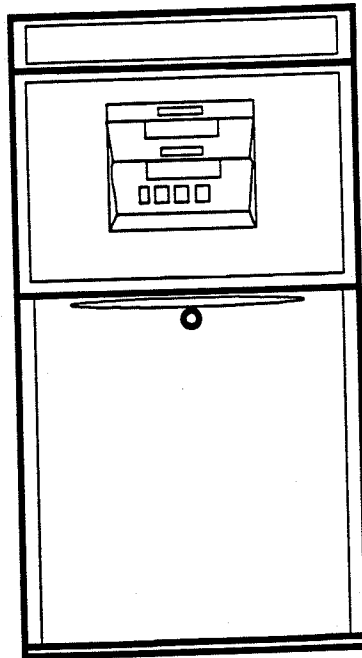


Service Parts Manual for



1200 Series Dispensers

(1)

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Section One

Introduction And Ordering Information

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<i>Drawing Number and Reference Chart</i>	<i>1-3</i>

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INTRODUCTION

This document contains information proprietary to Tokheim Corporation. The data contained herein, in whole or in part may not be used or disclosed outside the recipient or purchaser for any purpose other than to assist in the ordering of the equipment described within the document.

This manual provides a parts breakdown of each model or unit, or sub-assembly of the Tokheim Model 1200 series dispensers. A breakdown of individual parts is necessary to ensure that the correct part is obtained when ordering replacements or spares. This manual has been prepared to assist in the prevention of error through ordering.

TOKHEIM CORPORATION
Service Parts Division
P.O. Box 663
Fremont, IN 46737

(219) 495-9826
FAX: (219) 495-3100

When ordering, **ALWAYS** give the serial and model number of your model or unit. *Be prepared to give the following information to ensure you receive the correct supplies:*

INFORMATION ON YOUR UNIT(S)

ITEM NAME: _____
SERIAL NUMBER: _____
MODEL NUMBER: _____

ITEM NAME: _____
SERIAL NUMBER: _____
MODEL NUMBER: _____

ITEM NAME: _____
SERIAL NUMBER: _____
MODEL NUMBER: _____

ITEM NAME: _____
SERIAL NUMBER: _____
MODEL NUMBER: _____

Use the part number and description to order your new part(s). **Do not** order parts by item number. Item numbers are used on the illustrations for location purposes only.

Any of the following may void the Tokheim Warranty:

- failure to install any model, unit, or part of the 1200 series dispenser per Tokheim specifications
- maintenance performed by untrained personnel

Drawing Number - Quick Reference Chart

The drawings used in this manual are identified by a drawing number. This number is found in the bottom right corner of each drawing page. If there is a text page, the drawing number is found at the top right corner and end of the corresponding text page.

Some sub-assemblies also reference a drawing number. Use this chart to locate the proper page.

The digit(s) before the dash is the drawing revision number. **Example: 10-74372.** This example shows this is the 10th revision of drawing 74372.

This reference chart lists the base drawing number and not the revision number. When location drawings and/or sub-assemblies used in this manual, be sure to ignore the drawing revision number.

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73217	4-10, 4-11	741509	6-20, 6-21
73808	4-2	741510	6-18, 6-19
73809	4-3	741511	6-22, 6-23
73810	3-2, 3-3	741512	6-12, 6-13
73816	3-6, 3-7	741513	6-16, 6-17
73817	3-8, 3-9	741514	6-14, 6-15
73818	5-18, 5-19	741519	4-4, 4-5
74372	3-4, 3-5	741520	4-6, 4-7
74545	2-8	741521	5-2, 5-3
74689	5-16, 5-17	741522	5-4, 5-5
75063	6-24, 6-25	741523	5-6, 5-7
741039	2-10, 2-11	741524	5-8, 5-9
741041	2-9	741525	5-20, 5-21
741361	2-6	741526	5-22, 5-23
741362	6-4, 6-5	741528	5-10, 5-11
741363	6-10, 6-11	741529	5-12, 5-13
741365	6-8, 6-9	741530	5-26, 5-27
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Section Two

TRIM CHASSIS

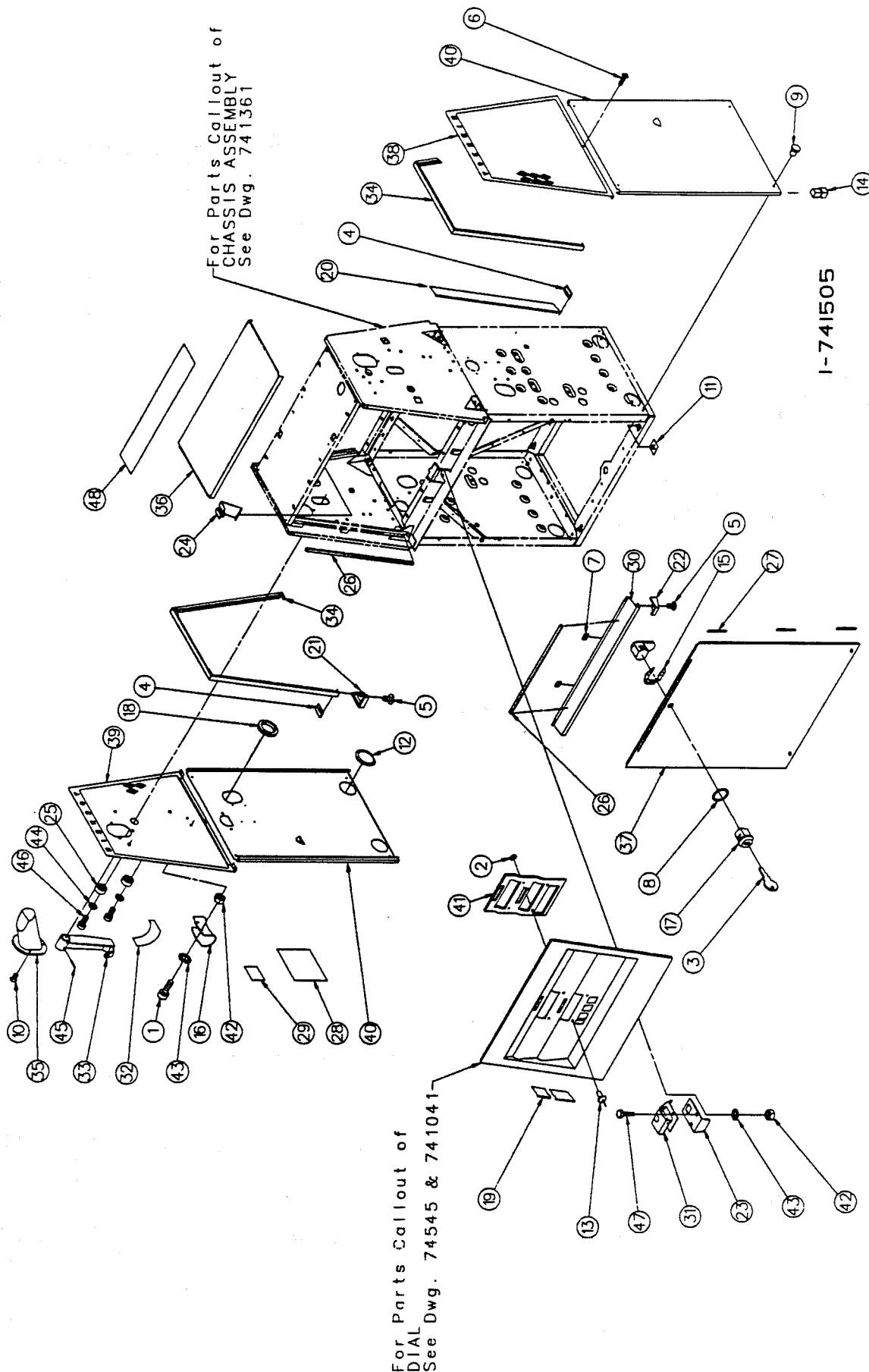
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I248A & I250A TRIM ASSEMBLY

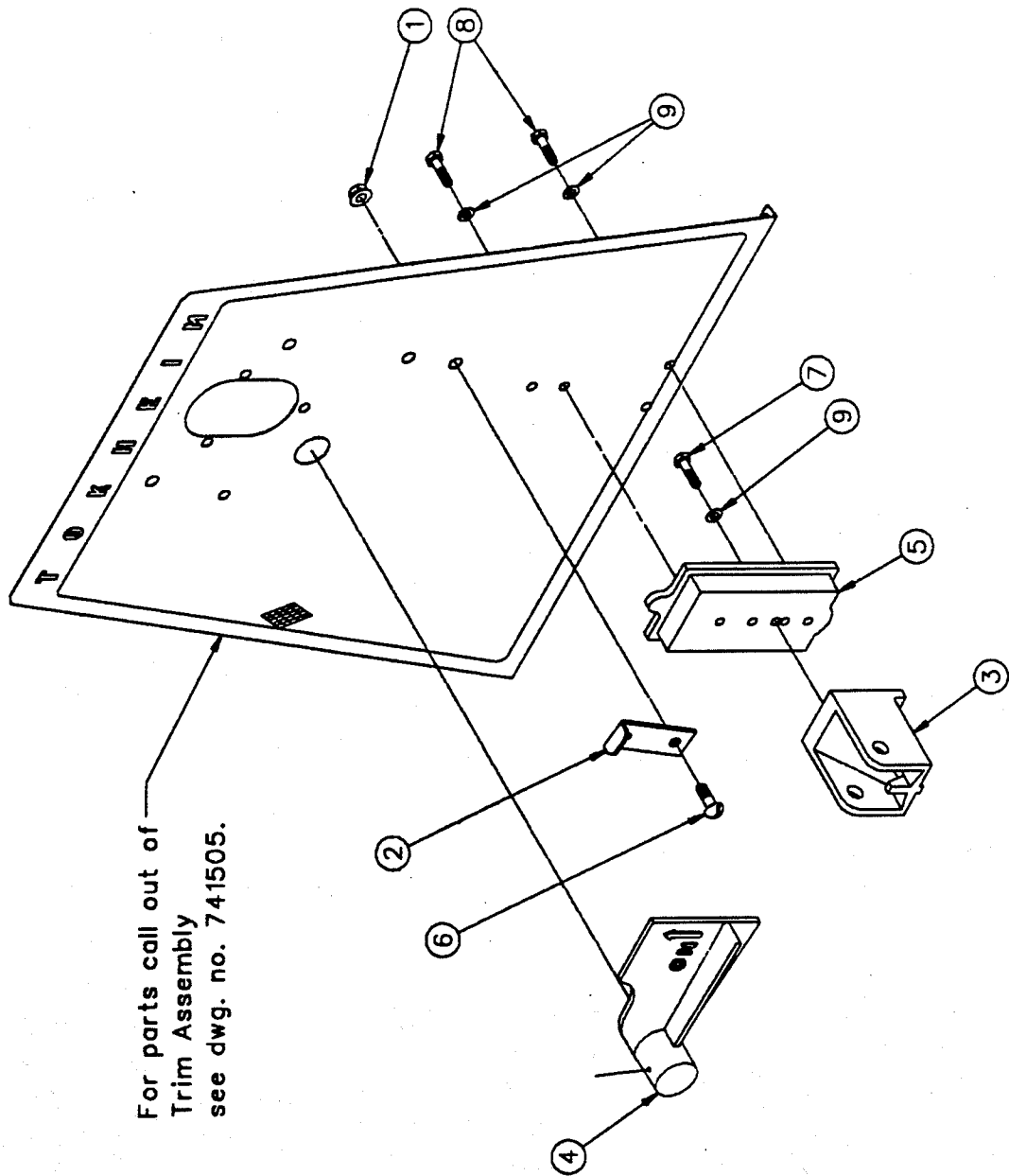


1-741505
1 of 1

1248A & 1250 Trim Assembly

ITEM NO.	PART NO.	DESCRIPTION	ITEM NO.	PART NO.	DESCRIPTION	ITEM NO.	PART NO.	DESCRIPTION
1	2-114401	#12-24 X 1/2" Long Special Screw	25	1-224134	Positive Stop	39	5-412651	End Panel (Left Side - Hose Side)
2	1-120965	Washer	26	2-224712	Cushion (17" Long)		19-412651	End Panel (Vapor Recovery)
3	1-122240	TPX Key	27	1-224714	Cushion (3" Long)			
4	1-126769	Scuff Pad	28	1-225094	Decal (Unleaded Gasoline)	40	Side Housing	
5	1-126964	#8-32 X 3/8" Long Truss Head Thread Cutting Screw	29	1-226268	Decal (Hose Warning)	1-413705		(Side Opposite Serial Plate) (All Models Except 1248A & 1250A-1-TWIN)
6	3-126964	#8-32 X 3/8" Long Truss Head Thread Cutting Screw	30	1-312000	Front Trim			
7	1-127158	"U" Clip	31	1-312280	Dial Latch	2-413705		(Side Opposite Serial Plate) (Models 1248A & 1250A-1-TWIN)
8	1-127656	Lock Gasket	32	1-313813	Decal (On Off)			
9	1-127806	Rivet	33	1-316301	Control Lever	4-413705		(Serial Plate Side)
10	1-127967	#12-24 X 1/2" Long Oval Head Thread Cutting Screw	34	Compartment Trim				
			1-409431	1248A				
			1-411203	Right 1250A				
			2-411203	Left 1250A				
11	1-130796	Gasket	35	2-411175	Nozzle Guide			
12	1-130964	Hole Cover	36	Dome		41	1-415712	Dial Glass
13	1-131006	Pop Rivet		1-411186	Lighted	42	06-50211	#12-24 Hex Machine Nut
14	1-131481	Insert		8-411186	Single Speaker	43	06-50761	#1112 Shake-proof Lockwasher
15	3-217160	Spring Clip		9-411186	Dual Speaker	44	08-50761	#1118 Shake-Proof Lockwasher
16	1-217835	Hose Support Hook (A-OIL & AS-OIL)		1-411212	Unlighted	45	45-51221	1/8 X 1-1/4" Long Groov-Pin
17	1-219147	Door Lock (Includes Item #3 & 5)	37	Front & Rear Door Complete (Includes Item #3, 8, 15 & 17)		46	49-52751	5/16-18 X 3/4" Long Socket Head
18	1-219341	Hose Grommet		411267-1	Painted	47	330-52851	#12-24 X 3/4" Long Hex Head Machine Screw
19	1-220822	Left Filler Strip		411267-2	Stainless			
20	1-220823	Right Filler Strip				48	1-312812	Decal
21	1-221900	Left Cable Guard		Front or Rear Door				
22	1-221901	Right Cable Guard		2-411192	Painted			
23	1-222185	Dial Latch Stop		3-411192	Stainless			
24	1-223269	Dial Hook	38	4-412651	End Panel (Right Side)			

