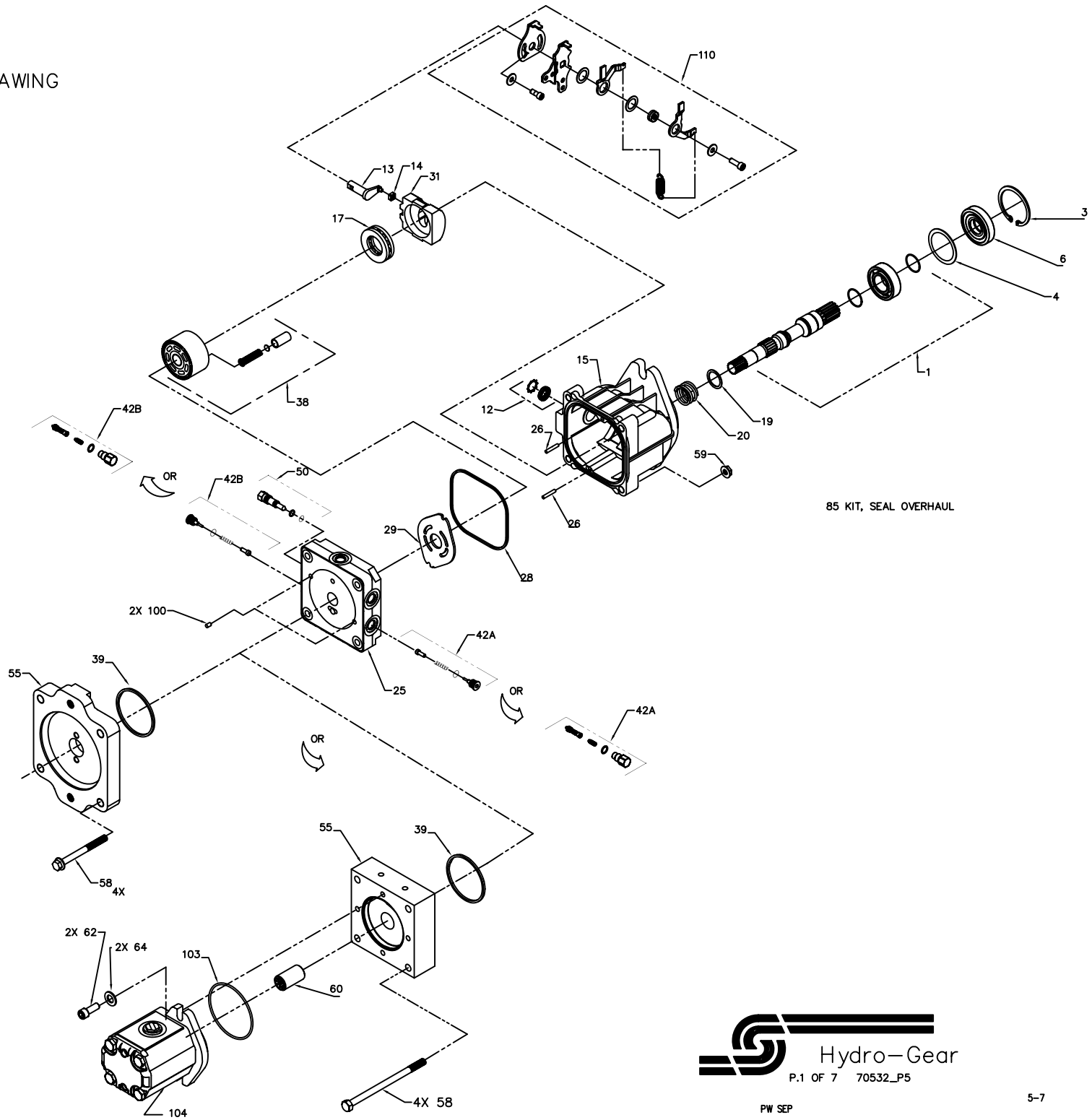
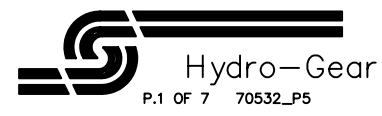


