

Gilbarco

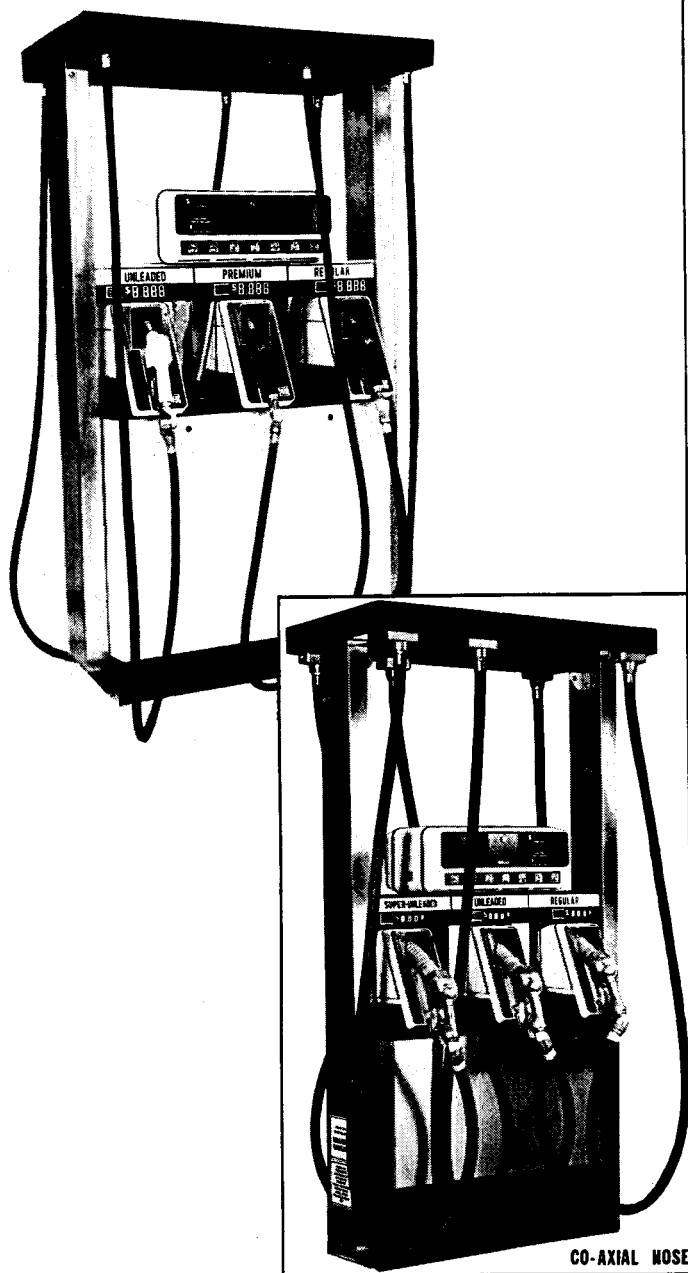
Parts List

PT1409A

MPD-A3

3,4&6 hose Multi-Product Dispensers

This parts list represents the majority of production MPD-A3 units in 1984.



- A C O A O B O 000 O O
- A. U.S. _____
 - C. Electronic Gas Pump _____
 - D. MPD-A3 (94" Tall) _____
 - E. MPD-A3 (84" Tall) _____
 - A. Dispenser (Std. Gal.) _____
 - D. Multiproduct (4) Meters; (2) Products _____
 - E. Multiproduct (6) Meters; (3) Products _____
 - J. Multiproduct (3) Meters; (3) Products _____
 - A. Std. Nozzle Boot with Totalizer - U.S. Gal.
 - B. V/R Nozzle Boot & V/R Hook with Totalizer - U.S. Gal.
 - C. Std. Nozzle Boot, less Totalizer _____
 - D. V/R Nozzle Boot & V/R Hook less Totalizer _____
 - G. Std. Nozzle Boot with Totalizer - Metric _____
 - H. V/R Nozzle Boot & V/R Hook with Totalizer - Metric _____
 - J. V/R Nozzle Boot & Std. Hook with Totalizer - U.S. Gal.
 - K. V/R Nozzle Boot & Std. Hook with Totalizer - Metric.
 - B. Preset _____
 - C. Third Major Revision (MPD-A3C with Price Bar/Cast Suction Stubs/Cast outlet fittings/when V/R with Dedicated lines) _____
 - D. Fourth Major Revision (for use with Co-axial V/R hose and nozzle) _____
 - A00. Less V/R Piping _____
 - B00. With V/R Piping _____
 - C00. With V/R Piping Plugged _____
 - O. Discharge Both Sides _____
 - A. Discharge "A" Side _____
 - B. Discharge "B" Side _____
 - O. Minor Variation _____

- CA O O O O
- Electronic head _____
 - Fuel Outlet Configuration _____
 - O. Six hose
 - 1. Three hose "A" side
 - 2. Three hose "B" side
 - 3. Four hose
 - Volume Display _____
 - O. XX.XXX
 - 1. XXX.XX
 - Logic Options _____
 - O. U.S. Gal. to U.S. Gal.
 - 1. U.S. Gal. to Liters
 - Market _____
 - O. U.S. (115V, 60Hz)
 - Options _____
 - O. Std.
 - 1. With Key control (not available with dual displays)
 - 2. Amoco special
 - 4. Cash/Credit

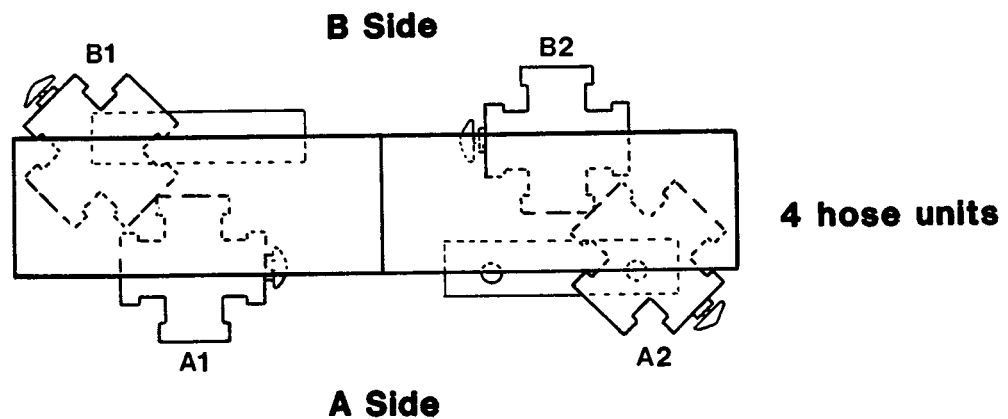
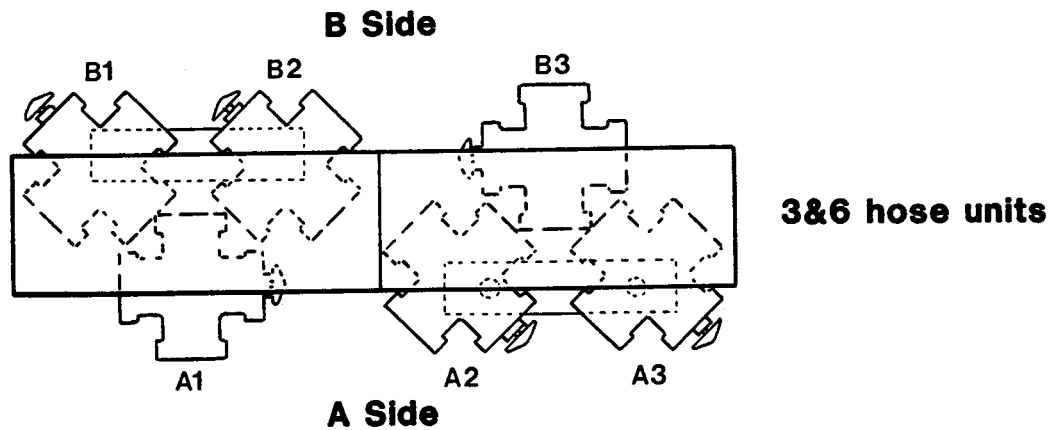
IMPORTANT!

This parts list is set up with one 13 digit model number for the Hydraulic Module and one 7 digit model number for the Electronic Module. When ordering replacement parts, give the 13 and 7 digit model code numbers and all information stamped on both nameplates.

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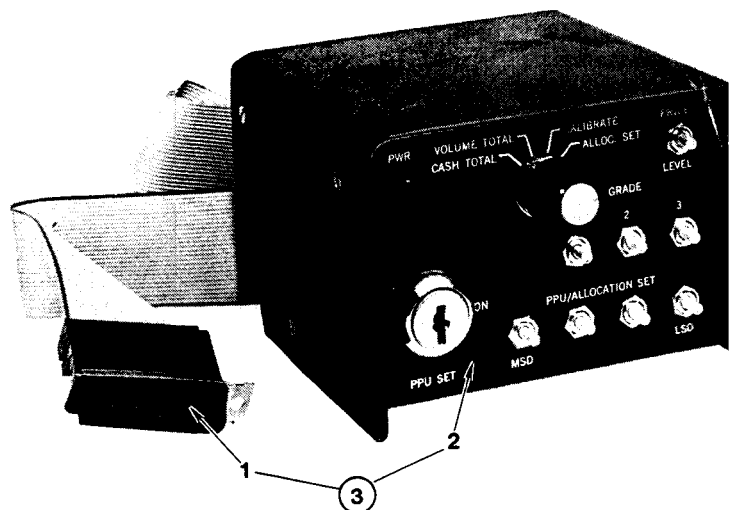
Frame and Meter Arrangement

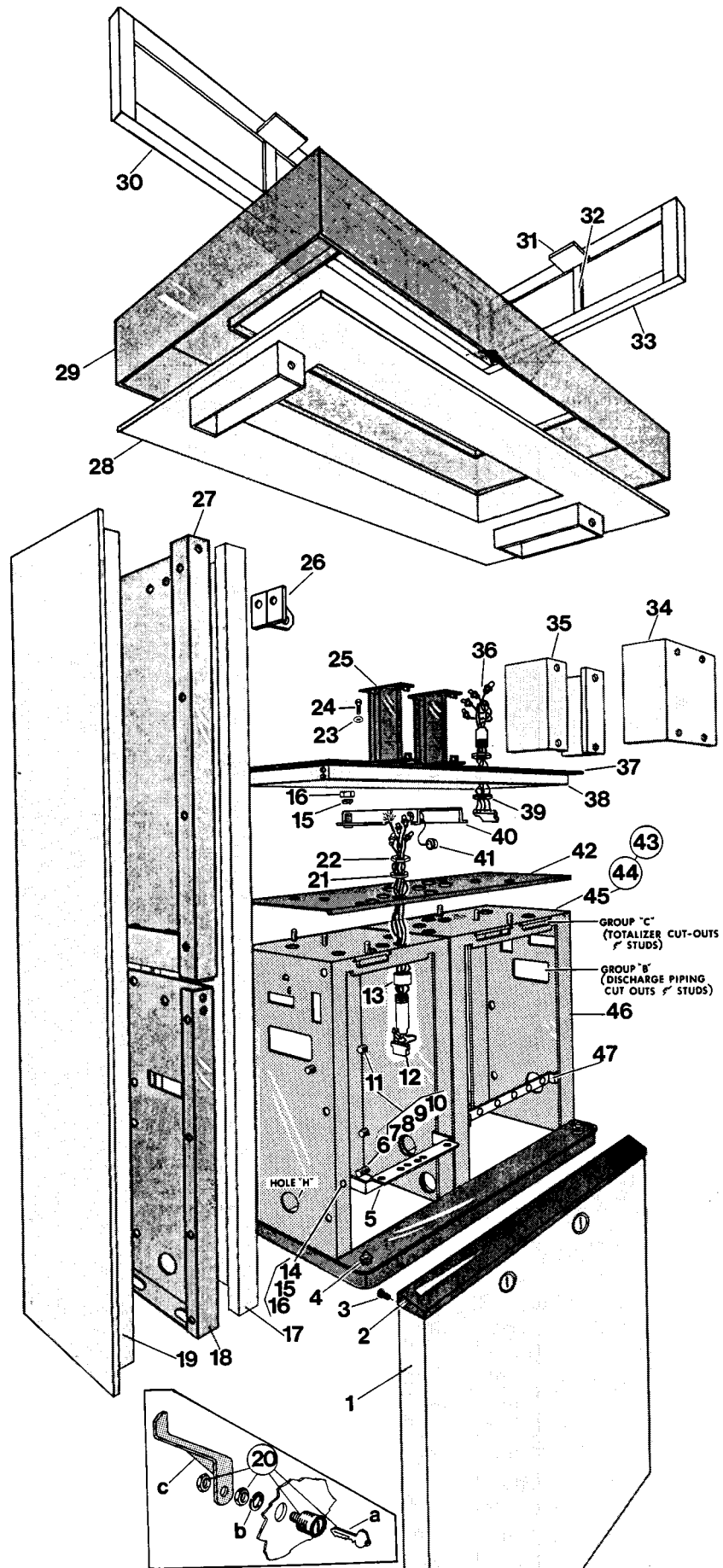


Command Module
PA01390001

Plate 34

Code No.	No. Req.	Symbol No.	Description
1.	1	T12932-01	Cable Assembly (From Comm. Mod. to Oper. Panel)
2.	1	R15340-G1	Command Module
3.	1	PA01390001	Command Module Assembly (Includes Item #1-T12932-01 & #2-R15340-G1)