1248A & 1250A VAPOR RECOVERY ASSEMBLY



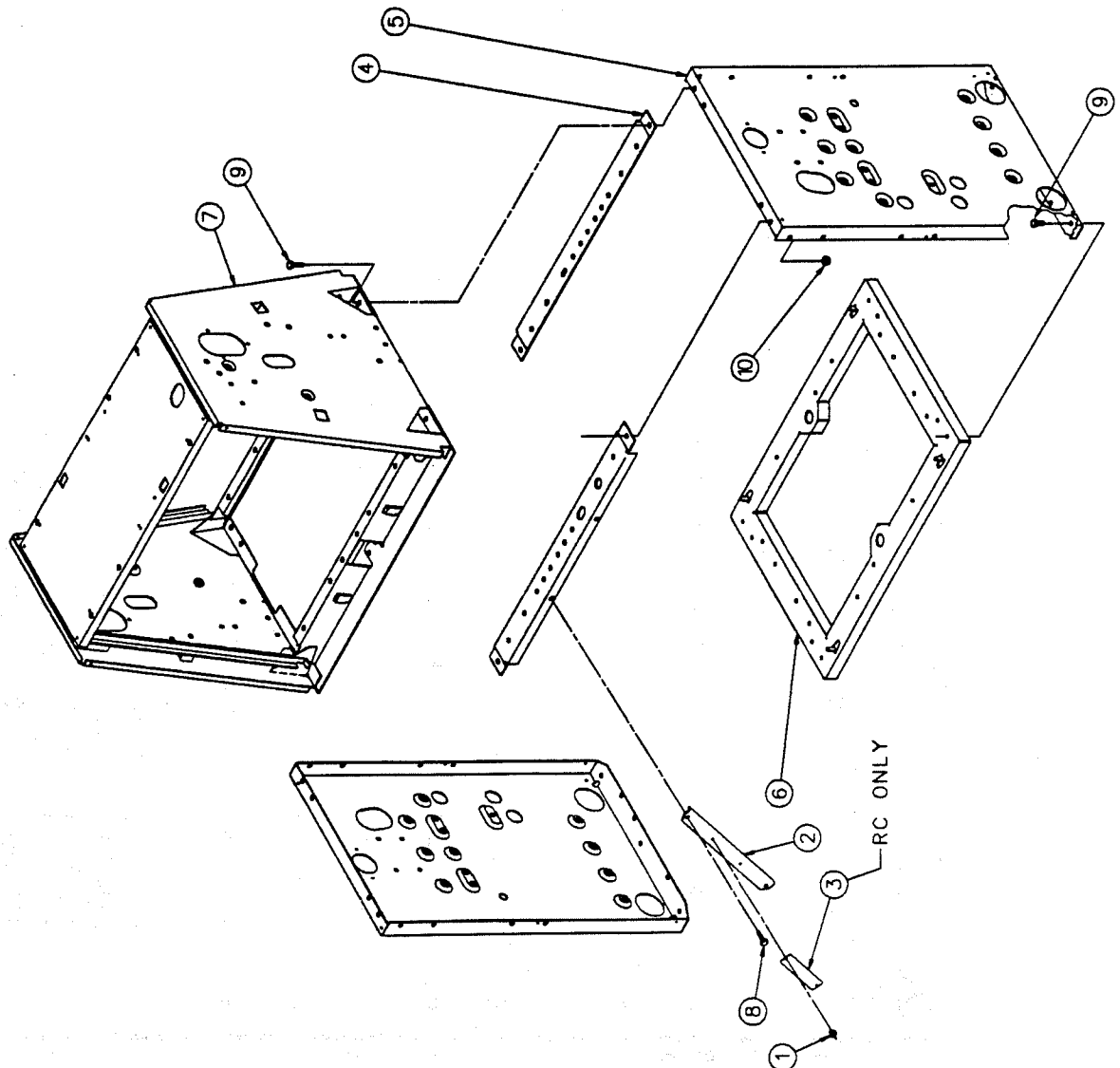
1-741533

1248A & 1250A Vapor Recovery Assembly

ITEM NO.	PART NO.	DESCRIPTION
1	1-131108	5/16-18 Speed Nut (APC Only)
	02-54752	5/18-18 M-F Flange Whiz Lock Nut (All Except APC)
2	226617-1	Stop Weld Assembly (APC Only)
3	1-315801	Nozzle Hook
4	1-315802	Operating Lever
5	1-315803	Hook Adapter
6	464-50001	5/16-18 X 5/8" Long Round Head Machine Screw
7	02-50361	1/4-20 X 5/8" Long Hex Head Cap Screw
8	03-50361	1/4-20 X 3/4" Long Hex Head Cap Screw
9	13-50641	1/4" Lockwasher
For complete Vapor Recovery order:		
	416008-1	1248A & 1250A
	416008-2	1248A-TW & 1250A-TW
	416008-3	1248A-APC & 1250A-APC
	416008-4	1248A-TW-APC & 1250A-TW-APC

1-741533

I248A & I250A CHASSIS ASSEMBLY

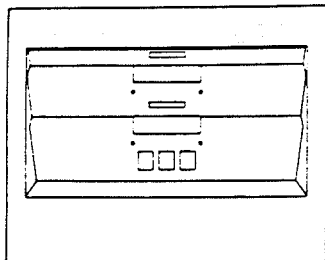


Item No.	Part No.	Name Of Part
1	1-129159	Pop Rivet
2	1-221906	Column Brace
3	1-229482	Warning Plate
4	2-311998	Column Top Support (All Except 2-TW)
	411254-2	Column Top Plate Weld Assembly; 12-TW Only)
5	2-411238	Side Frame
6	4-411263	Base
7	Compartment Welding Assembly	
	412656-10	Standard & CANADA
	413958-4	APC-M-G & AFC-M-G Series
8	11-51491	5/16 X 1/2 Long
9	35-54742	Hex Head Self Tapping Screw
		5/16-18 X 5/8 Long M-F Hex
10	02-54752	Head Whiz-Lock Screw
		5/16-18 M-F Flange whiz-Lock Nut

I-741361

A page for your Notes:

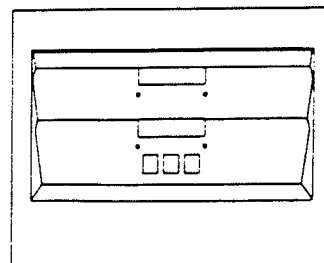
Note: Wide Waterfall White Dials Will Be Supplied Unless Otherwise Specified on Order.
 Note: When Ordering Special Colored Dials, Always Give Company Specifications.



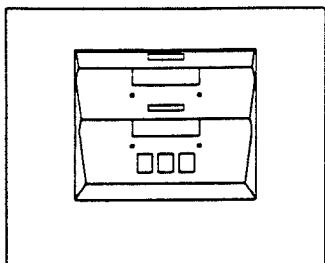
413652-3 FRONT DIAL ASSEMBLY
 (Standard White)

Model
 1148AT
 1150AT
 1248A
 1250A

Standard Dial
 Center Mount Wide Waterfall



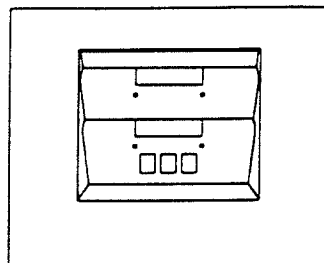
413652-4 REAR DIAL ASSEMBLY
 (Standard White)



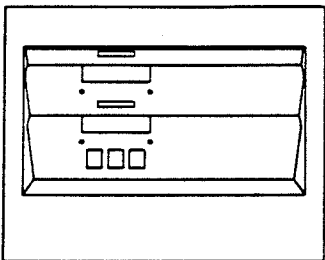
413652-1 FRONT DIAL ASSEMBLY
 (Standard White)

Model
 1148AT
 1150AT
 1248A
 1250A

Alternate Dial
 Center Mount Narrow Waterfall



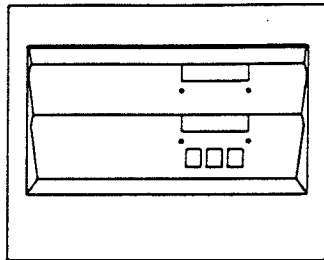
413652-2 REAR DIAL ASSEMBLY
 (Standard White)



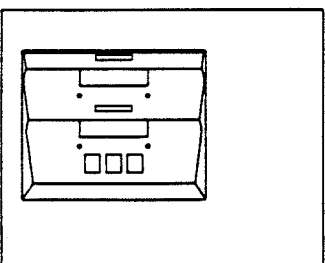
413652-7 FRONT DIAL ASSEMBLY
 (Standard White)

Model
 1148ATS
 1150ATS
 1248AS
 1250AS

Standard Dial
 Side Mount Wide Waterfall



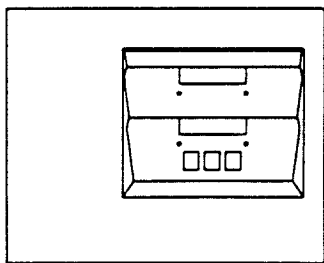
413652-8 REAR DIAL ASSEMBLY
 (Standard White)



413652-5 FRONT DIAL ASSEMBLY
 (Standard White)

Model
 1148ATS
 1150ATS
 1248AS
 1250AS

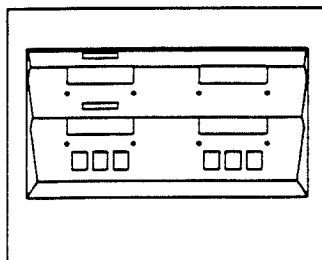
Alternate Dial
 Side Mount Narrow Waterfall



413652-6 REAR DIAL ASSEMBLY
 (Standard White)

Dials For Use On Pumps
Equipped With Models

56, 101 & 2001 Computer



Twin Dial

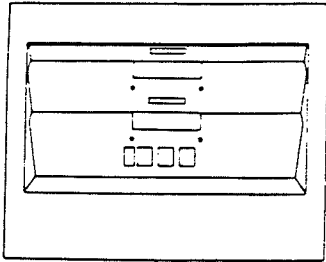
Model
 1148AT-TWIN
 1150AT-TWIN
 1248A-TWIN
 1250A-TWIN

413652-9 TWIN DIAL ASSEMBLY
 (Standard White)

3-74545

Note: Wide Waterfall White Dials Will Be Supplied Unless Otherwise Specified on Order.

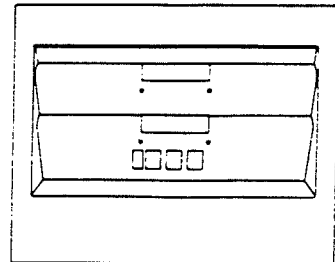
Note: When Ordering Special Colored Dials, Always Give Company Specifications.



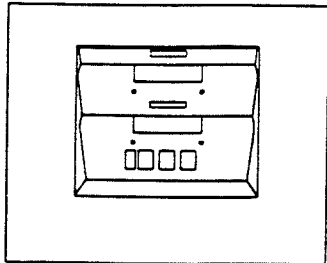
415790-3 FRONT DIAL ASSEMBLY
(Standard White)

Model
1148AT
1150AT
1248A
1250A

Standard Dial
Center Mount Wide Waterfall



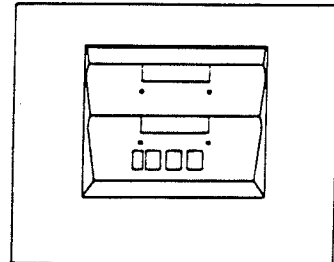
415790-4 REAR DIAL ASSEMBLY
(Standard White)



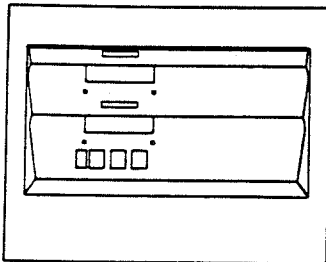
415790-1 FRONT DIAL ASSEMBLY
(Standard White)

Model
1148AT
1150AT
1248A
1250A

Alternate Dial
Center Mount Narrow Waterfall



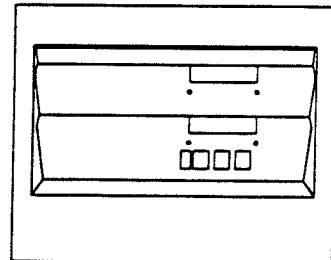
415790-2 REAR DIAL ASSEMBLY
(Standard White)



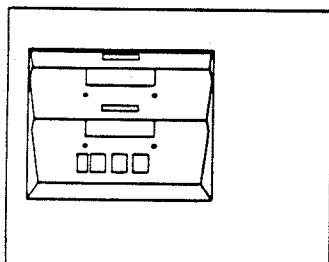
415790-7 FRONT DIAL ASSEMBLY
(Standard White)

