



NATIONAL STANDARDS COMMISSION
WEIGHTS AND MEASURES (PATTERNS OF INSTRUMENTS) REGULATIONS

REGULATION 9

CERTIFICATE OF APPROVAL No 5/6A/74

CANCELLED

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

0/3

Gilbarco Transac 12 Self-serve Driveway Flowmeter System

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

are suitable for use for trade.

The approval is subject to review on or after 1/7/83.

Instruments purporting to comply with this approval shall be marked NSC No 5/6A/74.

Condition of Approval

Instruments shall only be used in accordance with the drawings and specifications lodged with the Commission.

Signed

J. Kelly
Executive Director

Descriptive Advice

Pattern: approved 8/6/79

- Gilbarco Transac 12 self-serve system with driveway flowmeter models T080 SSLP, T080 STLP, T080 DTLP or T080 SSHP.

Variants: approved 8/6/79

1. Driveway flowmeter models T080 SSLP, T080 STLP or T080 DTLP without the T12 console and in stand-alone mode.
2. The pattern without the purchaser's indicator, in which case the system cannot operate in the prepay mode.

Variant: approved 2/7/80

3. Without the word DOLLARS on the reading face of the driveway flowmeter.

Technical Schedule No 5/6A/74 dated 5/12/80 describes the pattern and variants 1 to 3.

Variant: approved 17/8/83

4. Driveway flowmeter models of the T080 (Mk 2) series used with or without the T12 control console.

Technical Schedule No 5/6A/74 Variation No 1 dated 19/9/83 describes variant 4.

19/9/83

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Filing Advice

Certificate of Approval No 5/6A/74 dated 5/12/80 is superseded by this Certificate and may be destroyed.

The documentation for this approval now comprises:

Certificate of Approval No 5/6A/74 dated 19/9/83
Technical Schedule No 5/6A/74 dated 5/12/80
Technical Schedule No 5/6A/74 Variation No 1 dated 19/9/83
Test Schedule No 5/6A/74 dated 5/12/80
Figure 1 dated 5/12/80
Figures 2 to 4, 6 to 14 and 17 to 28 dated 15/6/79
Figures 5, and 15 and 16 dated 5/12/80.

19/9/83



NATIONAL STANDARDS COMMISSION

TECHNICAL SCHEDULE No 5/6A/74

Pattern: Gilbarco Transac 12 Self-serve System

Submittor: Gilbarco Aust. Ltd,
16-34 Talavera Road,
North Ryde, New South Wales, 2113.

All instruments conforming to this approval shall be marked "NSC No 5/6A/74" on each driveway flowmeter and on the control console.

1. Description of Pattern

1.1

The pattern is a post-payment and prepayment self-serve driveway flowmeter system, comprising:

- . up to 12 driveway flowmeters,
- . a remotely located console for the vendor,
- . a purchaser's indicator located adjacent to the control console, and
- . a communication interconnect box.

The system provides the operator with the following supervisory controls for each driveway flowmeter:

- . repeat indications of the price and volume,
- . a preset value (prepayment) facility in whole dollars, and
- . a remote unit-price changing function.

1.2 Control Console

The control console (Figures 2 and 3) comprises:

- . a vendor's indicator shared by all driveway flowmeters, (Note (1))
- . an emergency stop button, (Note (2))
- . a key-operated switch,
- . driveway flowmeter-selection buttons,
- . an authorise button,
- . a cash button,
- . a credit button,
- . an 11-button keyboard for entering numerical data into the memory,
- . 4 push-on switches for selecting unit price and other peripheral functions,
- . 3 grade-selection buttons,
- . a pump stop button, (Note (3))
- . a volume/cash display button, (Note (4))
- . a separate purchaser's indicator connected by cable,
- . a pump totals button,
- . a unit price button, and
- . a lights button.

NotesDescriptive

- (1) Vendor's indicator - which is in three sections, pump, grade and amount; the pump section indicates the number of the driveway flowmeter which has been selected for display; the amount section displays:
- (a) when in post-pay mode, a repeat indication of the price or volume indicated by the driveway flowmeter selected; this indication is only available after the nozzle is returned to its hang-up; and
 - (b) when in prepay mode, the flashing amount in whole dollars which has been prepaid and assigned to the driveway flowmeter selected; this indicator will also show the amount delivered to the nearest cent if a nozzle is returned to its hang-up before the prepaid value has been delivered.

The grade section indicates the grade of petrol for which the driveway flowmeter selected has been preset.

In the case of a two-product driveway flowmeter, the grade used at the last transaction is displayed.

- (2) Emergency stop button - when selected stops the pump motor of all driveway flowmeters without any loss of data and without terminating any delivery taking place (unless the nozzle is hung up); each driveway flowmeter is individually released, allowing the delivery to continue, by pressing the appropriate driveway flowmeter-select button and then the AUTHORISE button.
- (3) Pump stop button - when pressed after selecting a driveway flowmeter will stop the pump motor of the appropriate driveway flowmeter without any loss of data or terminating the particular delivery. The driveway flowmeter is released as described for emergency stop functions.
- (4) Volume/cash button - when pressed changes the price indication on the vendor's indicator to a volume indication and vice versa (Figure 2).

Operating

- (5) Setting unit price - with MANAGER mode selected on the proprietor's key switch and PRICE SET push-button on, select the appropriate grade; the vendor's indicator will display the grade and the unit price presently used; set the new unit price on the keyboard, to a value of 0.1 c; this will appear on the vendor's indicator; this price is entered into the system by pressing the AUTHORISE button. The unit-price change will take effect one minute after the AUTHORISE button has been pressed on those flowmeters delivering the selected grade. During the one-minute delay all the displays on the affected driveway flowmeters will be blank.
- (6) Post-pay mode - after a delivery, pressing the appropriate driveway flowmeter-select button will display, on the console and on the purchaser's indicator* located adjacent to the console, the driveway flowmeter number and the value of the sale.

The transaction is completed by pressing the CASH or CREDIT key; this will allow the driveway flowmeter to be authorised for the next transaction.

- (7) Prepay mode - before a delivery, pressing a driveway flowmeter-select button and keying-in a value by means of the 0 to 9 keyboard will intermittently display to the vendor and the purchaser the driveway flowmeter number and the amount preset.

* The primary indications displayed by the driveway flowmeter should be retained as a reference until the transaction is completed.

Pressing the AUTHORISE button will confirm the transaction and transfer the prepaid value into the system memory and to the preset-value indicator on the driveway flowmeter. Once entered, the authorisation cannot be cancelled. If a delivery is terminated before the prepaid value is reached, the driveway flowmeter will be locked out of service for three minutes, during which time pressing the driveway flowmeter-select button will then display to the vendor and purchaser the amount delivered. The preset amount can be displayed at any time by selecting the appropriate driveway flowmeter and the "0" key sequentially.

- (8) Driveway flowmeter status lights - the row indicates various PAY situations by flashing or continuous display.

Integral with the self-serve system are other facilities which are classified as peripheral functions which do not affect the performance of the measuring instrument; the use of these functions does not cause any loss of measurement data or measurement control; these functions are implemented by the use of the key-switch and the four mode switches:

- (a) Key-switch in OFF position; transaction started can be completed but no new transaction can be started.
- (b) Key-switch in operator position:
 - (i) Mode switch ON activated, normal transaction is performed.
 - (ii) Mode switch INVENTORY activated; the volume of each grade of petrol in the supply tank can be displayed and a new value of volume can be added to the present volume.
 - (iii) Mode switch SHIFT TOTALS activated; the volume of each liquid sold, the value of credit allowed and the cash received during the shift, can be read and the total then reset to zero.
 - (iv) Mode switch STATION TOTALS; the total volume of liquid sold, the total value of credit allowed and the total value of cash received by the service station, can be displayed.
- (c) Key-switch in MANUAL position: the operator can change a particular driveway flowmeter from self-serve to attendant operation or vice versa.
- (d) Key-switch in MANAGER position and switch in PRICE SET; the manager can change the price of each grade of product.

A lead stamping plug for a verification seal is provided on the console; the seal prevents the cover of the console from being removed (Figure 2).

Peripheral equipment is internally connected to the console; the verification seal prevents unauthorised equipment being connected (Figure 3).

1.3 Purchaser's Indicator

The purchaser's indicator is located near the control console and repeats the control-console indications when the system is in post-pay or prepay modes; the instrument cannot operate in prepay mode without this indicator (Figure 4).

1.4 Communications Interconnect Box

This box comprises 12 switch and indicator lights allowing the operator to electrically disconnect any of the driveway flowmeters from the T12 console; the driveway flowmeter can then operate in attendant mode when STAND ALONE mode is selected at the driveway flowmeter and the power to the driveway flowmeter is turned off for at least three seconds and then turned back on (Figure 5).

1.5 Driveway Flowmeters

The following types of driveway flowmeter may be used with this system:

- (a) Single, one product, Model T080 SSLP (Figures 6, 7 and 8).
- (b) Single, two product, Model T080 STLP (Figures 9, 10 and 11).
- (c) Dual, one or two product, Model T080 DTLP (Figures 12, 13 and 14).

Driveway flowmeters Models T080 SSLP, T080 STLP and T080 DTLP are for delivering petroleum products at flow rates between 5 to 50 L/min. The hydraulic diagrams of these flowmeters are illustrated in Figures 8 and 11. The instrument data plates are marked APPROVED FOR PETROL or APPROVED FOR KEROSENE.

- (d) Single, one product, High-flow Model T080 SSHP (Figures 15, 16 and 17).

Driveway flowmeter Model T080 SSHP is for delivering petroleum product at flow rates between 15 to 90 L/min. The hydraulic diagram of this flowmeter is illustrated in Figure 17. The instrument data plates are marked APPROVED FOR PETROL or APPROVED FOR KEROSENE or APPROVED FOR DISTILLATE.

Each driveway flowmeter is marked with a pump number (Figure 22).

The component parts of each driveway flowmeter are listed in Figure 1.

The driveway flowmeters are similar to the Gilbarco Model T166AG, T166XG, T167AG, T180AG and T181AG driveway flowmeters, except for the following components:

- (e) Pulse-generator unit Model DN 01967-001 or 002, which is driven from the meter output shaft; it provides pulse output to the electronic computer unit. The pulse-generator unit is sealed by a sealing wire to prevent access or removal (Figure 18).
- (f) Computer unit Model DT 01825-001 (Figure 19) - the electronic-computer unit receives pulses from the pulse generator which are divided and displayed as volume-delivered on the front and back of the instrument.

The quantity indicated is multiplied by the indicated unit price, which is set by the console, and displayed as total price. The volume, unit-price and total-price indicators are seven-segment electro-mechanical displays which indicate volume to 999.99 L in 0.01 L increments, unit price to 99.9 c in 0.1 c increments, and price to \$999.99. Each time the nozzle is removed from its hang-up all displays will blank, then show all 8's, then blank again, then the volume and price indicators will go to zero and the unit price will be displayed. The preset indicator will be blank, or will display the amount previously selected.

A preset keyboard and display of the preset value is provided on the side of the computer unit (Figure 20), and may be used before a delivery as an aid to delivering a given value of product; the keyboard only presets in whole dollar increments. A preset value which is set by this keyboard may be cancelled at any time by pressing the CANCEL button; a delivery will be automatically stopped at exactly the preset value. The use of this presetting facility is optional.