TANDEM SERVICE DRAWING INPUT PUMP

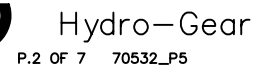


GEAR PUMP OPTION A



PW SEP

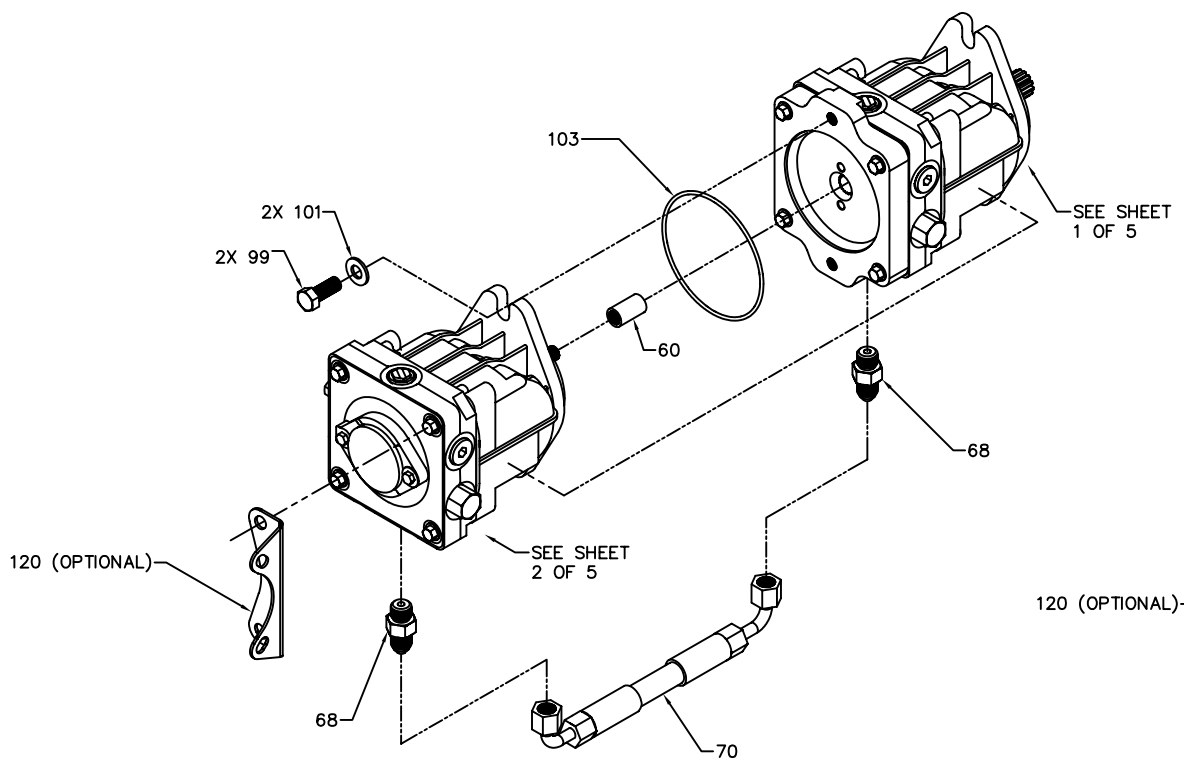
For Hydro-Gear Parts Call K&T 606-678-9623 or 606-561-4983



