

SERVICE PARTS MANUAL

*for: MODEL 785 SERIES
COMMERCIAL
REFUELING PUMPS*

Including:

- ***Remote Control Systems***
- ***Suction Systems***
- ***High Volume Dispensers***



FORM 2146A Version 1.0
March 1991

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IMPORTANT

THIS EQUIPMENT MUST BE INSTALLED AND USED IN ACCORDANCE WITH FEDERAL, STATE, LOCAL AND NATIONAL ELECTRICAL CODE N.F.P.A. NO. 70 AND AUTOMOTIVE AND MARINE SERVICE STATION CODE N.F.P.A. 30A CODES AND REGULATIONS.

!!! FCC WARNING !!!

THIS EQUIPMENT GENERATES, USES AND CAN RADIATE RADIO FREQUENCY ENERGY AND IF NOT INSTALLED AND USED IN ACCORDANCE WITH THE INSTRUCTION MANUAL, MAY CAUSE INTERFERENCE TO RADIO COMMUNICATIONS. IT HAS BEEN TESTED AND HAS BEEN FOUND TO COMPLY AS A CLASS "A" DEVICE WITH PART 15, SUBPART "J" OF THE FCC RULES AT DATE OF MANUFACTURE.

EMERGENCY POWER CUTOFF

TOKHEIM CORPORATION HAS DETERMINED THAT BECAUSE MORE THAN ONE DISCONNECT MAY BE REQUIRED, CONSOLES AND/OR DISPENSERS EQUIPPED WITH EMERGENCY STOP SWITCHES DO NOT GUARANTEE SHUTTING OFF ALL POWER TO THE DISPENSERS. IN ORDER TO PROVIDE THE HIGHEST LEVEL OF SAFETY TO YOU, YOUR EMPLOYEES AND CUSTOMERS, WE RECOMMEND THAT ALL EMPLOYEES BE TRAINED AS TO THE LOCATION AND PROCEDURE OF TURNING OFF POWER TO THE ENTIRE SYSTEM. THIS IS IN KEEPING WITH N.F.P.A. 30A, 1987 EDITION, CODE #4-1.2;

"A CLEARLY IDENTIFIED AND EASILY ACCESSIBLE SWITCH(ES) OR CIRCUIT BREAKER(S) SHALL BE PROVIDED AT A LOCATION REMOTE FROM DISPENSING DEVICES, INCLUDING REMOTE PUMPING SYSTEM, TO SHUT OFF THE POWER TO ALL DISPENSING DEVICES IN THE EVENT OF AN EMERGENCY."

DISCLAIMER

ALTHOUGH TOKHEIM CORPORATION, HAS ATTEMPTED TO COMPILE THE MATERIAL IN THIS MANUAL WITH ACCURACY, NEITHER IT, ITS' EMPLOYEES, NOR ITS' AGENTS CAN MAKE ANY WARRANTY OR REPRESENTATION, EXPRESSED OR IMPLIED, WITH RESPECT TO THE LIABILITY WITH REGARD TO THE USE OF THIS MATERIAL OR ASSUME ANY LIABILITY FOR DAMAGES RESULTING FROM THE USE OF ANY INFORMATION, APPARATUS, METHOD OR PROCEDURE DESCRIBED IN THIS MANUAL.

TOP ASSEMBLY NUMBER CROSS-REFERENCE

PART NUMBER

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Section One

Introduction and Ordering Information

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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 duplicated, 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, unit, or subassembly of the Model 785 Series Commercial Refueling Pumps listed on the front cover. 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.

Failure to install any model, unit, or system per Tokheim specifications, or if maintenance is performed by untrained personnel, may void the Tokheim Warranty.

Section Two

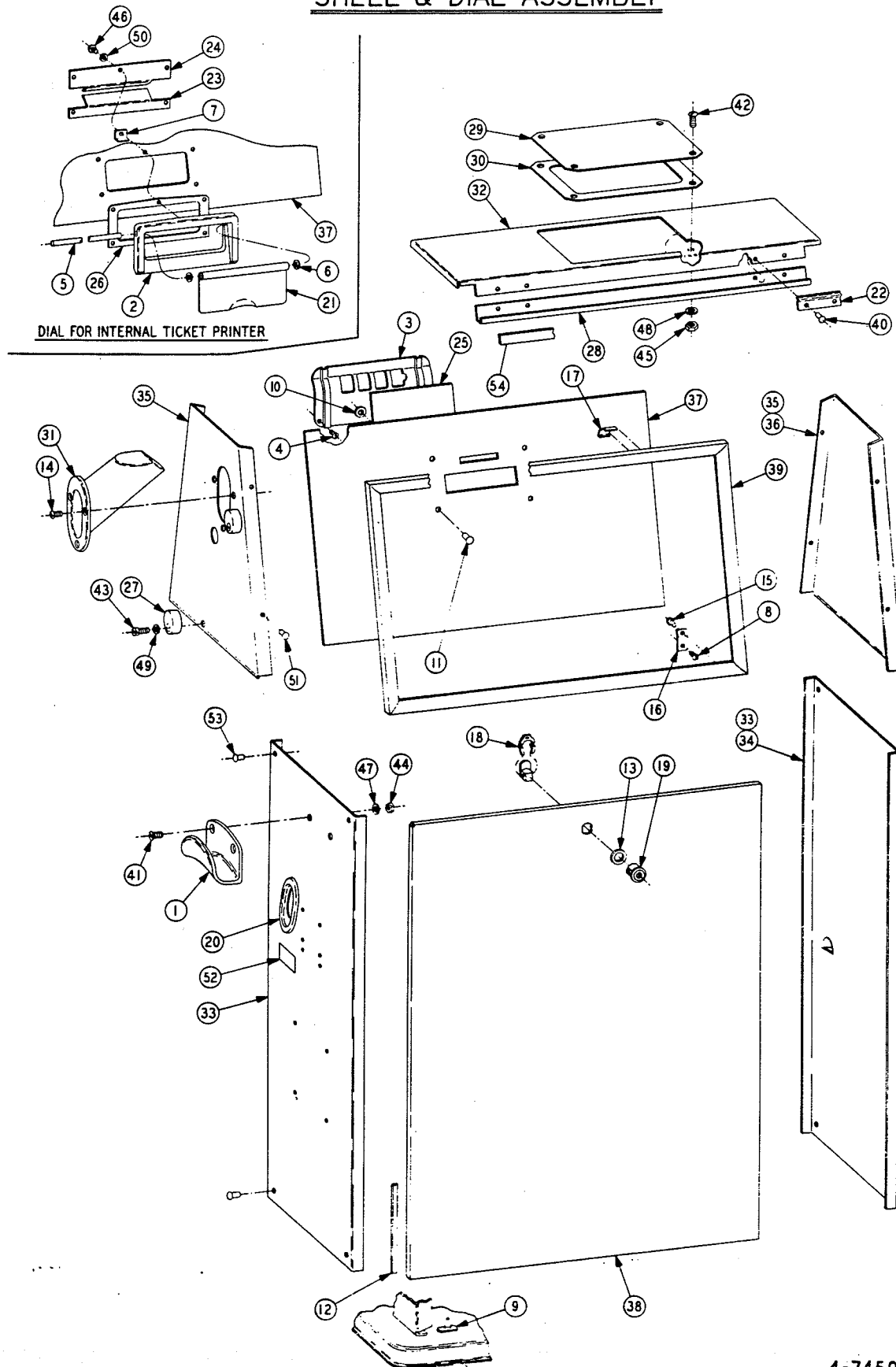
Parts Listing

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SHELL & DIAL ASSEMBLY



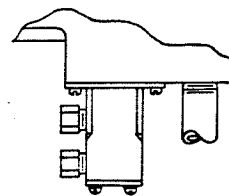
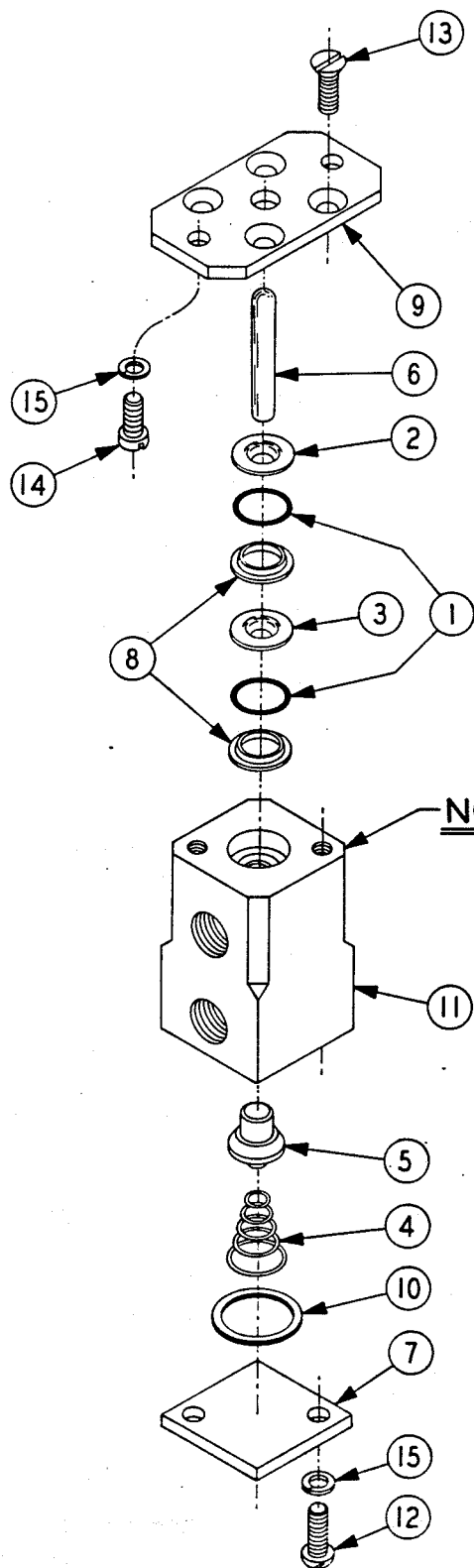
4-74595