Under the side cover of the driveway flowmeter, there are two three-position screwdriver-operated switches, one for controlling the lighting, one allowing the instrument to be used as a stand-alone instrument or to be controlled by the T12 console, and the third which is a stand-by position (Figure 21). A multi-pin socket is provided to connect the command module used for price changing and testing.

The computer unit is sealed by the sealing cup to prevent access.

- (g) Computer unit Model DT 01875-003 (Figure 22) - houses two computer Models DT 01875-001 enclosed in a single housing, sharing the control switches and multi-pin socket.
- (h) Computer unit Model DT 10825-002 is similar to DT 01825-001, except that the unit-price indicator indicates the price of the product selected and selects which of the pulse generators is in use.
- (i) Nozzle interlock - when the nozzle is replaced on its hang-up bracket, the starting lever causes the pump motor to stop and an electronic interlock to be engaged. The electronic interlock resets the indicator to zero before the pump motor can be restarted (Figures 23 and 24).
- (j) Product selector and indicator (Figures 25 and 26) - allows the user to select the product to be delivered by selecting which pump motor is activated, and the indicator indicates to the customer which product is selected.
- (k) Pump command module (Figures 27 and 28) is connected to the driveway flowmeter by means of the multi-pin socket and allows the following functions to be performed:
 - (a) price-setting on the driveway flowmeter;
 - (b) Weights and Measures computing accuracy test;
 - (c) other functions not relevant to the approval.

2. Variants

2.1 Variant 1

Driveway flowmeter Models T080 SSLP, T080 STLP, T080 DTLP and T080 SSHP to be used without the T12 console in STAND ALONE mode.

2.2 Variant 2

The pattern without the purchaser's indicator, in which case the system cannot be used in prepay mode.

2.3 Variant 3

Without the word DOLLARS on the face of the driveway flowmeters.

3. Test Procedures

Testing is in accordance with the attached Test Schedule No 5/6A/74.

TABLE 1

Indicated volume	Price per litre	Total price
L	c/L	\$
11.91	99.3	11.83
22.82	89.9	20.52
33.73	79.9	26.95
44.64	18.4	8.21
55.55	59.9	33.27
66.46	69.9	46.46
77.37	72.9	56.40
88.28	77.9	68.77
99.19	79.7	79.05
111.00	40.1	44.51
20.00	31.8	6.36
30.00	97.7	29.31
40.00	96.6	38.64
50.00	95.5	47.75
60.00	94.4	56.64
70.00	93.3	65.31
80.00	23.1	18.48
90.00	54.2	48.78
100.00	82.1	82.10
200.00	50.4	100.80
300.00	70.0	210.00
400.00	60.0	240.00
580.00	56.0	324.80
600.00	70.0	420.00
700.00	80.0	560.00
800.00	80.0	640.00
900.00	80.0	720.00
900.00	90.0	810.00
999.99	99.9	998.99

Test Procedure - Price-computing and Volume Circuits

TEST SCHEDULE No 5/6A/74

1. Flowmeter performance

For each driveway flowmeter:

- (a) record the unit price set, and the operating mode selected on the driveway flowmeter (T12 or STAND ALONE) and on the T12 console (OPERATOR, MANUAL or MANAGER) for returning instrument to normal use after testing;
- (b) select STAND ALONE mode by:
 - (i) at the driveway flowmeter set mode selection switch to STAND ALONE (refer Figure 21).
 - (ii) set communications interconnect box switch for the particular driveway flowmeter in the UP position (refer Figure 5).
 - (iii) turn the power to the particular driveway flowmeter off, wait three seconds, turn power back on, driveway flowmeter is now in attendant mode.
 - (iv) return communication interconnect box switch to the DOWN-SELF SERVE on position in preparation for later tests.
- (c) carry out the following tests:
 - (i) Accuracy - the maximum permissible error at any flow rate between maximum and 15 L/min is $\pm 0.3\%$.
 - (ii) Gas separation - the progressive opening of the gas-separation test valve should allow flow rate to be reduced to, say, 90%, 80%, 70%, etc., of full flow rate, until either the flow rate becomes less than the minimum of 15 L/min or the flow stops due to the pump losing prime. For all tests prior to reaching the opening of the gas-separation test valve at which the flow rate is less than 15 L/min, or the delivery stops due to the pump losing prime, the effect of the admitted air on the accuracy of measurement should not exceed 0.5% of the quantity delivery.

(Note: For a two product select driveway flowmeter, carry out the tests in 1(a), (b), (c) for both grades).

2. Price-computing and volume circuit

In turn for each driveway flowmeter:

- (a) Ensure that the driveway flowmeter is set to STAND ALONE mode as described in 1(b) above, plug in the command module in the multi-pin socket underneath the driveway flowmeter side cover (Figure 28).
- (b) Select on the rotary switch and key switch on the command module, NORMAL; and turn the W & M TEST ON.
- (c) Press the LSD button on the command module once, - the driveway flowmeter indicator will indicate the first set of figures in Table 1 on the appropriate digital indicator; repeat until all the values in the table are displayed; all the indicators must display the figures in Table 1 exactly.

- (d) For a dual pump driveway flowmeter the PUMP SELECT switch on the command module must be set to either A or B to change the unit price on each half of the computer unit. Side B is nearest the supporting column.

On the command module set W & M TEST to OFF, select PPU SET by the key-switch, then by pressing the PPU SET buttons in turn select a new unit price. Unplug the command-module from the driveway flowmeter. The displays will go blank and after one minute the new unit price will be indicated and the volume and total price indicators will indicate zero.

Remove the nozzle during the one minute period and attempt to make a delivery; none should be possible.

- (e) Plug in the command module again and repeat (d) and reset the price per litre to any value different to that recorded in 1(a).
- (f) Unplug the command module and set the driveway flowmeter to T12 mode. The driveway flowmeter should blank for one minute and should return to display the unit price set in 1(a), and the volume and total price indicators will indicate zero.

3. T12 System

- (a) (i) At the console select and authorise a driveway flowmeter by pressing the AUTHORISE button.
- (ii) Repeat (i) for a number of driveway flowmeters.
- (iii) For each driveway flowmeter authorised in (i) and (ii) above:
- (a) deliver sufficient liquid to cause the price and quantity indicator on the computer to move significantly off zero;
- (b) stop the pump motor by returning the nozzle to its hang-up;
- (c) record the driveway flowmeter number, the price and volume indicated on the computer;
- (d) remove each nozzle from its hang-up bracket and check that the computer does not reset to zero and the pump motor does not start.
- (iv) At the control console press the select button for each driveway flowmeter in turn and check each price and volume display by pressing the VOL/CASH display button against the price and volume recorded for each driveway flowmeter (refer step (iii)(c) above); the price and volume displayed should exactly equal the price and volume indicated on the driveway flowmeter.
- (v) Select each driveway flowmeter and complete the transaction by pressing either the CASH or CREDIT button. This will allow the driveway flowmeter to be re-authorised.
- (b) Prepay mode: The following tests ((i) to (ix)) only apply if the purchaser's indicator is plugged into the T12 control console and a preset panel and indicator are fitted to all driveway flowmeters which are engaged in a prepay transaction. If either of the above conditions is not the case then refer to paragraph (x) below:

- (i) At the console select a driveway flowmeter and enter a value of product by the 0-9 keyboard to be delivered, say, \$2.00; then authorise the driveway flowmeter by pressing the AUTHORISE button.
- Check that the preset amount is showing on the console and the purchaser's indicator as a flashing indication.
- (ii) Repeat (i) for a number of driveway flowmeters.
- (iii) For each driveway flowmeter selected in (i) and (ii):
- . the preset indicator on the driveway flowmeter will indicate the preset value;
 - . make a delivery; the driveway flowmeter will automatically stop when the exact value indicated by the preset indicator is reached; return the nozzle to the hang-up position;
 - . remove the nozzle from its hang-up and check that the computer does not reset to zero, the preset indicator does not reset to zero and the pump motor does not start;
 - . at the console press the select button for each of the driveway flowmeters selected in (i) and (ii) and the VOL/CASH DISPLAY button and check that the price and volume displayed agrees with that displayed at the driveway flowmeter.
 - . complete the transaction by pressing either the CASH or CREDIT button.
- (iv) For at least one driveway flowmeter, repeat (i).
- (v) Make a delivery and return the nozzle to its hang-up before the delivery is completed.
- (vi) Remove the nozzle; the pump should not restart.
- (vii) At the console select the driveway flowmeter authorised in (iv); the price of delivery should be displayed. Complete the transaction by pressing the CASH or CREDIT key.
- (viii) Try to authorise the driveway flowmeter in (iv); this should be impossible for at least three minutes.
- (ix) Check that the purchaser's indicator cannot be unplugged from the control console once the control console has been sealed.
- (x) If there is a driveway flowmeter or site to which a preset panel and indicator are not fitted, and/or, there is no purchaser's indicator connected to the control console, try to make a prepay transaction as in 3(b)(i). No indication will show on the console, that is, no prepay transaction is possible without a purchaser's indicator connected to the console, and secondly, where a purchaser's indicator is connected to the console, a driveway flowmeter to which a preset panel and indicator are not fitted cannot be engaged in a prepay transaction.

- (c) (i) At the console authorise a number of driveway flowmeters as in (a) (i).
- (ii) Make a delivery from at least two of these driveway flowmeters and before they are completed operate the EMERGENCY STOP at the console.
- All driveway flowmeters in use will stop delivering.
- (iii) Return at least one nozzle to its hang-up.
- (iv) At the console select and authorise each driveway flowmeter that was in use before the EMERGENCY STOP button was pressed. The driveway flowmeters will continue the delivery uninterrupted except the one on which the nozzle has been returned to its hang-up; for this driveway flowmeter the transaction must be terminated by pressing the CASH or CREDIT key.
- Note: if any extra delivery is needed on the driveway flowmeter on which the nozzle was returned to its hang-up a new transaction must be started.
- (v) On all the other driveway flowmeters the delivery and transaction can be completed.
- (Note: If a driveway flowmeter was in use in the prepay mode as described in (b)(i) and its nozzle was hung-up, it will be impossible to re-authorise it for at least three minutes from the removal of the EMERGENCY STOP condition).
- (d) (i) At the console after all transactions have been completed for at least 15 seconds, turn the key switch to the MANAGER position and press the PRICE SET function button.
- (ii) Select each grade in turn by pressing the button marked SUP, STD, DIST.
- Record the price per litre indicated at the console.
- (iii) Select a grade, say, SUP, enter a new price by means of the 0-9 keyboard and press the AUTHORISE button; the indicators on the driveway flowmeters with the selected grade will go blank and remain blank for one minute.
- After the time delay the driveway flowmeter will indicate the new price per litre and the volume and price indicators will indicate zero.
- (iv) Repeat (iii) for each grade of product.
- (v) Return the unit-price posting on each driveway flowmeter to the setting recorded in (ii).
- (vi) Turn the key switch to the OPERATOR position and push the ON button to return the system to normal operation.
- (e) For a two-product driveway flowmeter:
- (Note: The grade selector can operate in either of two ways:
- 1) the grade indicated will be delivered - select the other grade if desired, or;

- 2) if super is indicated delivery will proceed but if standard is indicated the pump will not start until grade selection is made).
- (i) Select a driveway flowmeter and enter a prepay amount by the 0-9 keyboard; then press the AUTHORISE button.
- At the preset indicator on the driveway flowmeter the amount prepaid will be indicated.
- At the driveway flowmeter select a grade; the unit price will change to correspond to the unit price of grade selected, and the grade select indicator will indicate the grade selected.
- (ii) Deliver sufficient liquid to cause the price and quantity indicator to move significantly off zero. Push the grade-selector button; this should have no effect in changing grade or unit price.
- (iii) Make the delivery corresponding to the preset amount.
- (iv) At the console select the driveway flowmeter; the indicator will indicate the amount delivered and the grade selected at the driveway flowmeter; then complete the transaction by pressing either the CASH or CREDIT key.
- (v) Repeat (i), (ii), (iii), (iv) for other grades.
- (f) Return the system to the mode of operation recorded in 1(a).