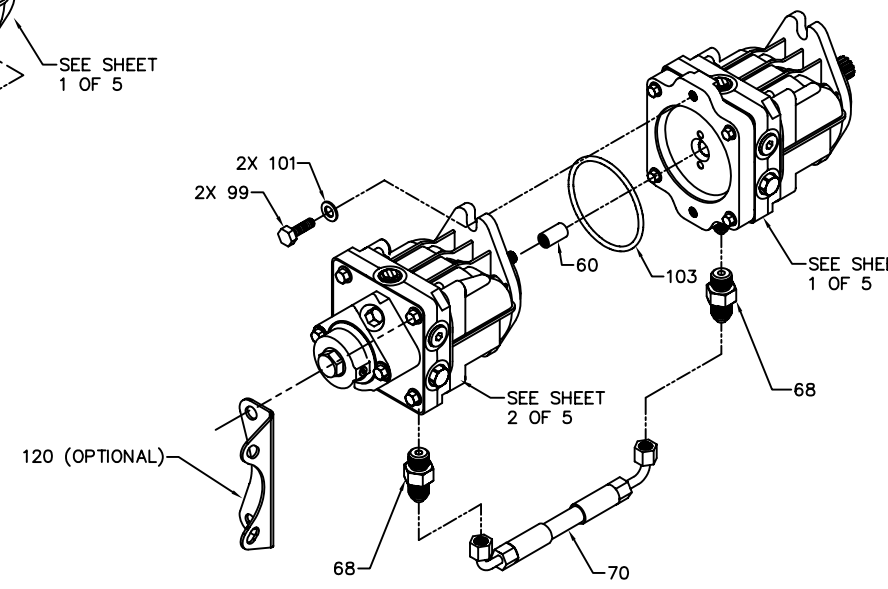
R SHEETS 5-7

TANDEM SERVICE DRAWING
COMBINED ASSEMBLY

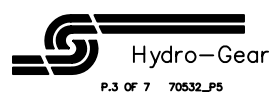
www.mymowerparts.com



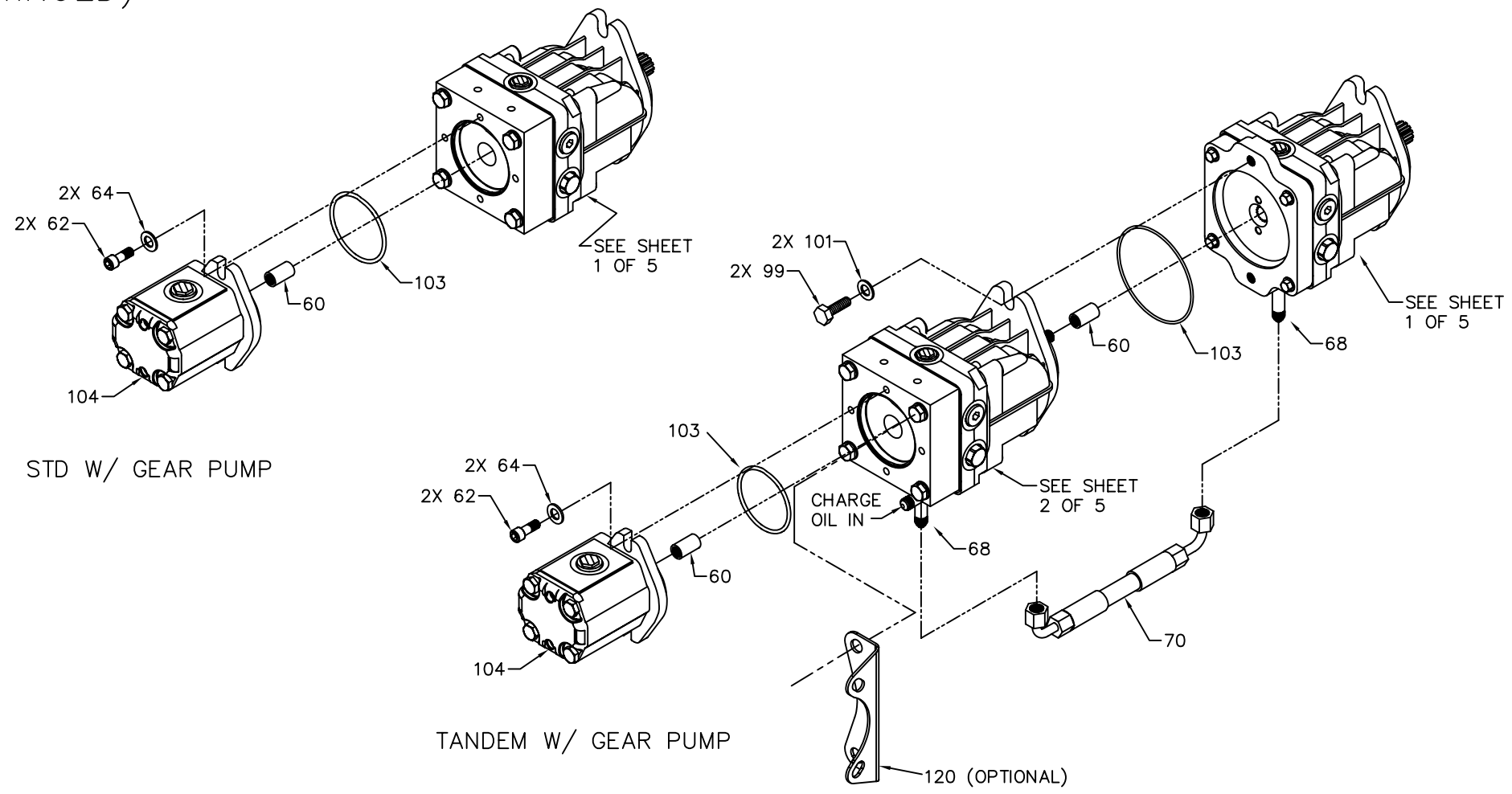
STD TANDEM W/ CHARGE PUMP



STD TANDEM W/ AUX PUMP



TANDEM SERVICE DRAWING
COMBINED ASSEMBLY
(CONTINUED)