SHELL & DIAL ASSEMBLY — 785 SERIES

Item	Part	Description	Item	Part	Description
No.	No.		No.	No.	
1	1-217835	HOSE SUPPORT HOOK	35	<u>END PANEL (STAINLESS STEEL)</u>	
2	1-39928	TICKET DOOR FRAME		1-413318	(LEFT SIDE - SINGLE)
3	1-39939	MASK			(LEFT & RIGHT SIDE - TWIN)
4	1-116071	DIAL SCREW	36	<u>END PANEL (PAINTED)</u>	
5	1-126069	HINGE PIN		2-413318	(RIGHT SIDE - TP - SINGLE)
6	1-126070	WASHER		4-413318	(RIGHT SIDE-SINGLE)
7	1-126074	DOOR SPRING		<u>END PANEL (STAINLESS STEEL)</u>	
8	3-126964	#8-32 X 3/8 LG TRUSS HD THRD CUTTING SCREW		7-413318	(RIGHT SIDE - SINGLE)
9	1-130796	GASKET	37	<u>DIAL W/GLASS</u>	
10	1-120965	WASHER		415930-3	(FRONT) (U.S. MEASURE)
11	1-131006	POP RIVET		415930-4	(REAR) (U.S. MEASURE)
12	6-224714	CUSHION (30-1/2 LG)		415930-5	(T.P.- FRONT) (U.S. MEAS.)
13	1-127656	LOCK GASKET		415930-13	(TWIN - FRONT & REAR) (U.S. MEAS.)
14	1-127967	#12-24 X 1/2 LG OVAL HD THRD CUTTING SCREW		415930-14	(FRONT) (LITRE MEAS.)
15	1-128281	POP RIVET		415930-15	(REAR) (LITRE MEAS.)
16	1-131018	DIAL RETAINER		415930-16	(HV - FRONT) (U.S. MEAS.)
17	1-226680	SPRING CLIP		415930-17	(HV - REAR) (U.S. MEAS.)
18	3-217160	SPRING CLIP		415930-18	(HV - FRONT) (LITRE MEAS.)
19	1-219147	DOOR LOCK		415930-19	(HV - REAR) (LITRE MEAS.)
20	1-219341	HOSE GROMMET		<u>FOR COMPLETE DIAL ASSEMBLY:</u>	
	1-227249	HOSE GROMMET (MODEL 785-HV)		415930-1	(FRONT) (U.S. MEASURE)
21	1-219493	TICKET DOOR		415930-2	(REAR) (U.S. MEASURE)
22	1-223658	SPRING CLIP		415930-6	(TWIN - FRONT & REAR) (U.S. MEAS.)
23	1-223707	BOTTOM TICKET GUIDE		415930-7	(FRONT) (LITRE MEAS.)
24	1-223708	TOP TICKET GUIDE		415930-8	(REAR) (LITRE MEAS.)
25	1-226451	DIAL GLASS		415930-9	(HV - FRONT) (U.S. MEAS.)
26	1-223716	GASKET		415930-10	(HV - REAR) (U.S. MEAS.)
27	1-224134	POSITIVE STOP		415930-11	(HV - FRONT) (LITRE MEAS.)
28	1-224176	DEFLECTOR		415930-12	(HV - REAR) (LITRE MEAS.)
29	1-310307	COVER PLATE		415930-20	(FRONT) (STAINLESS STEEL)
	2-310307	COVER PLATE (STAINLESS STEEL)		415930-21	(REAR) (STAINLESS STEEL)
30	1-310308	GASKET		415930-22	(TWIN) (STAINLESS STEEL)
31	2-411175	NOZZLE GUIDE	38	<u>FRONT & REAR DOOR</u>	
32	<u>DOME COVER</u>			1-413322	(PAINTED)
	1-413304	(PAINTED) (MODEL 785)		6-413322	(STAINLESS STEEL)
	2-413304	(PAINTED) (785-E)	39	1-315828	DIAL FRAME
	5-413304	(PAINTED) (785-TWIN)	40	1-129159	POP RIVET
	1-416747	(STAINLESS STEEL) (785)	41	1-114401	#12-24 X 1/2 LG SPECIAL SCREW
	2-416747	(STAINLESS STEEL) (785-E)	42	397-50034	1/4-20 X 5/8 LG TRUSS HD MCH SCREW
	5-416747	(STAINLESS STEEL) (785-TWIN)	43	49-52751	5/16-18 X 3/4 LG SOCKET HD CAP SCREW
33	<u>SIDE HOUSING (PAINTED)</u>		44	06-50211	#12-24 HEX MACH NUT
	2-413693	(LEFT SIDE - SINGLE)	45	01-50301	1/4-20 HEX NUT
		(LEFT & RIGHT SIDE - TWIN)	46	44-50451	#10-32 X 3/8 LG RD HD THRD CUTTING SCREW
	5-413693	(LEFT SIDE - HV)	47	06-50761	#1112 LOCKWASHER
	7-413693	(LEFT SIDE - HV)	48	13-50641	1/4 LOCKWASHER
	8-413693	(LEFT SIDE-785M-HVR-LC-RC)	49	08-50761	#1118 LOCKWASHER
	<u>SIDE HOUSING (STAINLESS STEEL)</u>		50	23-50761	#10 LOCKWASHER
	2-416746	(LEFT SIDE-SINGLE)	51	1-129166	POP RIVET
		(LEFT & RIGHT SIDE - TWIN)	52	1-226268	DECAL (HOSE WARNING)
	5-416746	(LEFT SIDE - HV)	53	1-127806	POP RIVET
34	<u>SIDE HOUSING (PAINTED)</u>		54	5-224714	CUSHION
	1-413693	(RIGHT SIDE - SINGLE)			
	<u>SIDE HOUSING (STAINLESS STEEL)</u>				
	1-416746	(RIGHT SIDE - SINGLE)			

4-74595

PILOT VALVE ASSEMBLY



ORDER 313647-1 FOR
PILOT VALVE ASSEMBLY

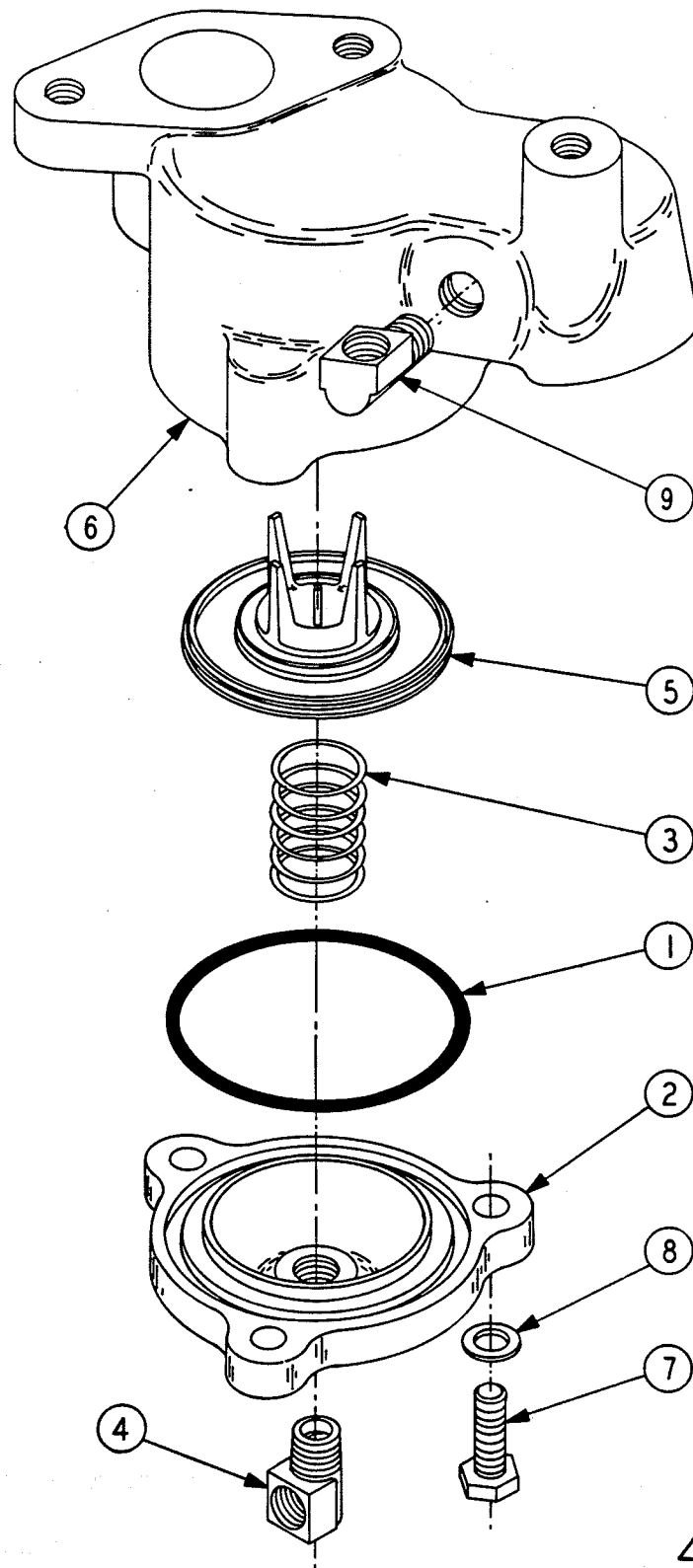
NOTE-PILOT VALVE BODY
& VALVE FLANGE MUST BE
ASSEMBLED AS SHOWN.

2-73217

PILOT VALVE ASSEMBLY

<u>Item No.</u>	<u>Part No.</u>	<u>Description</u>
1	6-38210	"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	134-311105	GASKET
11	1-313629	PILOT VALVE BODY
12	174-50001	#8-32 X 1/2 LG RD HD MACH SCREW
13	176-50011	#8-32 X 5/8 LG FLAT HD MACH SCREW
14	57-50181	#8-32 X 3/8 LG FIL HD MACH SCREW
15	08-50641	#8 LOCKWASHER
2-73217		
2-73217		