Model
1148ATS
1150ATS
1248AS
1250AS

Standard Dial
Side Mount Wide Waterfall



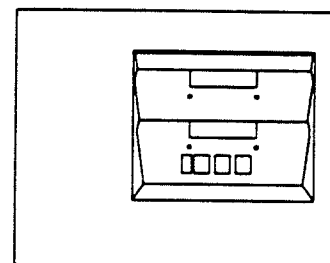
415790-8 REAR DIAL ASSEMBLY
(Standard White)



415790-5 FRONT DIAL ASSEMBLY
(Standard White)

Model
1148ATS
1150ATS
1248AS
1250AS

Alternate Dial
Side Mount Narrow Waterfall

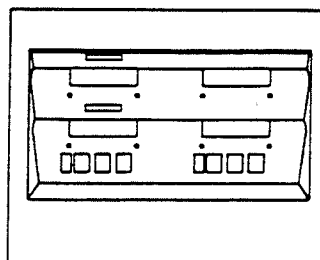


415790-6 REAR DIAL ASSEMBLY
(Standard White)

Dials For Use On Pumps

Equipped With Models

2002 & 10 Computer



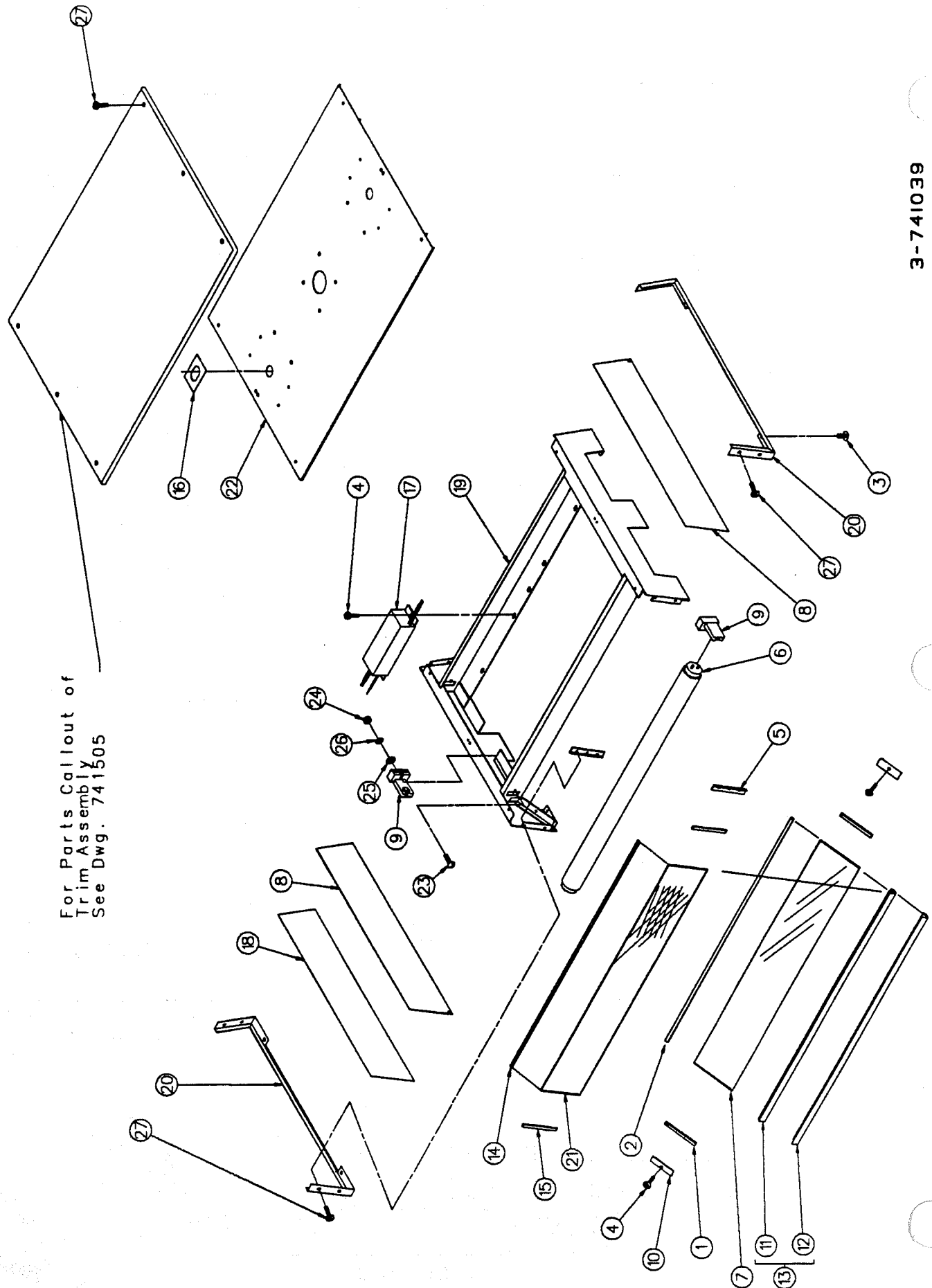
Twin Dial

Model
1148AT-TWIN
1150AT-TWIN
1248A-TWIN
1250A-TWIN

415790-9 TWIN DIAL ASSEMBLY
(Standard White)

2-741041

1250A SERIES LIGHT COMPARTMENT



For Parts Callout of
Trim Assembly
See Dwg. 741505

3-741039

3-741039

1 of 1

1250A Series Light Compartment

ITEM NO.	PART NO.	DESCRIPTION	ITEM NO.	PART NO.	DESCRIPTION
1	2-126457	Glass Seal (2-29/32 Long)	18	1-316548	Decal (APC & AFC)
2	6-126457	Glass Seal (24-11/32 Long)	19	411206-1	Light Box Welding Assembly
3	1-126964	#8-32 X 3/8 Long Truss Head Thread	20	1-411210	End Trim
4	5-126964	Cutting Screw	21	1-412237	Ad Panel
5	1-127581	#8-32 X 1/2 Long Truss Head Thread	22		Dome Support Assembly
6	4-219435	Cutting Screw	412671-1		All Except Listed Below
7	6-220002	Glass Clamp	412671-7		1250AS-AFC/APC-I, AS-RC-AFC/APC-I, A-AFC/APC-I & A-RC-AFC/APC-I
8	4-224582	Fluorescent Lamp	412671-8		1250A-1 & 2-RC-TW-AFC/APC-I & A-2-TW-AFC/APC-I
		Lighting Glass (Standard)	8-411202		Doom Support (Speaker Only)
		Plastic Panel (Special)	182-50001		#8-32 X 1" Long Round Head Machine Screw
9	End Cover		04-50211		#8-32 Hex Nut
	2-220004	Painted	04-50621		#8 Plain Washer
	4-220004	Stainless	04-50761		#1108 Shakeproof Lockwasher
	Lampholder		174-53620		#8-32 X 1/2 Long Truss Head Machine Screw
	1-221379	Standard			
	1-223283	300 Volt Interrupting Switch			
10	1-221831	Clamp			
11	1-224012	Glass Support			
12	1-224016	Glass Support Trim			
13	224043-1	Glass Support Assembly			
14	2-224713	Cushlon (24-13/16" Long)			
15	1-224714	Cushlon (3" Long)			
16	1-225682	Conduit Washer			
17	Ballast				
	1-313101	Standard 120 Volt 60 Cycle			
	2-313101	Special 220 Volt 60 Cycle			
	3-313101	Special 115 Volt 50 Cycle			
	4-313101	Special 220 Volt 50 Cycle			
	5-313101	CANADA 120 Volt 60 Cycle			

For complete Light Compartment Assembly order:

412672-1 1250A SERIES

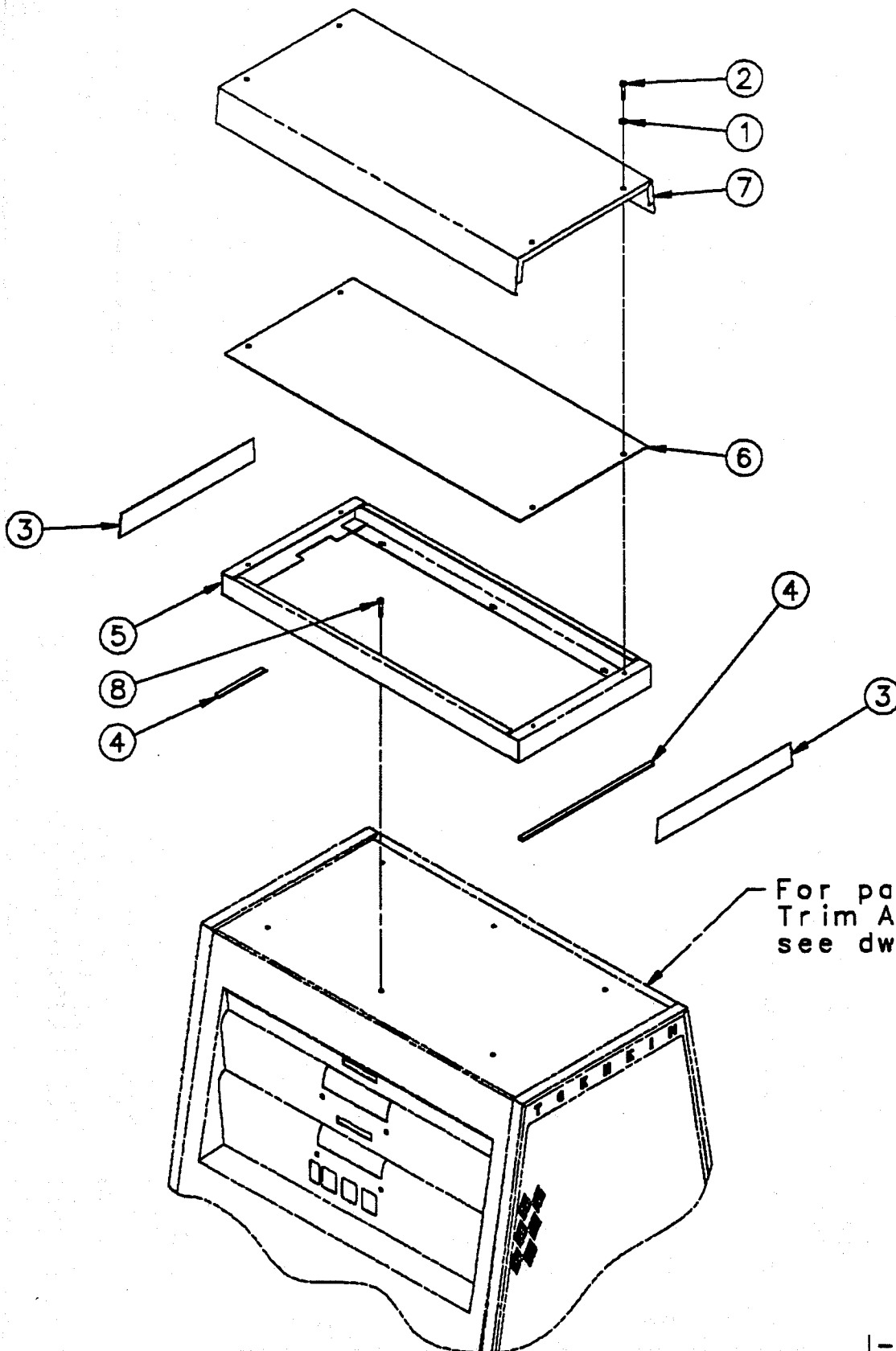
412672-2 1250A-APC/AFC

412672-8 1250A-APC/AFC-TWIN

412672-10 1250A SERIES CANADA

3-741039

1248A UNLIGHTED DOME ASSEMBLY



1-741531

1248A UNLIGHTED DOME ASSEMBLY

<u>ITEM NO.</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>
1	1-126519	Gasket
2	4-126964	#10-32 X 1/2" Long Truss Head Thread Cutting Screw
3	1-223209	End Trim
4	1-224713	Cushion
5	412592-1	Box Welding Assembly
6	1-412593	Dome Support
7	1-412594	Dome
8	174-53620	#8-32 X 1/2" Long Truss Head Machine Screw

For complete Specifications For Unlighted APC:

417002-1 1248A-APC-M & G SINGLE

417002-2 1248A-APC-M & G TWIN

1-741531

Section Three

METER

Page Number

Coupling Assembly

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Positive Displacement Type Meter - Model 898