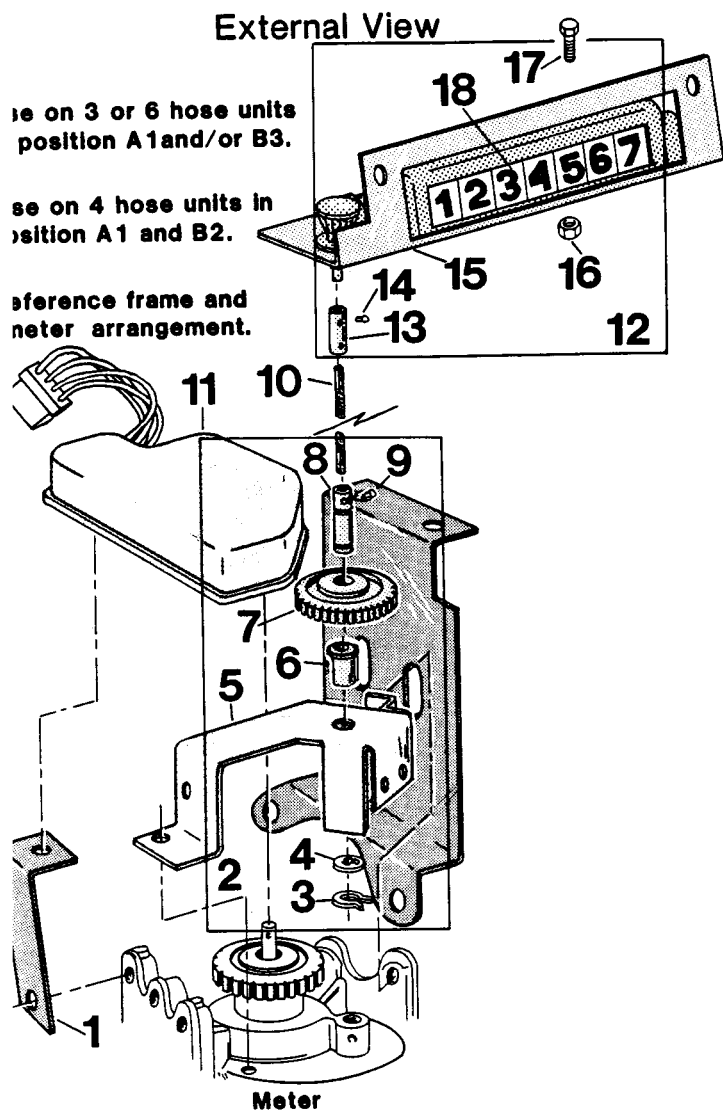
Frame assembly

CODE NO.	NO. REQ.	SYMBOL NO.	DESCRIPTION	CODE NO.	NO. REQ.	SYMBOL NO.	DESCRIPTION
1.	2	T13583-	* Front panel ass'y. (42" wide) (includes items 2,3 and 20)	31.	6	R16584	Canopy brkt.
		-03	C.R.S.	32.	6	N21582	Canopy brkt. strip
		-04	SSTL	33.	2	T14008-	* Sides of Top canopy (C.R.S.)
2.	2	T13581-04	Panel cap ass'y.			-01 *	Sides of Top canopy (SSTL)
3.	4	K85356	Bumper	34.	2	R16725	Support column sheathing (SSTL) (used on 4 hose units)
4.	8	K80671-24	Rubber washer	35.	4	T13055	Support column sheathing (SSTL) (Used on 3 and 6 hose units)
5.	2	R15581	Strainer support brkt.	36.	2/3	R16418-G1	I.S. Barrier (1 per grade)
6.	2	N16599-29	Spacer (between frames)	37.	1	T13049-	Vinyl Sheet (used on 3 and 6 hose units)
7.	2	K01903	Hex hd. bolt (3/8"-16 x 1 1/4" lg.)			-02	Vinyl Sheet (used on 4 hose units)
8.	8	K01943	Nut (3/8")	38.	1	T13047-02	Shelf ass'y.
9.	8	K5U775	Lockwasher	39.	4/6	K76434-02	Conduit locknuts
10.	16	K02206	Washer	40.	1	T13041-02	Shelf bracket
11.	6	K01902	Hex hd. bolt (3/8"-16x1"lg.)	41.	2	K85071-13	Snap bushing
12.	as req.	T13713-G1	I.S. Barrier ass'y. (1 per pulser)	42.	1	T13033	Vapor barrier
13.	as req.	K81090-20	Conduit enlarger	43.	1	T13018-	Frame ass'y. (Includes items 4-11, 14-16, and 43-47)
14.	8	K42999	Washer			-02	With T13039-02 frame (used on 3 prod. units)
15.	14	K50774	Lockwasher			-03	With T13039-03 frame (used on 3 prod. units)
16.	14	K01942	Nut (5/16")			-04	With T13039-04 frame (used on 2 & 3 prod. units)
17.	2	T13046	Column sheathing sleeve (94") (SSTL)	44.	2	T13039-	Welded frame ass'y. (includes 45 and 46)
	2	T13429	Column sheathing sleeve (84") (SSTL)			-02	For units with inside totalizers
18.	2	T13014-03	Lower column and base ass'y.			-03	With T13031-02 top member
19.	2	T13054	Column sheathing cover (94") (SSTL)			-04	With W01587-01 side "A"
	2	T13430	Column sheathing cover (84") (SSTL)			-05	With W01587-03 side "B"
20.	4	K87301	Panel lock (includes key)			-06	For units with inside totalizers
a. as req.		K87301-01	Key			-07	With T13031-02 top member
b. as req.		K50411-33	Lockwasher			-08	With W01587-05 side "A"
c. as req.		K89989-02	Lock cam			-09	With W01587-06 side "B"
21.	as req.	N16599-65	Washer			-10	For units with external totalizers
22.	as req.	K89681	Locknut			-11	With T13031-07 top member
23.	16	K66872-01	Washer			-12	With W01587-05 side "A"
24.	16	K05291	Hex hd. bolt (5/16"-18x3/4" lg.)			-13	With W01587-06 side "B"
25.	2	R15700	C.D. Support column ass'y. (welded)	45.	2	T13031-	Top member
26.	2	N21576	Lifting brkt.			-02	Less group "C"
27.	2	R15576-	Upper column & patch sleeve ass'y.			-03	With group "C"
		-03	Used on 94" units	46.	4	W01587-	Side member
		-04	Used on 84" units			-01	With group "B" and hole "H" 1 7/16" Dia.
28.	1	T13593	Support housing weld ass'y. (Welded stiffeners off the housing surface.)			-02	Less group "B" and hole "H" 1 7/16" Dia.
28.	1	W01722	Support housing weld ass'y. (Welded stiffeners flat against the housing surface.)			-03	With group "B" and hole "H" 2" Dia.
29.	1	T13038	Piping housing cover			-04	Less group "B" and hole "H" 2" Dia.
30.	2	T14007-	* Front and Rear of Top canopy (C.R.S.)	47.	2	R15580-02	Junction box straps
		-01 *	Front and Rear of Top canopy (SSTL)				

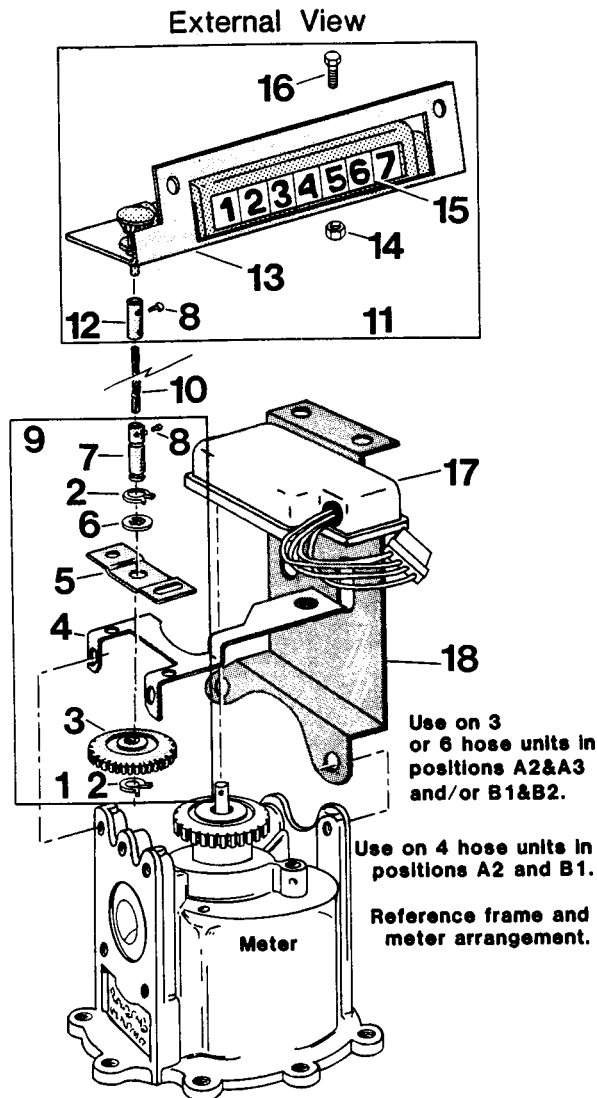
* Shipping Order Item.

External View Totalizers with Pulser and Meter

PLATE 20

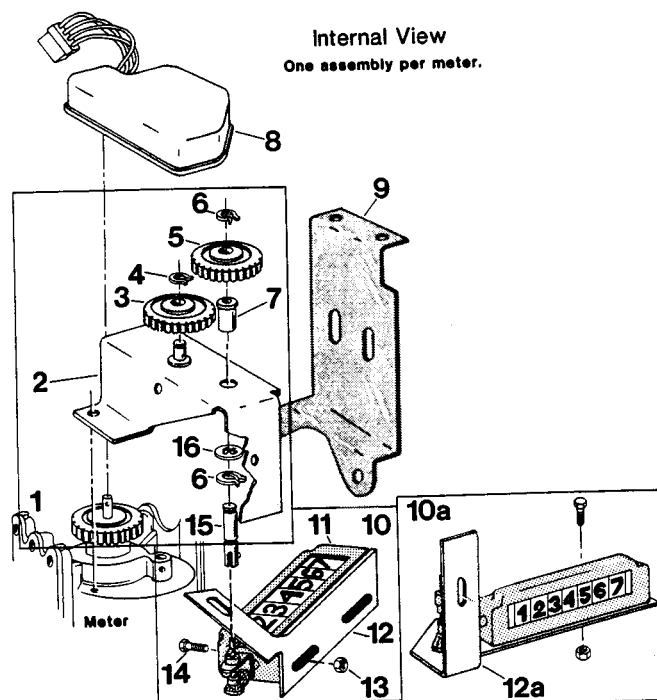


CODE NO.	NO. REQ.	SYMBOL NO.	DESCRIPTION
1.	1	R17466-01	Pulser bracket
2.	1	N21876	Meter gear bracket and gear ass'y. (Includes items 3-9)
3.	2	K76238-36	Retainer ring
4.	1	Q10217-09	Retainer ring (push-on)
5.	1	R16366	Bracket
6.	1	N17706-37	Oilite bearing
7.	1	K88329	Gear (with flat edge in center hole)
8.	1	K90314	Drive shaft
9.	2	K76707	Set screw
10.	1	K89799-12	Flexible cable (4" lg.)
11.	1	T12672-G2	Pulser
12.	1	N21885	Totalizer to bracket ass'y. (Includes items 13-18)
13.	1	K89798	Coupling
14.	2	K76707	Set screw
15.	1	N21881	Totalizer bracket
16.	2	K66857	Nut
17.	2	Q10111-34	Screw (6-32x3/8" lg.)
18.	1	N21016	Totalizer



CODE NO.	NO. REQ.	SYMBOL NO.	DESCRIPTION
1.	1	N21877-01	Pulser and meter gear mounting bracket ass'y. (Includes items 2-9)
2.	2	K76238-36	Retainer ring
3.	1	K88329	Gear (with flat edge in center hole)
4.	1	R16369	Meter gear bracket
5.	1	K90985	Mounting bracket for gear
6.	1	Q10217-09	Retainer ring
7.	1	K90314	Drive shaft gear & counter
8.	2	K76707	Set screw
9.	1	K90986	Mounting bracket & meter gear ass'y. (Includes items 2, 3 & 5-8)
10.	1	K89799-11	Flexible shaft (3 5/8" lg.)
11.	1	N21885	Totalizer to bracket ass'y. (Includes items 8 & 12-16)
12.	1	K89798	Coupling
13.	1	N21881	Totalizer bracket
14.	2	K66857	Nut
15.	1	N21016	Totalizer ass'y.
16.	2	Q10111-34	Screw (6-32 x 3/8" lg.)
17.	1	T12672-G2	Pulser
18.	1	R14848	Meter support bracket

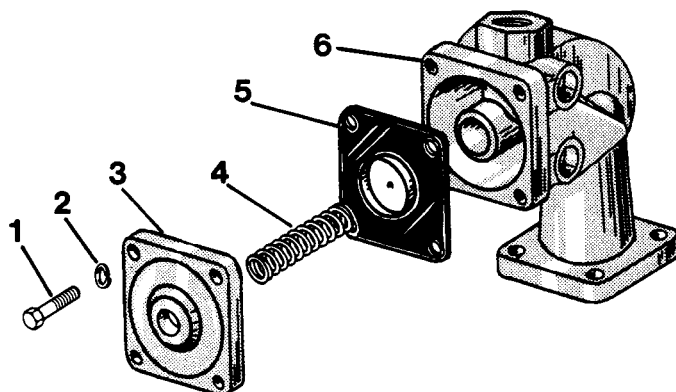
Internal View Totalizer with Pulser and Meter



CODE NO.	NO. REQ.	SYMBOL NO.	DESCRIPTION	CODE NO.	NO. REQ.	SYMBOL NO.	DESCRIPTION
1.	1	R15582	Gear & bracket ass'y. (Includes items 2-7, 15 & 16)	11.	1	K90011	Totalizer & collar ass'y.
2.	1	N20971-01	Bracket	12.	1	N21607	Totalizer bracket
3.	1	K88329-01	Gear (round center hole)	12a.	1	N21272	Totalizer bracket
4.	1	K76238-37	Retainer ring	13.	2	K66857	Nut
5.	1	K88329	Gear (with flat edge in center hole)	14.	2	Q10111-34	Screw (6-32x3/8" lg.)
6.	1	K76238-36	Retainer ring	15.	1	K90009	Drive shaft
7.	1	N17706-37	Oilite bearing	16.	1	Q10217-09	Retainer ring
8.	1	T12672-G2	Pulser	Quantity reflects one assembly per meter.			
9.	1	R14848	Meter support bracket	PA024TA10 meter assembly is required.			
10.	1	K90866	Totalizer & bracket ass'y. (Includes items 10-14)	Reference PT1464 meter parts list for specific information.			
10a.	1	K90025	Totalizer & bracket ass'y. (Includes items 10-14)				

Solenoid Valve PA0098

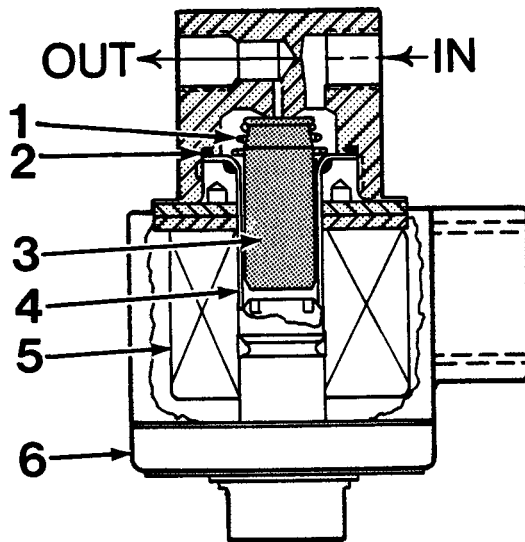
Plate 4a



CODE NO.	NO. REQ.	SYMBOL NO.	DESCRIPTION
1.	4	K43625	Hex hd. bolt (1/4-20x3/4" lg.)
2.	4	K50773	Lockwasher 1/4
3.	1	R14025-10	Solenoid valve cap
4.	1	K88745	Spring
5.	1	K88750	Diaphragm ass'y.
6.	1	W01454-11	Filter and solenoid base