HYDRAULIC CONTROL VALVE ASSEMBLY



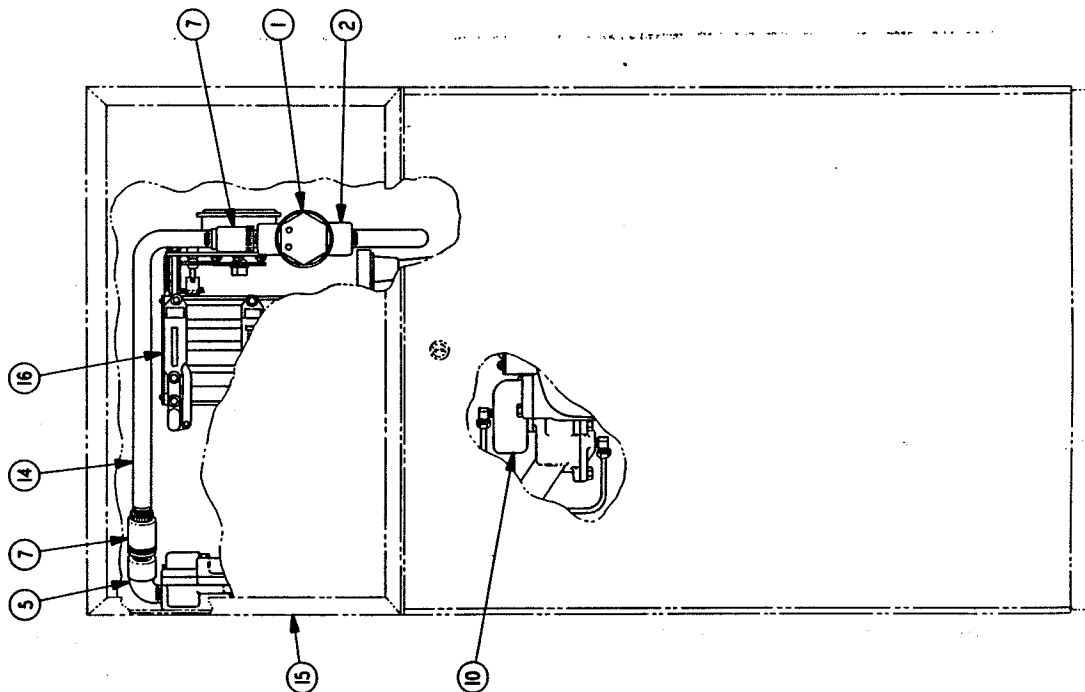
4-73218

PILOT VALVE ASSEMBLY

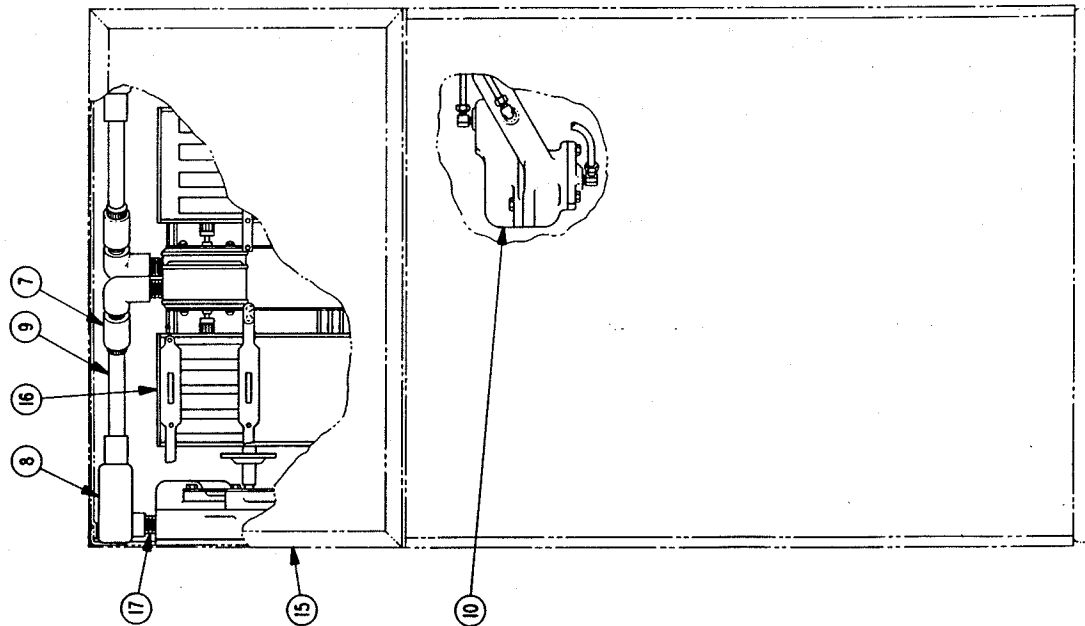
<u>Item No.</u>	<u>Part No.</u>	<u>Description</u>
1	3-313235	GASKET
2	1-39023	VALVE COVER
3	1-124454	POPPET SPRING
4	1-125637	MALE ELBOW (1/4 TUBE)
5	218750-1	HYDRAULIC POPPET ASSY
6	228101-2	3/4" VALVE BODY ASSY (785-2-TWIN-APC ONLY)
	228101-5	1" VALVE BODY ASSEMBLY
7	04-50361	1/4-20 X 7/8 LG HEX HD CAP SCREW
8	13-50641	1/4 LOCKWASHER
9	1-128433	MALE ELBOW (5/16 TUBE)
		ORDER 311932-7 FOR COMPLETE HYDRAULIC CONTROL VALVE ASSEMBLY
		4-73218

4-73218

GENERAL ASSEMBLY MODEL 785-APC

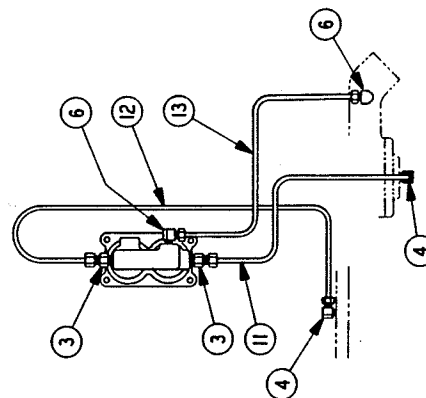


SINGLE



TWIN

2-741129

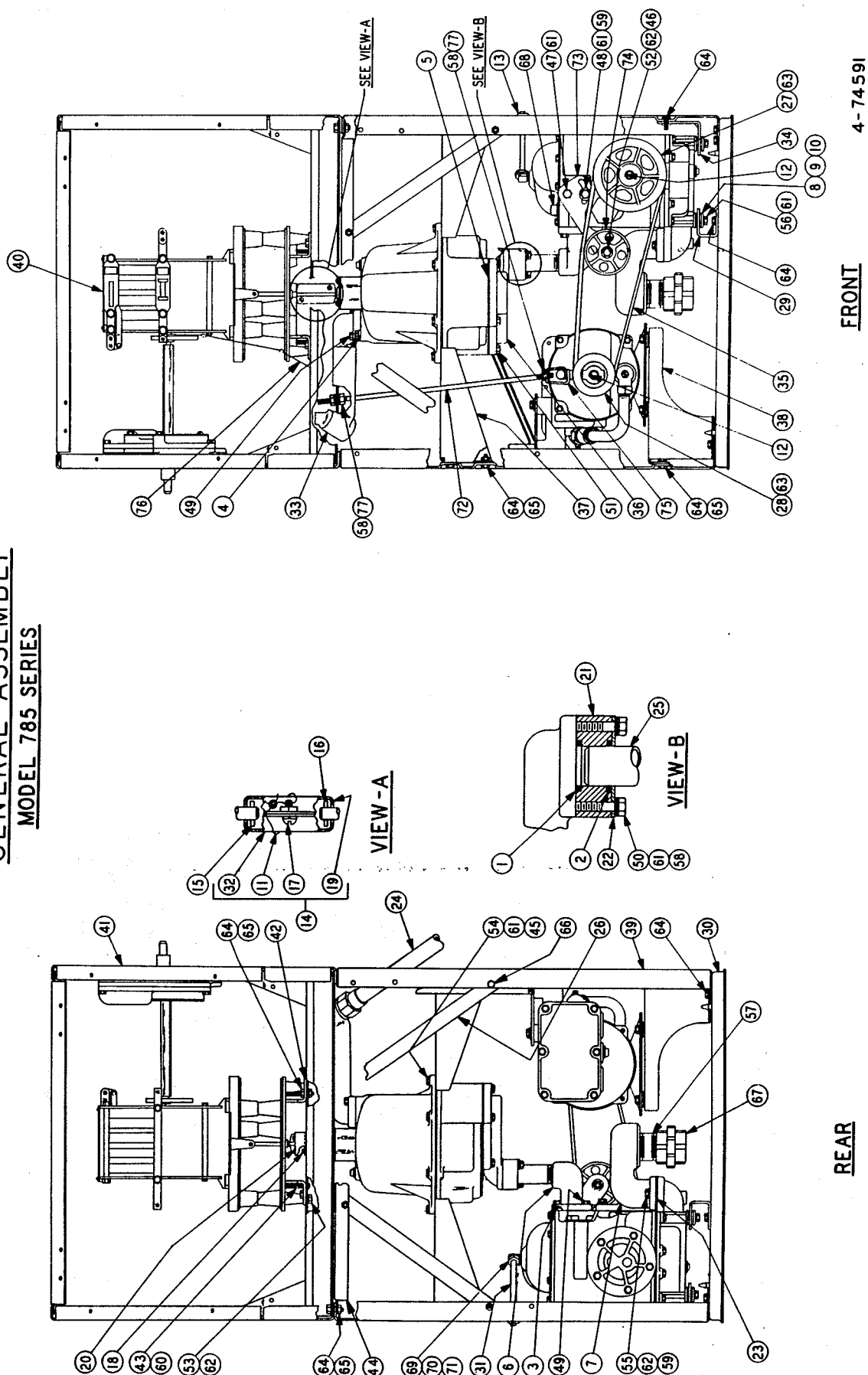


SCHEMATIC VIEW SHOWING HYDRAULIC & PILOT VALVE TUBE CONNECTIONS

MODEL 785-APC HYDRAULICS

<u>Item No.</u>	<u>Part No.</u>	<u>Description</u>
1	1-19167	CONNECTION BOX COVER
2	3-22133	CONNECTION BOX
3	1-125636	MALE CONNECTOR
4	1-125637	MALE ELBOW (1/4 TUBE)
5	1-128035	CONDUIT ST ELBOW
6	1-128433	MALE ELBOW (5/16 TUBE)
7	1-218941	EXPANSION UNION (MALE-FEMALE)
8	1-226988	SPLICE BOX
9	1-227282	CONDUIT
10	METER DISCHARGE CONNECTOR	
	2-312006	(785-SINGLE)
	2-312007	(785-1-TWIN & 785-1 & 2-RC-TWIN)
	1-312503	(785-2-TWIN)
11	PILOT VALVE TUBE ASSY (INLET)	
	312049-59	(785 SERIES)
	312049-72	(785-2-TWIN ONLY)
	316215-14	(785-HV ONLY)
12	PILOT VALVE TUBE ASSY (INLET)	
	312049-71	(785 SERIES)
	312049-73	(785-2-TWIN ONLY)
	316215-13	(785-HV ONLY)
13	OUTLET TUBE ASSY	
	313354-3	(785 SERIES)
	313354-4	(785-2-TWIN ONLY)
	313354-17	(785-HV ONLY)
14	1-313605	CONDUIT
15	1-313813	DECAL (ON & OFF)
16	NON-COMPUTER (4 WHEEL)	
	2-412185	(785-TWIN)
	4-412185	(785-SINGLE)
17	01-50710	CONDUIT NIPPLE (CLOSE)