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Gear Train Assembly

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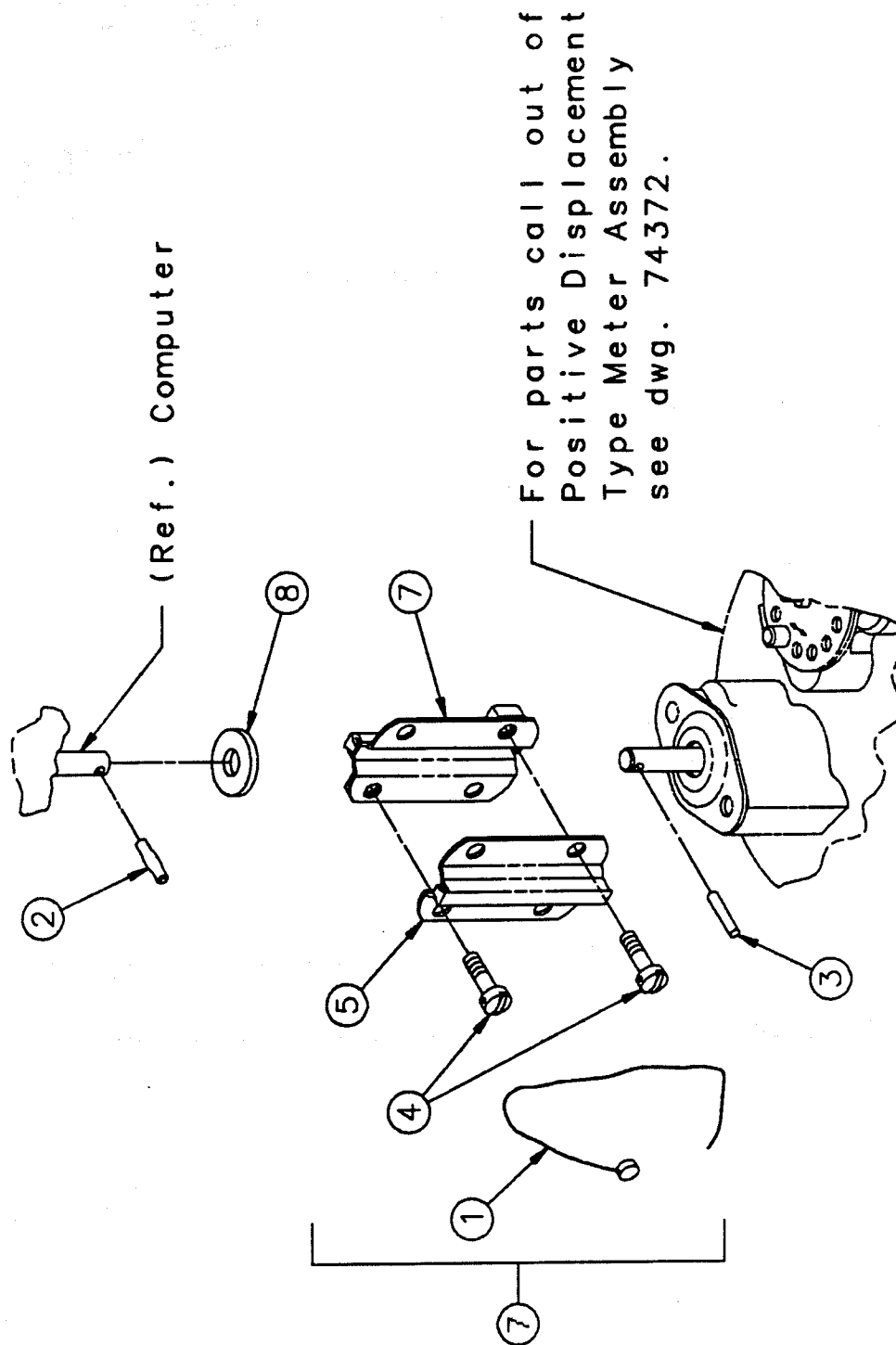
1248AS-HS, 1250AS-HS 3-8, 3-9

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COUPLING ASSEMBLY



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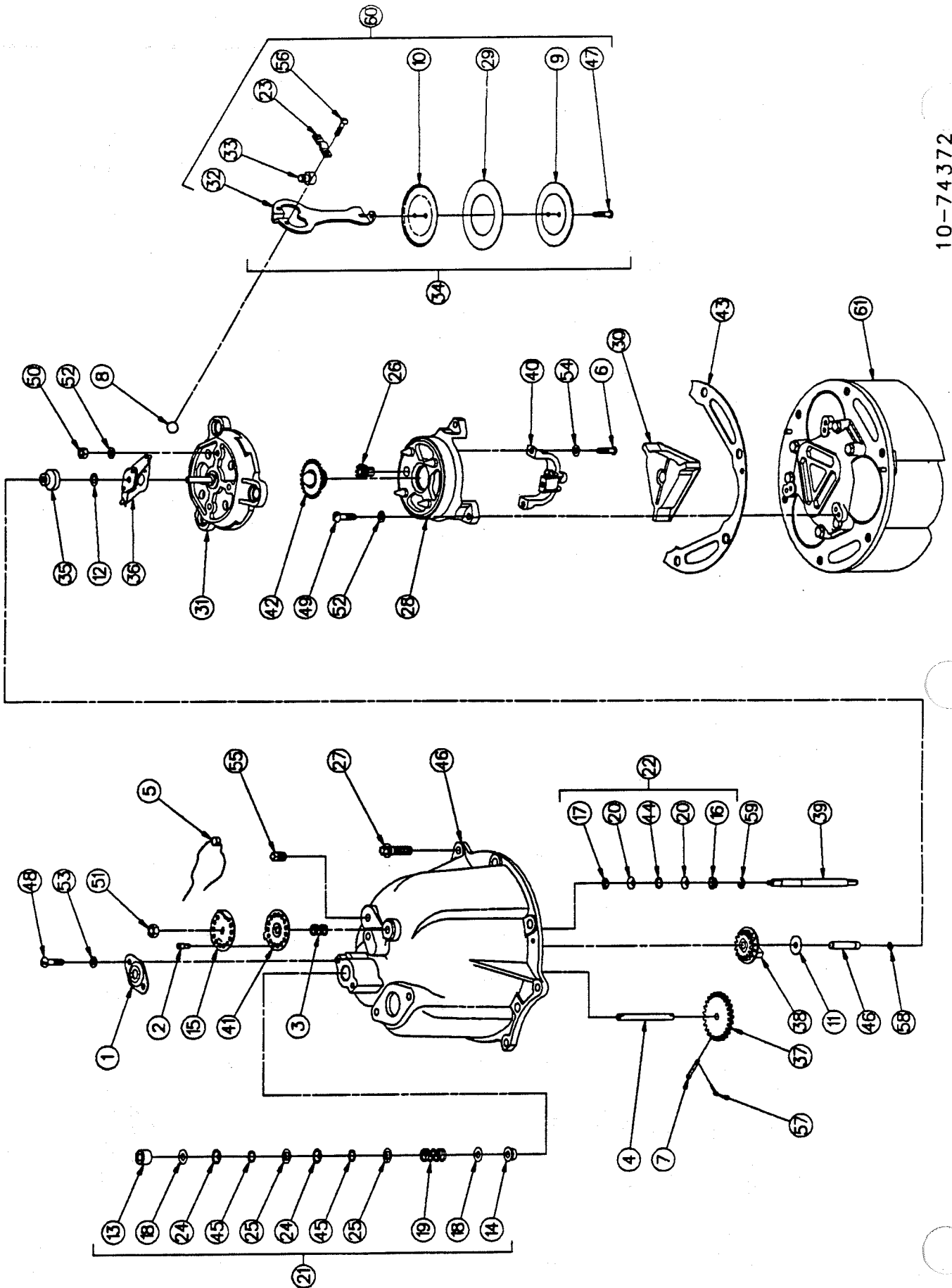
1-73810
1 of 1

COUPLING ASSEMBLY

ITEM NO.	PART NO.	DESCRIPTION	ITEM NO.	PART NO.	DESCRIPTION
1	1-118849	Seal Wire & Seal (6" Long)	6	Coupling Weld Assembly (Continued)	
2	1-120826	3/32" Dia. Groov Pin	226267-5	785, 1100 & 1200 Series Single & 1-TWIN (With Litre Gear Train)	
3	1-120827	Pin		1248A-2 & 1250A-2-TWIN (With Litre Gear Train)	
4	1-130951	Seal Screw	226267-6		
5	Coupling Half				
	1-226266	785, 1100 & 1200 Series Single & 1-TWIN	7	Coupling Kit	
	2-226266	1248A-2 & 1250A-2-TWIN	226269-1	785, 1100 & 1200 Series Single & 1-TWIN	
	3-226266	990 Series	226269-2	1248A-2 & 1250A-2-TWIN	
	4-226266	793 Series			
	5-226266	785, 1100 & 1200 Series Single & 1-TWIN (With Litre Gear Train)	226269-3	990 Series	
	6-226266	1248A-2 & 1250A-2-TWIN (With Litre Gear Train)	226269-4	793 Series	
6	Coupling Weld Assembly		226269-5	785, 1100 & 1200 Series Single & 1-TWIN (With Litre Gear Train)	
	226267-1	785, 1100 & 1200 Series Single & 1-TWIN	226269-6	1248A-2 & 1250A-2-TWIN (With Litre Gear Train)	
	226267-2	1248A-2 & 1250A-2-TWIN			
	226267-3	990 Series	8	2-120739	Washer (U.S. & Imperial Gallon To Litre Only)
	226267-4	793 Series			

1-73810

898 POSITIVE DISPLACEMENT TYPE METER



10-74372

10-74372

1 of 1

POSITIVE DISPLACEMENT TYPE METER - Model 898

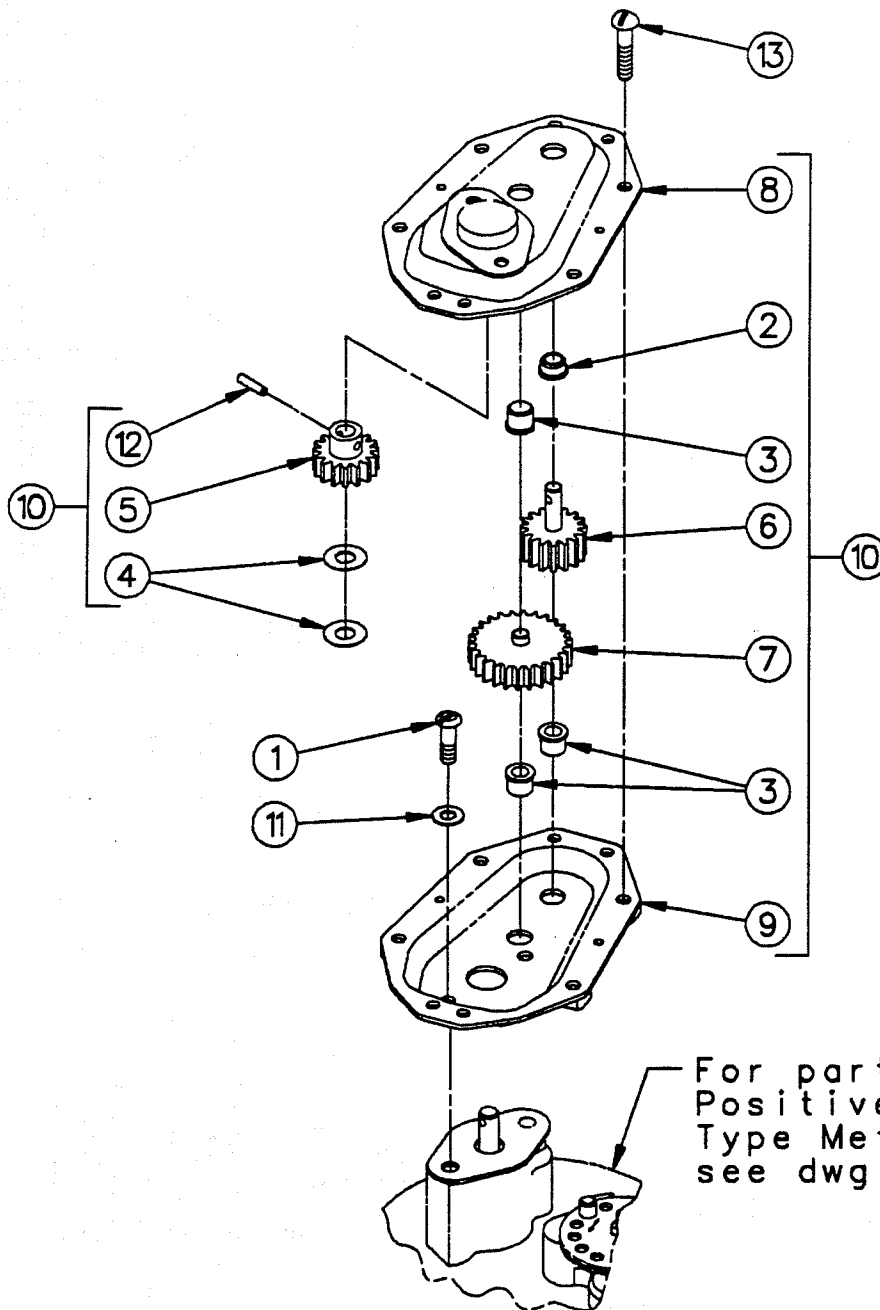
ITEM NO.	PART NO.	DESCRIPTION	ITEM NO.	PART NO.	DESCRIPTION	ITEM NO.	PART NO.	DESCRIPTION
1	1-19592	Packing Gland Plate	26	1-129607	Compensator Pinion	49	399-50001	1/4-20 X 3/4" Length Round Head Machine Screw
2	1-19602	Seal Pin	27	1-130407	Torx Drive Screw	50	01-50301	1/4-20 Hex Nut
3	1-19743	Compensator Screw Spring	28	218236-2	Main Pivot Bracket Assy. With Pins	51	02-50301	5/16-18 Hex Nut
4	1-114815	Drive Shaft	29	218769-1	Plunger Cup Kit (Set Of 3 Cups)	52	13-50641	1/4 Lockwasher
5	1-118849	Seal & Seal Wire (6" Length)	30	1-219330	Valve	53	24-50761	#1212 Lockwasher
6	1-119064	Special Screw	31	219331-1	Wobble Plate With Slack Roller Post	54	42-50761	#1114 Lockwasher
7	1-124144	Drive Shaft Pin	32	1-219377	Connector	55	01-51911	1/8 Square Head Pipe Plug
8	1-124588	1/2" Ball	33	1-219378	Bearing Seat	56	30-52721	#10-32 X 3/8" Length Round Head Sems Fastener
9	1-125069	Plunger Cup Support	34	219407-2	Plunger Assembly	57	13-52870	1/16 X 1/4" Length Cotter Pin
10	1-125071	Plunger Disc	35	219800-1	Slack Roller Assembly	58	10-52922	Truearc Retaining Ring
11	1-125095	Washer	36	221403-1	Slack Spring Assembly	59	12-53420	Truearc "E" Retaining Ring
12	1-125103	Washer	37	1-222081	Drive Shaft Gear	60	80009	Plunger Assembly with Bearing Retainer.
13	125118-1	Upper Bearing Assembly	38	1-222084	Counter Drive Gear Complete	61	80010	Bearing Seat & Sems Fastener
14	125154-1	Bearing Assembly	39	1-224081	Compensator Shaft			Body & Seat Assembly With Pins
15	1-125243	Compensator Index Disc	40	224709-5	Bracket & Pin Assembly			
16	1-125308	Seal Half	41	1-226085	Index Plate			
17	1-125309	Seal Wedge	42	226479-1	Pivot & Ball Assembly			
18	1-125315	Washer	43	1-38083	Meter Body Gasket			
19	1-125357	Packing Spring	44	5-318940	"O" Ring (.362 Dia.)			
20	1-125360	Seal	45	6-318940	"O" Ring (.487 Dia.)			
21	125420-1	Meter Drive Shaft	46	420557-1	Meter Cover And Gear Post Assembly			
22	125478-1	Packing Kit	47	287-50001	#10-32 X 3/8" Length Round Head Machine Screw			
23	1-125966	Compensator Shaft Seal Kit	48	326-50001	#12-24 X 1/2" Length Round Head Machine Screw			
24	1-126898	Bearing Retainer Seal (Black)						
25	1-126902	Seal Retaining Ring						