General Control Solenoid Valve

FIGURE 4b

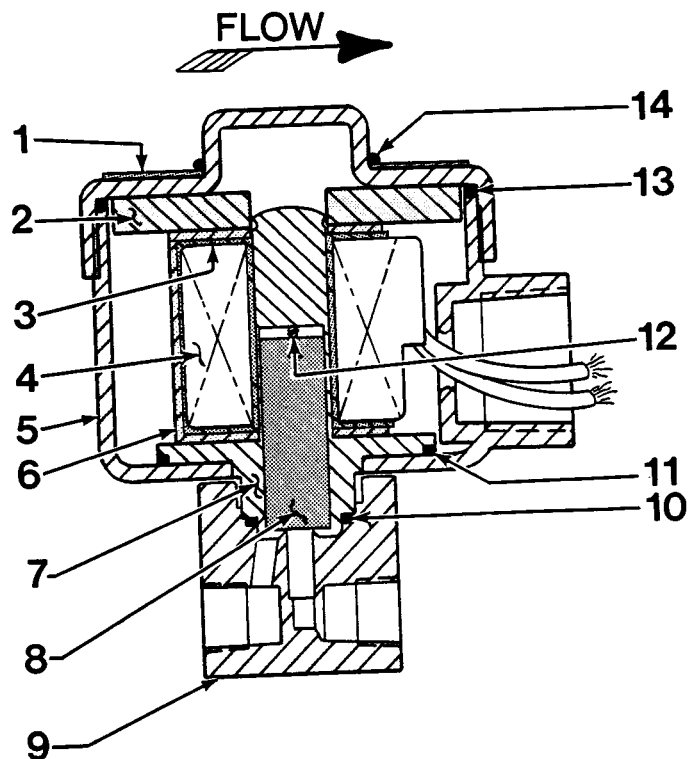


CODE NO.	NO. REQ.	SYMBOL NO.	DESCRIPTION
1.	1	N20822-01	Plunger spring
2.	1	N20822-02	Square seal
3.	1	N20822-04	Plunger ass'y. kit
4.	1	N20822-05	Plunger ass'y. kit
5.	1	N20822-03	Coil 110V/120V 50/60 HZ.
		-07	Coil 220V/240V 50/60 HZ.
6.	1	N20822-	Valve ass'y. 110V/120V 50/60 HZ.
		-06	Valve ass'y. 220V/240V 50/60 HZ.

ASCO Solenoid Valve

Plate 4c

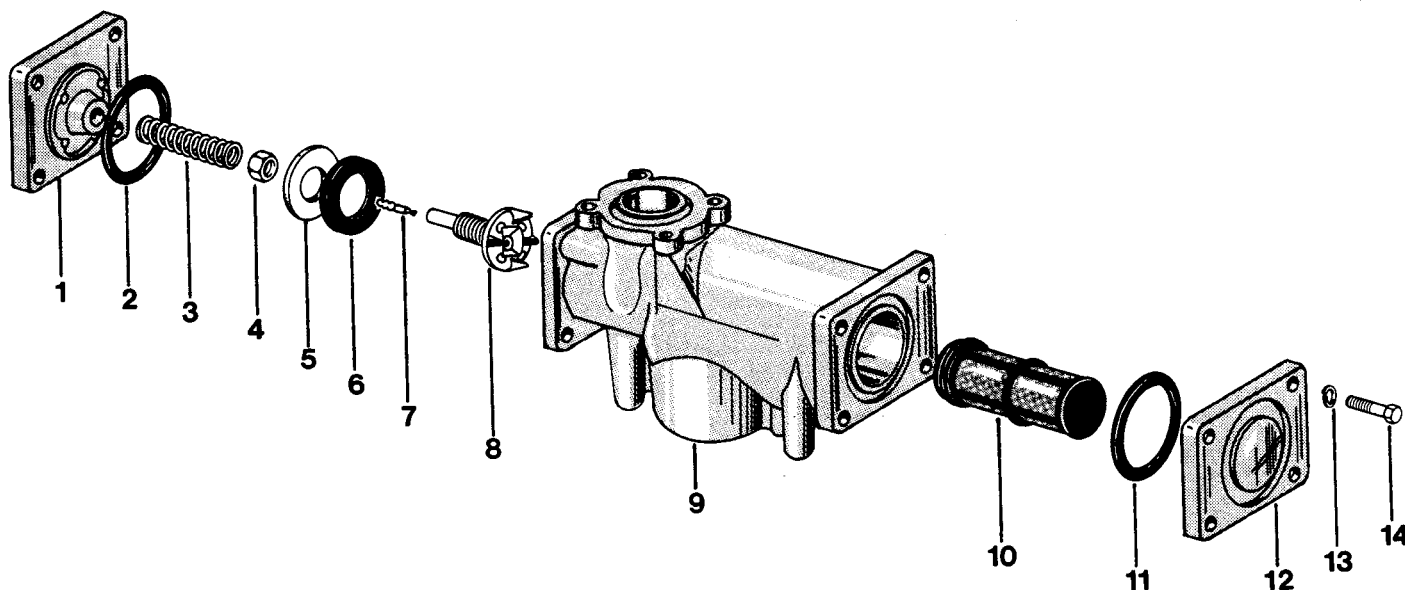
CODE NO.	NO. REQ.	SYMBOL NO.	DESCRIPTION
1.	1	222-764-1-1B	Nameplate
2.	1	222-764-1-1D	Spacer
3.	2	222-764-1-1E	Sleeve
4.	1	222-764-1-1G	Coil
5.	1	222-764-1-1F	Housing ass'y. cover
6.	1	222-764-1-1H	Yoke
7.	1	222-764-1-3	Solenoid base subass'y.
8.	1	222-764-1-5	Core ass'y.
9.	1	222-764-1-6	Body
10.	1	222-764-1-4	Bonnet gasket
11.	1	222-764-1-1J	Housing gasket
12.	1	222-764-1-2	Core spring
13.	1	222-764-1-1C	Cover gasket
14.	1	222-764-1-1A	Retaining ring



Pressure Regulator and Strainer Assembly

Plate 3

PA0097

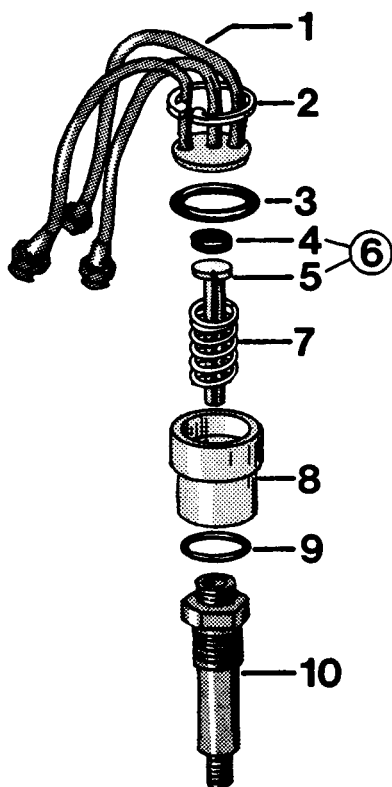


CODE NO.	NO. REQ.	SYMBOL NO.	DESCRIPTION
1.	1	R14024	End cap (check valve end)
2.	1	Q10068-20	O-ring (2 3/8" x 2 5/8" x 1/8")
3.	1	K88744	Spring
4.	1	K80964-23	Palnut (1/2"-20)
5.	1	K82047	Washer
6.	1	K81332	Disc
7.	1	K78956	Valve

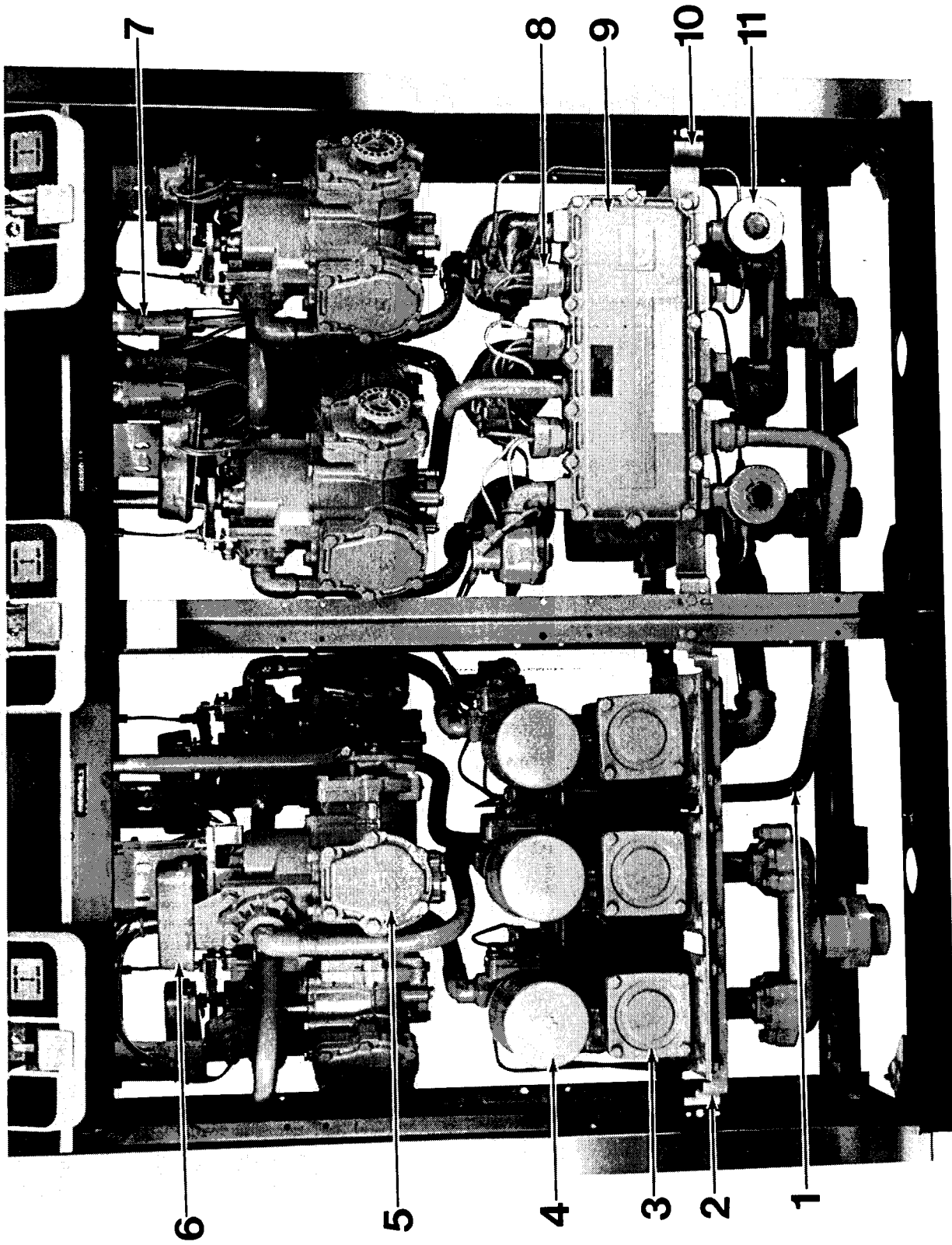
CODE NO.	NO. REQ.	SYMBOL NO.	DESCRIPTION
8.	1	N16804-21	Valve stem
9.	1	W01455-10	Body
10.	1	N18957	Filter screen
11.	1	Q10068-24	O-ring (2 7/8" x 3 1/8" x 1/8")
12.	1	N20424	Valve cap (strainer end)
13.	8	K50773	Lockwasher 1/4"
14.	8	K43625	Hex hd. bolt (1/4"-20x3/4" lg.)

Pilot Valve N20475

Plate 5

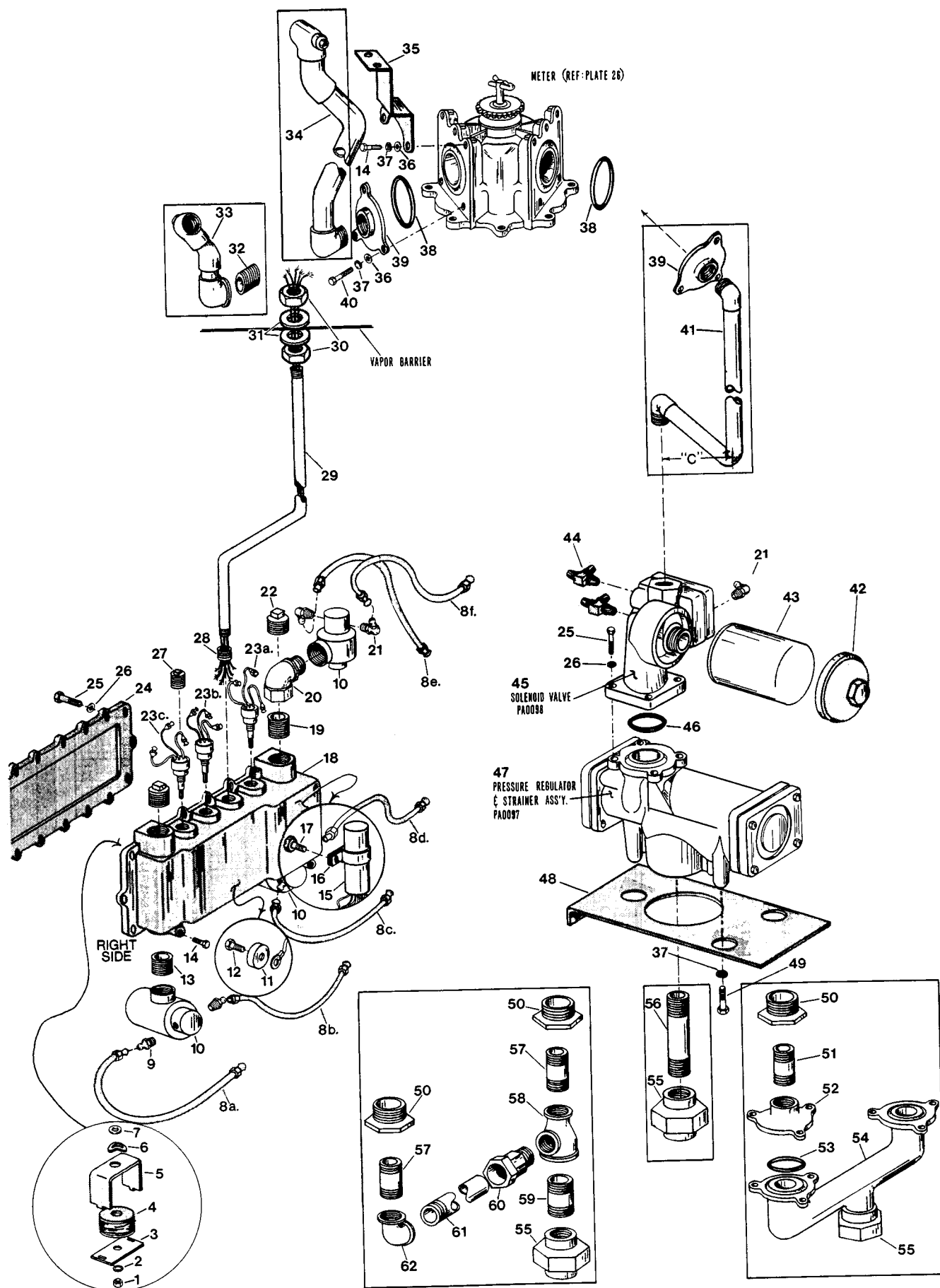


CODE NO.	NO. REQ.	SYMBOL NO.	DESCRIPTION
1.	as req.	N21256	Tube ass'y. (Ref: Plate 23 for location)
		N21271	Tube ass'y. (Ref: Plate 23 for location)
		N21270	Tube ass'y. (Ref: Plate 23 for location)
2.	1	K76238-75	Retaining ring
3.	1	Q10067-14	O-ring (1 3/16"x1 3/8"x 3/32")
4.	1	K88732	Valve seal
5.	1	K88740	Plunger
6.	1	K88760	Plunger & seal ass'y. (Includes items 4 & 5)
7.	1	K88746	Spring
8.	1	R14023-10	Valve body
9.	1	Q10067-07	O-ring (3/4"x15/16"x3/32")
10.	1	K88739	Plunger Tube ass'y.



