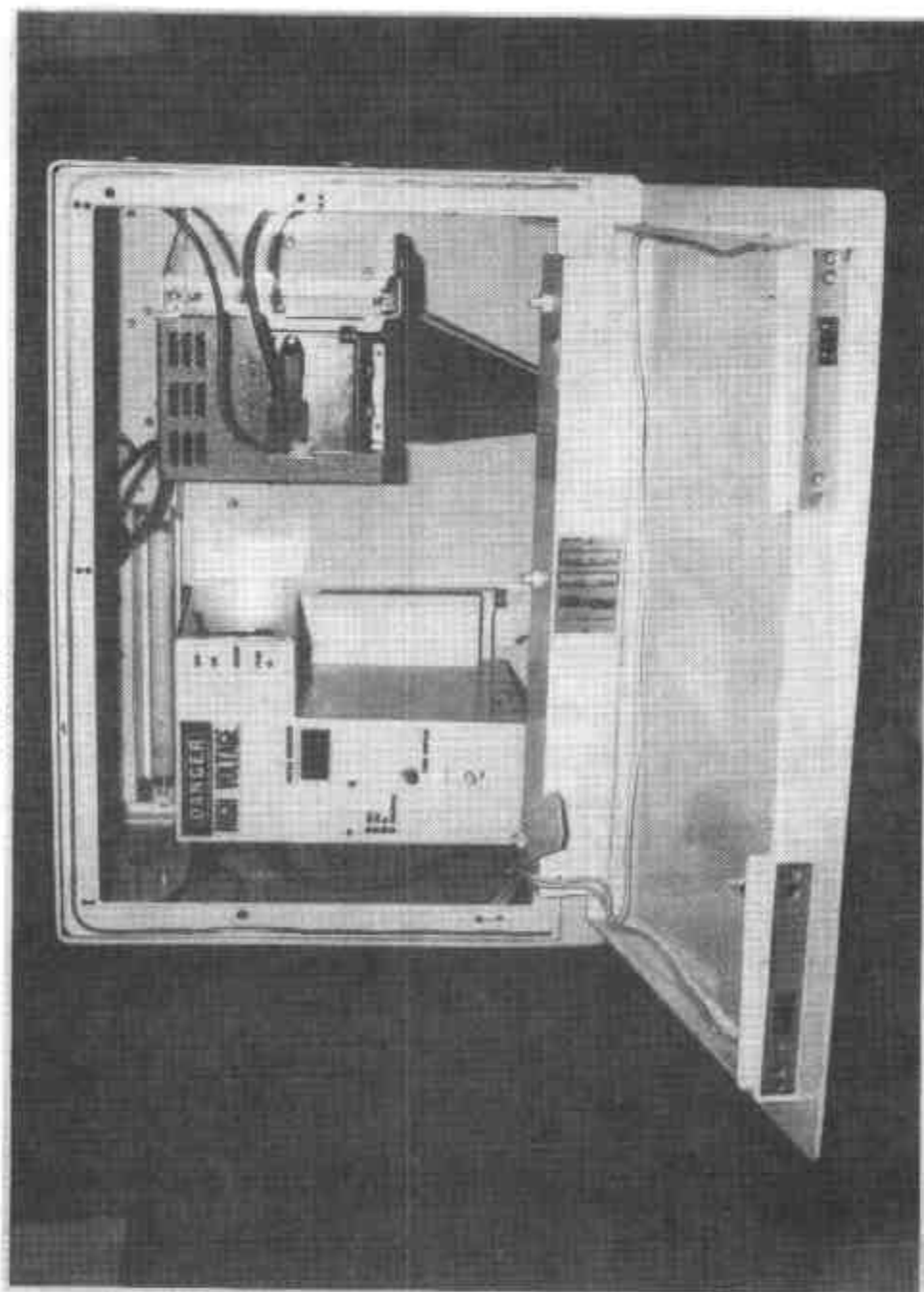
- 2.1 Check, by comparing the length of the probe with the dipstick, that the bell mouth of each low-level probe is set so that its height above the bottom of the supply tank is at a level equivalent to not less than 700 litres on the dipstick. Return the probe to the tank and seal with a lead and wire seal.
- Note: Once sealed, this check need not be repeated unless the seal is broken.
- 2.2 At each low-level auxiliary module open the probe valve (marked NEEDLE VALVE in Figure 4) and release any air from the system. The red light on the low-level auxiliary module should be lit.
- 2.3 Check at the Transac 7 control unit that the driveway flowmeters obtaining liquid from a tank with the appropriate low-level probe illuminated, indicate OUT OF SERVICE.
- 2.4 A length of tube is connected to each probe test valve. By blowing into the tube recharge it with air. Close the valve and check that the red lights on the low-level auxiliary modules are not lit.