PW S

INPUT PUMP COMMON SERVICE KITS AND SERVICE PARTS LIST

ITEM #	HYDRO-GEAR PART #	DESCRIPTION
1	70605	KIT - SHAFT, PUMP TANDEM, FRONT (13T SPLINE)
	70606	KIT - SHAFT, PUMP (7/8 TAPERED, KEYED)
	70754	KIT - SHAFT, PUMP (7/8 STRAIGHT, KEYED)
	70753	KIT - SHAFT, PUMP "A" PAD (13T SPLINE)
	70713	KIT - SHAFT, PUMP "AA" PAD (17mm STRAIGHT, KEYED)
3	50859	RING RETAINING
4	51279	SPACER
6	51280	SEAL, LIP 25 X 52 X 7
12	70739	KIT, TRUNNION SEAL
13	2000014	TRUNNION ARM - DBL D
	51596	TRUNNION ARM - TAPERED SQR.
14	2000015	SLOT GUIDE
19	51276	WASHER, THRUST
20	51277	BLOCK SPRING
26	50641	PIN
39	51016	R-RING -144
42	2510027	CHECK VALVE KIT (0.031")
	2510034	(0.044")
	2510050	(BLANK)
	70741	KIT, SHOCK VALVE (200 BAR, BLANK)
	70742	KIT, SHOCK VALVE (200 BAR, .024 ORFICE)
	70743	KIT, SHOCK VALVE (200 BAR, .031 ORFICE)
	70744	KIT, SHOCK VALVE (200 BAR, .044 ORFICE)
	70836	KIT, SHOCK VALVE (160 BAR, BLANK)
	70837	KIT, SHOCK VALVE (160 BAR, .024 ORFICE)
	70838	KIT, SHOCK VALVE (160 BAR, .031 ORFICE)
	70839	KIT, SHOCK VALVE (160 BAR, .044 ORFICE)
	70840	KIT, SHOCK VALVE (120 BAR, BLANK)
	70841	KIT, SHOCK VALVE (120 BAR, .024 ORFICE)
	70842	KIT, SHOCK VALVE (120 BAR, .031 ORFICE)
	70843	KIT, SHOCK VALVE (120 BAR, .044 ORFICE)
50	2513030	BYPASS VALVE KIT (BLANK)
	2513031	(0.031")
55	51887	PLATE, ADAPTER, ("A" PAD)
	51536	PLATE, ADAPTER, ("AA" PAD)
58	51826	HEX SCREW, FLANGED HEAD M10 X 1.50 X 90mm
85	70531	KIT, SEAL OVERHAUL (COMPLETE TANDEM)
100	9004800-2506	PIN, HEADLESS
110	70899	KIT, CONTROL ARM
	70869	RTN-STD
	70870	RTN-CW RETURN
	70871	RTN-CW RETURN
	70872	RTN-HVY
	70873	RTN-HVY, CW RETURN
	70874	RTN-HVY, CCW RETURN
	71034	RTN-MED
	71035	RTN-MED, CW RETURN
	71036	RTN-MED, CCW RETURN

21 CC ONLY

15	70528	KIT, HOUSING
17	50552	THRUST BALL BEARING ASSEMBLY
25	70529	KIT, ENDCAP, TANDEM (FOR POPPETS)
28	50381	O-RING
29	50619	VALVE PLATE
31	50203	VARIABLE SWASHPLATE
38	70082	CYLINDER BLOCK KIT
55	51272	PLATE, ADAPTER, TANDEM 21
	51560	PLATE, ADAPTER, 21/16
59	71059	KIT - BOLT, NUT

16CC ONLY

15	70965	KIT, HOUSING
17	51462	THRUST BALL BEARING ASSEMBLY
25	70967	KIT, ENDCAP (FOR POPPETS)
28	51437	O-RING
29	51455	VALVE PLATE
31	51436	VARIABLE SWASHPLATE
38	70735	CYLINDER BLOCK KIT
55	51560	PLATE, ADAPTER, TANDEM 16