Hydraulic Section

CODE NO.	NO. REQ.	SYMBOL NO.	DESCRIPTION
1.	1	K90006	Crossover conduit (less wires; 1/2-17 1/4"lg.)
2.	2	R15581	Strainer Support brkts
3.	as req.	PA0097	Pressure Regulator & Strainer ass'y. (Ref: Plate 3)
4.	as req.	K82584/ N21611	Filter (Ref: Plate 23)
5.	as req.	PA024TA10	Meter (Ref: Plate 26)
6.	as req.	T12672-G1	Pulser (Ref: Plate 26)
7.	as req.	T13713-G1	I.S. Barrier ass'y. (1 per pulser) (Ref: Plate 1)
8.	as req.	N20475	Pilot Valve Ass'y. (Ref: Plate 23)
9.	2	W01453-16	Junction Box
10.	2	R15580-02	Junction Box straps
11.	as req.	N20822	Solenoid Valve ass'y. (Ref: Plate 4 and 23)



Hydraulic Tree

Plate 23

Quantity is per 1 junction box with 3 pilot valves

CODE NO.	NO. REQ.	SYMBOL NO.	DESCRIPTION
1.	3	K01942	Nut (5/16"-18)
2.	3	K42030	Washer
3.	3	K88743	Plate
4.	3	N20429-	Coil
		-01	115/120V-50/60 cy.
		-02	230/240V-50/60 cy.
5.	3	K88742	Bracket
6.	3	K81856-23	Bowed washer
7.	3	K83513	Washer
8.a.	1	N21259	Inlet tube ass'y. (right outside shut-off valve to Bottom Tee of PA0098 Solenoid valve)
8.b.	1	N21260	Outlet tube ass'y. (Right inside shut-off valve to Top Tee of PA0098 Solenoid Valve)
8.c.	1	N21257	Inlet tube ass'y. (Left inside shut-off valve to Bottom Tee of PA0098 Solenoid Valve)
8.d.	1	N21258	Outlet tube ass'y. (Left outside shut-off valve to Top Tee of PA0098 Solenoid Valve)
8.e.	1	K90007	Inlet tube ass'y. (Top front shut-off valve to Bottom Tee of PA0098 Solenoid Valve)
8.f.	1	K90008	Outlet tube ass'y. (Top rear shut-off valve to Top Tee of PA0098 Solenoid Valve)
9.	4	Q10008-02	Straight Fitting (M-3/16")
10.	3	N20822	* Solenoid Valve ass'y. (Ref: Plate 4b & 4c)
11.	1	Q11097-01	Cupped washer
12.	1	K85736-05	Green screw (10-32x1/2"lg.)
13.	2	K18775	Nipple (1/2"x1 1/8"lg.)
14.	32	K05291	Bolt (5/16-18x3/4"lg.)
15.	1	R15654-G1	Varistor ass'y.
16.	1	K87708	Bracket
17.	1	K85736-03	Set screw (10-32x3/8"lg.)
18.	1	W01453-16	Junction box
19.	1	K43031	Nipple (1/2" x 1 3/8"lg.)
20.	1	K42448	M.&F. conduit elbow
21.	5	Q10001-02	Elbow fitting (flared)
22.	as req.	K02281	Pipe plug (1/2")
23.		N20475-	Pilot Valve ass'y. (Ref: Plate 5)
a.	1	-14	includes tube ass'y. N21256
b.	1	-13	includes tube ass'y. N21271
c.	1	-12	includes tube ass'y. N21270
24.	1	W01452-10	Junction Box cover
25.	16	K43625	Bolt (1/4-20x3/4"lg.)
26.	16	K50773	Lockwasher
27.	as req.	K88854	Plug (3/4-16x21/32"lg.)
28.	1	K49827	Faced Reducing bushing (3/4"x1/2")
29.	1	T13056	Conduit & wire ass'y. (potted)
		-02	"B" side junction box-14 wires (used on 6 & 4 hose units)
		-03	"A" side junction box-14 wires (used on 6 hose units)
		-04	"A" side junction box-12 wires (used on 3 hose units)
		-05	"B" side junction box-10 wires (used on 3 hose units)
		-06	"A" side junction box-10 wires (used on 3 hose units)
		-07	"B" side junction box-12 wires (used on 3 hose units)
		-08	"A" side junction box-8 wires (used on 4 hose units)

CODE NO.	NO. REQ.	SYMBOL NO.	DESCRIPTION
30.	4	K89681	1/2" Hex locknut
31.	4	N16599-65	Washer
32.	1	K21025	Nipple (3/4" x 1 3/8"lg.)
33.	1	N21280-	Discharge line ass'y. (for B1 & A3 (4 3/16"lg.)
		-01	less nipple (item 32) and less flange (item 39)
		-02	With nipple (item 32) and with flange (item 39)
34.	1	R15590-	Discharge line ass'y. (for B2 & A2) (15 7/8"lg.)
		-02	less flange (item 39)
		-03	with flange (item 39)
		R15591-	Discharge line ass'y. (for B3 & A1) (12"lg.)
		-02	less flange (item 39)
		-03	with flange (item 39)
35.	3	R14848	Meter support strap
36.	30	K42999	Washer
37.	30	K50774	Lockwasher (5/16")
38.	6	Q10068-14	O-ring (1 5/8"x1 7/8"x1/8")
39.	6	K51145G01	Flange (3/4" fitting)
40.	6	K07565	Bolt (5/16"-18x1"lg.)
41.	3	R15578-	Feedline ass'y.
		-06	"C" is 4" with flange
		-03	"C" is 4" less flange
		-05	"C" is 7 1/16" with flange
		-02	"C" is 7 1/16" less flange
		-04	"C" is 4 9/16" with flange
		-01	"C" is 4 9/16" less flange
42.	3	N17076	Filter cap (Use in place of filter)
43.	3	K82584	Filter (Std. type) (Blue with white lettering)
43.	3	N21611	Filter (water alert type) (White with blue lettering)
44.	6	Q10413-01	Tee fitting (flared)
45.	3	PA0098	Solenoid Valve (Ref: Plate 4a)
46.	3	Q10068-08	O-Ring (1 3/16"x1 7/16"x 1/8")
47.	3	PA0097	Pressure Regulator & Strainer ass'y. (Ref: Plate 3)
48.	3	R15579	Regulator, Strainer mounting plate
49.	9	K51194	Bolt (5/16-18x5/8"lg.)
50.	2	K07799	Reducing bushing (1"x 1 1/2")
51.	2	R11495-66	Nipple (1"x3 1/8"lg.)
52.	2	K51145-01	Flange (1" fitting)
53.	2	Q10068-15	O-Ring (1 3/4"x2"x1/8")
54.	1	T10959-12	Manifold (5 3/4" C to C)
55.	2	K12179	Union
56.	1	R11493-45	Nipple (1 1/2" x 6 15/16" lg.)
57.	2	R11495-41	Nipple (1"x1 7/8"lg.)
58.	1	Q10990-01	Reducer Tee (1 1/2"x 1" x 1")
59.	1	R11493-52	Nipple (1 1/2"x2 1/2"lg.)
60.	1	N16081-21	Dresser adapter
61.	1	N16059-43	Dresser nipple (1"x6 1/2" lg.)
62.	1	K02312	Elbow (1"x90°)

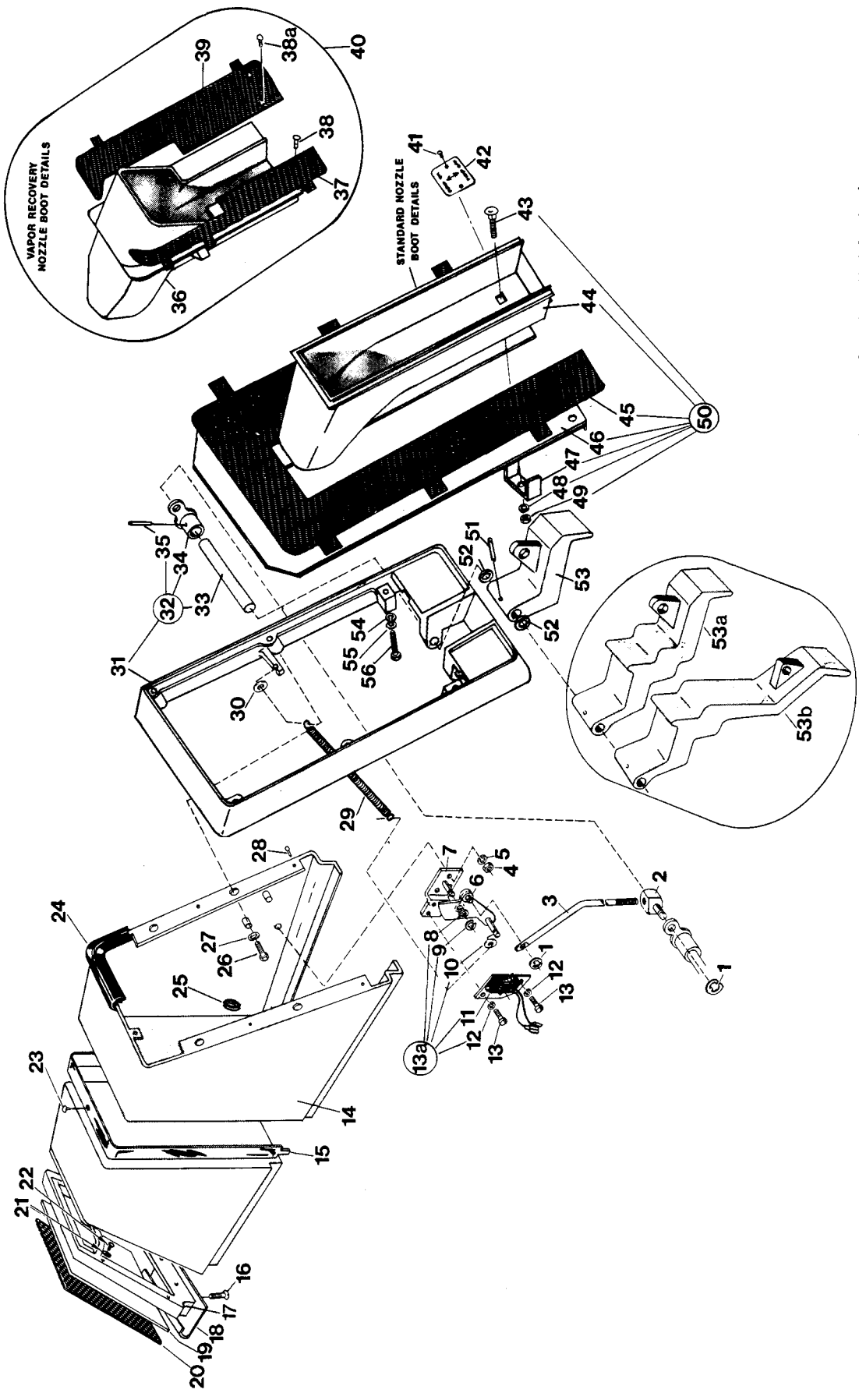
*ASCO valves and General Control valves are interchangeable but individual parts are not interchangeable.