NATIONAL STANDARDS COMMISSION

TECHNICAL SCHEDULE No 5/6A/74

VARIATION No 1

Pattern: Gilbarco Transac 12 Self-serve Driveway Flowmeter System

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

1. Description of Variant 4

The following models of Gilbarco driveway flowmeters of the T080 (Highline) Mk 2 series used with or without the Transac 12 control console. Each model is fitted with a hosemast and preset panel. Preset is controlled by motor speed, with the exception of preset on model T080 SSHP which is controlled by a slowdown valve. The flowmeters are similar to those in the appropriate Figures listed in Table 2.

TABLE 2

<u>Model</u>	<u>Max. Flow Rate</u>	<u>Products</u>	<u>Reference Figures</u>
T080 DTLP-Mk2	50 L/min	Petrol	12-14
T080 SSLP-Mk2	50 L/min	Petrol	6-8
T080 SSLPD-Mk2	45 L/min	Petrol or Distillate	6-8
T080 SSHP-Mk2	90 L/min	Petrol or Distillate	15-17



NATIONAL STANDARDS COMMISSION

NOTIFICATION OF CHANGE

CERTIFICATE OF APPROVAL No 5/6A/74

CHANGE No 1

The following change is made to the description of the
Gilbarco Transac 12 Self-serve System
given in Technical Schedule No 5/6A/74 dated 5/12/80:

On page 4, sixth line of paragraph 1.5,

5 to 50 L/min,

is changed to read

15 to 50 L/min.

Signed

A handwritten signature in dark ink, appearing to read 'Michael A. M. ...', is written over the printed name.
Acting Executive Director

23/2/81



NATIONAL STANDARDS COMMISSION

NOTIFICATION OF CHANGE

CERTIFICATE OF APPROVAL No 5/6A/74

CHANGE No 2

The following change is made to the description of the
Gilbarco Transac 12 Self-serve System
given in Technical Schedule No 5/6A/74 dated 5/12/80.

Test Schedule

Pages 1 to 5 of the Test Schedule are replaced by the attached pages
1 to 5 in which:

- (a) paragraph 3(b) is rewritten (page 2);
- (b) paragraph 3(b)(ix) is rewritten (page 3); and
- (c) paragraph 3(b)(x) is added (page 3).

Signed

Executive Director

FIGURE 5/6A/74 - 1

1 No	2 Component	3 Flowmeters			
		T080 SSLP	T080 DTLP	T080 STLP	T080 SSHP
	Pump T258AM	*	*	*	
	Pump T258AL				*
	Gas separator T257AK				*
	Float chamber T257AC	*	*	*	
	Float chamber T257AD				*
	Gas-separation test valve DK01745	*	*	*	*
	Meter T262AQ	*	*	*	
	Meter T262AJ				*
	Back-pressure valve DK00660-003				*
	Non-return valve T260AF	*	*	*	
	Non-return valve T260AH				*
	Sight glass DN01686	*	*	*	*
	Flow-control valve DK01044	*	*	*	
	Flow-control valve DR00929-001				*
	Pilot valve (main flow) AN20475-15	*	*	*	*
	Pilot valve (slow flow) AN20475-15				*
	Nozzle ZVA Slimline	A	A	A	A
	Nozzle ZVA 25	A	A	A	A
	Nozzle EMCO 200A	A	A	A	A
	Nozzle STM 363	A	A	A	A
	Nozzle STM 377	A	A	A	A
	Nozzle OPW 1A	A	A	A	A
	Nozzle OPW 1AS	A	A	A	A
	Pulser DN01967-002	*	*	*	*
	Pulser DN01967-001		*	*	
	CD Module electronics assembly DT01825-001	*			*
	CD Module electronics assembly DT01825-002			*	
	CD Module electronics assembly DT01825-003		*		
	T12 Console	¶	¶	¶	¶
	Remote display DR02014	¶	¶	¶	¶
	Totaliser DN01723-001	*			*
	Totaliser DN01723-002		*	*	
	Communications interconnect box T173 BF	¶	¶	¶	¶