SECOND PUMP COMMON SERVICE KITS AND SERVICE PARTS LIST

ITEM #	HYDRO-GEAR PART #	DESCRIPTION
1	70607	KIT - SHAFT, PUMP (20 T SPLINE) (TANDEM-CHG/AUX)
	71020	KIT - SHAFT, PUMP ("AA" PAD)
	71021	KIT - SHAFT, PUMP ("A" PAD)
3	2000038	RETAINING RING - 47mm
12	70735	KIT, TRUNNION SEAL
13	2000014	TRUNNION ARM - DBL D
	51596	TRUNNION ARM - TAPERED SQR.
14	2000015	SLOT GUIDE
19	2000024	BLOCK THRUST WASHER
20	2000025	BLOCK SPRING
26	50641	PIN
37	51075	AUX MANIFOLD
39	9004100-1430	O-RING
	51016	R-RING -144
40	2510071	CHARGE PUMP KIT (0.19 STD SPLINED)
	70387	CHARGE PUMP KIT (AUX)
41	50406	GEROTOR ASSEMBLY (0.19 cu.in./rev)
	50761	AUX GEROTOR & HSG ASSEMBLY (0.19 cu.in./rev)
42	2510027	CHECK VALVE KIT (0.031")
	2510034	(0.044")
	2510050	(BLANK)
	70741	KIT, SHOCK VALVE (200 BAR, BLANK)
	70742	KIT, SHOCK VALVE (200 BAR, .024 ORFICE)
	70743	KIT, SHOCK VALVE (200 BAR, .031 ORFICE)
	70744	KIT, SHOCK VALVE (200 BAR, .044 ORFICE)
	70836	KIT, SHOCK VALVE (160 BAR, BLANK)
	70837	KIT, SHOCK VALVE (160 BAR, .024 ORFICE)
	70838	KIT, SHOCK VALVE (160 BAR, .031 ORFICE)
	70839	KIT, SHOCK VALVE (160 BAR, .044 ORFICE)
	70840	KIT, SHOCK VALVE (120 BAR, BLANK)
	70841	KIT, SHOCK VALVE (120 BAR, .024 ORFICE)
	70842	KIT, SHOCK VALVE (120 BAR, .031 ORFICE)
	70843	KIT, SHOCK VALVE (120 BAR, .044 ORFICE)
	70844	KIT, SHOCK VALVE (120 BAR, .031 ORFICE)
	70845	KIT, SHOCK VALVE (120 BAR, .044 ORFICE)
44	70402	(1/4 PLASTIC BALL & 2000029 SPRING)
	70403	(1/4 PLASTIC BALL & 2000029 SPRING)
	2510081	CHARGE RELIEF KIT (WITH 9/16 SAE VALVE PLUG)
45	2510082	AUX RELIEF VALVE KIT
50	2513030	BYPASS VALVE KIT (BLANK)
	2513031	(0.031")
52	9005110-4400	PLUG 7/16-20 STEEL
54	2510090	KIT, AUXILIARY FILTER
55	51887	PLATE, ADAPTER, ("A" PAD)
	51536	PLATE, ADAPTER, ("AA" PAD)
56	50173	HEX SCREW, M2 X 1.25 X 25mm
	51025	FLANGE HD SCREW, AUX 5/16-18 X 2.5
58	51457	HEX SCREW, FLANGED HEAD M10 X 1.50 X 65mm
	51826	HEX SCREW, FLANGED HEAD M10 X 1.50 X 90mm
66	9005110-3100	PLUG 5/16-24 STEEL
67	50994	FILTER COVER (MACHINED)
69	50408	PIN
75	51148	SHIM (.002")
85	70531	KIT, SEAL OVERHAUL (COMPLETE TANDEM)
100	9004800-2506	PIN, HEADLESS
110	70899	KIT, CONTROL ARM
	70869	RTN-STD
	70870	RTN-CW RETURN
	70871	RTN-CW RETURN
	70872	RTN-HVY
	70873	RTN-HVY, CW RETURN
	70874	RTN-HVY, CCW RETURN
	71024	RTN-MED
	71025	RTN-MED, CW RETURN
	71026	RTN-MED, CCW RETURN
120	51593	TORQUE BRACKET

21CC ONLY

15	70533	KIT, HOUSING
17	50552	THRUST BALL BEARING ASSEMBLY
25	2510066	KIT, ENDCAP, STD (FOR POPPETS)
	70387	KIT, ENDCAP, AUX
	70529	KIT, ENDCAP, GEAR PUMP (FOR POPPETS)
28	50381	O-RING
29	50619	VALVE PLATE
31	50203	VARIABLE SWASHPLATE
38	70002	CYLINDER BLOCK KIT
59	71059	KIT - BOLT, NUT