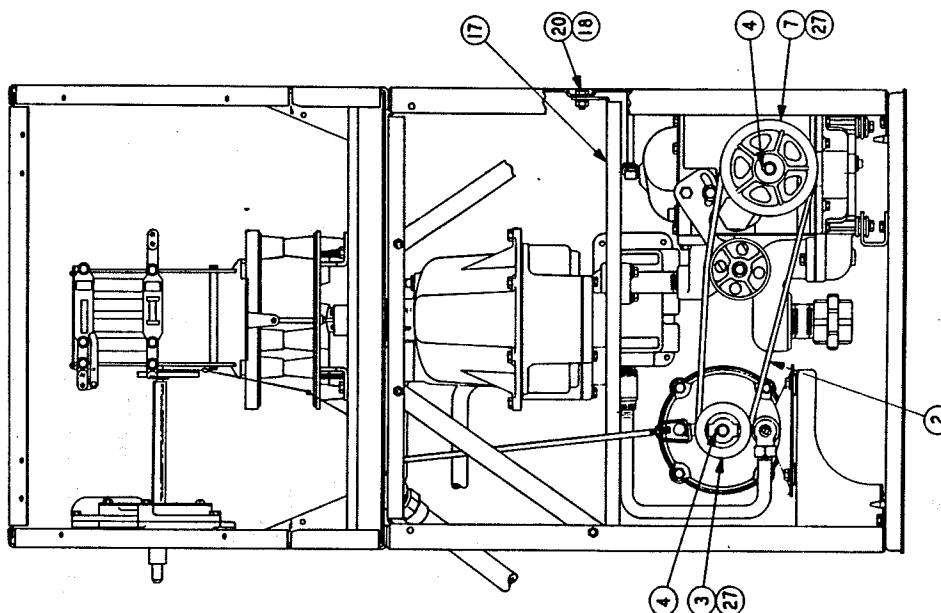
GENERAL ASSEMBLY
MODEL 785 SERIES



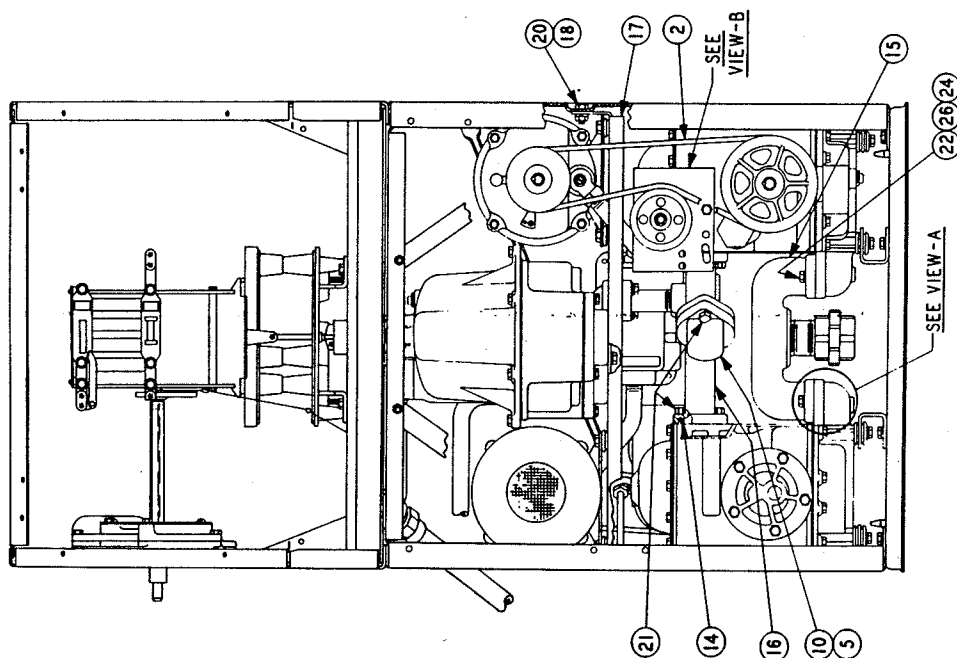
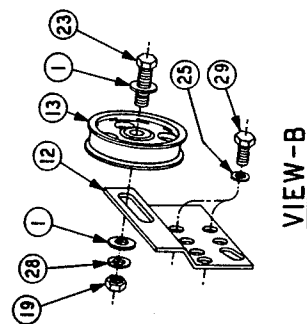
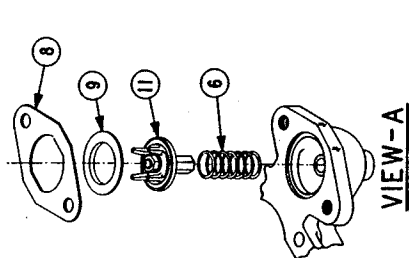
MODEL 785 SUCTION SERIES

Item Part		Item Part		Item Part	
No.	Description	No.	Description	No.	Description
1	23-311105 GASKET	31	2-224150 VENT TUBE	53	79-50361 3/8-24 X 5/8 LG HEX HD CAP
2	31-37106 "O" RING	32	1-226266 COUPLING	54	296-50361 5/16-18 X 1-1/8 LG HEX HD CAP
3	137-311105 GASKET	33	1-213206 COUPLING (785-TP)	55	297-50361 3/8-16 X 1-1/8 LG HEX HD CAP
4	48-37106 "O" RING	34	2-311999 HOSE ADAPTER	56	36-50361 5/16-18 X 1-1/4 LG HEX HD CAP
5	1-38082 METER TRANSFER BODY	35	1-312034 PUMP SUPPORT BRACKET	57	269-50510 1-1/2 X 2-1/4 LG PIPE NIPPLE
6	1-38401 GASKET	36	15-37852 "V" BELT	58	02-50611 1/4 PLATEWASHER
7	1-38403 ROTARY PUMP DISCHARGE CONNECTION	37	2-406857 METER TRANSFER BODY	59	03-50611 5/16 PLATEWASHER
8	1-11468 PUMP INLET CONNECTION	38	1-411234 METER SUPPORT	60	10-50641 #10 LOCKWASHER
9	1-11469 CUSHION GROMMET	39	2-411235 MOTOR SUPPORT	61	14-50641 5/16 LOCKWASHER
10	1-11470 CUSHION WASHER	40	2-411238 SIDE FRAME	62	15-50641 3/8 LOCKWASHER
11	1-118849 CUSHION RETAINER	41	NON-COMPUTER	63	65-50721 5/16-18 X 1/4 LG HEX SOC HD
12	1-119636 SEAL WIRE & SEAL (8" LG) KEY	42	2-412184 (4 WHEEL - MODEL 785)	64	35-54742 5/16-18 X 5/8 LG M-F HEX HD
13	1-127786 GROMMET	43	2-412185 (4 WHEEL - MODEL 785-PR)	65	02-54752 5/16-18 M-F FLANGE WHIZ-LOCK NUT
14	226269-1 COUPLING KIT	44	408098-5 INTERLOCK ASSY	66	11-51491 5/16 X 1/2 LG HEX HD SELF-TAPPING SCREW
15	1-120826 3/32 GROOV-PIN	45	1-415168 (MODEL 785-E SERIES)	67	27-51780 1-1/2 FEMALE UNION
16	1-120827 PIN	46	41 COMPARTMENT WELD ASSEMBLY	68	06-51901 1" PIPE PLUG
17	1-130951 SEAL SCREW	47	413328-1 (MODEL 785 & 785-PR)	69	05-52020 COMPRESSION ELBOW
18	2-126964 #10-32 X 3/8 LG TRUSS HD THIRD CUTTING SCREW	48	413328-2 (MODEL 785-TP & 785-TP-PR)	70	05-52040 COMPRESSION SLEEVE
19	226267-1 COUPLING WELD ASSEMBLY	49	413328-3 (MODEL 785-E SERIES)	71	14-52040 COMPRESSION NUT
20	1-129310 LOCK BRACKET	50	2-413469 COMPUTER SUPPORT	72	1-230178 MOTOR SUPPORT ROD
21	1-224019 COUPLING	51	43 268-50001 #10-24 X 1-3/4 LG RD HD MACH SCREW	73	1-217903 IDLER ARM
22	1-129618 FLANGE	52	2-311998 COLUMN TOP SUPPORT (SERIAL NO. 123-785-34214 & ABOVE)	74	1-221668 IDLER PULLEY
23	1-217902 PUMP INLET CONNECTION GASKET	53	02-50301 5/16-18 HEX NUT	75	125369-1 CLAMP ASSEMBLY
24	001-547812-00 1" X 12'-0 LG HOSE	54	03-50301 3/8-16 HEX NUT	76	1-130799 SHUTTER WIRE
25	2-220383 COUPLING NIPPLE	55	32-50361 5/16-18 X 5/8 LG HEX HD CAP SCREW	77	01-50301 1/4-20 HEX NUT
26	COLUMN BRACE	56	33-50361 5/16-18 X 3/4 LG HEX HD CAP SCREW		
	1-221333 (SERIAL NO. 123-785-34213 & BELOW)	57	35-50361 5/16-18 X 1" LG HEX HD CAP SCREW		
	1-221906 (SERIAL NO. 123-785-34214 & ABOVE)	58	38-50361 5/16-18 X 1-3/4 LG HEX HD CAP SCREW		
27	2-221338 PUMP PULLEY	59	66-50361 3/8-16 X 1-1/4 LG HEX HD CAP SCREW		
28	2-221339 MOTOR PULLEY	60	67-50361 3/8-16 X 1-1/2 LG HEX HD CAP SCREW		
29	1-221821 PUMP SUPPORT				
30	4-411263 BASE				