* - indicates required components

A - indicates alternative components, one of which is required

¶ - indicates optional components

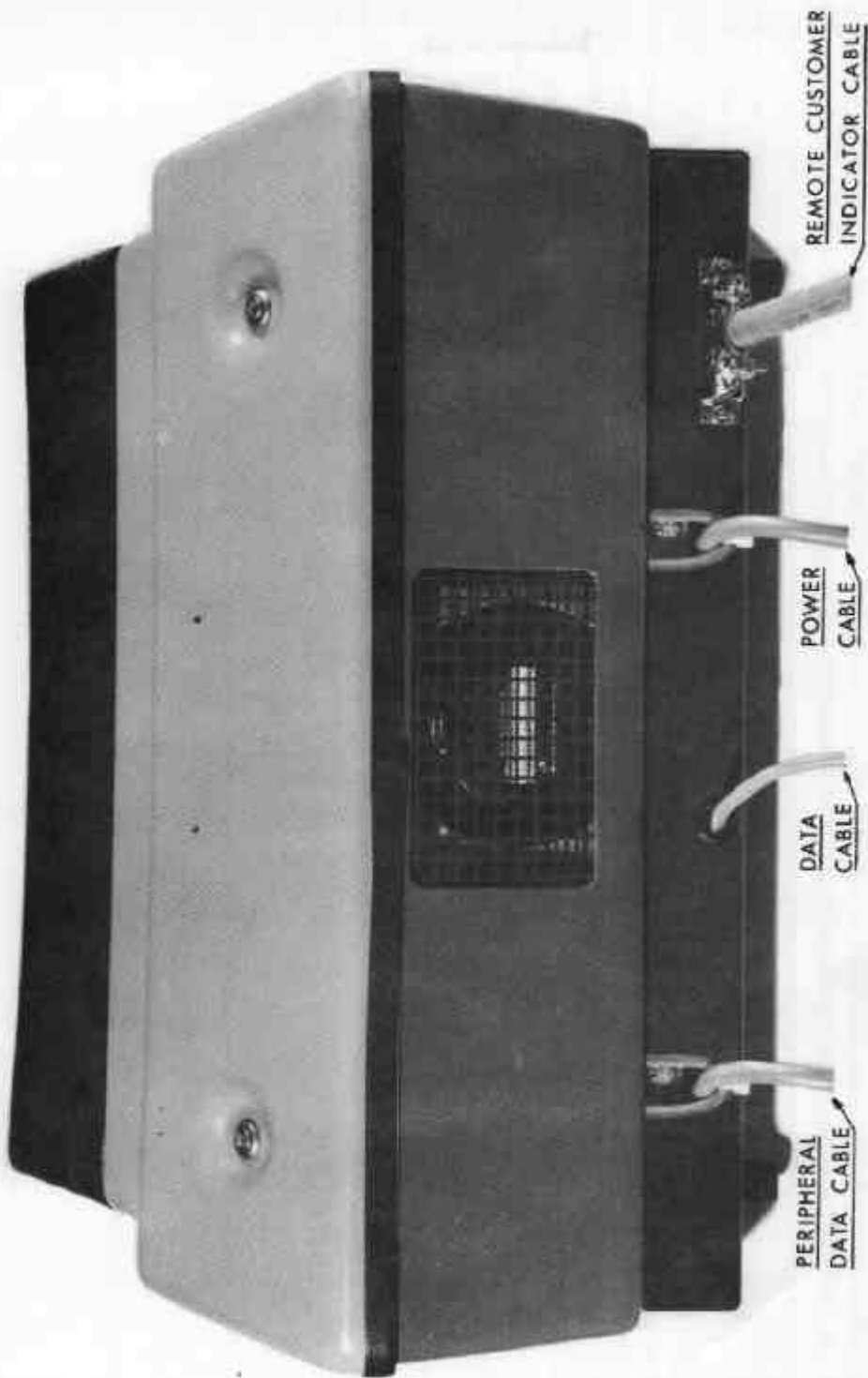
Compatibility Table

FIGURE 5/6A/74 - 2



Control Console

FIGURE 5/6A/74 - 3



Control Console — rear view

15/6/79

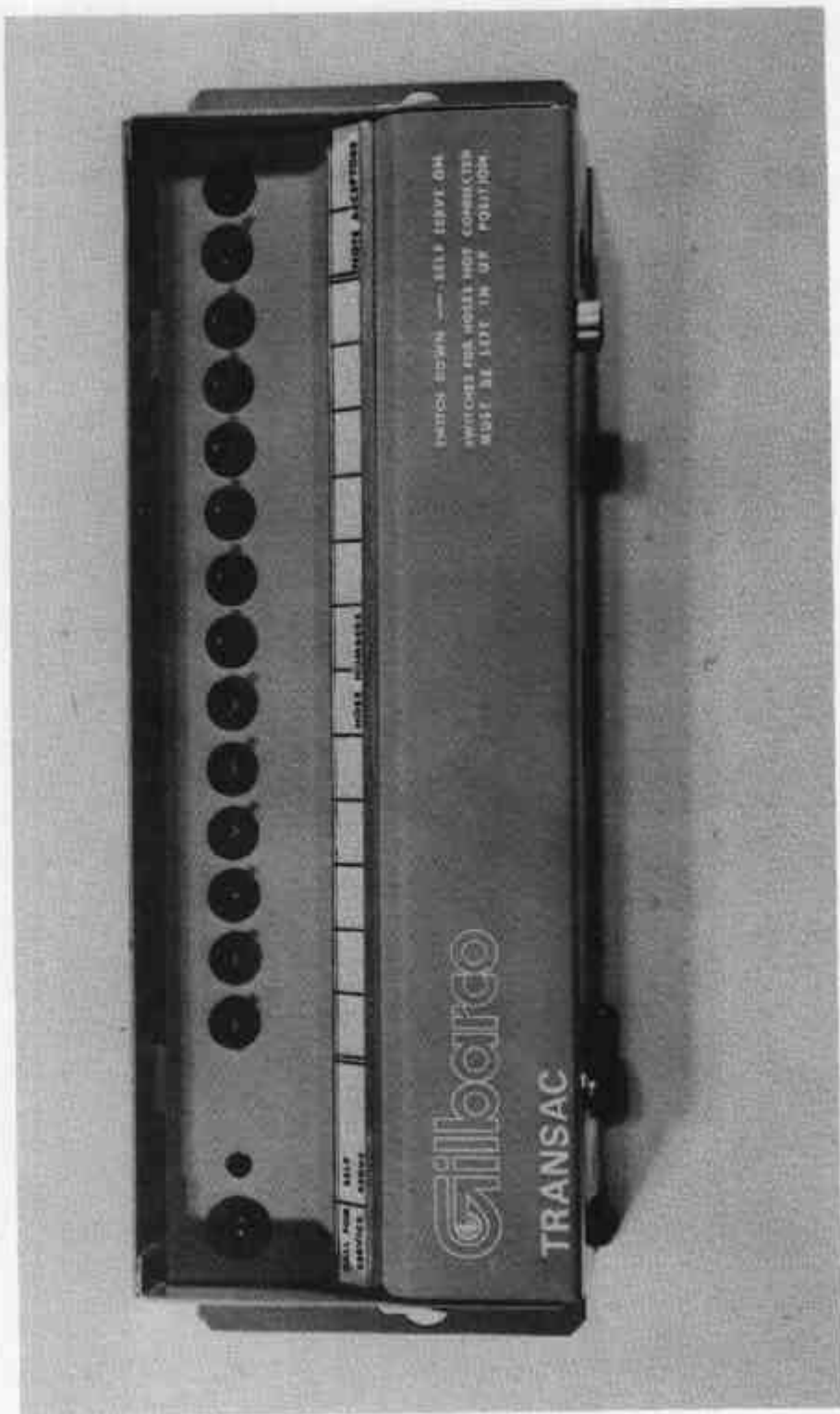
FIGURE 5/6A/74 - 4



Purchaser's Indicator

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FIGURE 5/6A/74 - 5



Communication Interconnect Box

5/12/80

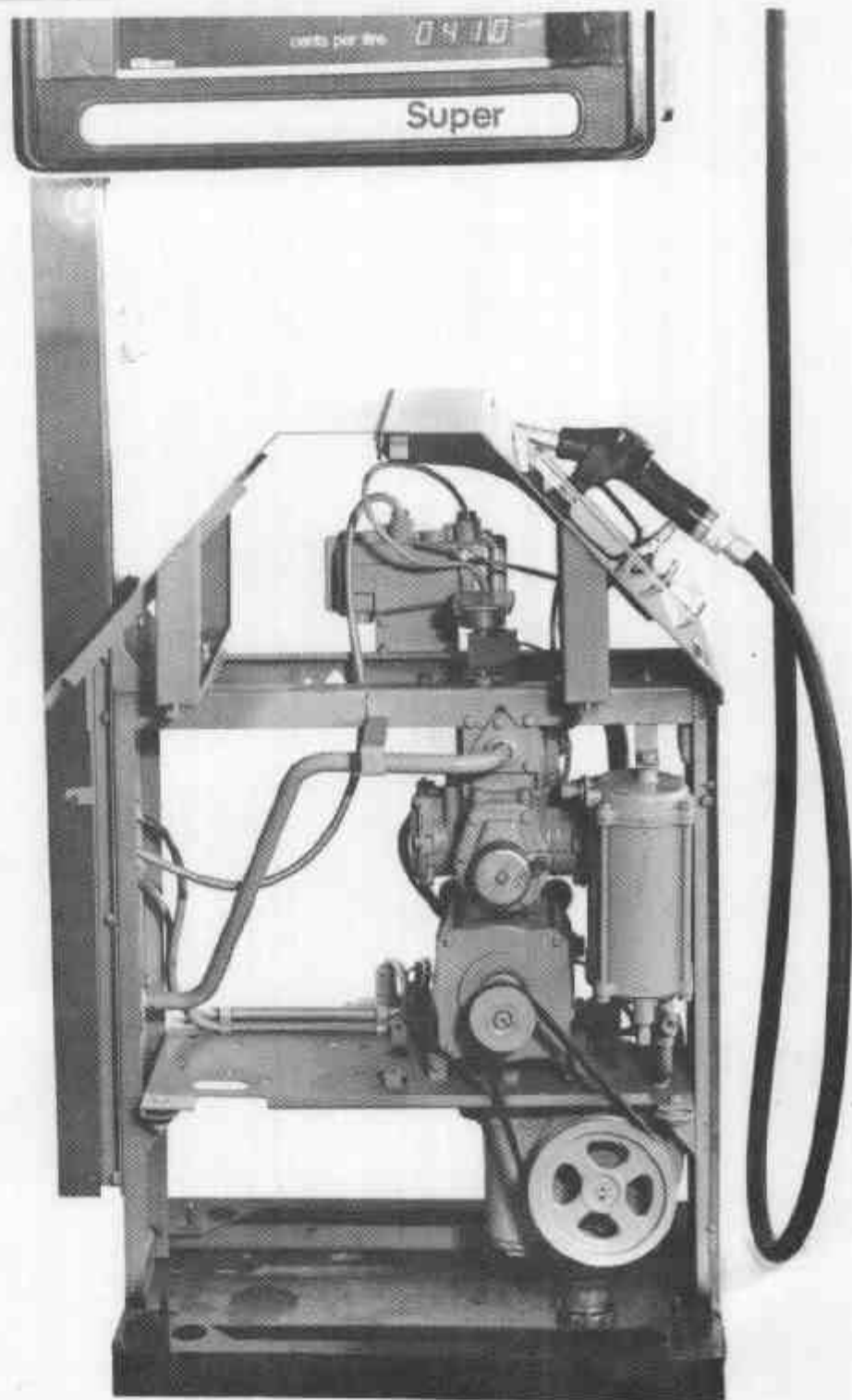
FIGURE 5/6A/74 - 6



Driveway Flowmeter Model T080 SSLP

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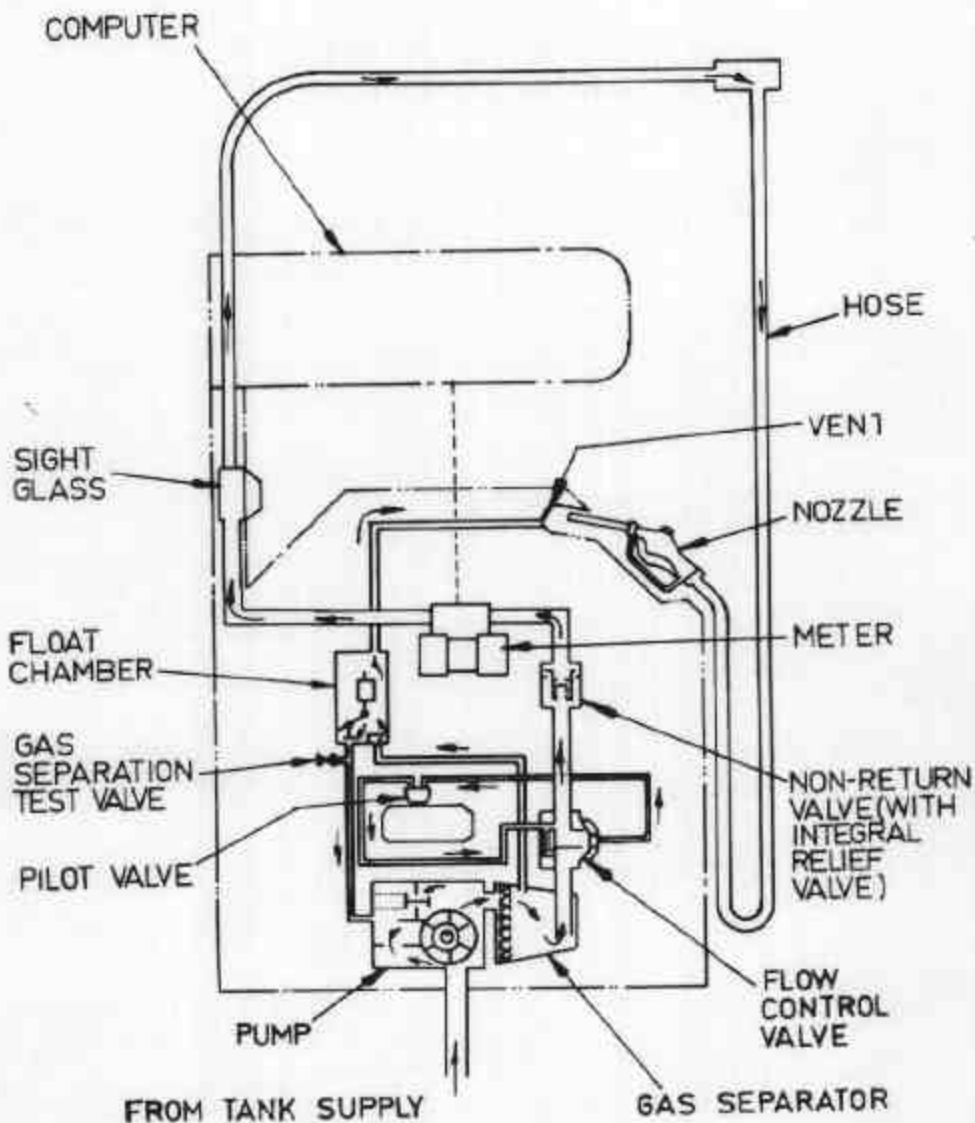
FIGURE 5/6A/74 - 7



Model T080 SSLP

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FIGURE 5/6A/74 - 8



Hydraulic Diagram

Model T080 SSLP — Hydraulic Diagram

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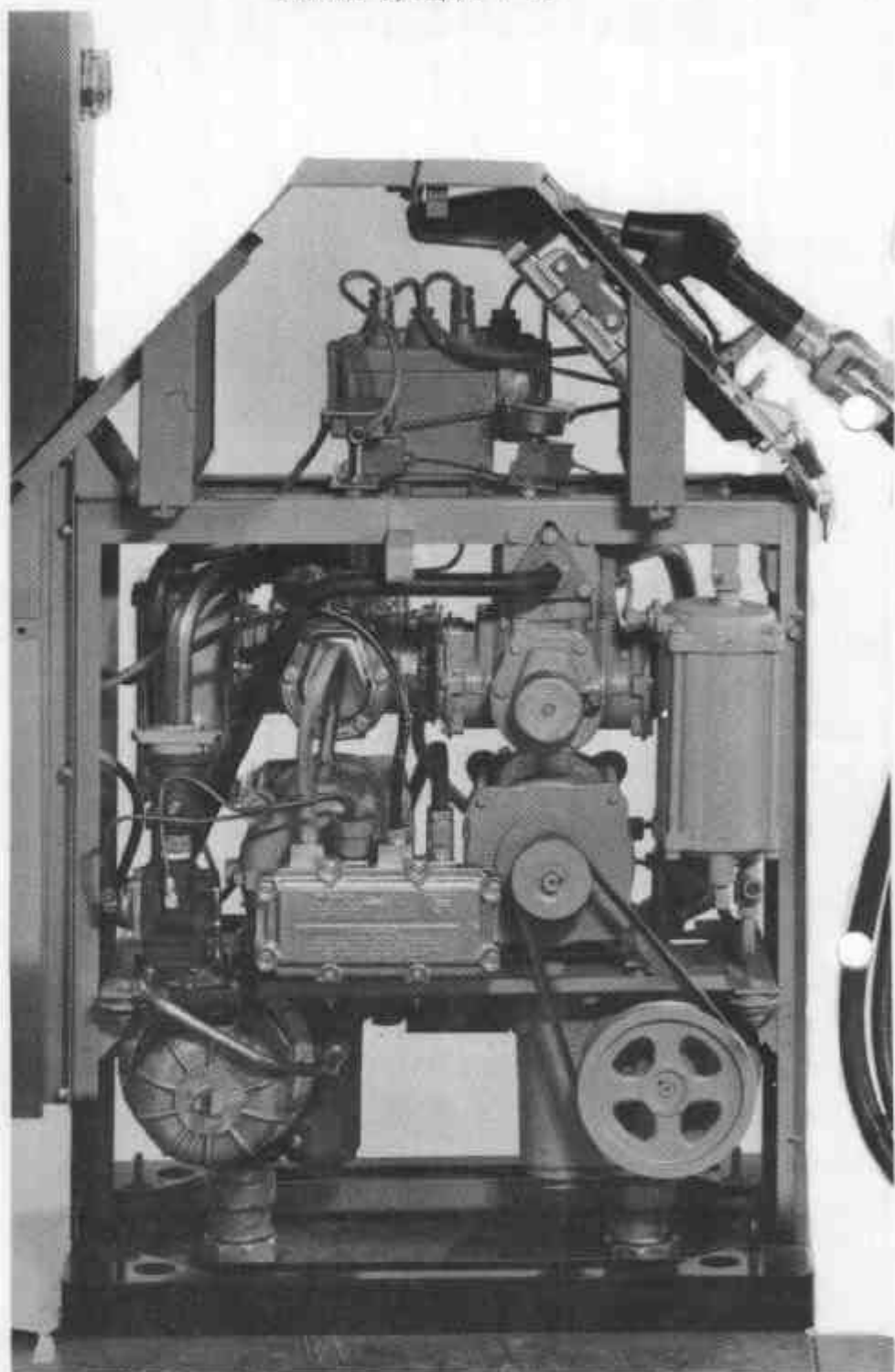
FIGURE 5/6A/74 - 9