Note:

- Order: 407726-10 for complete 898-K Meter
- Order: 407494-1 for complete Meter Cover Assembly (Item no. 5 & 46 not Included)

10-74372

1248A/50A-2-TW GEAR TRAIN ASSEMBLY



1-73816

1-73816

1 of 1

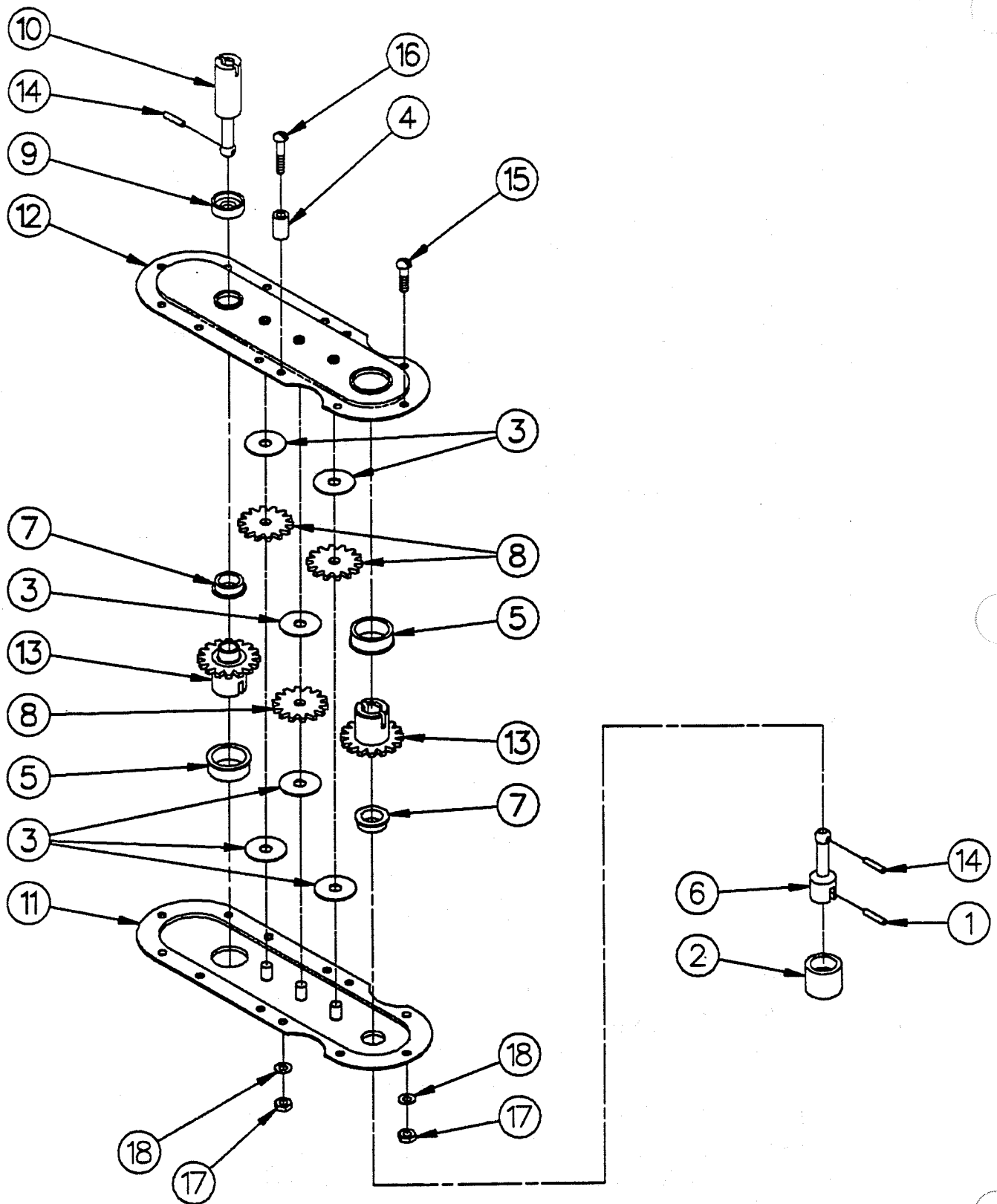
1248A/50A-2-TW GEAR TRAIN ASSEMBLY

ITEM NO.	PART NO.	DESCRIPTION	ITEM NO.	PART NO.	DESCRIPTION
1	1-114401	#12-24 Special Screw	8	<u>Gear Box Plate Assembly (Upper)</u>	
2	1-117885	Gear Box Bushing	311073-3	1248A/50A-2-TW-PR	
3	1-117901	Gear Box Bushing	311073-8	1250A-2-TW-APC-M	
4	1-122316	Washer			
5	<u>Meter Pinion</u>		9	<u>Gear Box Plate Assembly (Lower)</u>	
	1-125138	1248A/50A-2-TW-PR	311074-15	1250A-2-TW-APC-M	
	1-125139	1250A-2-TW-APC-M	311074-19	1248A/50A-2-TW-PR	
6	<u>Computer Drive Gear Assembly</u>		10	<u>Gear Train Assembly</u>	
	125148-1	1248A/50A-2-TW-PR	410058-10	1248A/50A-2-TW-PR	
	125151-1	1250A-2-TW-APC-M	410058-30	1250A-2-TW-APC-M	
7	<u>Idler Gear Assembly</u>		11	24-50761	#12 Lockwasher
	125149-1	1248A/50A-2-TW-PR	12	40-51221	1/8 Dia. X 1/2" Long Groove Pin
	125152-1	1250A-2-TW-APC-M	13	23-52721	#10-24 X 3/8 Long Sems Fastener Unit

1-73816

GEAR TRAIN ASSEMBLY

(1248AS-HS & 1250AS-HS)



1-73817

GEAR TRAIN ASSEMBLY

(1248AS-HS & 1250AS-HS)

<u>ITEM NO.</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>
1	1-120827	Pin
2	1-121872	Collar
3	1-125434	Gear Spacer
4	4-126639	Spacer
5	1-126641	Bushing
6	1-126645	Drive Shaft
7	1-126713	Bushing
8	1-127067	Gear
9	1-127074	Spacer
10	1-128731	Drive Shaft
11	220253-2	Gear Case Assembly (Lower)
12	220254-2	Gear Case Assembly (Upper)
13	220303-1	Gear Assembly
14	41-51341	1/8" Dia. X 5/8" Long Groove Pin
15	246-50001	#10-24 X 5/16" Long Round Head Machine Screw
16	260-50001	#10-24 X 1" Long Round Head Machine Screw
17	05-50211	#10-24 Hex Machine Nut
18	10-50641	#10 Lockwasher

For complete Gear Train Assembly order:
220724-2 1248AS-HS & 1250AS-HS

1-73817

Section Four

HYDRAULIC DISCHARGE

	Page Number
Hose Clamp	
5/8" & 3/4" Hose	4-2
1" Hose	4-3
Hydraulic Discharge System	
(1248/50A, 1248/50A-OIL, 1248/50A-HS, 1248/50A-2-TW, 1248/50AS, 1248/50AS-OIL, 1248/50AS-HD , 1248/50AS-HS)	4-4, 4-5
(1248/50A-RC, 1248/50AS-RC, 1248/50-A-RC- 1 & 2-TW, 1248/50A-1-TW)	4-6, 4-7
Hydraulic Control Valve Assembly	
.....	4-8, 4-9
Pilot Valve Assembly	
.....	4-10, 4-11

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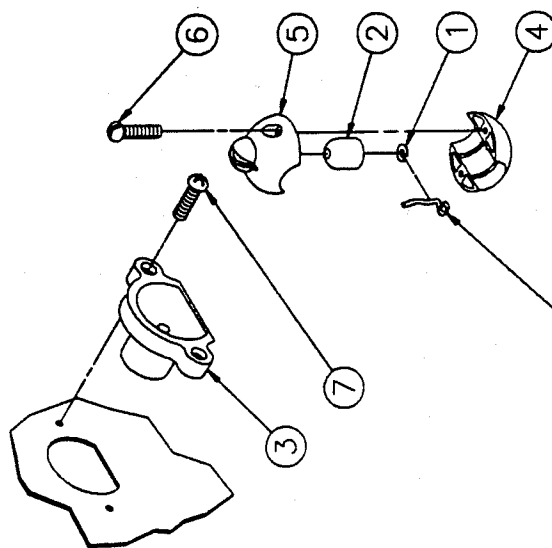
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5/8 & 3/4 HOSE CLAMP ASSEMBLY

ITEM
NO.

PART NO. NAME OF PART

1	1-131211	Retainer
2	1-131212	Swivel
3	1-223979	Eyelet
4	Bottom Clamp	
	1-226936	5/8 Dia. Hose
	1-227343	3/4 Dia. Hose
5	1-226938	Top Clamp
6	Round Head Machine Screw	
	178-50001	#8-32 X 3/4 Lg. (5/8 Dia. Hose)
	182-50001	#8-32 X 1 Lg. (3/4 Dia. Hose)
7	28-54570	#10-32 X 5/8 Phil. Rd. Hd. Self Tapping Screw

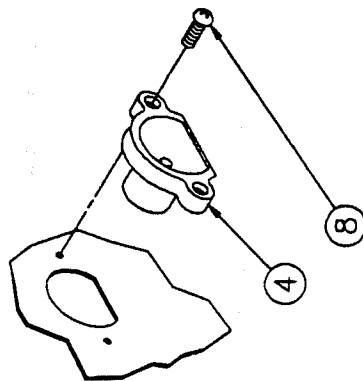


For complete HOSE CLAMP ASSEMBLY (Less CABLE & EYELET) order:
226864-2 (5/8 & 3/4 Dia. Hose)

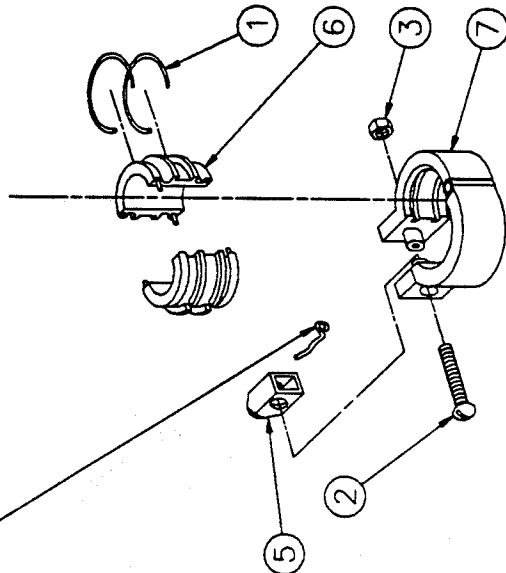
4Knot Cable Per Dwg. 220855

1-73808

1" HOSE CLAMP



⌋Knot Cable Per Dwg. 220855



ITEM NO.	PART NO.	NAME OF PART
1	1-131213	Snap Ring
2	1-131217	#10-24 X 1-1/4 Lg. Rd. Hd. Mach. Screw
3	1-131218	#10-24 Hex. Locknut
4	1-223979	Eyelet
5	1-226939	Swivel
6	Top & Bottom Halves	
	1-226940	Natural
	2-226940	Black
	3-226940	Green
7	1-226941	Outer Clamp
8	28-54570	#10-32 X 5/8 Phil. Rd. Hd. Self Tapping Screw