FIGURE S144 - 1



Gilbarco Transac 7 Note-acceptor Console

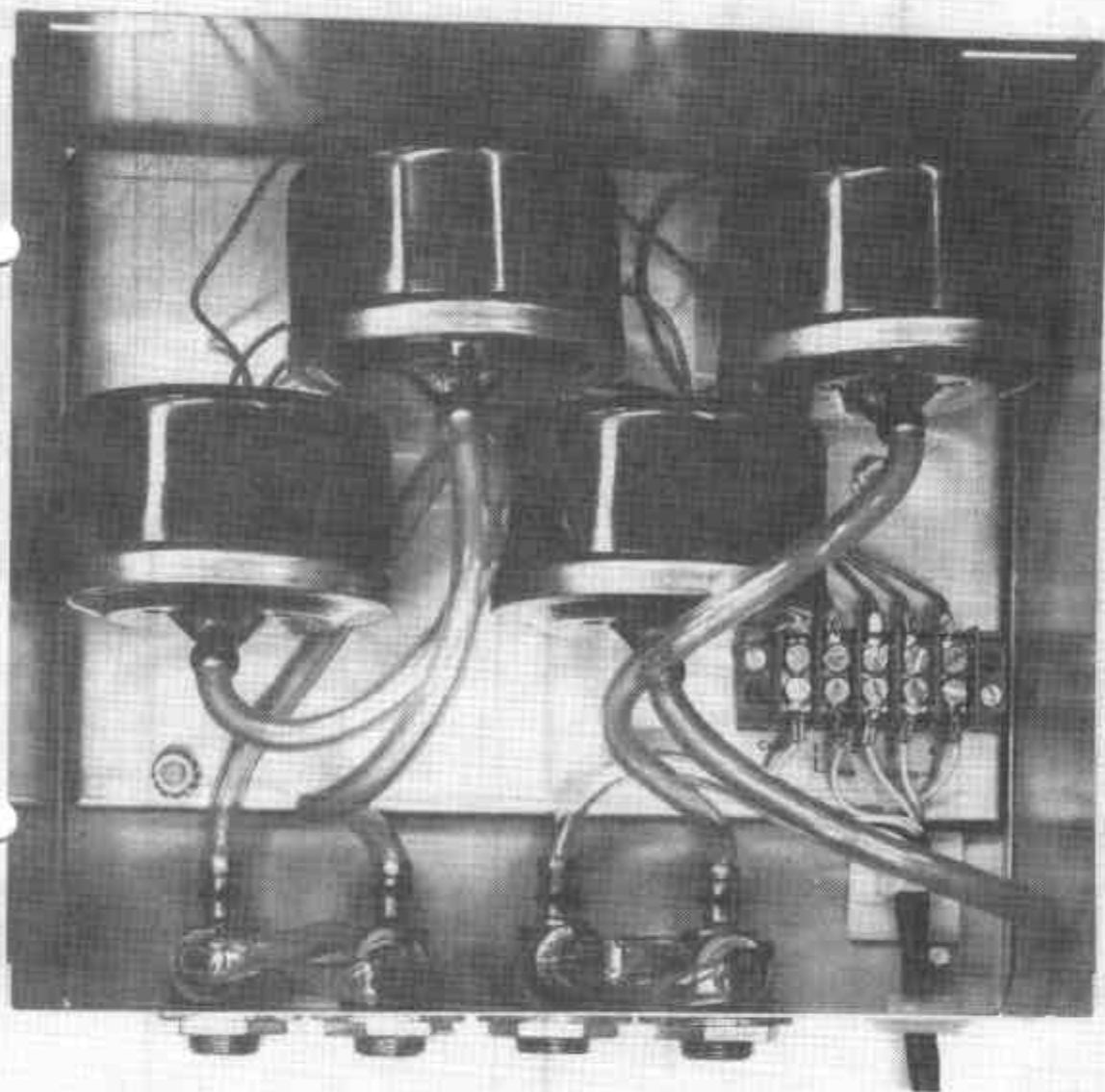
FIGURE S144 - 2



Gilbarco Transoc 7 Note Acceptor Console
- Rear View With Cover Open