Put-Down Assembly

CODE NO.	NO. REQ.	SYMBOL NO.	DESCRIPTION	CODE NO.	NO. REQ.	SYMBOL NO.	DESCRIPTION
1.	2	K82468-32	Retaining Ring	29.	1	K86675	Spring (Use with std. nozzle boot)
2.	1	K80589-02	Stud	29.	1	K89852	Spring (Use with V/R nozzle boot)
3.	1	N21203	Switch Rod (Use only with K89873 item #6)	30.	1	N16599-45	Washer (9/16 O.D.x21/64 I.D.x1/32" TK.)
4.	3	K22733	Nut #10-32	31.	1	M01589-10	Wrapper
5.	3	K50866	Lockwasher	32.	1	R14915-	Wrapper and nozzle hook ass'y.
6.	1	K89873-04	Switch Lever & 2 Pin Ass'y.			-01	(Includes items 30-34)
			Includes hub, switch lever and spring anchor				Has R14914-12 nozzle hook, and
7.	1	K89872-01	(Use only with N21203 Item #3)			-04	K86601-07 washer (5/8" O.D.x.376
			Pivot pin & bracket ass'y. (Has 3				I.D.x.065"TK.)
			holes for mounting on side of				Std. Nozzle hook is S.O.I., and
7.	1	N21605-01	put-down housing)			-05	K86601-07 washer (5/8" O.D.x.376
			Pivot pin & bracket ass'y.				I.D.x.065" TK.)
			(Has a 90° bend for mounting on				V/R Nozzle hook is S.O.I., and
			the underside, of the front, of				K86601 -05 washer (5/8" O.D.x.385
			the put-down housing ass'y.)				I.D.x.031 TK.)
8.	1	K86601-05	Washer-.385x5/8x1/32	33.	1	K85475-03	Shaft (drilled)
9.	1	K76238-37	Retaining Ring	34.	1	K89633	Lever and hub ass'y.
10.	1	N16599-33	Washer	35.	1	K53911	Grooved pin (1/8x5/8"lg.)
			(31/64 O.D.x7/64 I.D.x 5"/16 K.)	36.	1	M01590-10	V/R Nozzle boot (machined)
11.	1	K90978	Reset switch & bracket ass'y.	37.	1	T12373-02	V/R L.H. Insert panel
			(released (FK) 6/25/81: Type with	38.	4	K80217	Drive rivet (.104 dia.)
			2 lead wires)	38.a.	1	Q10084-17	Pop rivet (.104 dia.)
11.	1	K34822	Switch kit (use only when replacing	39.	1	T12373-01	V/R R.H. Insert panel (less holes
			old switch prior to "FK"; type				for "on-off" plate)
			with 2 connector tabs) includes:	40.	1	T12253-01	V/R Nozzle boot ass'y.
			1, K90978 switch & bracket assy. &				(Includes items #35-40)
			2, Q10989-01 in-line splices plus tyrap	41.	1	K73578	Rd. Hd. Screw Type Z (4x1/4" lg.)
12.	2	K46212	Lockwashers	42.	1	K89685	On-Off Plate (S.O.I.)
13.	2	Q10111-32	Screw #6-32x1/4"lg.	43.	1	K02394-36	Carriage bolt (1/4-20x5/8" lg.)
13.a.	1	N21626	Switch & lever ass'y.	44.	1	R14918	Std. Nozzle boot (machined)
			(Includes items 6, 8, 9, 11-13 and	45.	1	R14916	Std. Insert panel
			#7, K89872-01)	46.	1	R15066	Mounting plate for nozzle boot
			Switch & lever ass'y.	47.	1	K89797	Retaining brkt. for nozzle boot
			(Includes items 6, 8, 9, 11-13 and	48.	1	K50773	Lockwasher (1/4)
			#7, N21605-01)	49.	1	K01941	Nut (1/4-20)
14.		T14195-	Put-down housing ass'y.	50.	1	T12582	Std. Nozzle boot ass'y.
		-03	With 3 weld studs for use with				(Includes items #43-50)
			pivot pin & bracket ass'y. (K89872-01)	51.	1	K76071	Grooved pin (1-1/8"x3/4"lg.)
			With 2 weld bolts for use with	52.	2	K86601-07	Washer (part of 31)
			pivot pin & bracket ass'y. (N21605)	53.	1	R14914	Nozzle hook (drilled)
15.	1	R15708-02	Trim			-11	with extension
16.	2	K50599-26	* Screw (8-32x5/8"lg.)			-13	less extension
17.	1	T13058-10	* Put-Down backplate	53.a. as req.	R15090-11		Leaded Nozzle hook
18.	1	N21292	* Put-Down window clamp				(Used with V/R nozzles) (When the
19.	1	N21291	* Put-Down filler plate				6th position of the Hyd. model #
20.	1	N21293	* Insert panel				is B,D or H)(Has hole for item 51)
21.	4	Q10112-01	* Screw (10-32x1/2"lg.)	53.b. as req.	R15749-11		Unlead Nozzle hook
22.	4	K65235-22	* Washer				(Used with V/R nozzles)(When the
23.	1	K03216-20	"U" Drive screw (6x1/4"lg.)				6th position of the Hyd. model #
24.	1	N20983	Rubber strip (wrapper)				is B,D or H)(Has hole for item 51)
25.	1	K85071-03	Snap bushing (3/4"x1 1/8")	54.	2	K14056	Washer
26.	4	K14830	Bolt (1/4-20x5/8"lg.)	55.	1	K50773	Lockwasher
27.	4	K02217-20	Lockwasher	56.	2	K01914-28	Bolt (1/4-20x1 1/4"lg.)
28.	6	Q10084-04	Pop Rivet (.094 dia.)				(To secure nozzle boot)

* Used on single sided units.

Put-Down Assembly



W01638-	Put-down Module Ass'y. (Includes items #1-15 and 24-35) #15 For units with std. nozzle hook, and with item #15 #15 For units with v/r nozzle hook, and with item #15 #15 For units with std. nozzle hook, and less item #15 #15 For units with v/r nozzle hook, and less item #15
-07	
-08	
-09	
-10	
W01639-	Put-down Module Ass'y. (Includes items #1-35) #15 For units with std. nozzle hook, and with item #15 #15 For units with v/r nozzle hook, and with item #15 #15 For units with std. nozzle hook, and less item #15 #15 For units with v/r nozzle hook, and less item #15
-07	
-08	
-09	
-10	

Discharge Piping

FIGURE 27

CODE NO.	NO. REQ.	SYMBOL NO.	DESCRIPTION
1.	1	N21274	Pipe clamp brkt.
2.	4	K02205	Washer (5/16")
3.	4	K01942	Std. nut (5/16")
4.	as req.	K90016	Clamp hook
5.	as req.	K14056	Washer (1/4")
6.	as req.	K50773	Lockwasher (1/4")
7.	as req.	K01941	Nut (1/4")
8.	4	R15583-02	Pipe clamp brkt.
9.	16	K10232	Flat hd. screw (1/4-20x 1/2"lg.)
10.	as req.	K90022	Pipe clamp
11.	as req.	K02447	Rd. hd. screw (1/4-20x 2"lg.)
12.	1	N21289-01	Dresser nipple (47"lg.)
13.	1	N21289-02	Dresser nipple (51"lg.)
14.	1	N21289-03	Dresser nipple (55"lg.)
15.			<u>Upper Discharge Line assembly (For use on A1 & B3 product lines; This is a soldered ass'y. that has a union where the pipe attaches.)</u>
		R17492-	This ass'y. replaces R16111 that had a flanged coupling and dresser adapter; it also replaces R15587 that had a straight coupling and dresser adapter.
		-01	Less (N21581-02) 3/4" flanged coupling
		-02	With (N21581-02) 3/4" flanged coupling
		R17493	This ass'y. is used on co-axial hose units and it replaces R16358 that had a dresser adapter.
15.			<u>Upper Discharge Line assembly (For use on product #2 lines; This is a soldered ass'y. that has a union where the pipe attaches.)</u>
		T15697-	This ass'y. replaces T13034 that had a dresser adapter, -05 and -06 had flanged couplings and -02 and -04 had straight couplings.
		-02	With (N21581-02) 3/4" flanged coupling for "A" side.
		-03	Less (N21581-02) 3/4" flanged coupling, for "A" side.
		-04	Less (N21581-02) 3/4" flanged coupling, for "B" side.
		-05	With (N21581-02) 3/4" flanged coupling, for "B" side.
		T15706-02	This ass'y. is used on co-axial hose units ("A" side) and it replaces T14181 that had a dresser adapter.
		T15699-02	This ass'y. is used on co-axial hose units ("B" side) and it replaces T14182 that had a dresser adapter.
			<u>Upper Discharge Line assembly (For use on A3 & B1 product lines; This is a soldered ass'y. that has a union where the pipe attaches.)</u>
		T15698-	This ass'y. replaces T13037 that had a dresser adapter, -03 had a flanged coupling and -02 had a straight coupling.
		-01	Less (N21581-02) 3/4" flanged coupling.
		-02	With (N21581-02) 3/4" flanged coupling.
		T15700	This ass'y. is used on co-axial hose units and it replaces T14180 that had a dresser adapter.
16.	6	R15592-03	Cover mounting straps
17.	12	Q10098-36	Flat hd. screw (5/16-18x3/4"lg.)
18.	6	K10232	Flat hd. screw (1/4-20x1/2"lg.)
19.	1		Support housing weld ass'y. (Ref: Plate 1, item #28)

CODE NO.	NO. REQ.	SYMBOL NO.	DESCRIPTION
20.	2	N21576	Lifting brkt. (Ref: Plate 1, item #26)
21.	as req.	N18731-11 *	Std. hose (5/8"x10'6"lg.)
21.	as req.	N09106-85 *	Std. hose (3/4"x10'6"lg.)
21.	as req.	R16359-03 *	Coaxial hose (10'6"lg.)
22.	as req.	N15941-	Rubber grommet
		-23	1 5/16" I.D.x2"O.D. (Used in conjunction with original released upper discharge line.) (Ref: item 15)
		-31	1 1/2" I.D.x2 1/8" O.D. (Used in conjunction with original released V/R line.) (Ref: item 32)
23.	as req.	K90019-02	V/R connector plug (Used on original released upper discharge line) (K90018 clamp, K22733 nut #10-32, and K03516 lockwasher)
23.	as req.	N21590-02	V/R connector plug (Used on biaxial upper discharge line) (Q10972-03 Flat blk. screw 1/4-20x7/8" lg., K14056 washer, K50773 lockwasher and K01941 nut)
24.	as req.	K90004	Pipe clamp (Used on original released upper discharge line.) (Not shown)
25.	as req.	K58558	"U" bolt (Used on original released V/R line with K01941 nut and K14056 washer) (Not shown)
26.	as req.	K90023	Vapor line support brkt. (Used on original released V/R line) (Not shown)
27.	as req.	K60521-24	Screw (#14x5/8"lg.)
28.	as req.	K14056	Washer
29.	as req.	R11496-23	Nipple (3/4"x2"lg.) (Used in conjunction with coaxial V/R lines) (Ref: item 32)
30.	as req.	W10745-10	Co-axial hose outlet fitting
31.	2	N21515-	Vapor Recovery pipe (3/4") (Used on original release of V/R)
		-01	Approx. 75"lg. (Used on 94"units)
		-02	Approx. 65"lg. (Used on 84"units)
31.	2	N21515-	Vapor Recovery pipe (3/4" galv. iron pipe)
		-01	Approx. 75" lg. (Use on 94" units)
		-02	Approx. 65" lg. (Use on 84" units)
32.			<u>Vapor Recovery line (The following four ass'y. numbers are used on bi-axial, dedicated hose units. These are soldered assemblies, and may also have a R11496-21 nipple (3/4"x2 3/8" lg.) and a N21581-02 flanged coupling (3/4"). These assemblies indirectly replace T13030 and T13029 original V/R lines. The original V/R lines had the "A" (front) side product vapors all in one soldered ass'y. and the "B" (rear) side product vapors were in another soldered ass'y. respectively.)</u>
		T14113-	V/R line ass'y.
		-01	For use in "A1" or "B3" positions.
		-02	Less nipple and flanged coupling.
		T14114-	With nipple and flanged coupling.
		-01	V/R line ass'y.
		-02	For use in "A2" position.
		T14115-	Less nipple and flanged coupling
		-01	With nipple and flanged coupling
		-02	V/R line ass'y.
		T14112-	For use in "B2" position.
		-01	Less nipple and flanged coupling
		-02	With nipple and flanged coupling
		T14112-	V/R line ass'y.
		-01	For use in "A3" or "B1" positions.
		-02	Less nipple and flanged coupling
		-02	With nipple and flanged coupling

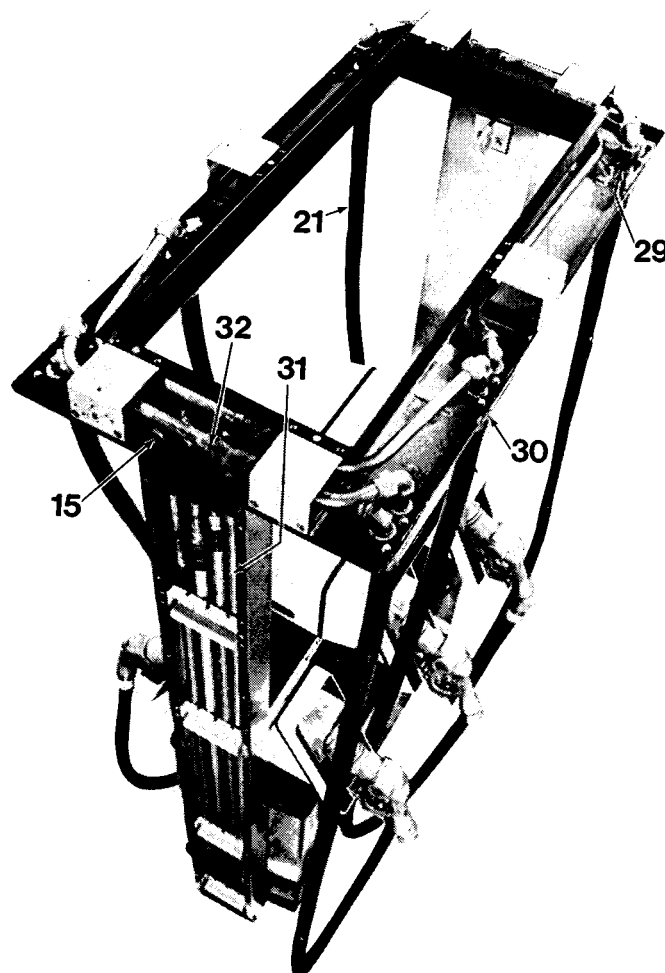
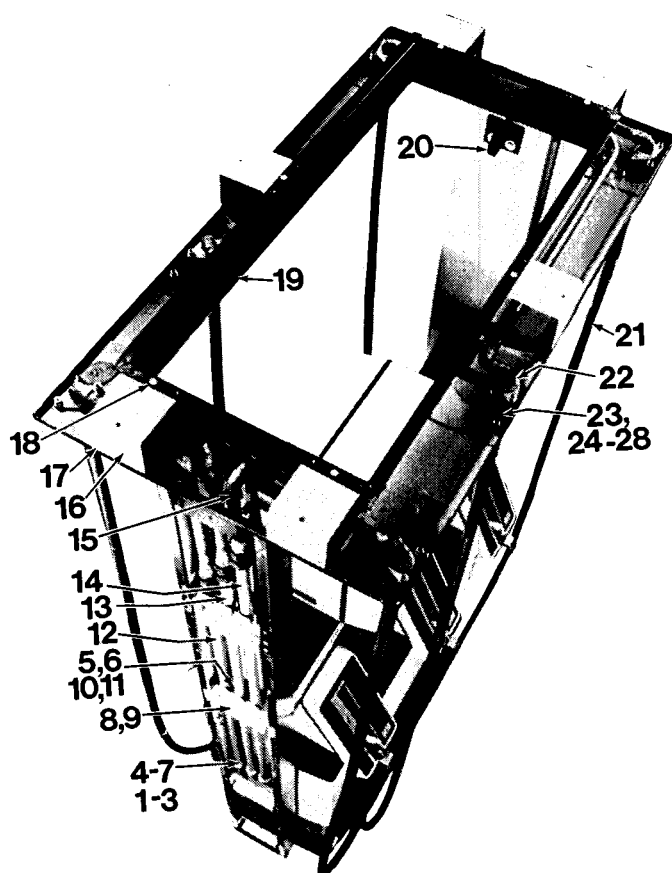
Discharge Piping