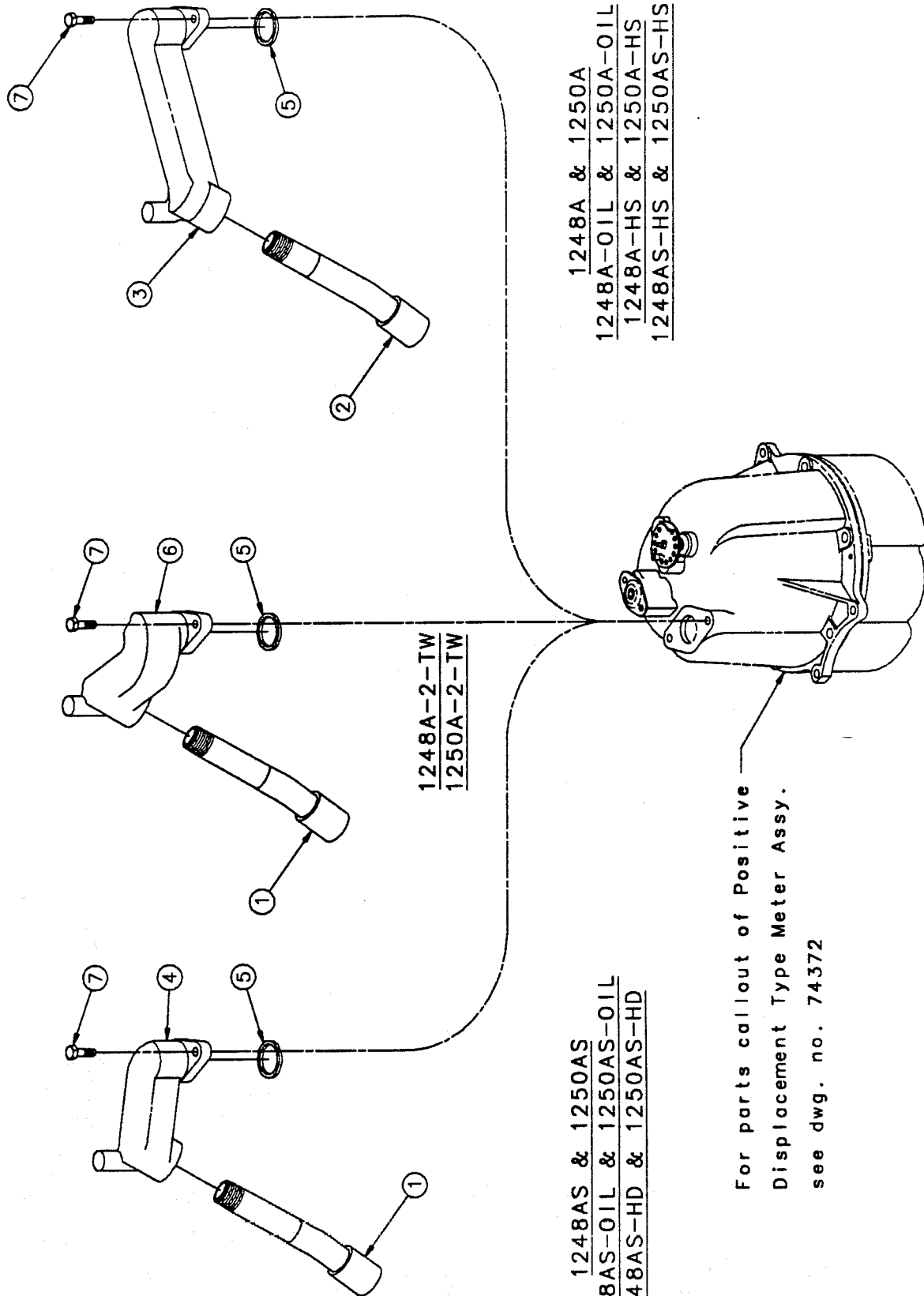
For complete HOSE CLAMP ASSEMBLY (Less CABLE & EYELET) order:

316009-1	Natural
316009-2	Black
316009-3	Green

I-73809

SUCTION HYDRAULIC DISCHARGE SYSTEM

(ALL MODELS EXCEPT 1248A-1-TW & 1250A-1-TW)



1-741519
1 of 1

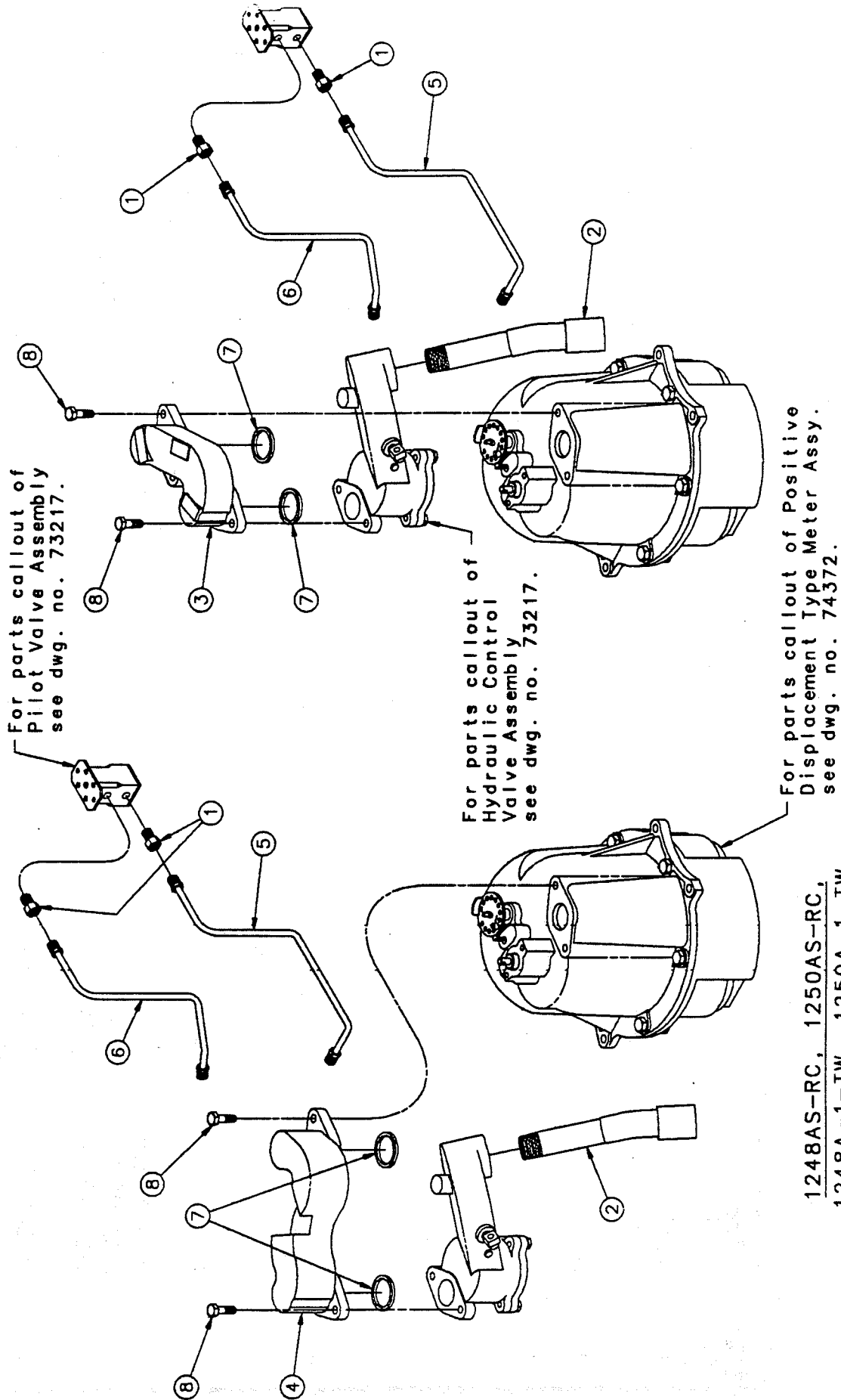
SUCTION HYDRAULIC DISCHARGE SYSTEM

(1248A/50A, 1248AS/50AS, 1248A/50A-OIL, 1248AS/50AS-OIL,
1248A/50A-HS, 1248AS/50AS-HS, 1248AS/50AS-HD, 1248A-50A-2-TW)

ITEM NO.	PART NO.	DESCRIPTION	ITEM NO.	PART NO.	DESCRIPTION
1	222653-1	Pipe Kit	8	Hose (Not Shown)	
2	222653-4	Pipe Kit		001-547612-00	5/8" X 12'-0" (All Except 1248A/50A-HS & 1248AS/50-HS)
3	Hose Adapter 1-311999	3/4" Pipe Tap (1248A, 1250A, 1248A-OIL & 1250A-OIL		001-547615-00	1" X 15'-0" (1248A/50A-HS & 1248AS/50-HS)
	2-311999	1" Pipe Tap (1248A-HS, 1250A-HS, 1248AS-HS & 1250AS-HS)	9	3/4" Nozzle (Not Shown)	(OPW# 1AK-HAR) All 1250A-PR-AFC/AFC-I
4	Hose Adapter 1-312013 2-312013	3/4" Pipe Tap 1" Pipe Tap		2-312230	
	13-313235	Gasket		2-315617	(OPW 11-AK) All Except 1250A-PR-AFC/AFC-I
5	Hose Adapter 1-411204 2-411204	3/4" Pipe Tap 1" Pipe Tap	10	Hose Swivel Assembly (Not Shown)	
	35-50361	5/16-18 X 1" Long Hex Head Cap Screw		410074-14	All 1250A-PR-AFC/AFC-I
				415445-5	All Except 1250A-PR-AFC/AFC-I

1-741519

1248A & 1250A HYDRAULIC DISCHARGE SYSTEM



1248AS-RC, 1250AS-RC,
 1248A-1-TW, 1250A-1-TW
 1248A-1-RC-TW, 1250A-1-RC-TW
 1248A-2-RC-TW, 1250A-2-RC-TW

(1248A-RC & 1250A-RC)

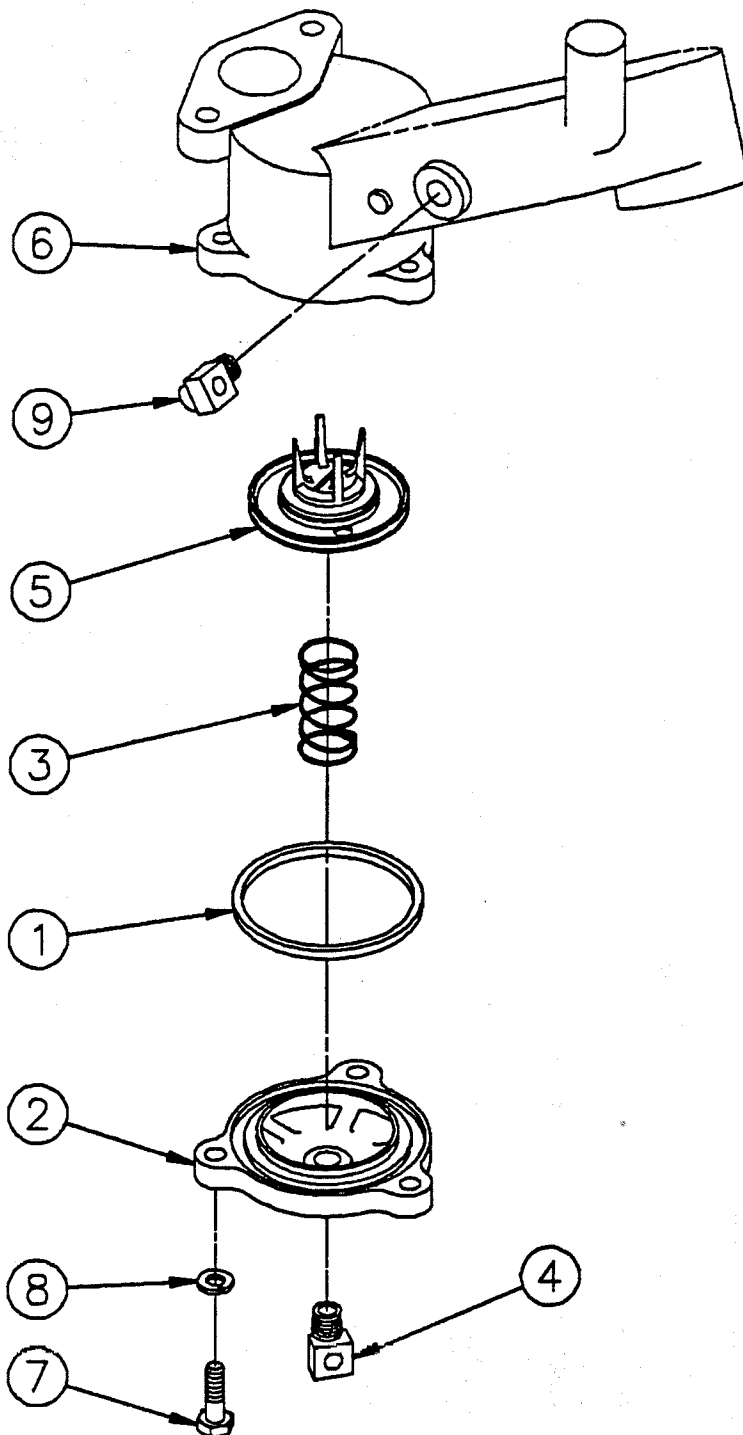
1-741520

1248A/50A-RC, 1248AS/50AS-RC,

1248A/50A-1-TW & 1248A/50A-1 & 2-RC-TW)

1-741520

HYDRAULIC CONTROL VALVE ASSY.