Driveway Flowmeter Model T080 STLP

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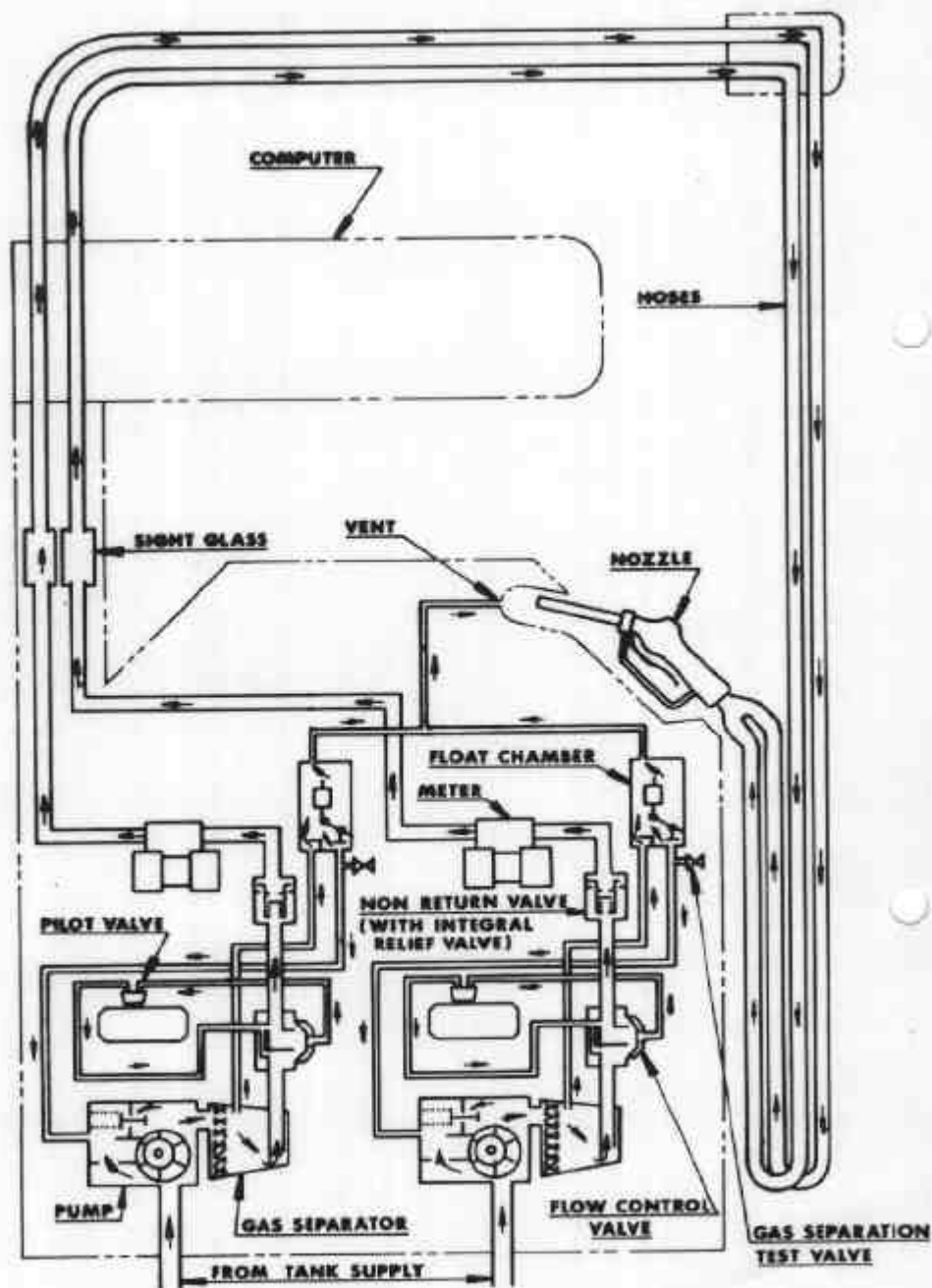
FIGURE 5/6A/74 - 10



Model T080 STLP

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FIGURE 5/6A/74 - 11



Model T080 STLP — Hydraulic Diagram

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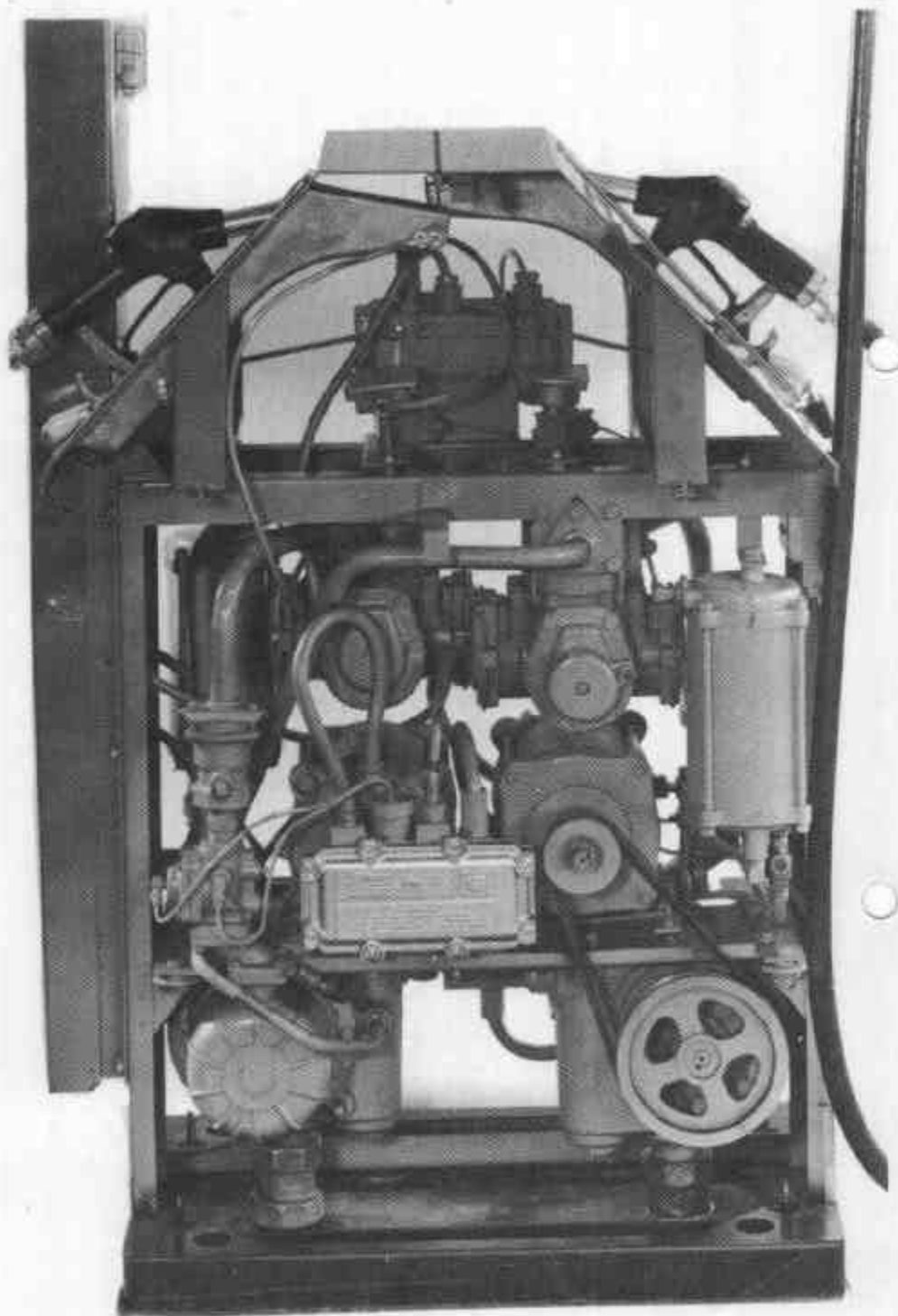
FIGURE 5/6A/74 - 12