GENERAL ASSEMBLY



MODEL 785-MC



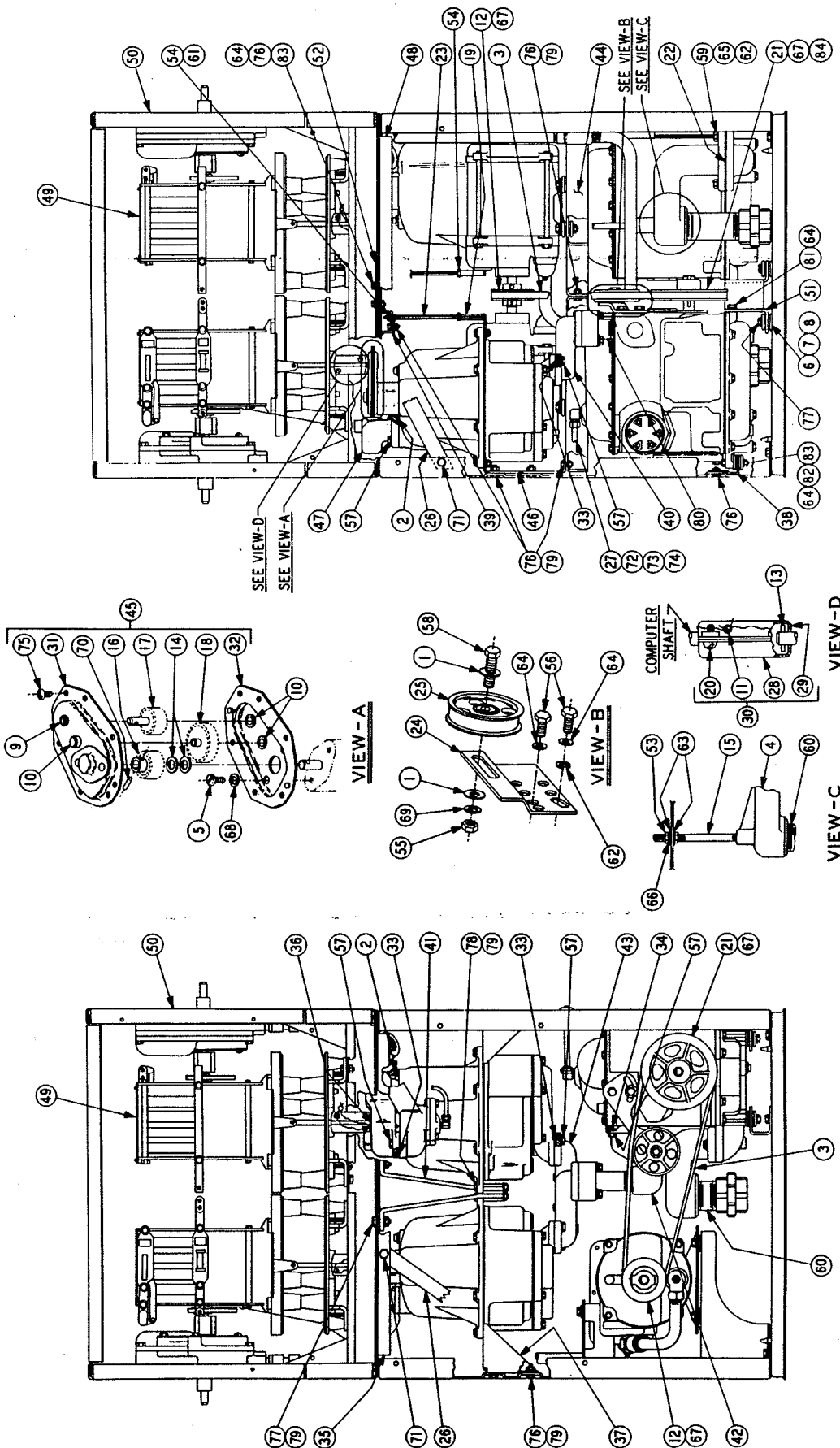
MODEL 785-HC

4-74593

MODEL 785 MEDIUM AND HIGH CAPACITY SUCTION SERIES

Item No.	Part No.	Description
1	2-13867	WASHER
2	14-37852	"V" BELT (MODEL 785-HC)
3	15-37852	"V" BELT (MODEL 785-MC)
4	1-226832	MOTOR PULLEY
5	1-119636	KEY
6	1-125619	GASKET
7	1-125630	COMPRESSION SPRING
8	1-216295	PUMP PULLEY
9	1-217902	PUMP INLET CONNECTION GASKET
10	1-218897	VALVE SEAT
11	1-218914	COVER
12	220300-1	POPPET DISC ASSEMBLY
13	1-220849	IDLER ARM
14	1-221668	IDLER PULLEY
15	137-311105	GASKET
16	2-407747	PUMP INLET CONNECTION
17	1-407757	PUMP DISCHARGE CONNECTOR
18	1-411188	METER & MOTOR MOUNTING PLATE
19	02-54752	5/16-18 M-F FLANGE WHIZ-LOCK NUT
20	03-50301	3/8-16 HEX NUT
21	35-54742	5/16-18 X 5/8 LG M-F HEX HD WHIZ-LOCK SCREW
22	35-50361	5/16-18 X 1" LG HEX HD CAP SCREW
23	297-50361	3/8-16 X 1-1/8 LG HEX HD CAP SCREW
24	67-50361	3/8-16 X 1-1/2 LG HEX HD CAP SCREW
25	03-50611	5/16 PLATEWASHER
26	14-50641	5/16 LOCKWASHER
27	15-50641	3/8 LOCKWASHER
28	65-50721	5/16-18 X 1/4 LG HEX SOCK HD CUP PT SET SCR
29	27-50761	#1220 LOCKWASHER
	32-50361	5/16-18 X 5/8 LG HEX HD CAP SCREW