Plate 24

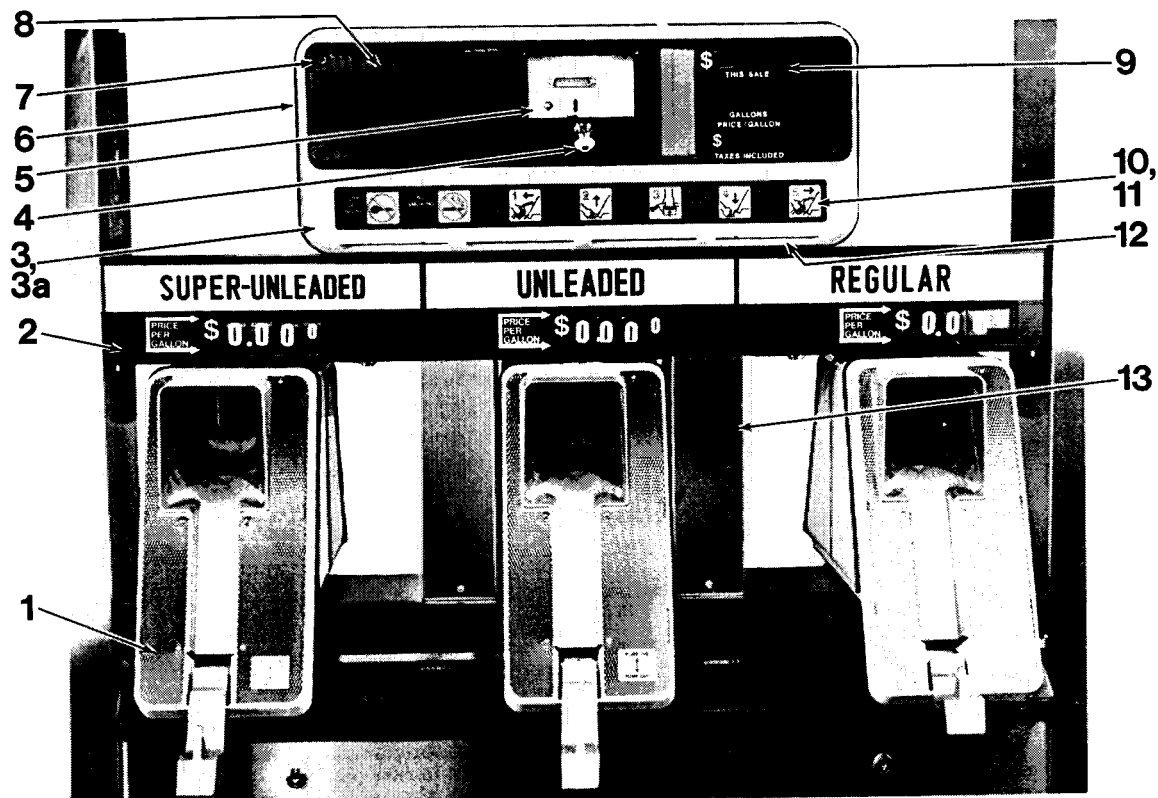
CODE NO.	NO. REQ.	SYMBOL NO.	DESCRIPTION
32.			<u>Vapor Recovery lines</u> (The following two ass'y. numbers are used on <u>bi-axial, dedicated product units</u> . These are soldered assemblies, and may also have a R11496-21 nipple (3/4"x2 3/8" lg.) and a N21581-02 flanged coupling (3/4").)
		T13785-	V/R line ass'y. For use in "A1 & B3" position and in "A3 & B1" position.
	-04		Less nipples and flanged couplings (Used on 94" units)
	-05		With nipples and flanged couplings (Used on 94" units)
	-07		Less nipples and flanged couplings (Used on 84" units)
	-08		With nipples and flanged couplings (Used on 84" units)
		T13786-	V/R line ass'y. For use in "A2 & B2" position.
	-04		Less nipples and flanged couplings
	-05		With nipples and flanged couplings

CODE NO.	NO. REQ.	SYMBOL NO.	DESCRIPTION
32.			<u>Vapor Recovery lines</u> (The following four ass'y. numbers are used on <u>co-axial, dedicated hose units</u> . These are soldered assemblies.)
		T14188	V/R line ass'y. For use in "A1" or "B3" position:
		T14189	V/R line ass'y. For use in "A2" position.
		T14190	V/R line ass'y. For use in "B2" position.
		T14191	V/R line ass'y. For use in "A3" or "B1" position:
32.			<u>Vapor Recovery Lines</u> (The following two ass'y. numbers are used on <u>co-axial dedicated product units</u> . These are soldered assemblies.)
		T14183-03	V/R line ass'y. For use in "A1 & B3" position and in "A3 & B1" position.
		T14184-03	V/R line ass'y. For use in "A2 & B2" position.

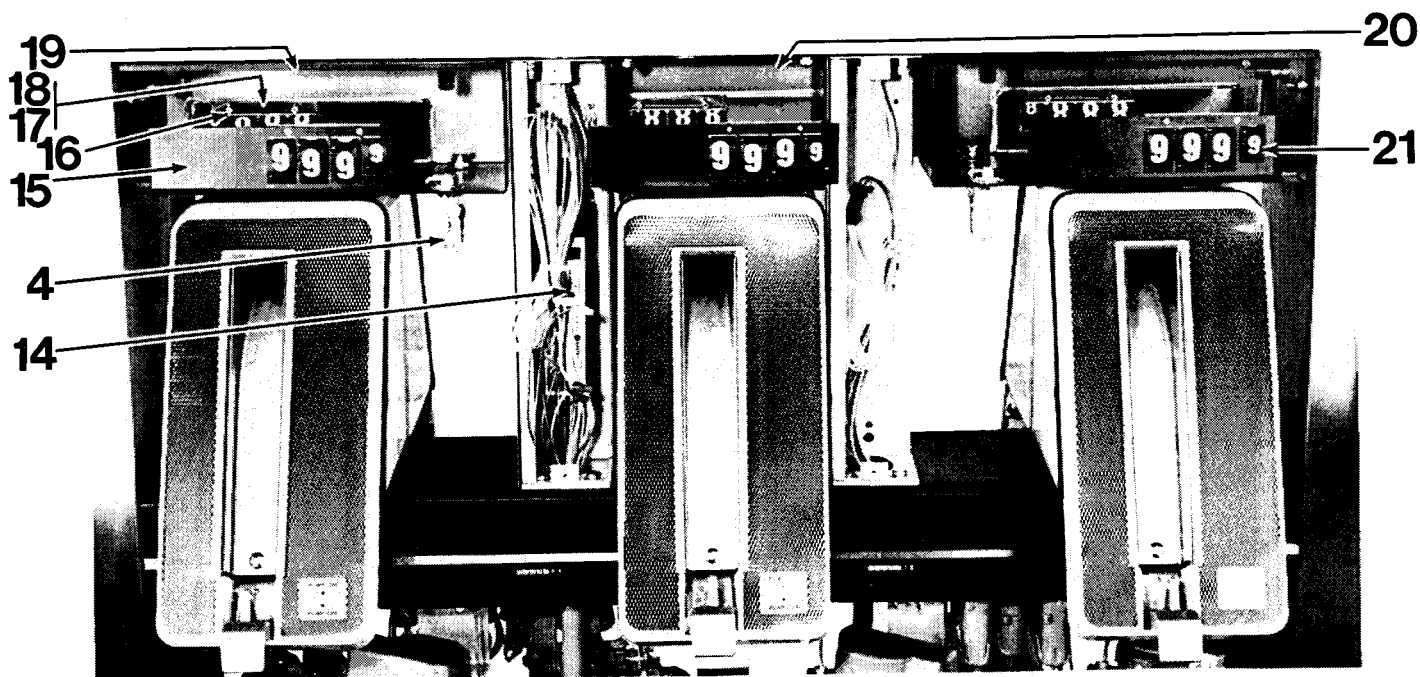
* Shipping Order Item, Customer specify length, diameter, and soft or hard wall.



Rear View of C.D.Module with Put-Downs and Price Posting Area



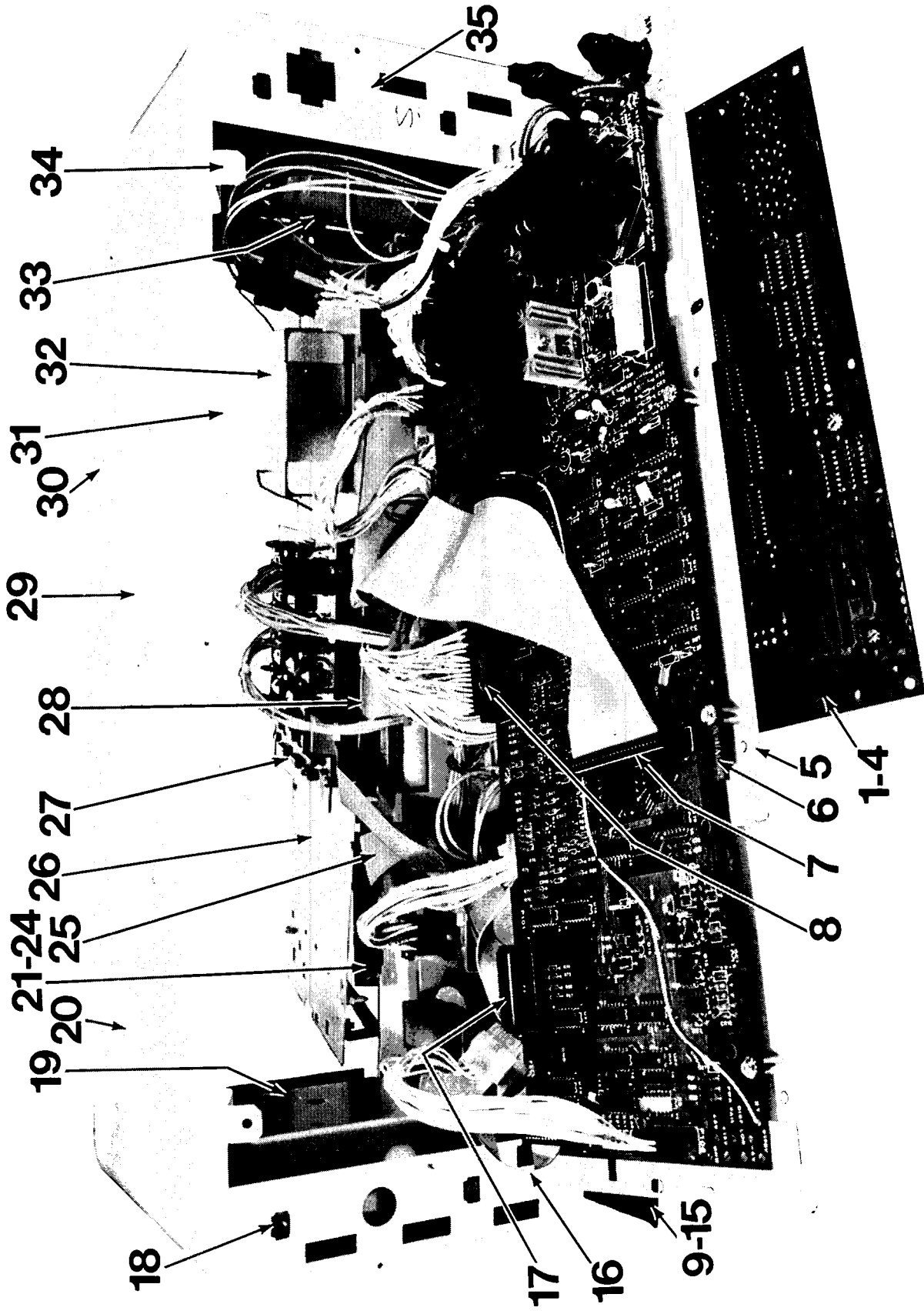
(Inside Price Posting Panel)



C.D.Module with Put-Downs and Price Posting Area

CODE NO.	NO. REQ.	SYMBOL NO.	DESCRIPTION	CODE NO.	NO. REQ.	SYMBOL NO.	DESCRIPTION
1.	3/6	R14915-	Wrapper & nozzle hook ass'y. (Ref: Plate 28)	8.	2	R15175	Blank faceplate (black)
		-01	With R14914-12 nozzle hook	9.	2	R15176-01	Faceplate (gallons)(Use on front and back displays)
		-04	With Std. nozzle hook that's a S.O.I.	9.	2	R15828-01	Faceplate (liters)(Use on front and back displays)
		-05	With V/R nozzle hook that's a S.O.I.	10.	2	N21979	Blanking decal
2.	2	T13606-	Price Posting panel ass'y. (less brand panels)	11.	2	R15450-15	Pictogram panel
		-00	Grease pencil design (gallon)	12.	2	R15188-01	Plastic extrusion
		-01	Scroll design (gallon)	13.	4	T13055	C.D. Support column sheathing (Ref: Plate 1)
		-02	Grease pencil design (liter)	14.	1	Q10746-01	Ballast
		-03	Scroll design (liter)	15.	3/4/6	R16095	Backing plate ass'y. (scroll design) (Includes items 16-18,&21)
		-04	4 hose; scroll design (gallon)	16.	2	Q10340-28	Hex standoffs
		-05	4 hose; scroll design (liter)	17.	1	K90876-01	Tape clamp
3.	2	T12641-	*Bezel ass'y. (Does not include items #1, 2, 4, 5, 13-21) (Cash/credit bezel part of K90420 cash/credit option kit.)	18.	2	K85492-45	Adhesive tapes (1/4"x1/16" x4"lg.)
		-G52	U.S. Gallons, Std. single front	19.	2	T13604-	Support structure ass'y. (Includes top plate, end box, and spring clips)
		-G53	U.S. Gallons, Std. single rear			-00	Use on 6 hose units
		-G59	U.S. Liters, Std. single front			-01	Use on 4 hose units
		-G60	U.S. Liters, Std. single rear	20.	0/1	T13602	Center box (pricing bar)
		-G66	U.S. Gallons, key control, single front	21.	as req.	T13635-	Memory tape
		-G67	U.S. Gallons, key control, single rear			-01	Large numbers
		-G68	U.S. Liters, key control, single front			-02	Small numbers
		-G69	U.S. Liters, key control, single rear				Options (not shown)
3.a.	1	T12496	Bare molded bezel (Specify color when ordering)			R16415	Key control panel
4.	as req.	K89699-07	Key			R16412	Key control ass'y. (Includes keylock and wires with P603 connector)
5.	1	R15346-G1	Rear Operator panel ass'y. (shown)			K90420	MPD-A3 Cash/Credit Option Kit
5.	1	R15345-G1	Front operator panel ass'y.			T14905-G1	Cash/Credit Interface Bd.
6.	2	Q10546-02	"U" shaped gasket			R17249-G1	Cable ass'y. (J603A, J603B, and J602 connector)
7.	10	Q10036-16	Socket hd. cap screw (1/4-20x3 1/4"lg.)			R15920-	Cable ass'y.
						R17245-G1	Cash/Credit option panel ass'y. (Includes switches and cable)
						R17246-G2	Cash/Credit panel