Model T080 DTLP

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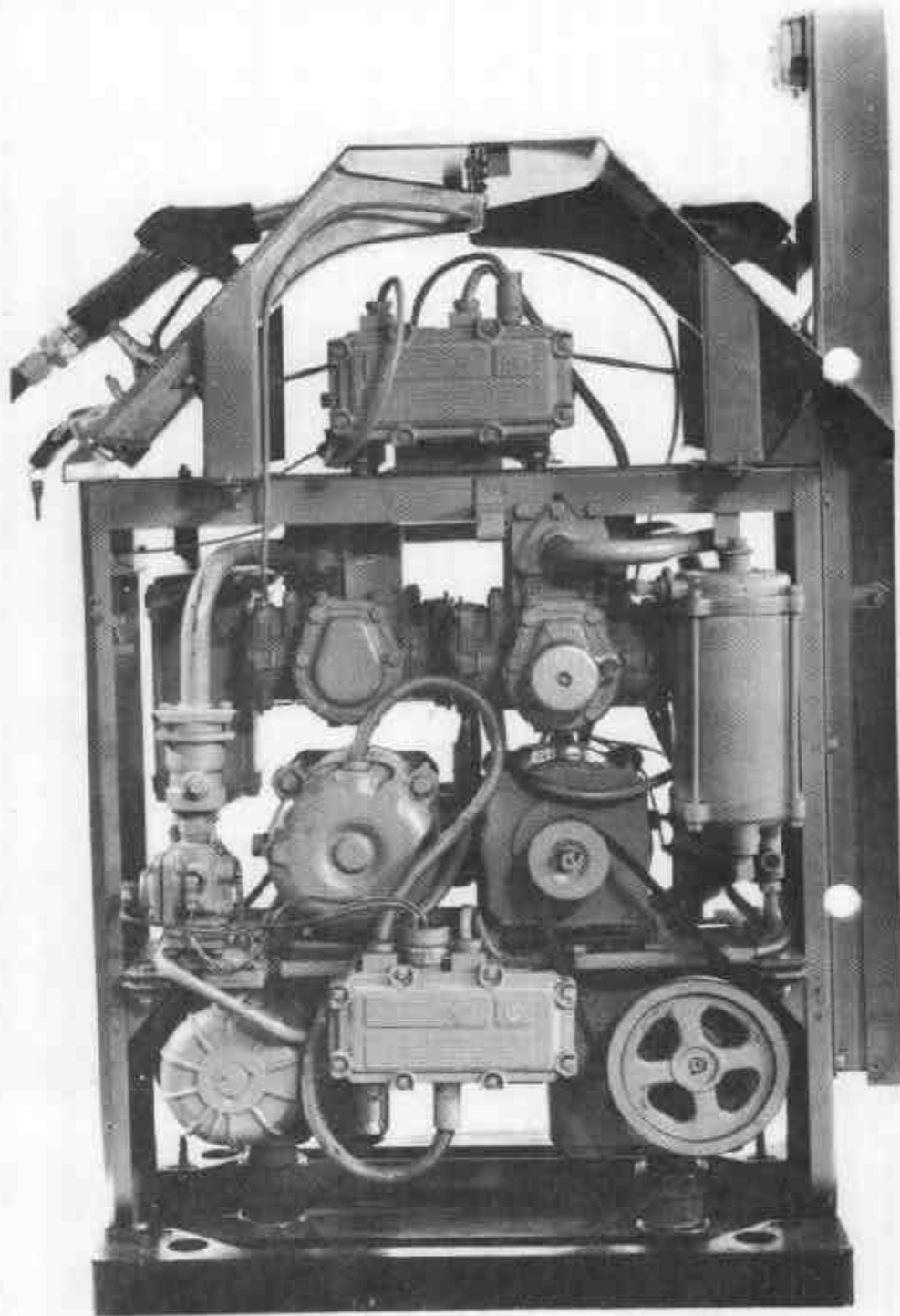
FIGURE 5/6A/74 - 13