3-73116

HYDRAULIC CONTROL VALVE ASSEMBLY

<u>ITEM NO.</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>
1	3-313235	Gasket
2	1-39023	Valve Cover
3	1-124454	Poppet Spring
4	1-125637	Male Elbow
5	218750-2	Hydraulic Poppet Assembly
6	Valve Body	
	228101-2	3/4" Outlet (1148AT & 1150AT)
	228101-4	3/4" Outlet (1248A & 1250A)
	228101-5	1" Outlet (1248A & 1250A)
7	04-50361	1/4-20 X 7/8 Long Hex Head Cap Screw
8	13-50641	1/4 Lockwasher
9	1-128433	Male Elbow

For complete Hydraulic Valve Assembly order:

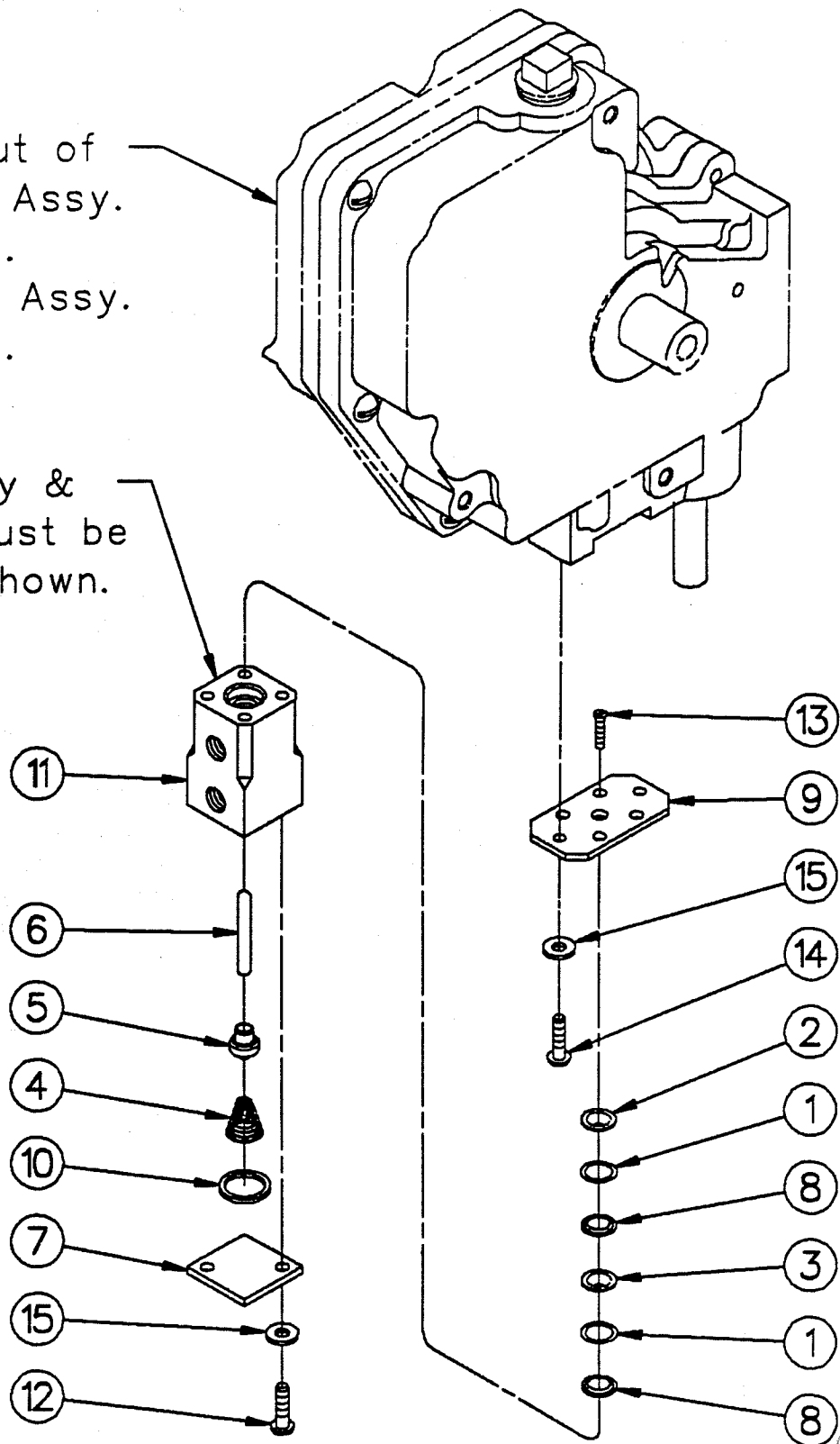
311932-2	3/4" Outlet (1148AT & 1150AT)
311932-3	3/4" Outlet (1248A & 1250A)
311932-4	3/4" Outlet (1150T)
311932-5	1" Outlet (1148AT & 1150AT)
311932-7	1" Outlet (1248A & 1250A)

3-73116

PILOT VALVE ASSEMBLY

For parts call out of
77 Power Reset Assy.
see dwg. 741523.
77 Manual Reset Assy.
see dwg. 741522.

Note: Pilot Valve Body &
Valve Flange must be
assembled as shown.



3-73217

PILOT VALVE ASSEMBLY

<u>ITEM NO.</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>
1	2-318940	"O" Ring
2	1-125216	Seal Washer (Reddish Brown)
3	2-125216	Seal Washer (Black)
4	1-125470	Poppet Spring
5	1-128701	Poppet Complete
6	1-128703	Valve Stem
7	1-129557	Bottom Valve Cap
8	1-218386	Seal Retaining Ring
9	1-223996	Valve Flange
10	12-313235	Gasket
11	1-313629	Pilot Valve Body
12	174-50001	#8-32 X 1/2" Long Round Head Machine Screw
13	176-50011	#8-32 X 5/8" Long Flat Head Machine Screw
14	57-50181	#8-32 X 3/8" Long Fillister Head Machine Screw
15	08-50641	#8 Lockwasher

For complete Pilot Valve Assembly order: 313647-1

3-73217

1. The first part of the document is a letter from the President of the United States to the Congress, dated January 1, 1861. It is a very important document, as it sets out the policy of the new administration.

2. The second part of the document is a report from the Secretary of the Treasury, dated January 1, 1861. It contains a detailed account of the financial state of the country at the beginning of the year.

3. The third part of the document is a report from the Secretary of the Interior, dated January 1, 1861. It contains a detailed account of the state of the public lands and the progress of the various departments under his control.

4. The fourth part of the document is a report from the Secretary of the Navy, dated January 1, 1861. It contains a detailed account of the state of the navy and the progress of the various departments under his control.

5. The fifth part of the document is a report from the Secretary of the War, dated January 1, 1861. It contains a detailed account of the state of the army and the progress of the various departments under his control.

6. The sixth part of the document is a report from the Secretary of the State, dated January 1, 1861. It contains a detailed account of the state of the foreign relations of the country and the progress of the various departments under his control.

7. The seventh part of the document is a report from the Secretary of the Education, dated January 1, 1861. It contains a detailed account of the state of the public schools and the progress of the various departments under his control.

8. The eighth part of the document is a report from the Secretary of the Agriculture, dated January 1, 1861. It contains a detailed account of the state of the agriculture of the country and the progress of the various departments under his control.

9. The ninth part of the document is a report from the Secretary of the Commerce, dated January 1, 1861. It contains a detailed account of the state of the commerce of the country and the progress of the various departments under his control.

10. The tenth part of the document is a report from the Secretary of the Public Works, dated January 1, 1861. It contains a detailed account of the state of the public works of the country and the progress of the various departments under his control.

Section Five

WIRING COMPUTER RESET

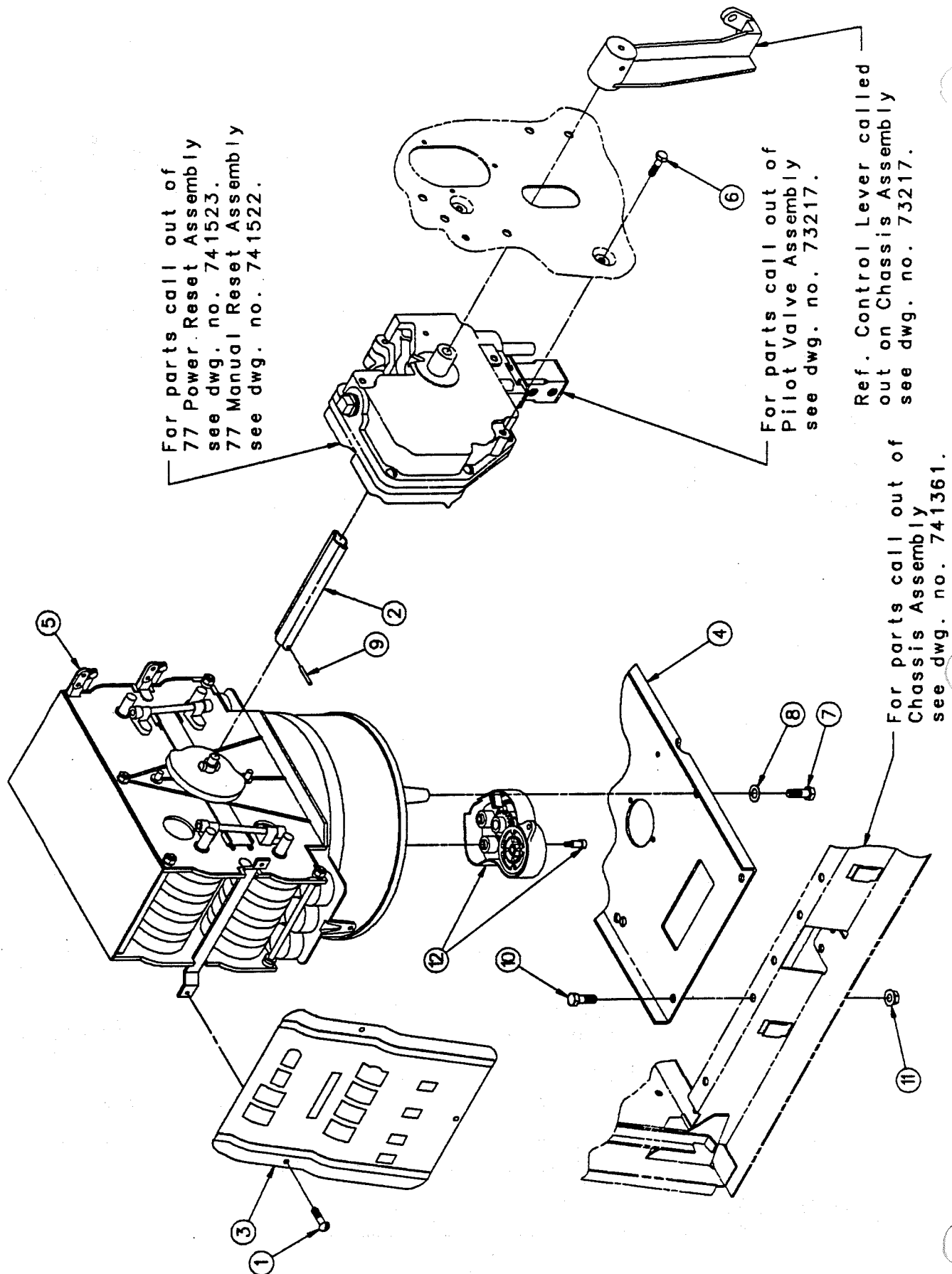
	Page Number
Computer Assembly	
1248A, 1250A	5-2, 5-3
Model 77	
Manual Reset Assembly	5-4, 5-5
Power Reset	5-6, 5-7
Manual Reset Wiring	5-8, 5-9
Power Reset Wiring	5-10, 5-11
77-APC/AFC Power Reset Wiring	5-12, 5-13
Contactor & Gear Assembly	
Gallons Only	5-14, 5-15
General Assembly - Power Reset	
Model 77-OC	5-16, 5-17
Contactor & Gear Assembly	
Money/Gallons	5-18, 5-19
Connection Box & Conduit Assembly	
1248/50A, 1248/50AS, 1248/50A-RC, 1248/50AS-RC, 1248/50A-1 & 2-TW, 1248/50A-RC-1 & 2-TW	5-20, 5-21
1248/50A-OIL, 1248/50AS-OIL, 1248/50AS-HD, 1248/50A-HS, 1248/50AS-HS	5-22, 5-23
Connection Box Assembly for Speaker	
APC-I & AFC-I with Money, Gallons & Money/Gallons Pulser	5-24, 5-25
Speaker Assembly	
1250A Single & Dual	5-26, 5-27

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1248A & 1250A COMPUTER ASSEMBLY