C.D.Module Assembly



C.D.Module Assembly

CODE NO.	NO. REQ.	SYMBOL NO.	DESCRIPTION
1.	1	T12889	Rear Display Bd. (Ref: Plate 33)
2.	1	R15346-G1	Rear Operator panel ass'y. (not part of Display Bd.)
3.	1	R15620-G1	CA#6, Cable ass'y. (P303B on Rear Operator Panel to J903B connector (not part of Operator Panel ass'y.))
4.	1	R15166-G1	P.C.B. Bracket support (not part of Display Bd.)
5.	1	T12842-G2	Regulator panel ass'y. (Ref: Plate 35) (Does not include Regulator P.C. Board)
6.	1	W01815-G1	Regulator Bd. (Ref: Plate 33)
7.	1	R15624-G1	CA#2, Cable ass'y. (J102 on Regulator Bd. to J202 on Logic Bd)
8.	1	T12942-G2 *	CA#8, Cable ass'y. (J103 on Regulator Bd. to J803 connector and P804 connector, P501 on Power Relay ass'y., J108 on Regulator Bd. to J808 connector, J111 on Relay Bd., J110 on Relay Bd., J305A on Front Display Bd., J503 on Power Supply ass'y., J502 on Regulator Panel ass'y., J104 on Regulator Bd., J105 on Regulator Bd., J305B on Rear Display Bd., P701, J702, P703, P704, P705, P706, J707, J708, P709, P710 and P711)
9.	4	K87111	Lamp holder
10.	4	N21142	* Metal leaf spring
11.	4	M16599-65 *	Flat washer
12.	4	K73278-32 *	Split lockwasher (#6)
13.	4	Q10111-38 *	Screw (#6-32x5/8"lg.)
14.	2	N21144-G1	Fluorescent lamp
15.	2	R15283	Light shield
16.	1	R15627-G1	CA #7, Cable ass'y. (J107 on Regulator Bd. to J109 on Relay Bd.)
17.	1	R15920-G1	CA#4, Cable ass'y. (J101 on Regulator Bd. to J201 on Logic Bd.)
18.	8	K75204	* Retainer nut (1/4-20)
19.	1	T12849	Power Relay ass'y. (Ref: Plate 35)
20.	1	T13347-G1 *	Chassis ass'y. (welded ass'y.)
21.	1	T12886	Front Display Bd. (Ref: Plate 33)
22.	1	R15345-G1	Front Operator panel ass'y. (not part of Display Bd.)
23.	1	R15619-G1	CA#5, Cable ass'y. (P303A on Front Operator Panel to J903A connector) (not part of Operator Panel ass'y.)
24.	1	W01515-G1	Logic Bd. (Ref: Plate 33)
25.	1	R15626-G1	CA#4, Cable ass'y. (J304A Front Display Bd. to J204 Logic Bd. to J304B Rear Display Bd.)
26.	1	T12844-G1	Logic Panel ass'y. (Ref: Plate 35)
27.	1	T14390-G1	Relay Bd. (Ref: Plate 33)
28.	1	T12939-G1	CA#3, Cable ass'y. (P903A to front connector, J203 to Logic Bd., P903B to rear connector)
29.	1	T13348-G1	Housing ass'y. (Includes items 8-13, 18, 20, 30 and 34-35)
30.	4	Q10530-03 *	Rivnut
31.	12	Q10660-04	Single Th'd. nut (#10-32)
32.	1	Q10670-01	Battery (Ref: Plate 350)
33.	1	T12846-G1	Power Supply ass'y. (Ref: Plate 35)
34.	6	Q10651-02 *	P.C.B. support (1/4")
35.	2	Q10788-01 *	Pushbutton switch

* Part of T13348-G1 Housing ass'y.

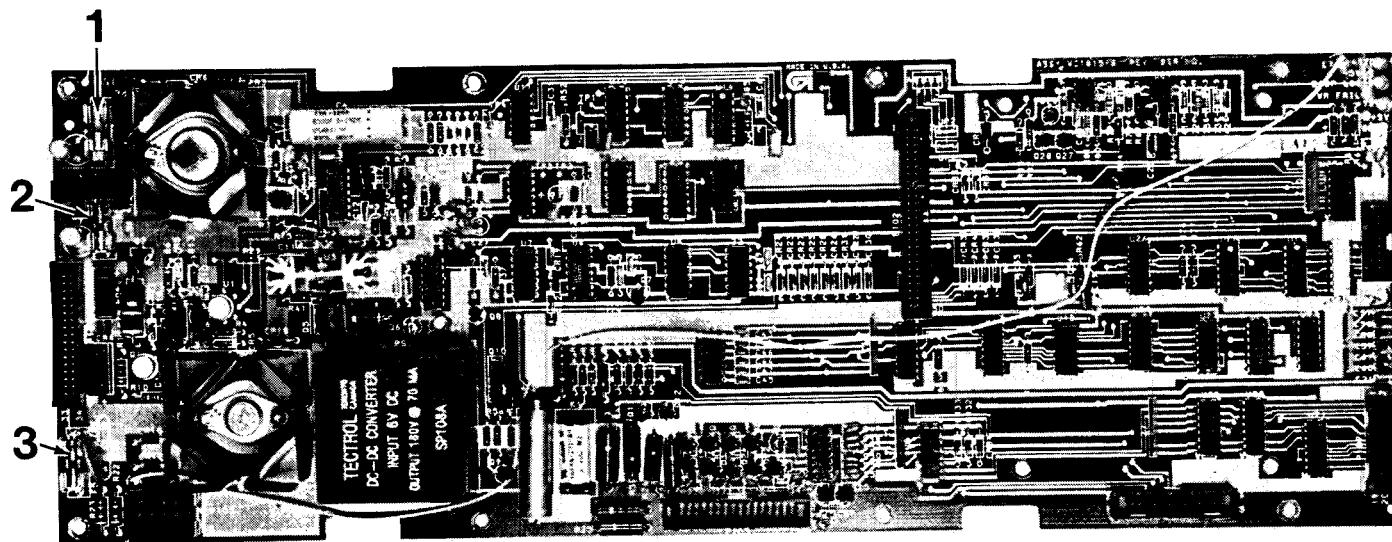
Printed Circuit Boards

Regulator Bd.

Plate 33a.

W01815-G1 Use on a 3 or 6 hose unit
 -G2 Use on a 4 hose unit

W01815-G1 Regulator Bd. supersedes W01517-G1 Regulator Bd.
 Both Regulator Bds. are interchangeable but...
 (reference Early STP Start Chart).



CODE NO.	NO. REQ.	SYMBOL NO.	DESCRIPTION
1.	1	Q10444-04	Fuse (1 1/2A, 32V)(F4)
2.	1	Q10444-01	Fuse (1/2A, 125V)(F3)
3.	1	Q10444-05	Fuse (1/4A, 125V)(F5)

Early STP Start

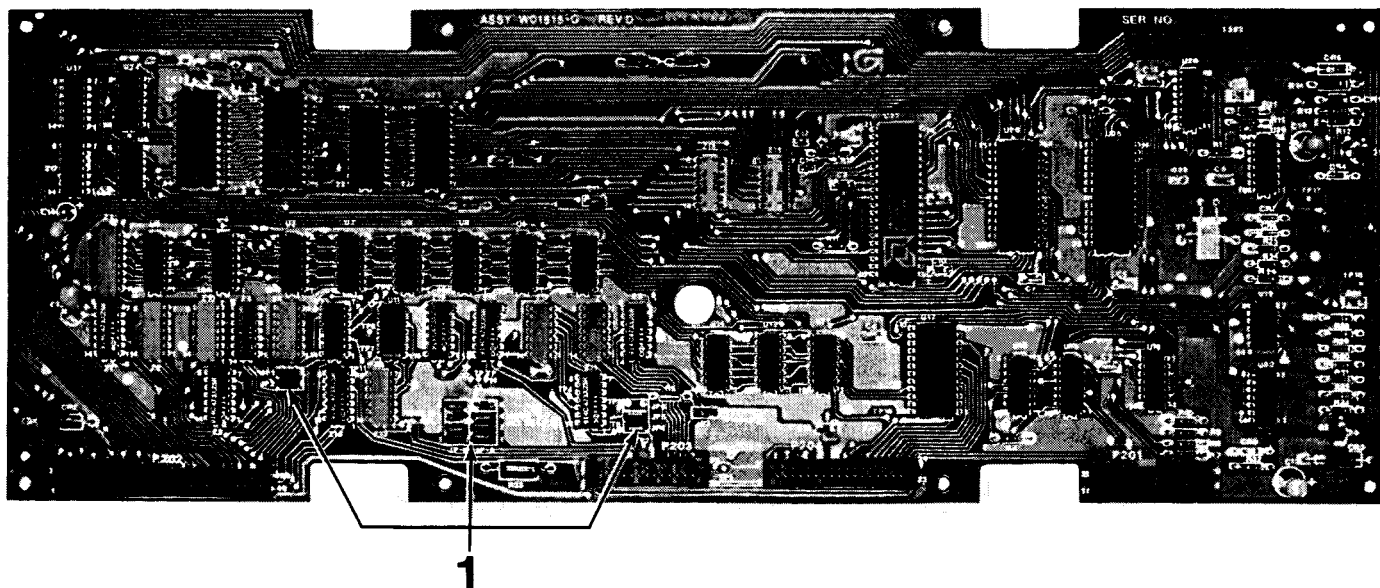
	T14390-G1 Relay Bd.	T13390-G1 Relay Bd.	T12897-G1 Relay Bd.
W01815-G1 Regulator Bd.	*	o	o
W01517-G1 Regulator Bd. with R16925-G1 STP Interface Bd.	*	o	o
W01517-G1 Regulator Bd.	o	o	o

* With Early STP Start
 o Less Early STP Start

Logic Bd.

Plate 33d.

W01515-G1

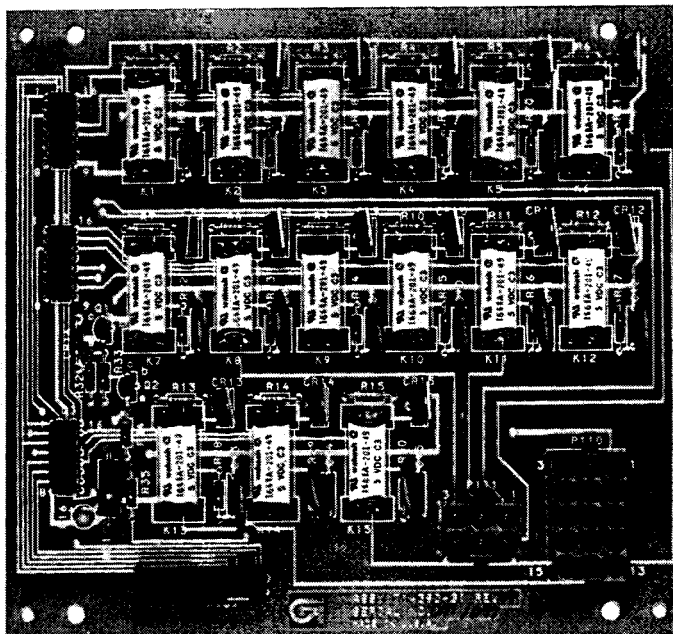


CODE NO.	NO. REQ.	SYMBOL NO.	DESCRIPTION
1	11	Q10890-01	Jumper Plug

Relay Bd.

Plate 33e.

T14390-G1



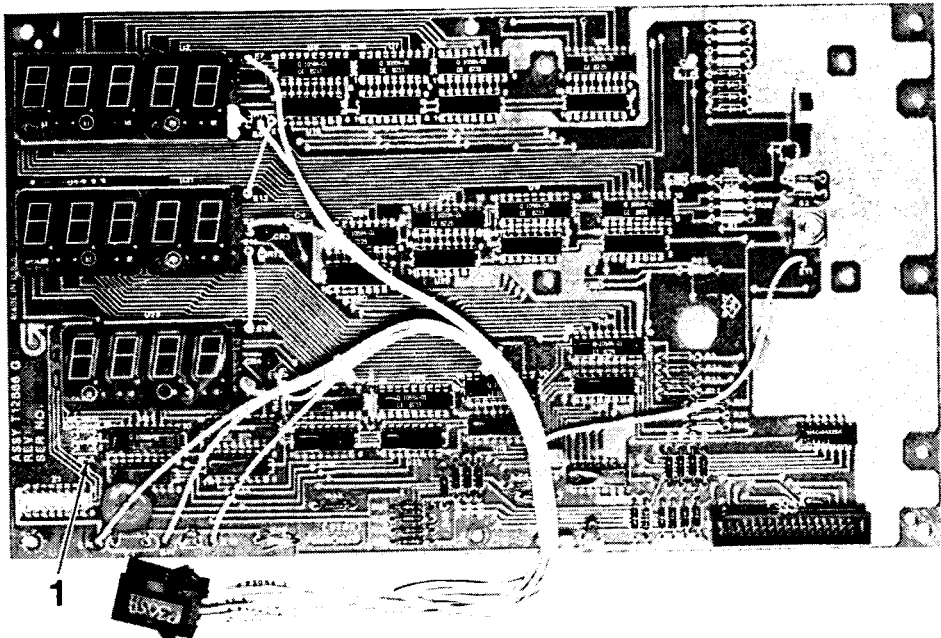
T14390-G1 Relay Bd. supersedes T13390-G1 and T12897-G1 Relay Bds.

All Relay Bds. are interchangeable but...(reference Early STP Start Chart).

Front Display Bd.

Plate 33c.

- T12886-G1 use on a Standard Unit
- G2 Use on a Single Sided Unit

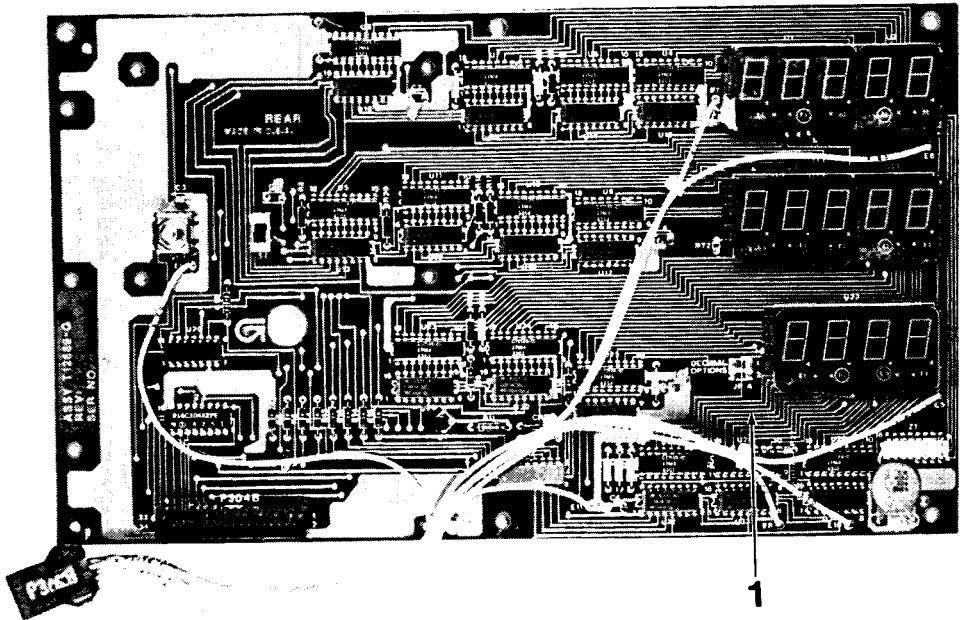


CODE NO.	NO. REQ.	SYMBOL NO.	DESCRIPTION
1.	1	Q10890-02	Jumper Jack

Rear Display Bd.