Model T080 DTLP

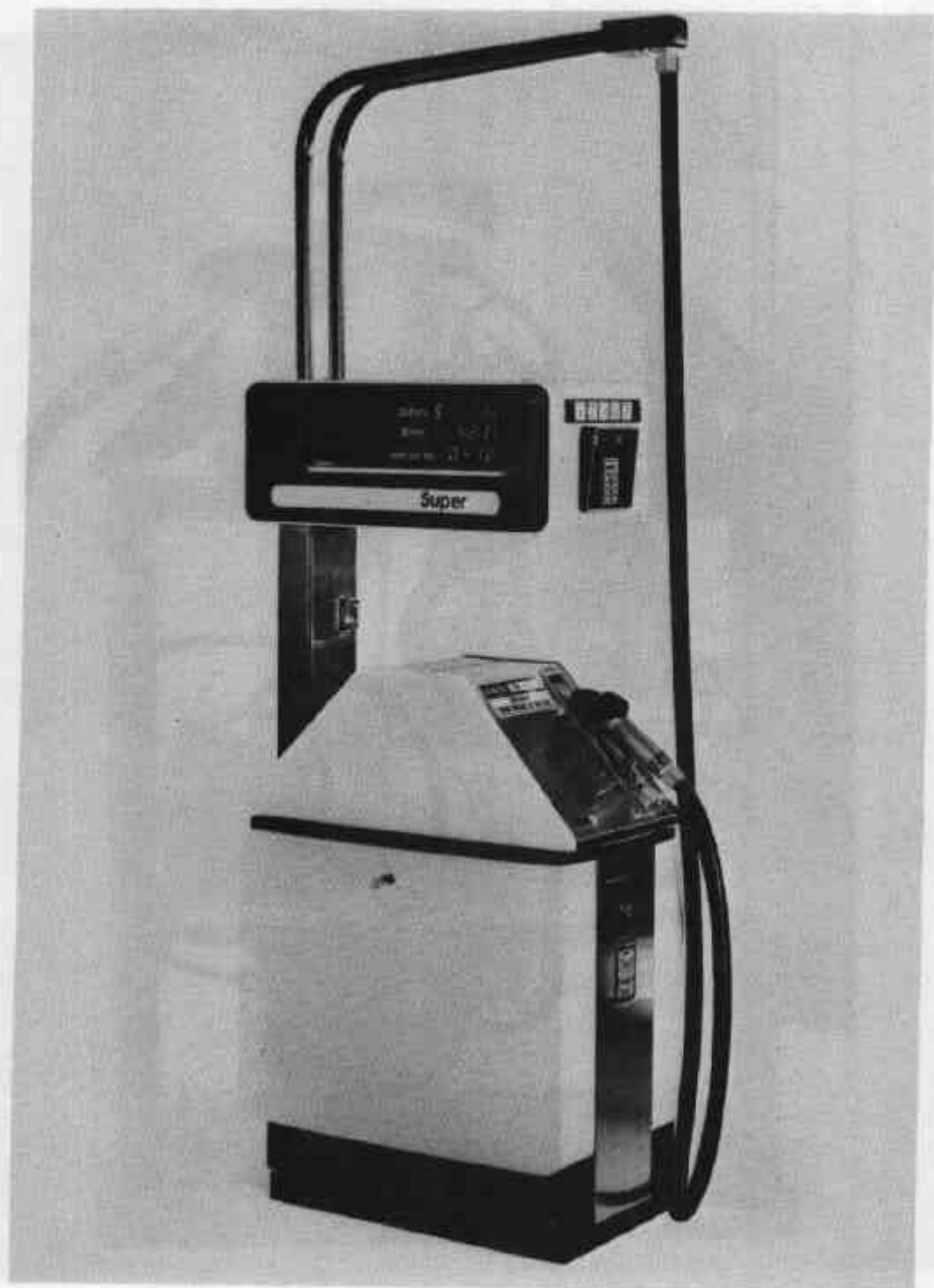
15/6/79

FIGURE 5/6A/74 - 14



Model T080 DTLP

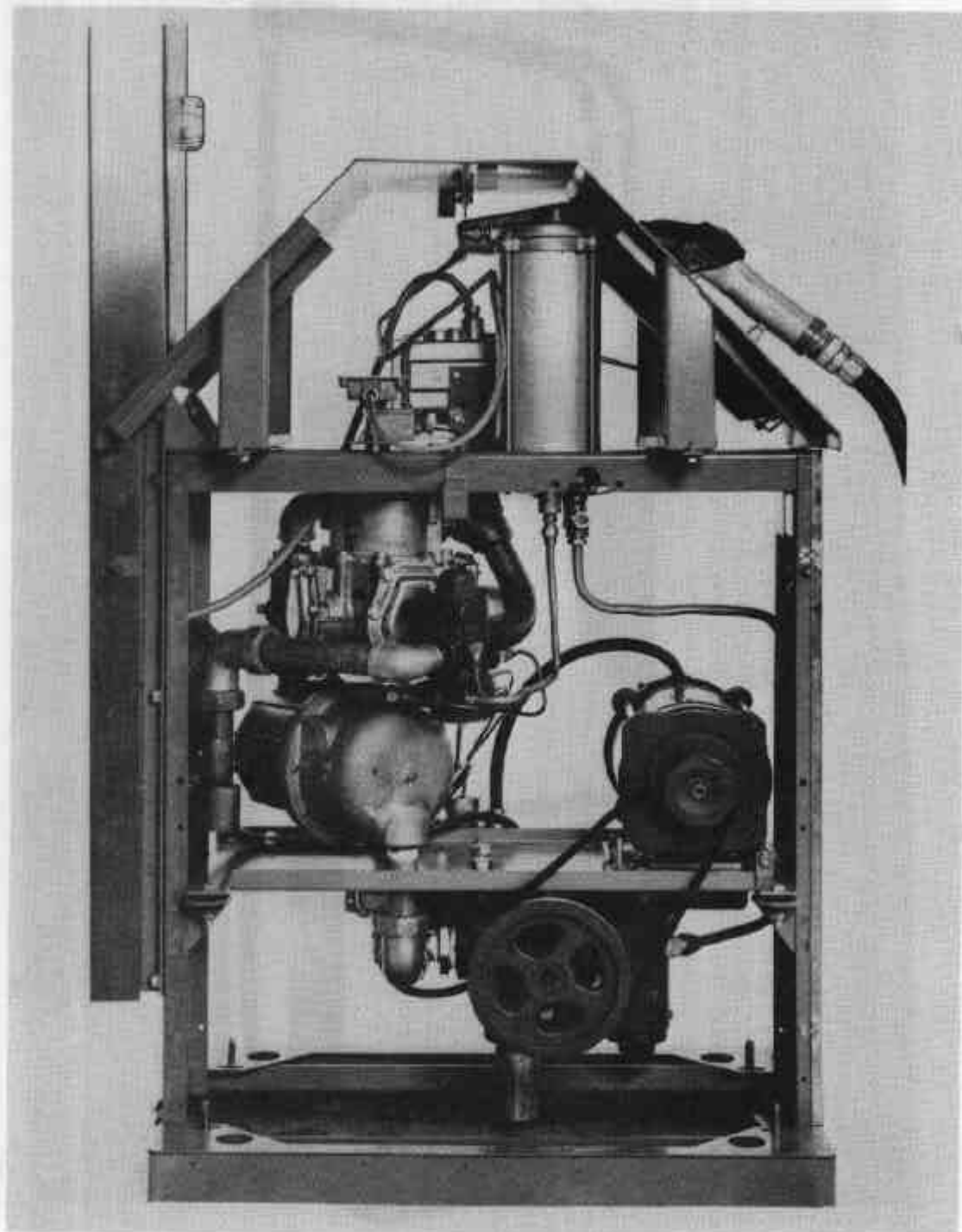
15/6/79



Driveway Flowmeter Model T080 SSHP

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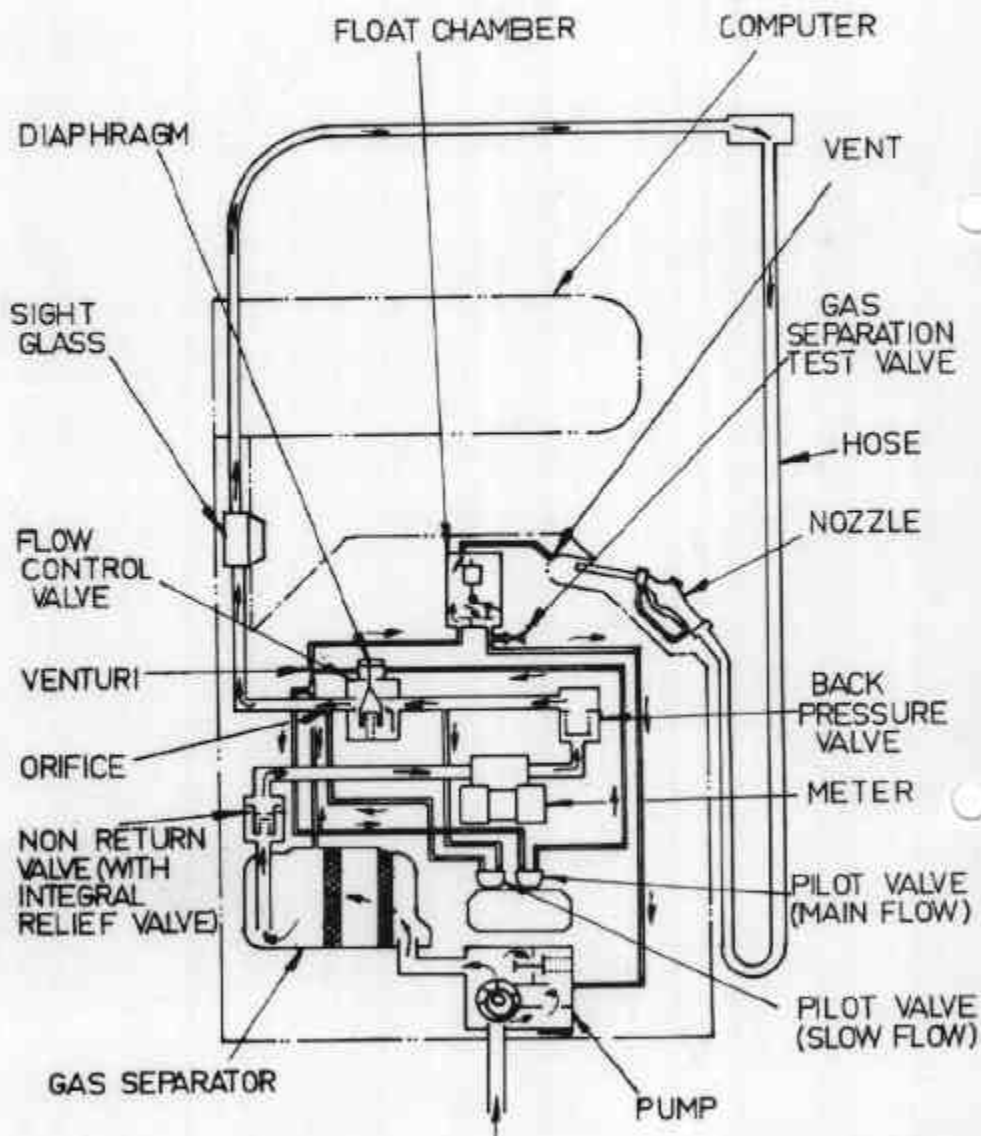
FIGURE 5/6A/74 - 16