GENERAL ASSEMBLY



MODEL 785-1-TWIN

MODEL 785-2-TWIN

3-741122

3-741122

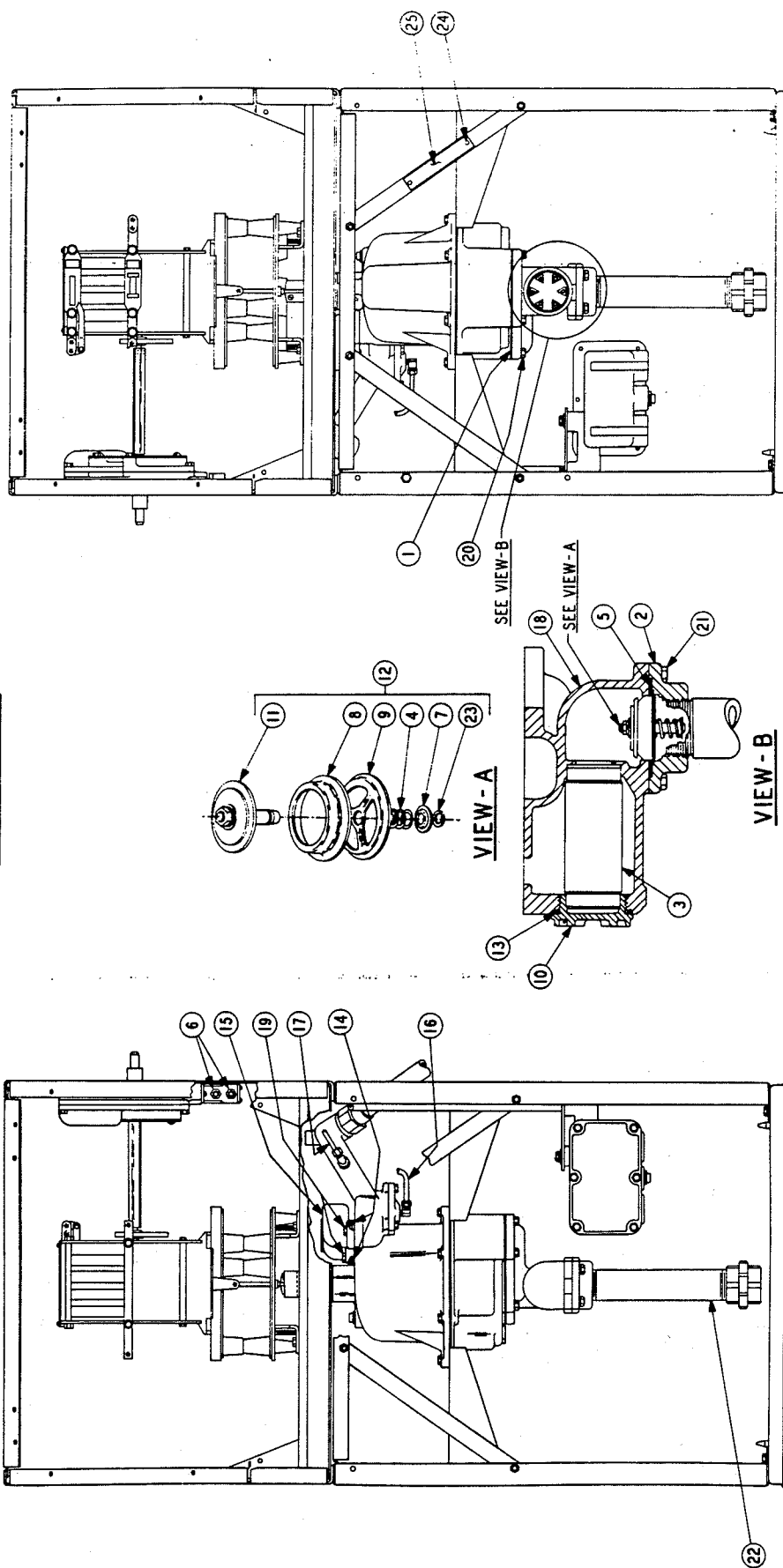
1 of 1

MODEL 785 1&2 PRODUCT SUCTION TWIN

Item Part			Item Part			Item Part		
No.	No.	Description	No.	No.	Description	No.	No.	Description
1	2-13867	WASHER	32	311074-19	GEAR BOX PLATE ASSY (LOWER)	61	01-50611	3/16 PLATEWASHER
2	48-37106	"O" RING	33	136-311105	GASKET	62	03-50611	5/16 PLATEWASHER
3	10-37852	"V" BELT (785-2-TWIN)	34	137-311105	GASKET	63	06-50611	1/2 PLATEWASHER
4	15-37872	"V" BELT (785-1-TWIN)	35	2-311998	COLUMN TOP SUPPORT	64	14-50641	5/16 LOCKWASHER
5	1-38510	PUMP INLET CONNECTION	36	1-312007	METER DISCHARGE CONNECTOR	65	15-50641	3/8 LOCKWASHER
6	1-114401	#12-24 SPECIAL SCREW	37	1-312008	METER SUPPORT	66	17-50641	1/2 LOCKWASHER
7	1-114468	CUSHION GROMMET	38	1-312036	PUMP SUPPORT	67	65-50721	5/16-18 X 1/4 LG HEX SOCKET
8	1-114469	CUSHION WASHER	39	1-312058	METER MOUNTING BRACKET			HD CUP PT SET SCREW
9	1-114470	CUSHION RETAINER	40	1-312061	MANIFOLD	68	24-50761	#1212 LOCKWASHER
10	1-117885	GEAR BOX BUSHING	41	315582-2	METER MOUNTING BRACKET	69	27-50761	#1220 LOCKWASHER
11	1-117901	GEAR BOX BUSHING	42	1-407225	WELD ASSEMBLY	70	40-51221	1/8 X 1/2 LG GROOV-PIN
12	1-118849	SEAL WIRE & SEAL - 8" LG	43	1-407233	ROTARY PUMP DISCHARGE	71	11-51491	5/16 X 1/2 LG HEX HD SELF-TAPPING SCREW
		MOTOR PULLEY	44	2-407915	CONNECTOR	72	05-52020	COMPRESSION ELBOW
	1-119529	(785-1-TWIN)	45	410058-10	TRANSFER BODY MANIFOLD	73	05-52040	COMPRESSION SLEEVE
	2-221339	(785-2-TWIN)	46	1-411187	MOTOR & CONNECTION BOX	74	14-52040	COMPRESSION NUT
13	1-120827	PIN	47	2-411204	SUPPORT	75	23-52721	#10-24X3/8 LG SEMS FASTENER UNIT
14	1-12316	WASHER	48	411254-2	GEAR TRAIN ASSEMBLY	76	35-54742	5/16-18 X 5/8 LG M-F HEX HD WHIZ-LOCK SCREW
15	1-124981	SUCTION SUPPORT STUD	49	2-412185	METER & MOTOR MOUNTING BRACKET	77	38-54742	5/16-18 X 1" LG M-F HEX HD WHIZ-LOCK SCREW
16	1-125138	METER PINION	50	413328-6	HOSE ADAPTER	78	43-54742	5/16-18 X 2" LG M-F HEX HD WHIZ-LOCK SCREW
17	125148-1	COMPUTER DRIVE GEAR ASSY	51	1-413442	COLUMN TOP PLATE WELD ASSY	79	02-54752	5/16-18 M-F FLANGE WHIZ-LOCK NUT
18	125149-1	IDLER GEAR ASSEMBLY	52	1-227164	NON-COMPUTER (4 WHEEL)	80	4-220383	COUPLING NIPPLE
19	125369-1	CLAMP ASSEMBLY	53	05-50271	COMPARTMENT WELDING ASSY	81	33-50361	5/16-18 X 3/4 LG HEX HD CAP SCREW
20	1-130951	SEAL SCREW	54	01-50301	PUMP SUPPORT	82	38-50361	5/16-18 X 1-3/4 LG HEX HD CAP SCREW
21	PUMP PULLEY		55	03-50301	SPACER	83	02-50301	5/16-18 HEX NUT
	1-216295	(785-1-TWIN)	56	32-50361	1/2-13 HEX JAM NUT	84	1-119636	KEY
	2-221338	(785-2-TWIN)	57	35-50361	1/4-20 HEX NUT			
22	1-217902	PUMP INLET CONNECTION	58	67-50361	3/8-16 HEX NUT			
		GASKET	59	297-50361	5/16-18 X 5/8 LG HEX HD CAP SCREW			
23	2-218591	MOTOR SUPPORT ROD	60	269-50510	5/16-18 X 1" LG HEX HD CAP SCREW			
24	1-220849	IDLER ARM			3/8-16 X 1-1/2 LG HEX HD CAP SCREW			
25	1-221668	IDLER PULLEY			SCREW			
26	1-221906	COLUMN BRACE			3/8-16 X 1-1/8 LG HEX HD CAP SCREW			
27	2-224156	VENT TUBE			SCREW			
28	2-226266	COUPLING HALF			1-1/2 X 2-1/4 LG PIPE			
29	226267-2	COUPLING WELD ASSEMBLY			(785-1-TWIN)			
30	226269-2	COUPLING KIT			1-1/2 X 4" LG PIPE NIPPLE			
31	311073-3	GEAR BOX PLATE ASSY (UPPER)			(785-2-TWIN)			

3-741122

GENERAL ASSEMBLY
MODEL 785-RC



4-74592

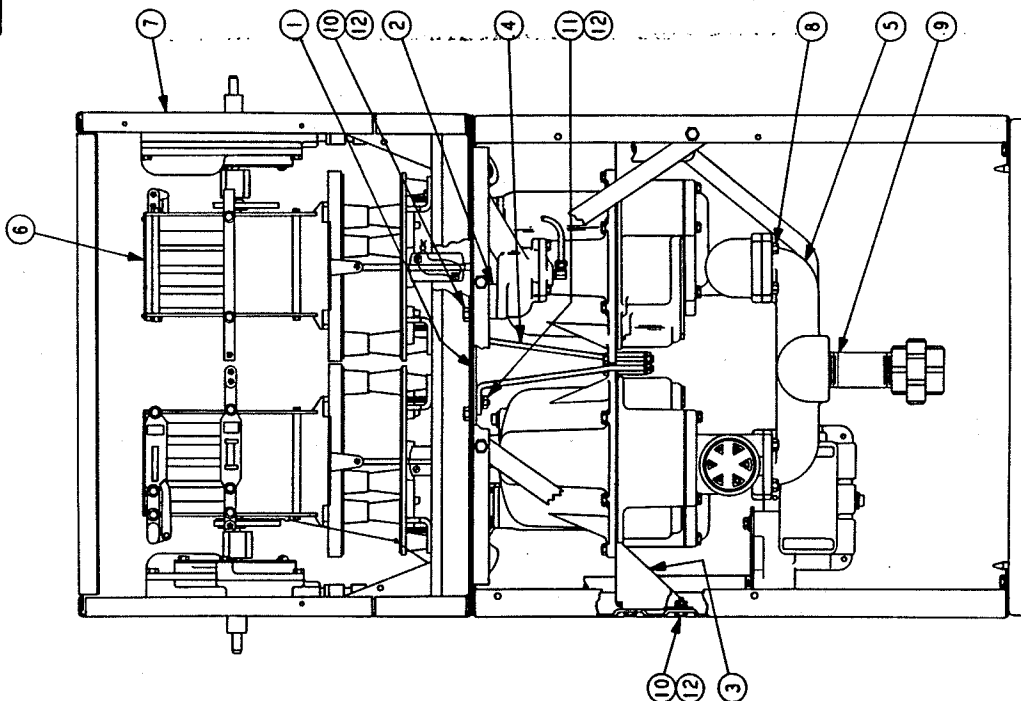
FRONT

REAR

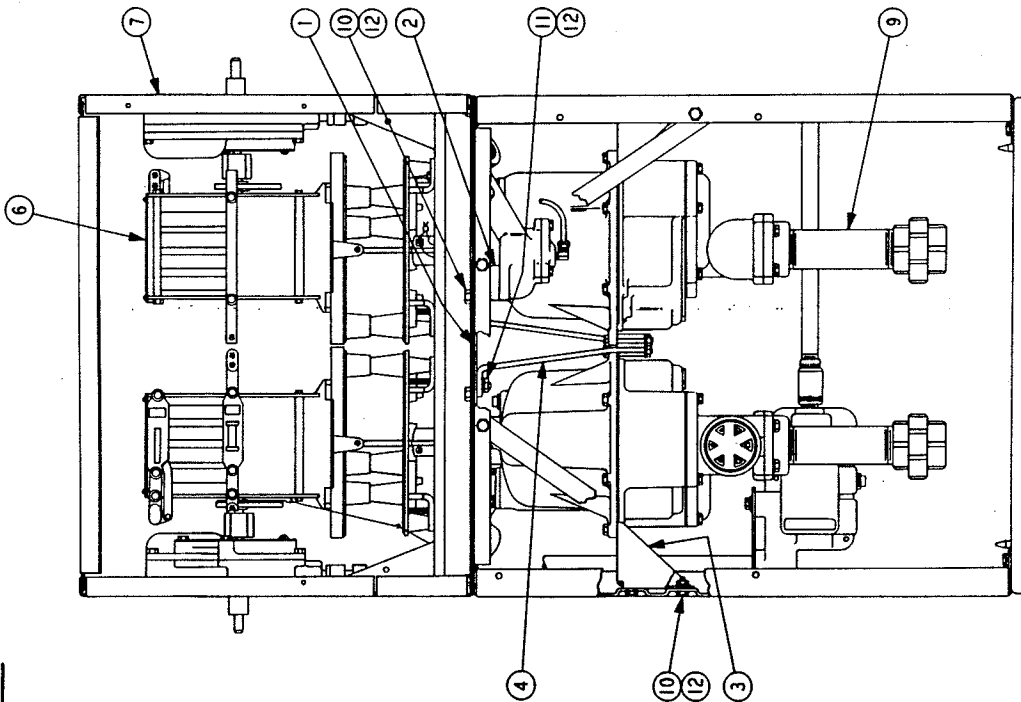
MODEL 785 REMOTE CONTROL SERIES

<u>Item No.</u>	<u>Part No.</u>	<u>Description</u>
1	1-38082	METER TRANSFER BODY GASKET
2	1-38101	VALVE HOUSING
3	1-115075	SUCTION SCREEN COMPLETE
4	1-121564	POPPET SPRING
5	1-124296	GASKET
6	1-125636	MALE CONNECTOR
7	1-126871	POPPET SPRING WASHER
8	2-212443	VALVE SEAT
9	1-212444	POPPET GUIDE
10	1-215030	SUCTION STRAINER CAP
11	216132-1	VALVE POPPET ASSEMBLY
12	216133-1	CHECK VALVE ASSEMBLY
13	127-311105	GASKET
14	136-311105	GASKET
15	1-312006	METER DISCHARGE CONNECTOR
16	312049-44	PILOT VALVE TUBE ASSEMBLY (INLET)
17	312049-45	PILOT VALVE TUBE ASSEMBLY (OUTLET)
18	2-406787	STRAINER BODY
19	35-50361	5/16-18 X 1" LG HEX HD CAP SCREW
20	66-50361	3/8-16 X 1-1/4 LG HEX HD CAP SCREW
21	296-50361	5/16-18 X 1-1/8 LG HEX HD CAP SCREW
22	127-50560	1-1/2 X 7" LG PIPE NIPPLE
23	08-53270	RELANCE SQ SNAP RING (CLOSED)
24	1-129159	POP RIVET
25	1-229482	WARNING PLATE