16CC ONLY

15	70966	KIT, HOUSING
17	51462	THRUST BALL BEARING ASSEMBLY
25	70736	KIT, ENDCAP, STD (FOR POPPETS)
	70737	KIT, ENDCAP, AUX
	70967	KIT, ENDCAP, GEAR PUMP (FOR POPPETS)
28	51437	O-RING
29	51455	VALVE PLATE
31	51436	VARIABLE SWASHPLATE
38	70735	CYLINDER BLOCK KIT

BDT21 (FINAL ASSY) TOTAL SERVICE KIT AND SERVICE PARTS LIST

ITEM #	HYDRO-GEAR PART #	DESCRIPTION
60	51275	COUPLING (TANDEM)
	51497	COUPLING (9T 2040 "AA" PAD)
	51491	COUPLING (9T 1632 "A" PAD)
62	51507	SHCS 3/8-16 X 1
64	51506	WASHER, 7/34 X .406 X .063
68	51310	FITTING, 7/16-20 SAE ST TO JIC
	51733	FITTING, 7/16-20 SAE LONG ST TO JIC
	51513	TEE, STRAIGHT THREAD -4 JIC 37
70	51311	HOSE ASSY, (4 X 6.8" LG. W/90 DEG. EL)
	51312	HOSE ASSY, (4 X 14" LG. W/90 DEG. EL)
99	51286	BOLT, HHCS 1/2-13 X 1 1/4
101	51265	WASHER (1/2 SAE), 56 X 1.06 X .095
103	51300	O-RING .103 X 3.987 ID
	51509	O-RING .103 X 3.237 ID
	51508	O-RING .103 X 1.987 ID
104	51501-50	3.8 cc CW AA-Pad
	51501-51	3.8 cc CCW AA-Pad
	51501-52	6.0 cc CW AA-Pad
	51501-53	6.0 cc CCW AA-Pad
	51501-54	7.8 cc CW AA-Pad
	51501-55	7.8 cc CCW AA-Pad
	51501-10	4.0 cc CW A-Pad
	51501-11	4.0 cc CCW A-Pad
	51501-12	6.0 cc CW A-Pad
	51501-13	6.0 cc CCW A-Pad
	51501-14	8.0 cc CW A-Pad
	51501-15	8.0 cc CCW A-Pad
	51501-16	11.0 cc CW A-Pad
	51501-17	11.0 cc CCW A-Pad
	51501-18	14.0 cc CW A-Pad
	51501-19	14.0 cc CCW A-Pad

SERVICE DRAWING - T SERIES

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PART NUMBER:

70532

REV:

P5

TANDEM CROSS REFERENCE

MODEL NUMBER	INPUT	SECOND	REFERENCE	INPUT	SECOND
TANDEM: P-16 w GEAR PUMP					
TB-6CCA-XXXX-GFAX	PR-P4CC-2A1X-CXXX	N/A	T1103000C360	N/A	N/A
TH-4AAY-XXXX-CFGX	PR-72AA-1Y1X-CXXX	N/A	T1201000C260	N/A	N/A
TANDEM: P-21 w GEAR PUMP					
TB-2CCY-XXXX-KFGX	PW-P4CC-2Y1X-CXXX	N/A	T2103000B414	N/A	N/A
TB-2CCY-XXXX-46NX	PW-P4CC-2Y1X-CXXX	N/A	T2104000A000	N/A	N/A
TH-2CCY-XXXX-B7AX	PW-74CC-1Y1X-7XXX	N/A	T2106000E138	N/A	N/A
TE-1AAY-XXXX-KCAX	PW-T1AA-2Y1X-BXXX	N/A	T2201000B414	N/A	N/A
TH-1AAY-XXXX-BHDX	PW-71AA-1Y2X-CXXX	N/A	T2202000E138	N/A	N/A
TH-1CCY-XXXX-BHAX	PW-71CC-1Y1X-BXXX	N/A	T2203000E138	N/A	N/A
TANDEM: P-16 w P-16					
TF-CCCY-CCCY-12BX	PR-UNCC-3Y1X-AXXX	PR-VTCC-EY1X-2XXX	T4201201A000	T40002010000	T40002010000
TF-CBBA-CBBA-12BX	PR-UNBB-3A1X-AXXX	PR-VTBB-EA1X-2XXX	T4202202A000	T42020000000	T40002020000
TF-CBBA-DBBA-53BX	PR-UNBB-3A1X-AXXX	PR-VTBB-EA1X-1XXX	T4202100F000	T42020000000	T40001000000
TANDEM: P-21 w P-21					
TF-AAAY-AAAY-13BX	PW-UNAA-3Y1X-AXXX	PW-VTAA-EY1X-3XXX	T7200200A000 (BDT21-200200)	T7200000A000 (BDT21-200XXX)	T70002000000 (BDT21-XXX200)
TF-AAAY-AAAY-13HX	PW-UNAA-3Y1X-AXXX	PW-VTAA-EY1X-3XXX	T7200400A000 (BDT21-200400)	BDT21-200XXX	BDT21-XXX400
TF-ACCY-ACCY-51BX	PW-UNCC-3Y1X-AXXX	PW-VUCC-EY1X-3XXX	T7208208F000	T72080000000	T70002080000
TE-AAAY-AAAY-2XHX	PW-TNAA-2Y1X-AXXX	PW-VVAA-JY1X-AXXX	T7200901B460	T72000000000	T70009010000