Model T080 SSHP

5/12/80

FIGURE 5/6A/74 - 17



Model T080 SSHP — Hydraulic Diagram

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Pulse-generator Unit

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FIGURE 5/6A/74 - 19



Computer Unit DT 01825-001



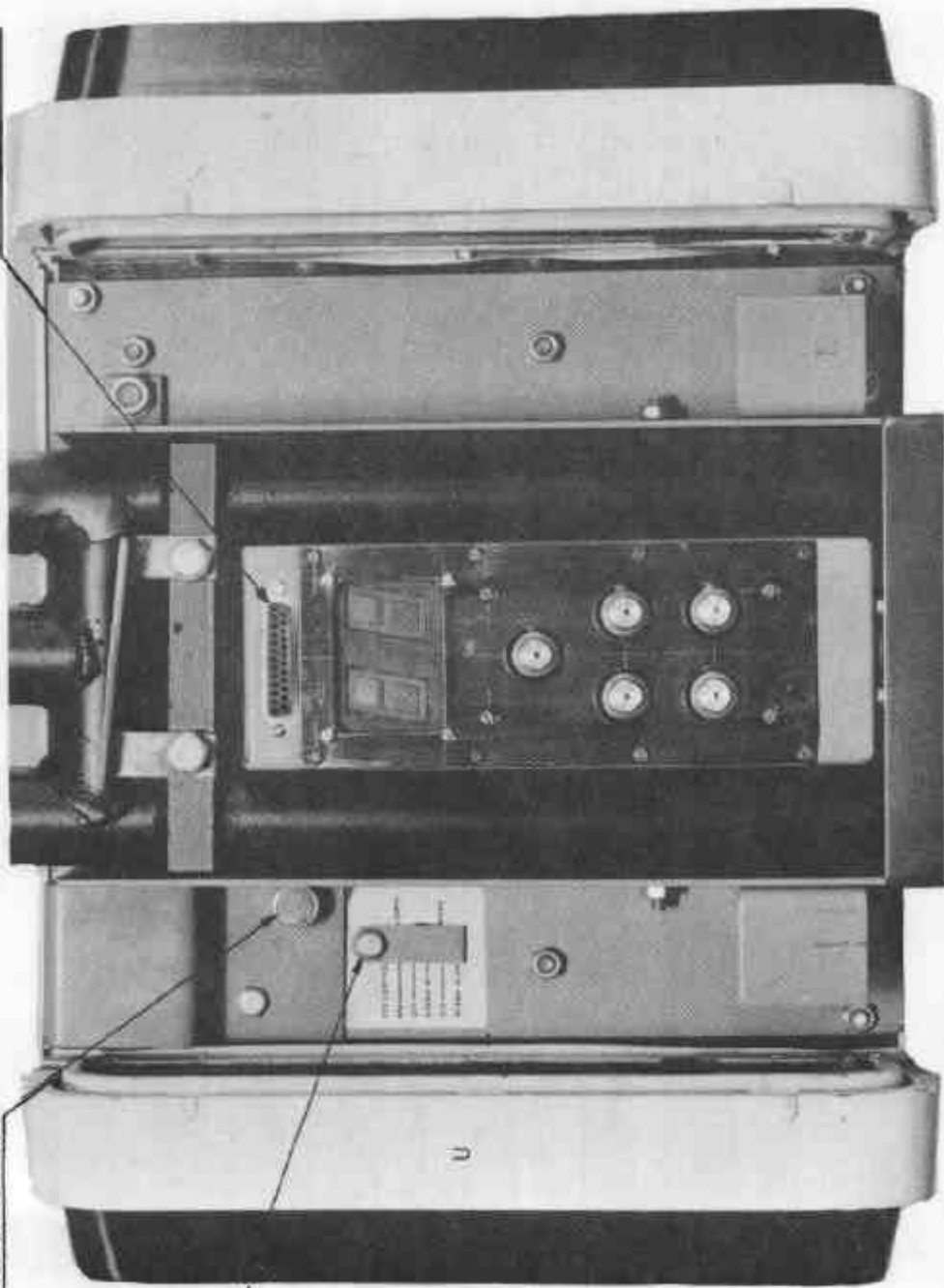
Preset Keyboard and Display

FIGURE 5/6A/74 - 21

MULTI-PIN SOCKET

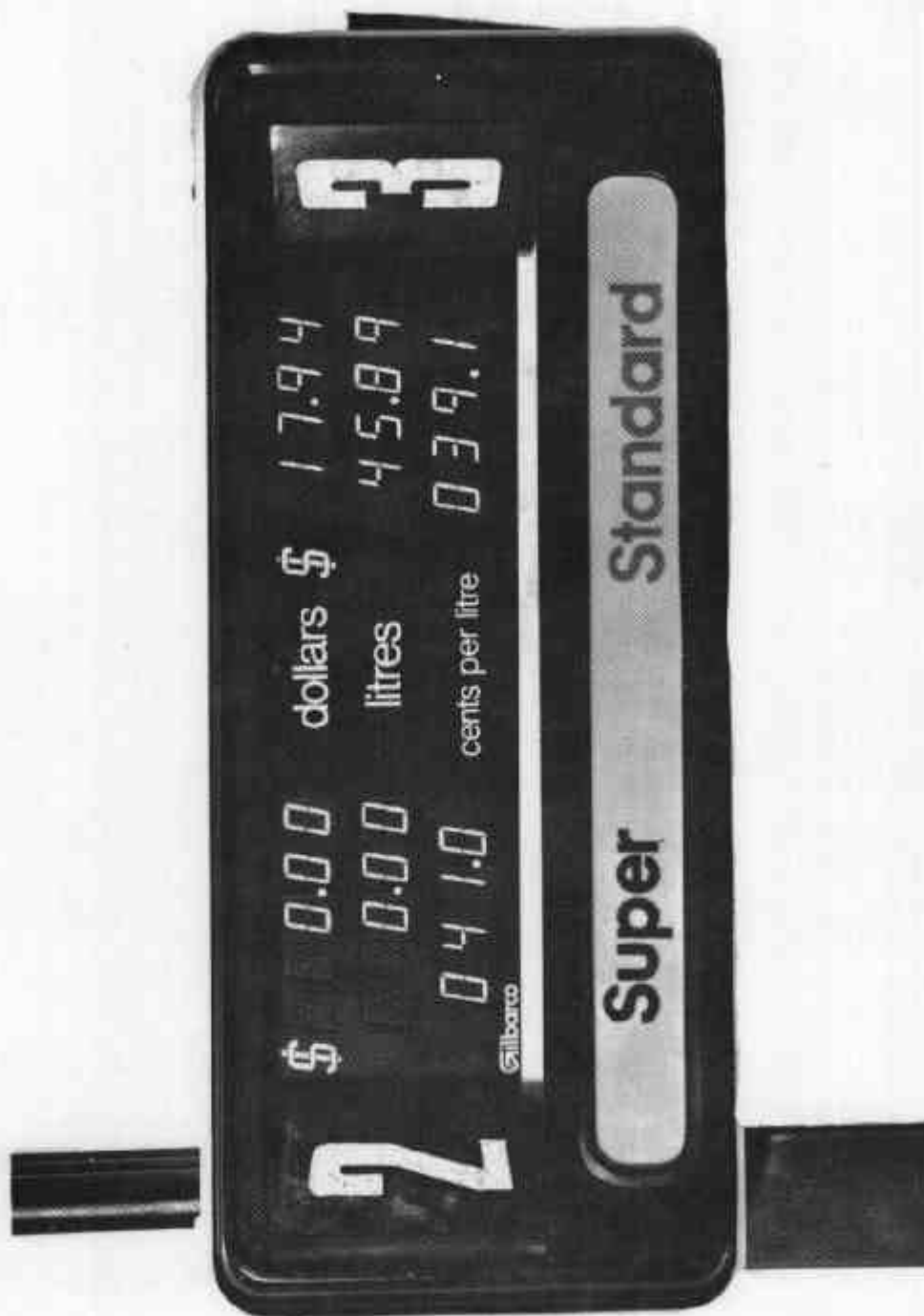
SEALING PLUG

SWITCHES
BENEATH
COVER



Driveaway Flowmeter without Side Panel

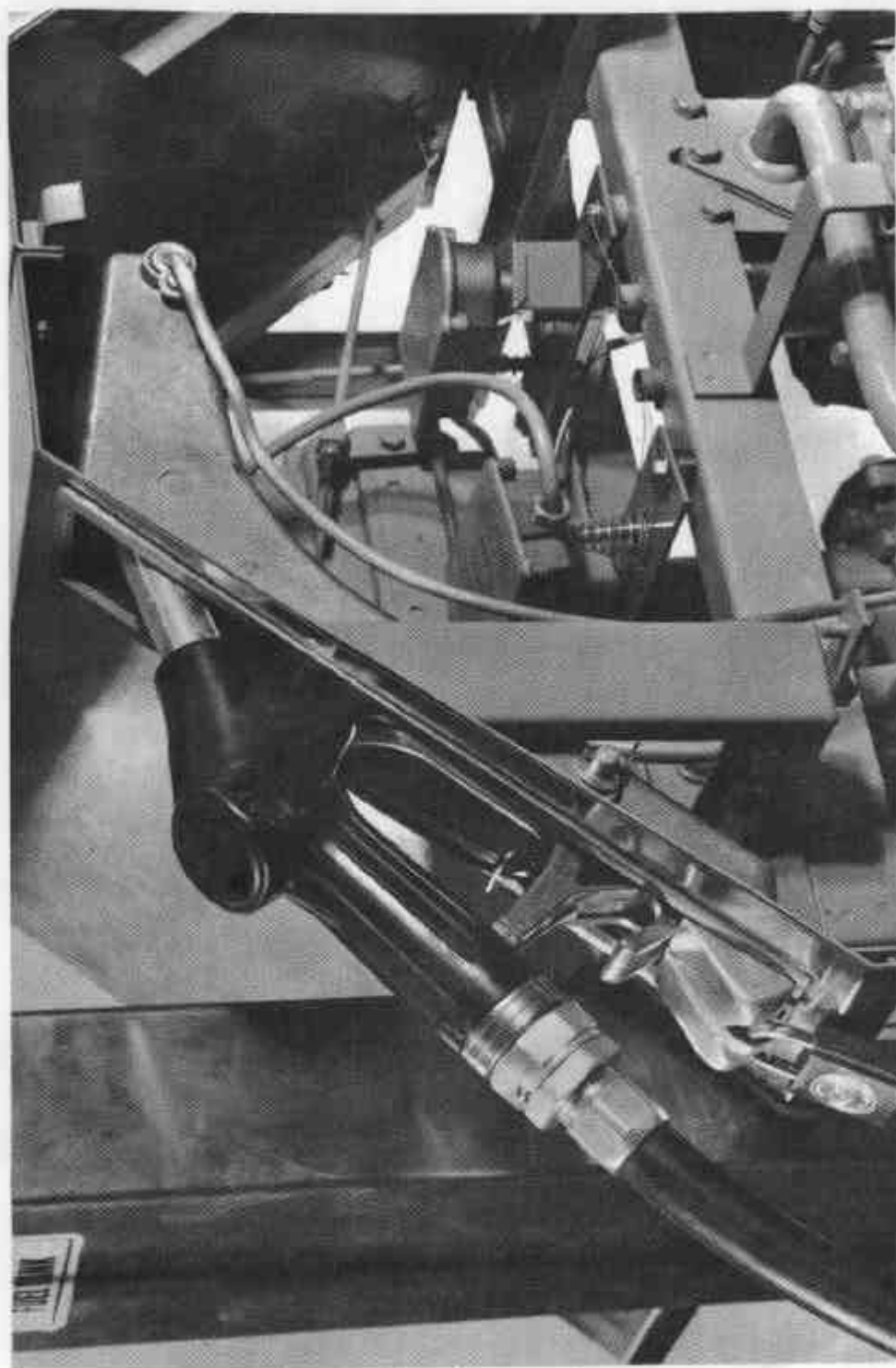
FIGURE 5/6A/74 - 22



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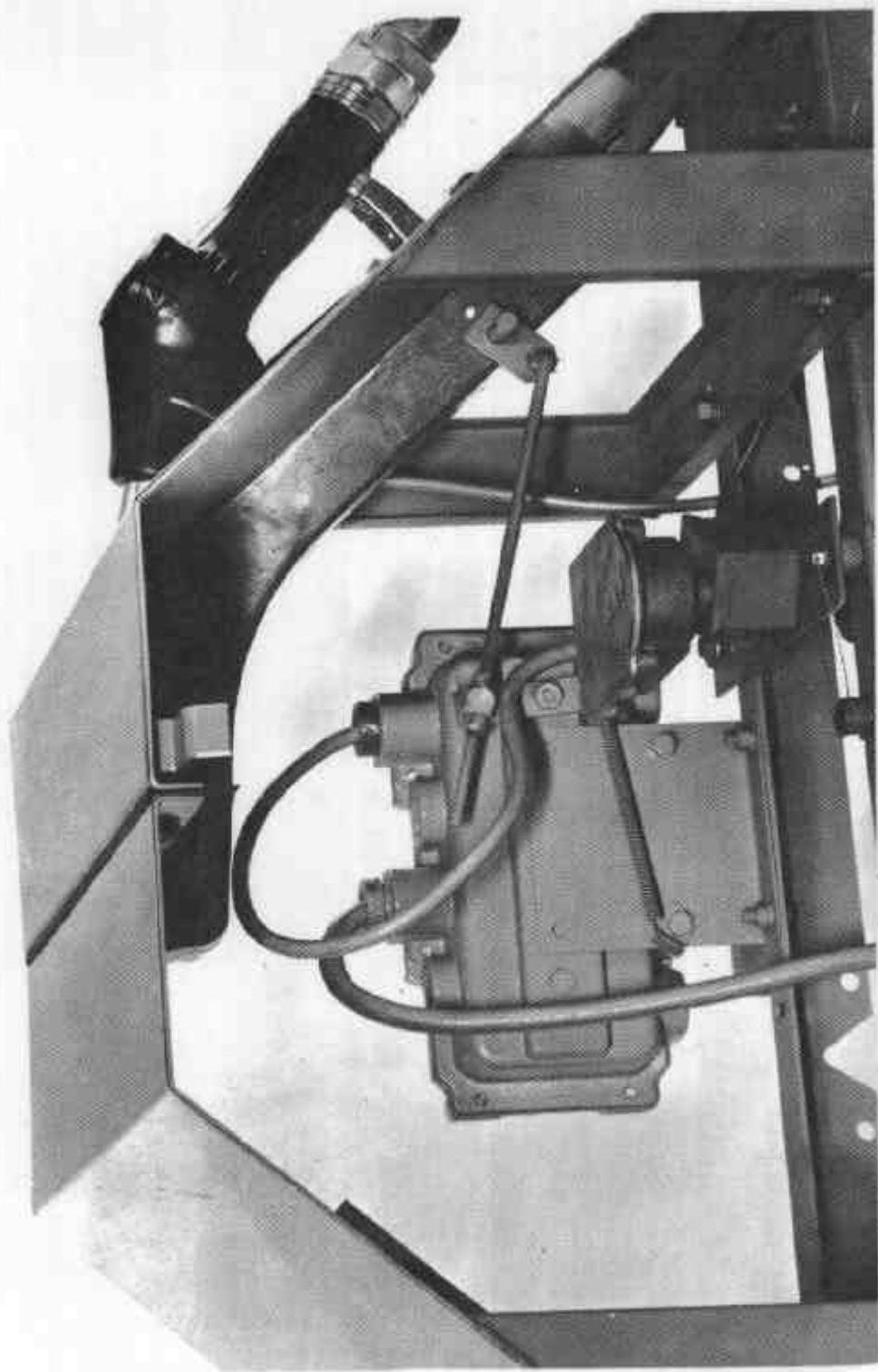
Computer Unit Model DT 01875-003

FIGURE 5/6A/74 - 23



Nozzle Hang-up

FIGURE 5/6A/74 - 24



Nozzle Interlock

15/6/79

FIGURE 5/6A/74 - 25



Product Selector and Indicator



Product Selector and Indicator Mechanism

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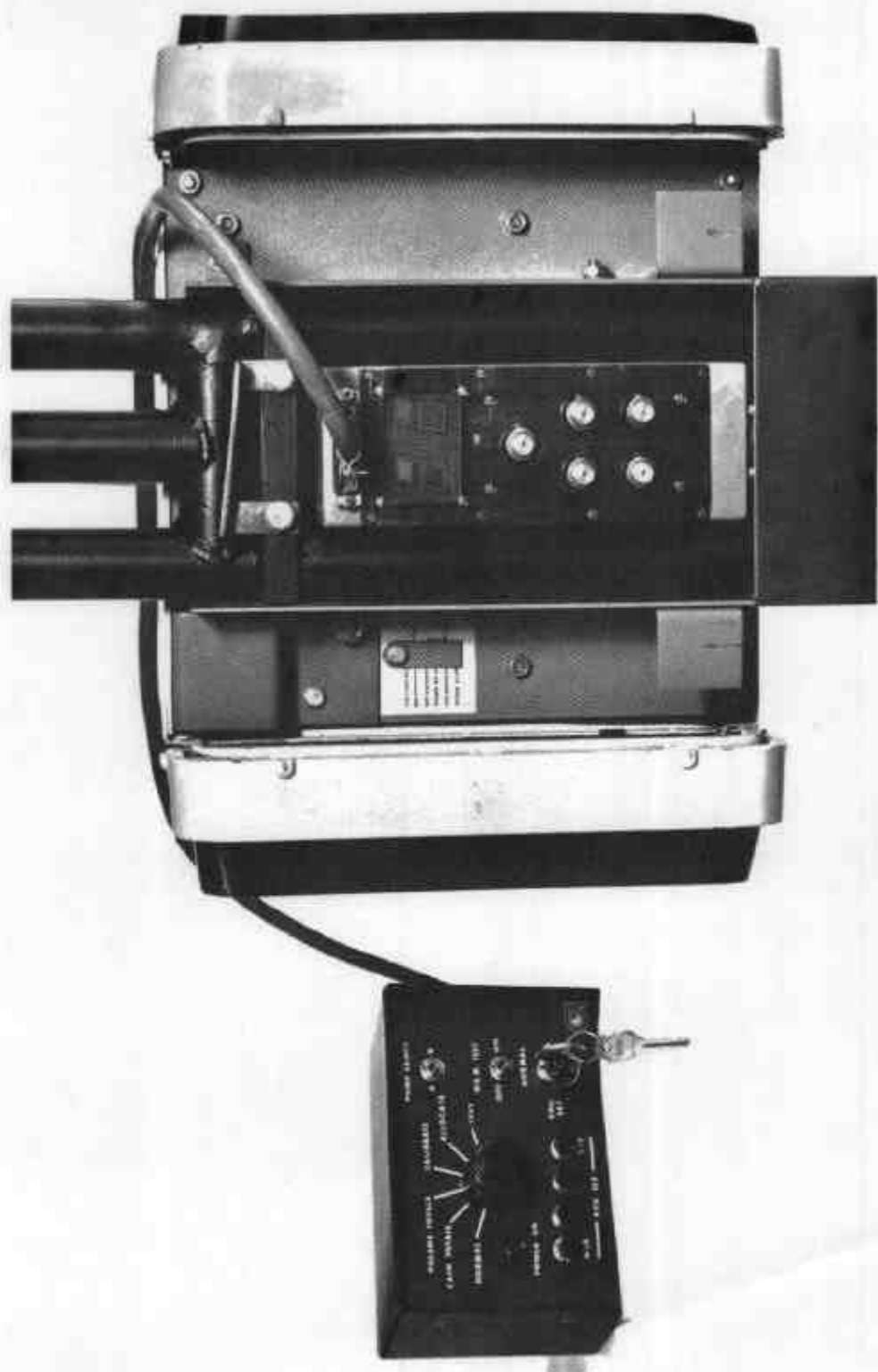
FIGURE 5/6A/74 - 27



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Pump Command Module

FIGURE 5/6A/74 - 28



Command Module Plugged into Driveway Flowmeter

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