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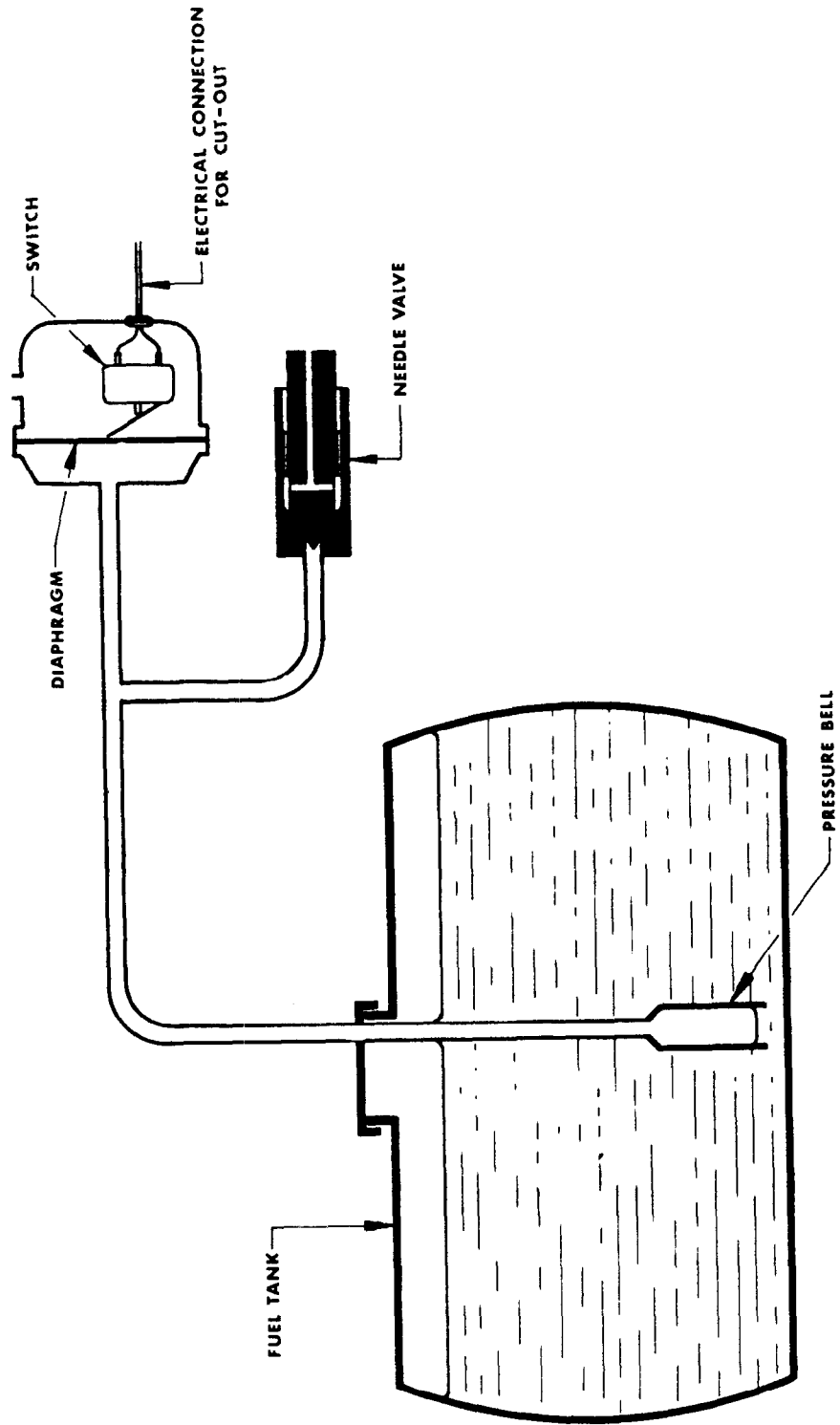
FIGURE S144 - 3



Low-level Detection Unit.

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FIGURE S144 - 4



Schematic Of Low-level Detection System