GENERAL ASSEMBLY



MODEL 785-1-RC-TWIN



MODEL 785-2-RC-TWIN

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3-741123

1 of 1

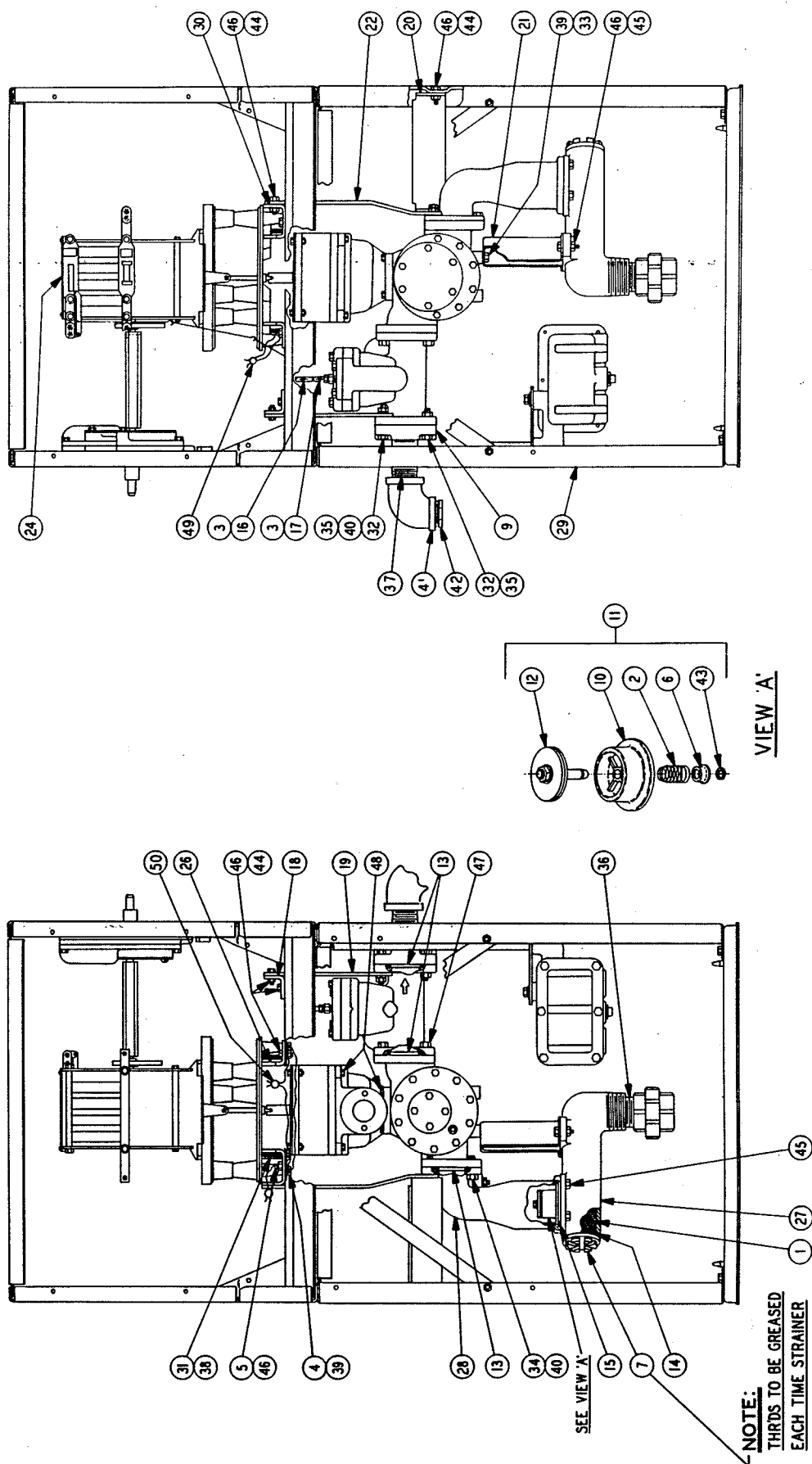
MODEL 785 1&2 PRODUCT, RC, TWIN

<u>Item No.</u>	<u>Part No.</u>	<u>Description</u>
1	1-227164	SPACER
2	1-312007	METER DISCHARGE CONNECTOR
3	1-312008	METER SUPPORT
4	315582-2	METER MOUNTING BRACKET WELD ASSEMBLY
5	2-407244	MANIFOLD
6	2-412185	NON-COMPUTER (4 WHEEL)
7	413328-6	COMPARTMENT WELDING ASSY
8	296-50361	3/8-16 X 1-1/8 LG HEX HD CAP SCREW
9	271-50510	1-1/2 X 4-13/16 LG PIPE (785-1-RC-TWIN)
10	127-50560	1-1/2 X 7" LG PIPE NIPPLE (785-2-RC-TWIN)
11	35-54742	5/16-18 X 5/8 LG M-F HEX HD WHIZ-LOCK SCREW
12	38-54742	5/16-18 X 1" LG M-F HEX HD WHIZ-LOCK SCREW
	02-54752	5/16-18 M-F FLANGE WHIZ-LOCK NUT

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GENERAL ASSEMBLY

MODEL 785 - HV - RC - PR

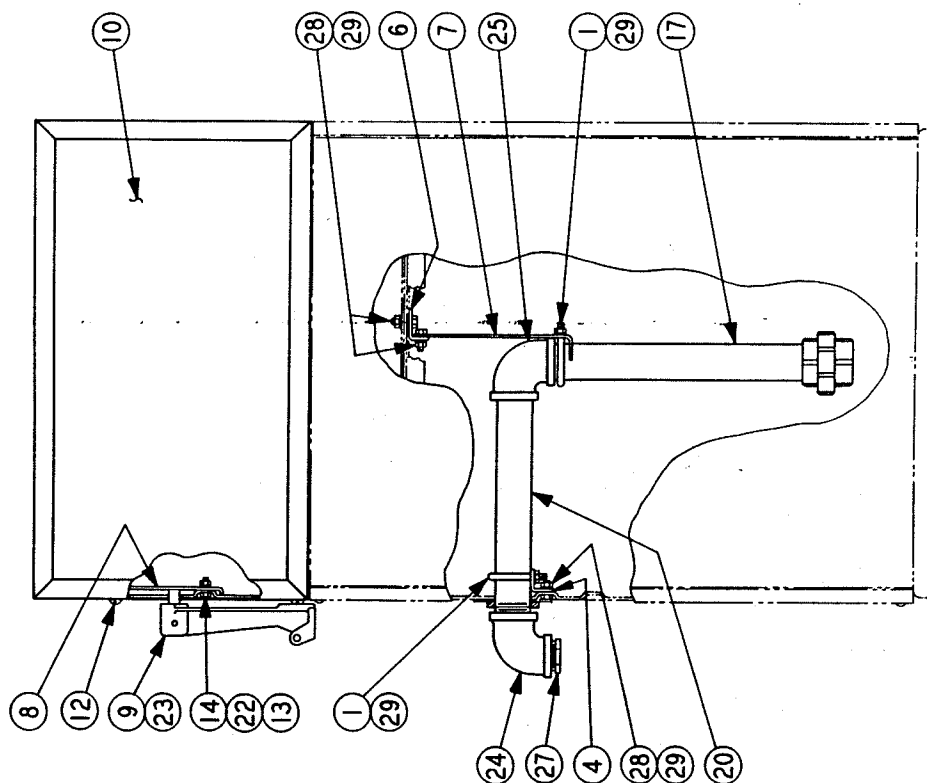


2-741127

MODEL 785 HIGH VOLUME, RC, POWER RESET

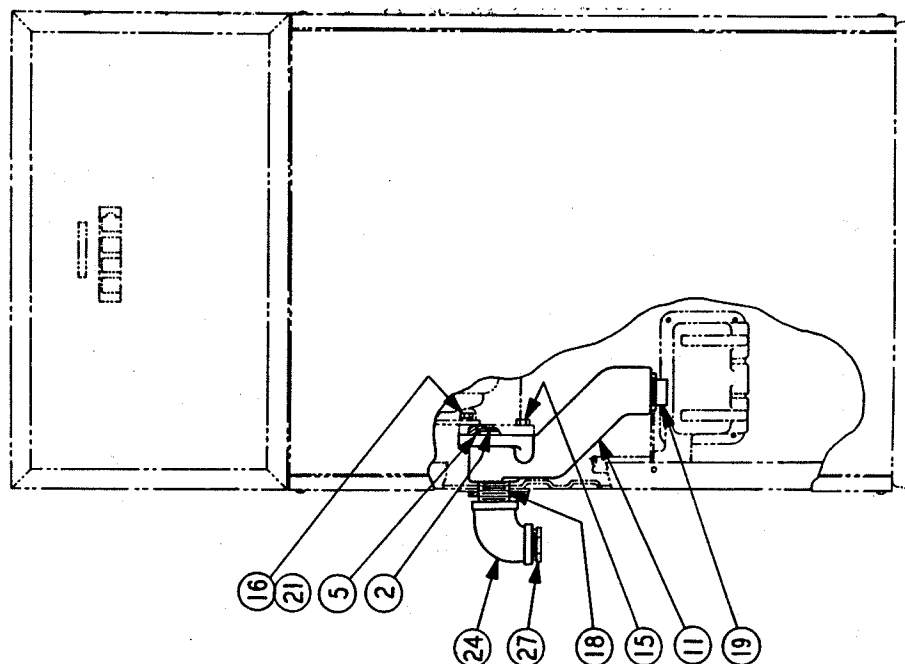
<u>Item Part</u>		<u>Item Part</u>	
<u>No.</u>	<u>No.</u>	<u>No.</u>	<u>No.</u>
<u>Description</u>	<u>Description</u>	<u>Description</u>	<u>Description</u>
1 2-115075 SUCTION SCREEN COMPLETE	29 1-416679 SIDE FRAME		
2 1-121564 POPPET SPRING	30 1-416717 COMPUTER SUPPORT		
3 1-125636 MALE CONNECTOR	31 268-50001 #10-24 X 1-3/4 LG RD HD MACH SCREW		
4 1-129545 SEAL SCREW	32 05-50301 1/2-13 HEX NUT		
5 1-130593 SEAL SCREW	33 62-50361 3/8-16 X 5/8 LG HEX HD CAP SCREW		
6 1-130758 POPPET SPRING RETAINER	34 129-50361 1/2-13 X 1-1/2 LG HEX HD CAP SCREW		
7 1-316957 SUCTION STRAINER CAP	35 131-50361 1/2 X 2" LG HEX HD CAP SCREW		
8 1-221333 COLUMN BRACE	36 269-50510 1-1/2 X 2-1/4 LG PIPE		
9 2-221447 COMPANION FLANGE	37 121-50561 1-1/2 X 3-1/2 LG PIPE		
10 1-225980 CHECK VALVE SEAT	38 10-50641 #10 LOCKWASHER		
11 225981-1 CHECK VALVE ASSEMBLY	39 15-50641 3/8 LOCKWASHER		
12 225981-2 POPPET ASSEMBLY	40 17-50641 1/2 LOCKWASHER		
13 28-311105 GASKET	41 15-51681 1-1/2 X 1-1/4 90 DEG REDUCING BUSHING		
14 2-313235 GASKET	42 16-51851 1-1/4 X 1" HEX BUSHING		
15 15-313235 GASKET	43 08-53270 RELIANCE SQ. SNAP RING (CLOSED)		
16 316215-11 PILOT VALVE TUBE ASSY (INLET)	44 35-54742 5/16-18 X 5/8 LG M-F HEX HD WHIZ-LOCK SCREW		
17 316215-12 PILOT VALVE TUBE ASSY (OUTLET)	45 38-54742 5/16-18 X 1" LG M-F HEX HD WHIZ-LOCK SCREW		
18 1-316353 VALVE SUPPORT	46 02-54752 5/16-18 M-F FLANGE WHIZ-LOCKNUT		
19 1-316354 VALVE HANGER	47 128-50361 1/2-13 X 1-1/4 LG HEX HD CAP SCREW		
20 1-316369 BRACE	48 1-127940 1/4-20 X 3/4 LG HEX HD SEAL SCREW		
21 1-316370 SUPPORT	49 1-118849 SEAL WIRE & SEAL (8" LG)		
22 1-316374 METER HANGER	50 1-124799 SEAL WIRE & SEAL (18" LG)		
24 NON-COMPUTER			
2-412185 (4 WHEEL) (U.S. MEASURE)			
6-412185 (4 WHEEL) (LITRE MEASURE)			
1-413469 COMPUTER SUPPORT			
1-415410 STRAINER BODY			
1-416660 INLET CONNECTOR			