INPUT PUMP PRIMARY SERVICE KITS PER MODEL NUMBER

MODEL NO.	REFERENCE NO	PUMP SHAFT (KIT #1)	HOUSING (KIT #15)	ENDCAP (KIT #25)	BYPASS VALVE (KIT #50)	CHECK VALVE (RH) (KIT #42A)	CHECK VALVE (LH) (KIT #42B)	TRUNNION ARM	RTN KIT#110
TB-6CCA-XXXX-GFAX	T1103000C360	70754	70965	70967	2513030	70743	70743	LH	70869
TH-4AAY-XXXX-CFGX	T1201000C260	70713	70738	70967	2513030	70741	70741	RH	N/A
TB-2CCY-XXXX-KFGX	T2103000B414	70754	70965	70967	2513030	70743	70743	LH	N/A
TB-2CCY-XXXX-46NX	T2104000A000	70754	70965	70967	2513030	70743	70743	LH	N/A
TH-2CCY-XXXX-B7AX	T2106000E138	70713	71060	70529	2513030	70743	70743	LH	N/A
TE-1AAY-XXXX-KCAX	T2201000B314	70753	71060	71071	2513030	71071	71071	RH	N/A
TH-1AAY-XXXX-BHDX	T2202000E138	70713	71060	70529	2513031	70741	70741	RH	N/A
TH-1CCY-XXXX-BHAX	T2203000E138	70713	71060	70529	2513030	70743	70743	RH	N/A
PR-UNCC-3Y1X-AXXX	T40002010000	70605	70965	70967	2513030	70743	70743	RH	N/A
PR-UNBB-3A1X-AXXX	T42020000000	70605	70965	70967	2513030	70742	70742	RH	70869
PW-UNAA-3Y1X-AXXX	T7200000A000	70605	70528	71071	2513030	71071	71071	RH	N/A
PW-UNAA-3Y1X-AXXX	BDT21-200XXX	70605	70528	71071	2513030	71071	71071	RH	N/A
PW-UNCC-3Y1X-AXXX	T72080000000	70605	70528	70529	2513030	70743	70743	RH	N/A
PW-TNAA-2Y1X-AXXX	T72000000000	70605	70528	71071	2513030	71071	71071	RH	N/A

SECOND PUMP PRIMARY SERVICE KITS PER MODEL NUMBER

MODEL NO.	REFERENCE NO	PUMP SHAFT (KIT #1)	HOUSING (KIT #15)	ENDCAP (KIT #25)	BYPASS VALVE (KIT #50)	CHECK VALVE (RH) (KIT #42A)	CHECK VALVE (LH) (KIT #42B)	TRUNNION ARM	RTN KIT#110	CHARGE PUMP (KIT #40)	CHARGE RELIEF (KIT #44)	INPUT ROTATION
PR-VTCC-EY1X-2XXX	T40002010000	70607	70966	70736	2513030	70743	70743	RH	N/A	2510071	70402	CW
PR-VTBB-EA1X-2XXX	T40002020000	70607	70966	70736	2513030	70742	70742	RH	70869	2510071	70402	CW
PR-VTBB-EA1X-1XXX	T40001000000	70607	70966	70736	2513030	70742	70742	LH	70869	2510071	70402	CW
PW-VTAA-EY1X-3XXX	T70002000000 (BDT21-XXX200)	70607	70533	71043	2513030	71043	71043	RH	N/A	2510071	70402	CW
PW-VTAA-EY1X-3XXX	BDT21-XXX400	70607	70533	71043	2513030	71043	71043	RH	N/A	2510071	70402	CCW
PW-VUCC-EY1X-3XXX	T70002080000	70607	70533	2510066	2513030	70589	70589	RH	N/A	2510071	70402	CW
PW-VVAA-JY1X-AXXX	T70009010000	70607	70533	71049	2513030	71049	71049	RH	N/A	70387	2510061	CCW