Plate 33d.

- T12889-G1 use on a Standard Unit
- G2 Use on a Single Sided Unit

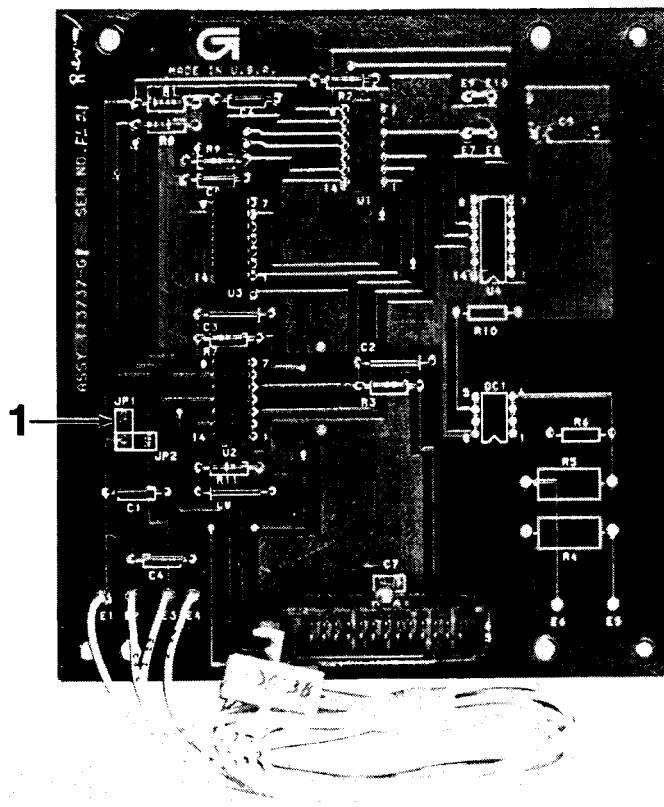


CODE NO.	NO. REQ.	SYMBOL NO.	DESCRIPTION
1.	1	Q10890-02	Jumper Jack

Keylock Interface Bd.

Plate 33f.

T13737-G1



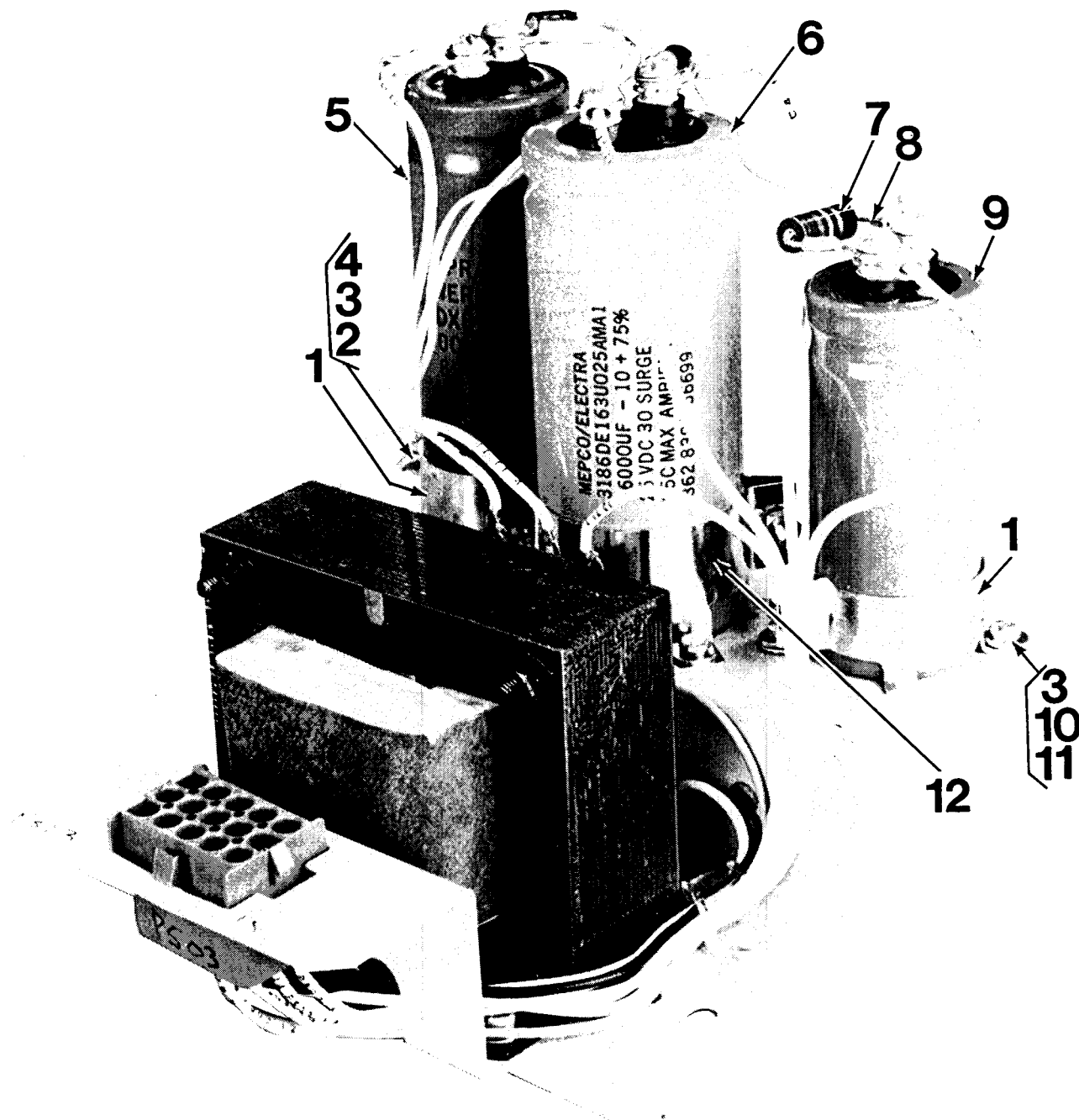
CODE NO.	NO. REQ.	SYMBOL NO.	DESCRIPTION
1.	1	Q10890-01	Jumper Jack

Electronic Sub-assemblies

Power Supply Assembly

T12846-G1

Plate 35a.

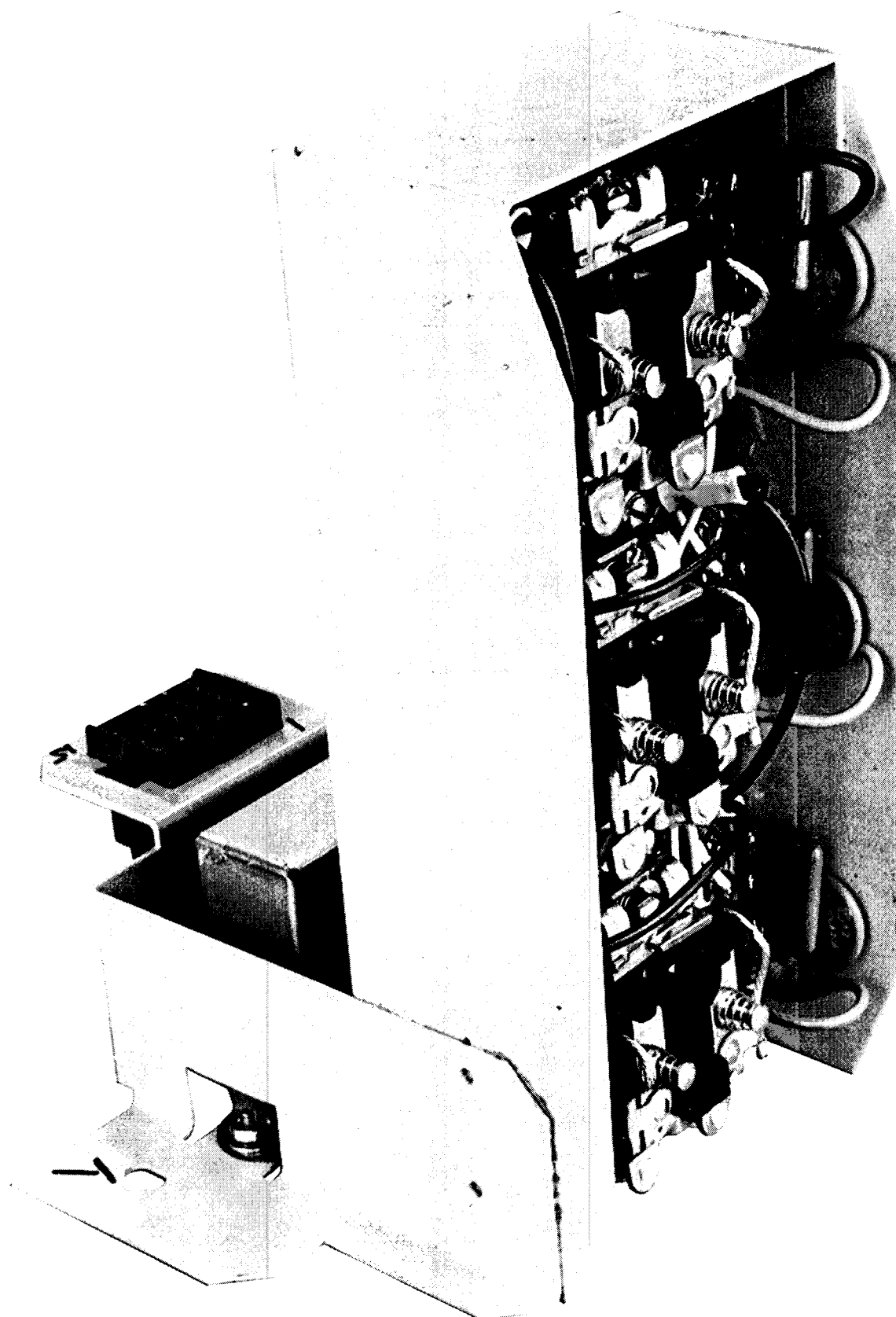


CODE NO.	NO. REQ.	SYMBOL NO.	DESCRIPTION
1.	2	Q10245-01	Capacitor clamp
2.	3	K73278-32	Lockwasher (#6)
3.	10	K66857	Hex nut (#6-32)
4.	3	Q10111-38	Screw (#6-32x5/8"lg.)
5.	1	Q10271-21	Capacitor (C5)(8700uf, 40v)
6.	1	Q10271-06	Capacitor (C4)(16000 uf, 25V)
7.	1	R10501-366	Resistor (51K, 2W, +5%)
8.	2	Q10121-09	Ring terminal (#10-14 AWG)
9.	1	Q10271-22	Capacitor (C3)(260uf, 350V)
10.	7	K65235-23	Flat washer (#6)
11.	7	Q10111-33	Screw (#6-32x5/16"lg.)
12.	1	Q10245-03	Capacitor clamp

Power Relay Assembly

Plate 35b.

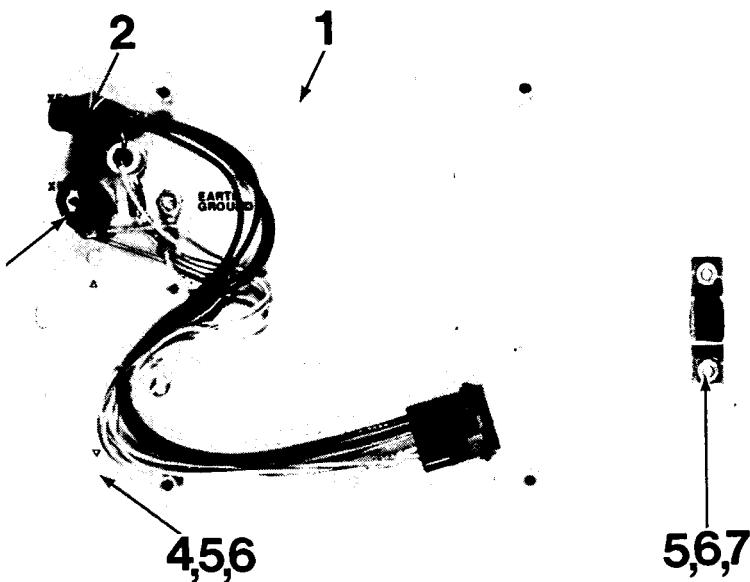
T12849-G2 Used on 3 or 6 hose units
-G3 Used on 4 hose units



Regulator Panel Assembly

T12842-G2

Plate 35c.



CODE NO.	NO. REQ.	SYMBOL NO.	DESCRIPTION
1.	1	T12842-G1	Regulator Panel subassembly (does not include items 2-7)
2.	1	Q10131-21	Fuse (F1)(2.5A, 250V SLO-BLO)
3.	1	Q10592-02	Fuse (F2)(8A, 32V FAST BLO)

CODE NO.	NO. REQ.	SYMBOL NO.	DESCRIPTION
4.	2	N21119	Handle (other side)
5.	6	K73278-33	Lockwasher (#8)
6.	6	K67365	Hex nut ((#8-32)
7.	1	N20960	Bracket

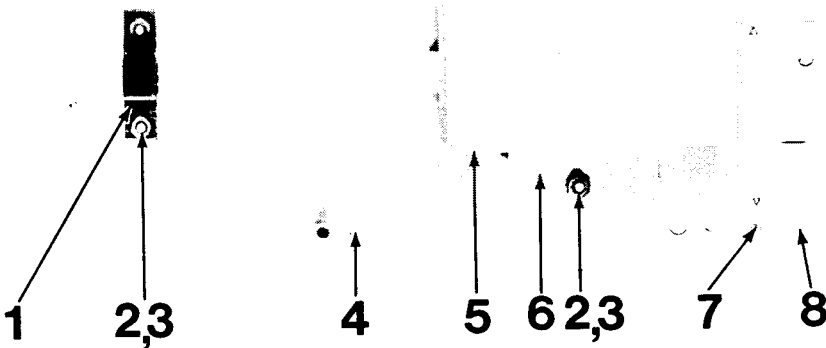
Logic Panel Assembly

T12844-G1

Plate 35d.

RELAY INTERFACE PWB ASSY T12807

BATTERY (B1) 6V 2.5AH



CODE NO.	NO. REQ.	SYMBOL NO.	DESCRIPTION
1.	1	N20960	Bracket
2.	8	K73278-33	Lockwasher (#8)
3.	8	K67365	Hex nut (#8-32)
4.	8	Q10651-02	P.C.B. support (1/4")(other side)
5.	1	Q10670-01	* Battery (6V, 2.5 AMP-HR)
6.	1	R15337	* Battery bracket

CODE NO.	NO. REQ.	SYMBOL NO.	DESCRIPTION
7.	2	N21119	Handle (other side)
8.	1	T12844-G2	Logic Panel subassembly (Does not include items 1-7)

* Not part of T12844, Logic Panel Ass'y.



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