GENERAL ASSEMBLY



MODEL 785HV-S-RC-PR

2-741186



MODEL 785HV-M-RC-PR

MODEL 785 HIGH VOLUME, MASTER AND SATELLITE, RC, POWER RESET

Item No.	Part No.	Description
1	1-131336	"U" NUT
2	1-131379	ORIFICE PLATE
4	1-227484	SUPPORT BRACKET
5	28-311105	GASKET
6	1-316525	SUPPORT
7	1-316579	INLET SUPPORT
8	316586-1	SUPPORT WELD ASSEMBLY
9	1-316587	CONTROL LEVER
10	DIAL ASSY (BLANK)	
	415930-27	(PAINTED)
	415930-28	(STAINLESS STEEL)
	FRONT DIAL (BLANK)	
	3-313419	(PAINTED)
	4-313419	(STAINLESS STEEL)
	1-416872	DISCHARGE CONNECTOR
11	462-50031	5/16-18 X 1/2 LG TRUSS HD MACH SCREW
12	01-50301	1/4-20 HEX NUT
13	01-50361	1/4-20 X 1/2 LG HEX HD CAP SCREW
14	127-50361	1/2-13 X 1" LG HEX HD CAP SCREW
15	128-50361	1/2-13 X 1-1/4 LG HEX HD CAP SCREW
16	284-50510	1-1/2 X 1/4" LG PIPE
17	117-50560	1-1/2 X 1-3/4 LG PIPE NIPPLE
18	08-51900	1-1/2 PIPE PLUG
19	132-50560	1-1/2 X 12" LG PIPE NIPPLE
20	17-50641	1/2 LOCKNUT
21	07-50761	#1114 LOCKWASHER
22	53-51221	5/32 X 1-1/4 LG GROOV-PIN
23	15-51681	1-1/2 X 1-1/4 90 DEG REDUCING ELBOW
24	08-51700	1-1/2 - 90 DEG ELBOW
25	16-51851	1-1/4 X 1" HEX BUSHING
27	35-54742	5/16-18 X 5/8 LG M-F HEX HD WHIZ -LOCK SCREW
28	02-54752	5/16-18 M-F FLANGE WHIZ-LOCK NUT
29		

This technical drawing illustrates the internal components of a mechanical assembly, possibly a pump or engine, shown in two perspectives: a top view on the left and a side view on the right. The assembly is housed within a rectangular frame. Key components include a central rotating shaft with multiple gears or impellers, a large cylindrical component on the right, and various support structures and fasteners. The drawing is extensively annotated with numbered callouts (1-36) identifying specific parts:

- Top View (Left):** Callouts 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36.
- Side View (Right):** Callouts 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36.

The drawing is a detailed line drawing, likely a technical specification for manufacturing or assembly.

**Model 785 Series Service Parts Manual
Version 1.0 Form 2146A
Tokheim Corporation March 1991**

1-741366

1 of 1

MODEL 785 HIGH VOLUME, MASTER, LIQUID CONTROL, RC

Item No.	Part No.	Description
1	1-125636	MALE CONNECTOR
2	04-50361	1/4-20 X 1 LG HEX HD CAP SCREW
3	2-221447	COMPANION FLANGE
4	7-313235	GASKET
5	316215-31	PILOT VALVE TUBE ASSY (INLET)
6	316215-32	PILOT VALVE TUBE ASSY (OUTLET)
7	1-318374	METER DUST SHIELD
8	1-318392	SIDE BRACE
9	1-318393	LOWER SUPPORT
10	1-318708	ADAPTER HANGER
11	1-318733	STRAINER SUPPORT
12	1-318735	METER HANGER
13	1-416717	COMPUTER SUPPORT
14	1-416878	METER INLET
15	1-419764	METER OUTLET
16	1-419902	LC METER
17	1-420178	INLET MANIFOLD
18	1-420233	METER ELBOW
19	03-50301	3/8-16 HEX NUT
20	05-50301	1/2-13 HEX NUT
21	06-50361	1/4-20 X 1-1/4 LG HEX HD CAP SCREW
22	63-50361	3/8-16 X 3/4 LG HEX HD CAP SCREW
23	65-50361	3/8-16 X 1" LG HEX HD CAP SCREW
24	129-50361	1/2-13 X 1-1/2 LG HEX HD CAP SCREW
25	130-50361	1/2-13 X 1-3/4 LG HEX HD CAP SCREW
26	222-50510	1-1/2 X 21" LG PIPE
27	278-50510	1-1/2 X 5-1/4 LG PIPE
28	119-50560	1-1/2 X 2-1/4 LG PIPE NIPPLE
29	269-50510	1-1/2 X 2-1/4 LG PIPE NIPPLE
30	04-50611	3/8 PLATEWASHER
31	15-50641	3/8 LOCKWASHER
32	08-51700	1-1/2 90 DEG ELBOW
33	35-54742	5/16-18 X 5/8 LG M-F HEX HD WHIZ LOCK SCREW
34	38-54742	5/16-18 X 1" LG M-F HEX HD WHIZ LOCK SCREW
35	02-54752	5/16-18 M-F WHIZ-LOCKNUT
36	04-54752	3/8-16 M-F WHIZ-LOCKNUT
38	1-227249	HOSE GROMMET
39	128-50361	1/2-13 X 1-1/4 LG HEX HD CAP SCREW

FOR ADDITIONAL PARTS
CALLOUT SEE DRAWINGS:

741127

74591

74592

73217

74595

1-741366

ORDER 407494-1 FOR METER COVER
ASSY LESS SEAL WIRE, ITEM 12 &
TORX DRIVE SCREW, ITEM 58

This diagram is an exploded view of a mechanical assembly, likely a pump or motor component. It shows the following parts and their assembly sequence:

- Top Section (Input/Drive):**
 - 68:** A horizontal shaft or drive line at the top.
 - 55:** A coupling or connector on the right end of the shaft.
 - 21, 20, 23:** A series of three circular components (possibly seals or gaskets) mounted on the shaft.
 - 39, 50, 49:** A bracket or housing assembly that encloses the shaft and seals.
 - 63:** A small component, possibly a pin or screw, located near the bracket.
- Middle Section (Main Body):**
 - 16:** A central housing or body with mounting flanges.
 - 44, 46:** Two circular components (possibly seals or gaskets) mounted on the housing.
 - 8:** A central shaft or pin passing through the housing.
 - 47:** A component mounted on the right side of the housing.
 - 61, 13:** Small components, possibly pins or screws, located near the right side of the housing.
 - 54, 67:** A spring and a pin/screw assembly located below the housing.
- Bottom Section (Output/Drive):**
 - 19:** A gear or coupling component at the bottom center.
 - 48:** A housing or bracket component above the gear.
 - 67, 57:** Two small components, possibly pins or screws, located near the housing.
 - 27:** A component, possibly a pin or screw, located to the left of the housing.
 - 51:** A component, possibly a pin or screw, located to the left of the housing.
 - 52:** A bracket or housing component to the left of the main body.

The diagram uses dashed lines to indicate the assembly path and alignment of the components.

MODEL 898-K POSITIVE DISPLACEMENT TYPE METER

Item Part		Description	
No.	No.		
1	1-19592	PACKING GLAND PLATE	
2	1-19602	SEAL PIN	
3	1-226085	INDEX PLATE	
4	1-19743	COMPENSATOR SCREW SPRING	
8	1-38083	METER BODY GASKET	
9	14-38210	"O" RING (.362 DIA)	
10	15-38210	"O" RING (.487 DIA)	
11	1-114815	DRIVE SHAFT	
12	1-118849	SEAL & SEAL WIRE - 6" LG	
13	1-119064	SPECIAL SCREW	
14	1-124144	DRIVE SHAFT PIN	
15	1-124588	1/2" BALL	
16	1-129607	COMPENSATOR PINION	
19	226479-1	PIVOT & BALL ASSEMBLY	
20	218769-1	PLUNGER CUP KIT (SET OF 3 CUPS)	
21	1-125069	PLUNGER CUP SUPPORT	
23	1-125071	PLUNGER DISC	
26	1-125095	WASHER	
27	1-125103	WASHER	
28	125118-1	UPPER BEARING ASSEMBLY	
29	125154-1	BEARING ASSEMBLY	
30	226096-1	METER COVER W/CENTER GEAR POST, INDEX PLATE, PIPE PLUG & RETAINING RING	
31	1-125243	COMPENSATOR INDEX DISC	
32	1-125308	SEAL HALF	
33	1-125309	SEAL WEDGE	
34	1-125315	WASHER	
35	1-126902	SEAL RETAINING RING	
36	1-125357	PACKING SPRING	
38	1-125360	SEAL	
39	1-125966	BEARING RETAINER	
40	1-126898	SEAL (BLACK)	
41	1-222081	DRIVE SHAFT GEAR	
42	1-224081	COMPENSATOR SHAFT	
44	218236-2	MAIN PIVOT BRACKET ASSY W/PINS	
45	1-222084	COUNTER DRIVE GEAR COMPLETE	
46	224709-5	BRACKET & PIN ASSEMBLY	
47	1-219330	VALVE	
48	219331-1	WOBBLE PLATE W/SLACK ROLLER POST	
49	1-219377	CONNECTOR	
50	1-219378	BEARING SEAT	
51	219800-1	SLACK ROLLER ASSEMBLY	
52	221403-1	SLACK SPRING ASSEMBLY	
53	326-50001	#12-24 X 1/2 LG RD HD MACH SCREW	
54	399-50001	1/4-20 X 3/4 LG RD HD MACH SCREW	
55	287-50001	#10-32 X 3/8 LG RD HD MACH SCREW	
56	02-50301	5/16-18 HEX NUT	
57	01-50301	1/4-20 HEX NUT	
58	1-130407	TORX DRIVE SCREW	
60	24-50761	#1212 LOCKWASHER	
61	42-50761	#1114 LOCKWASHER	
62	01-51911	1/8 SQ HD PIPE PLUG	
63	30-52721	#10-32 X 3/8 LG RD HD SEMS FASTENER	
64	13-52870	1/16 X 1/4 LG COTTER PIN	
65	10-52922	TRUARC RETAINING RING	
66	12-53420	TRUARC "E" RETAINING RING	
67	13-50641	1/4 LOCKWASHER	
68	80009	PLUNGER ASSY W/BEARING RETAINER, BEARING SEAT & SEMS FASTENER	
69	80010	BODY & SEAT ASSEMBLY WITH PINS	
70	125420-1	METER DRIVE SHAFT PACKING KIT	
71	125478-1	COMPENSATOR SHAFT SEAL KIT	
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