TX- XXXX -	XXXX -	XXXX
1 2 3 4 5 6	7 8 9 10	11 12 13 14
INPUT	SECOND	ROTATION, ORIENTATION

Char 3 and		Char 2		Char 4 (RH) or Char 5 (LH)			Char 6		Char 11 and		Char 13		Char 13		
		PUMP SHAFT		HOUSING		END CAP						GEAR PUMP		BYPASS VALVE	
		KIT #1		KIT #15		KIT #25						PART #		KIT #50	
PW SERIES	A.1 (RH control) B.2 (LH control)	H	70713	71060	COMMON	A	70741	A.B	70869	B.M	A-F (CW INPUT)	51501-50	A.B,C,G. H,D,N,P or Q	2513030	
		G	70606	70528		70529	B	70742	C.D	70870		C.N	51501-52	D.E,F,K. L, M,R,T or U	2513031
		C	70743				E.F	70871	D.P	51501-54					
		D	70744				G.H	70872	F.R	51501-10					
		E	70753				J.K	70873	G.T	51501-12					
		F	70805				L.M	70874	H.U	51501-14					
PR SERIES	C.3.4 (RH control) D.5.6 (LH control)	H	70713	70738	COMMON	G	70838	N.P	71024	J.V	G-M (CCW INPUT)	51501-16			
		N	71022	70965		70967	H	70839	Q.R	71025		K.W	51501-18		
		G	70806				J	70840	T.U	71026		B.M	51501-51		
		B	70754				K	70841	V.W	70899		C.N	51501-53		
		E	70753				L	70842	1.Y	N/A		D.P	51501-55		
		F	70805				M	70843				F.R	51501-11		
		N	2510050						G.T	51501-13					
		P	2510062						H.U	51501-15					
		Q	2510027						J.V	51501-17					
		R	2510034						K.W	51501-19					

GENERIC SERVICE KITS;ECOND PUMP

Model Number Format:	TX - XXXX - XXXX - XXXX													
Character Number:	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	INPUT						SECOND				ROTATION, ORIENTATION			

Char 7 and		Char 11						Char 8 or 9		Char 10		Char 11 and		Char 13			Char 13
			PUMP SHAFT	END CAP	CHARGE PUMP	CHARGE RELIEF	HOUSING			CHECK VALVE	RTN				GEAR PUMP	BYPASS VALVE	
			KIT #1	KIT #25	KIT #40	KIT #44	KIT #15			KIT #42	KIT #110				PART #	KIT #50	
PW SERIES	A or B	1 or 5	71020	2510066	2510071	70402	70533	COMMON	A	70741	A.B	70869	B.M	A-F (CW INPUT)	51501-50	A,D,G,K,N or R	N/A
		2 or 6		70925	70472	70471			51501-52	B,E,H,L,P or T	2513030						
		4.F,G,H,J, K,R,T,U, V or W	71021	N/A	N/A	51501-54			C,F,J,M,Q or U	2513031							
		3.B,C,D,T, M,N,P or Q	70607	70529	N/A	N/A			51501-10								
						51501-12											
PR SERIES	C or D	1 or 5	71020	70736	2510071	70402	70966		E	70836	J.K	70873	G.T	G-M (COW INPUT)	51501-14		
		2 or 6		70737	70472	70471			51501-16								
		4.F,G,H,J, K,R,T,U, V or W	71021	N/A	N/A	51501-18											
		3.B,C,D,T, M,N,P or Q	70607	70976	N/A	N/A			51501-51								
						51501-53											
						51501-55											
						51501-11											
						51501-13											
						51501-15											
						51501-17											
						51501-19											

SERVICE DRAWING - T SERIES

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PART NUMBER:

70532

REV: P5