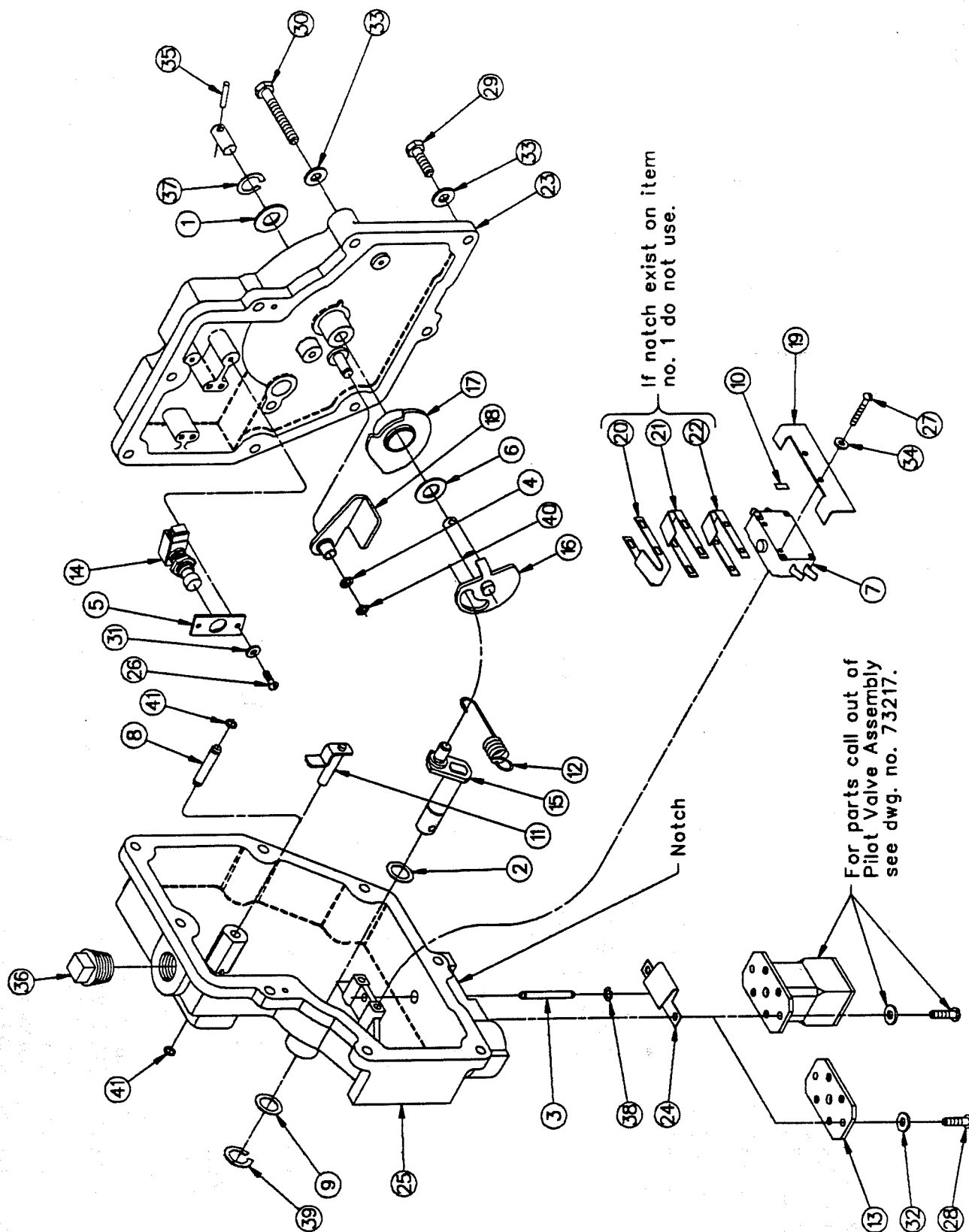
1-7415

1-741521
1 of 1

1248A & 1250A COMPUTER ASSEMBLY

ITEM NO.	PART NO.	DESCRIPTION	ITEM NO.	PART NO.	DESCRIPTION	ITEM NO.	PART NO.	DESCRIPTION
1	1-116071	Dial Screw	4	Computer Support 1-312966	All Except 1248 & 1250AS-HS	6	01-50361	1/4-20 X 1/2" Long Hex Head Cap Screw
2	Coupling 1-223729	1248 & 1250AS 1248 & 1250AS-HD 1248 & 1250AS-RC 1248 & 1250AS-HS 1248 & 1250A-1-TW 1248 & 1250A-2-TW 1248A-1-RC-TW 1250A-1-RC-TW 1248A-2-RC-TW 1250A-2-RC-TW	5	Computer 1-416742	All Except Listed Below (4 Wheel)	7	80-50361	3/8-24 X 3/4" Long Hex Head Cap Screw
3-223729		1248A, 1250A 1248A-RC, 1250A-RC 1250-HS, 1248A-OIL 1250A-OIL	1-416445	Litre (Canada)(4Wheel)		8	15-50641	3/8 Lockwasher
1-127265		All 1250A-PR-AFC/ APC-I	1-413951	1250A-APC/AFC-M (3 Wheel)		9	44-51240	1/8" X 1" Long Groove Pin
Mask 1-38625		(3 Wheel) 56 & 101 Computer (4 Wheel) 10 Computer (4 Wheel) 56 & 101 Computer (4 Wheel) 2001 Computer (4 Wheel) 2002	5-412183	All 1250A-PR-AFC/ APC-I (4 Wheel)		10	35-54742	5/16-18 X 5/8 Long M-F Hex Head Whltz-Lock Screw
7-38626			Computer Assembly 226782-2	1250AS-HS-AFC-G, M & M-G (4 Wheel)		11	02-54752	5/16-18 M-F Flange Whltz-Lock Nut
1-38627			313939-1	1250AS-RHD/APC/ AFC-G & M-G (4 Wheel)		12	Special Gear Train (Includes Mounting Hardware)	
1-315197			313939-2	1250A-APC/AFC/ MCS-G & M-G (3 Wheel)		1-225442	Imperial Gallon To Litre	
1-315658						2-225552	United States Gallon To Litre	

77 MANUAL RESET ASSEMBLY



1-741522

1-741522

1 of 1

77 MANUAL RESET ASSEMBLY

ITEM NO.	PART NO.	DESCRIPTION	ITEM NO.	PART NO.	DESCRIPTION	ITEM NO.	PART NO.	DESCRIPTION
1	3-110901	Thrust Washer	22	1-229600	Dampener Spring #3	36	04-51901	1/2" Pipe Plug
2	1-126783	Washer						(All Unlighted Units -- Conduit & Harness Assembly) (Lighted)
3	2-128798	Operating Rod	23	Cover & Bearing Assembly				
4	1-128828	Shim Washer	312941-2	77-TP				
5	1-128902	Switch Bracket	313025-1	77 (Unlighted)				
6	1-129578	Washer	313025-2	77 (Lighted)				
7	1-129798	Switch D.P.S.T.						
8	1-130595	Plug Shaft (Unlighted)	24	1-317890	Operator Spring			
9	1-131944	Wave Spring Washer	25	415247-1	Reset Box & Pin Assembly			
10	Wire Marker		26	90-50001	#6-32 X 5/16" Lg Round Head Machine Screw			
	3-215573	#3						
	4-215573	#4						
	5-215573	#5						
	6-215573	#6						
11	223069-1	Actuator Assy (Lighted)	27	102-50001	#6-32 X 7/8" Lg Round Head Machine Screw	37	07-52482	Truarc "E" Retaining Ring
12	1-223175	Handle Spring				38	03-52920	Truarc Retaining Ring
13	1-223996	Valve Flange (Used on Suction Systems Only)				39	18-52921	Truarc Retaining Ring
14	1-224716	Light Switch	28	57-50181	#8-32 X 3/8" Lg Fillister Head Machine Screw	40	07-52922	Truarc Retaining Ring
15	229270-1	Handle Operator Assembly				41	06-53272	Reliance Square Snap Ring
16	229271-1	Output Shaft Assembly	29	04-50361	1/4-20 X 7/8" Lg Hex Head Cap Screw			
17	229272-1	Pawl Assembly	30	07-50361	1/4-20 X 1-1/2" Lg Hex Head Cap Screw			
18	229441-1	Operator Assembly						
19	1-229463	Switch Cover	31	06-50641	#6 Lockwasher			
20	1-229498	Dampener (Spring #1)	32	08-50641	#8 Lockwasher			
			33	07-50761	1/4" Lockwasher			
			34	21-50761	#6 Lockwasher			
			35	51-51341	5/32" X 7/8" Long Groove Pin			
21	1-229499	Dampener (Spring #2)						

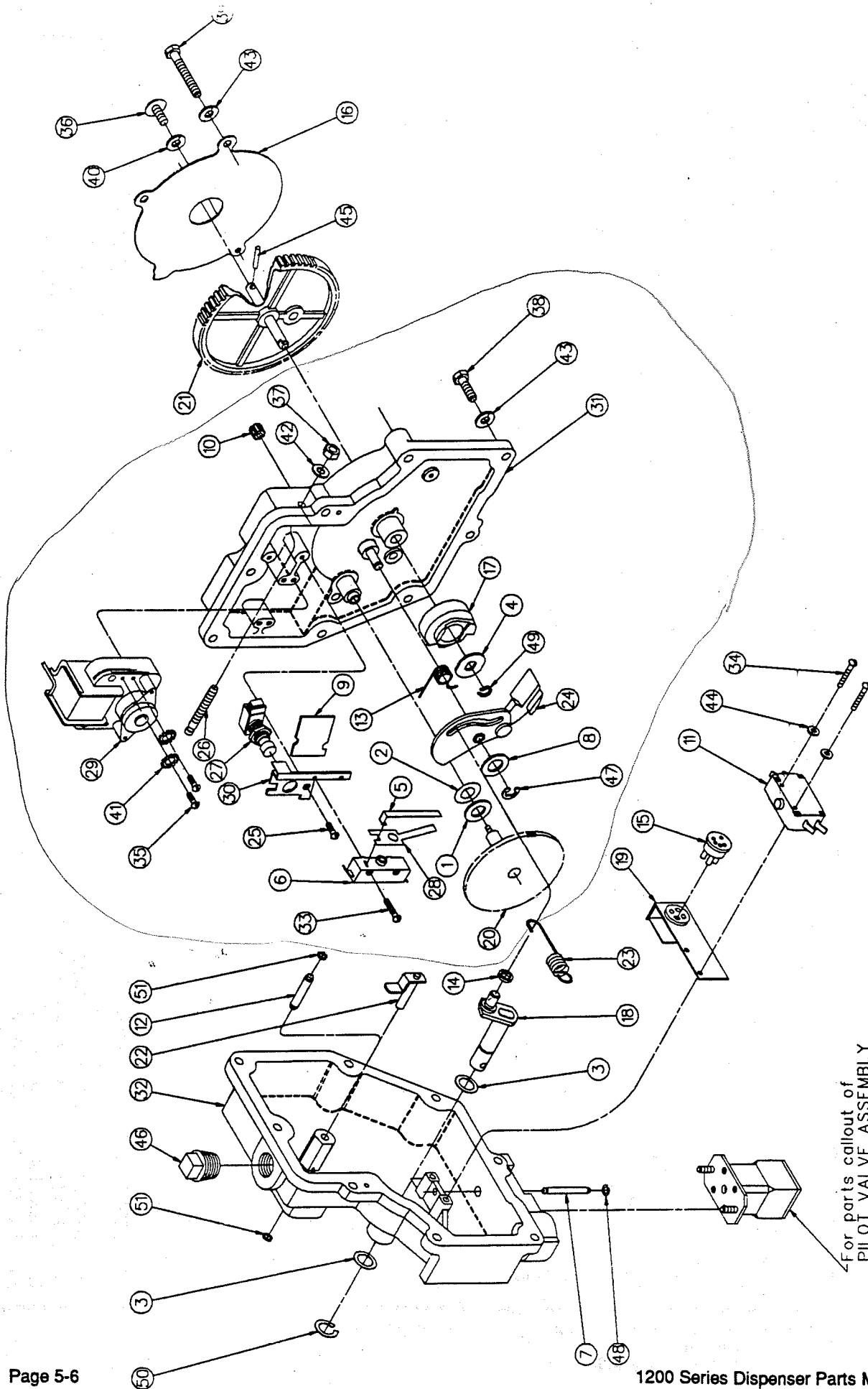
For complete Cover Assembly (Not including Item Nos. 5, 12, 25 & 28)
Order: 412616-2

(Ref.) 412614 Reset Box Assembly

T.B.S. = To be supplied

1-741522

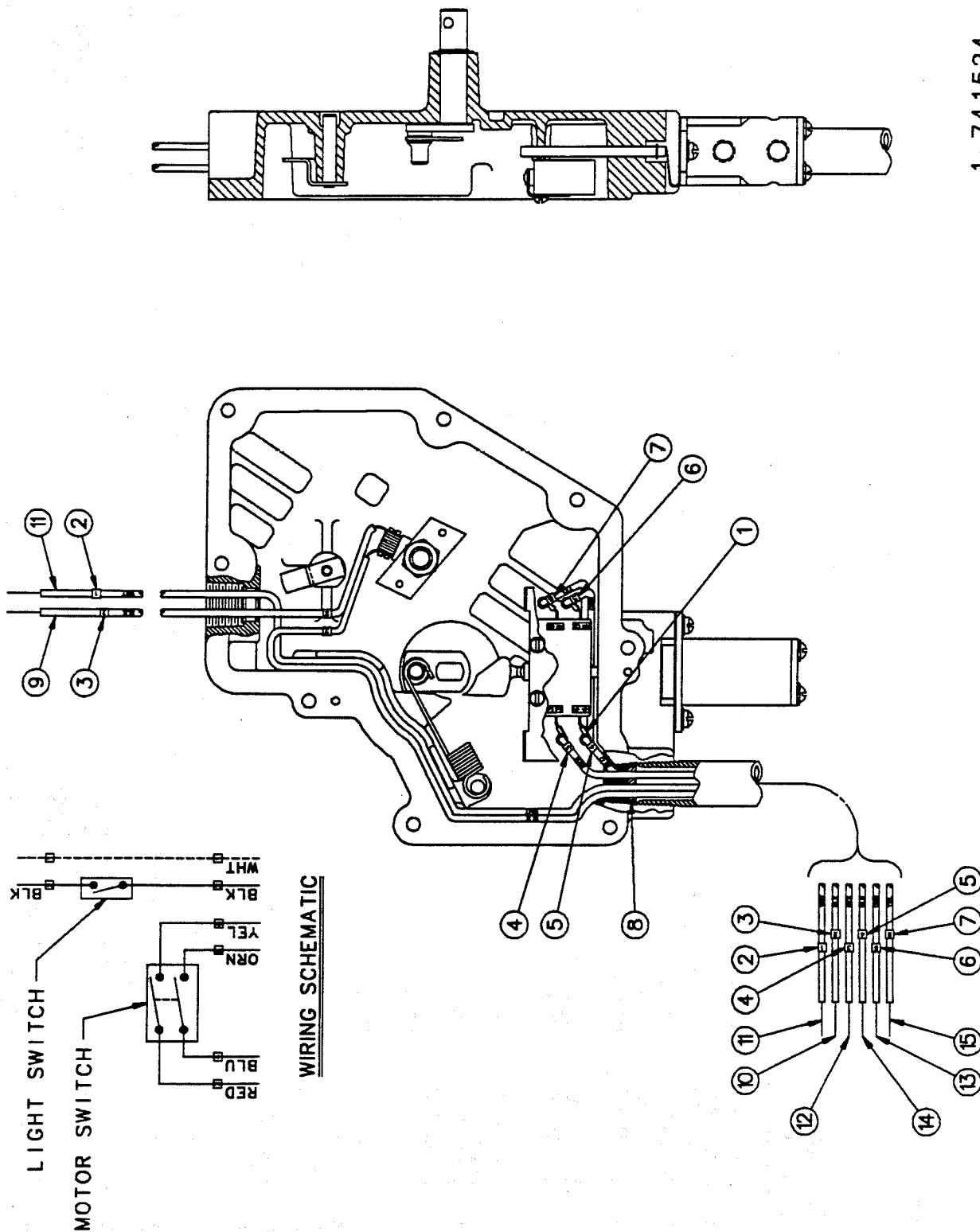
MODEL 77 - POWER RESET



1-741523

Page 5-7

77 MANUAL RESET WIRING



1-741524