Issued: 1/19/83

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# WATEROUS

#### WATEROUS COMPANY

SOUTH ST. PAUL, MINNESOTA

Y SERIES CHAIN DRIVE TRANSMISSION								
REF NO.	DESCRIPTION	REF NO.	DESCRIPTION					
T1	Ball bearing, coupling shaft	T27	Breather					
T2	Bearing spacer, coupling shaft	T28	Chain case assembly (supplied as assembly only					
Т3	Ball bearing, drive shaft pilot		consisting of midsection and bottom section)					
T4	Shift collar	T29	Bearing spacer, impeller shaft					
T5	Drive sprocket	T30	Shim, bearing housing, 0.005 (blue) and 0.010 (brown) in.					
Т6	Needle bearing		thick					
Τ7	Drive shaft spacer	T31	Pump support housing					
Т8	Hex hd screw w/thread sealant, 3/8–16 x 1–1/4 in.	T32	Bearing lock washer					
Т9	Lock washer, 3/8 in.	T33	Bearing lock nut					
T10	Drive gear or pulse generator, tachometer	T34	Oil circulating pump					
T11	Drive shaft housing	T37	Pivot pin					
T12	Cotter pin, SS, 1/8 x 1–3/4 in.	T38	Locking arm assembly					
T13	Drive shaft	T39	O–ring					
T14	Oil seal sleeve	T40	Shifter shoe					
T15	Ball bearing, drive shaft	T41	Shim, coupling shaft housing, 0.005 (blue), 0.007					
T17	Drive shaft housing gasket		(natural), and 0.010 (brown) in. thick					
T18	Drive chain	T42	Coupling shaft housing					
T19	Oil seal	T43	Shaft nut					
T22	Lock washer, 5/16 in.	T44	Coupling shaft					
T23	Oil seal housing	T45	Oil seal					
T24	Oil seal housing gasket	T46	Shift shaft					
T25	Ball bearing, impeller shaft	T47	Sector gear					
T26	Driven sprocket	T48	Gear sector spacer					

## PLEASE NOTE

WHEN ORDERING PARTS PLEASE SUPPLY PUMP SERIAL NUMBER

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## **Y SERIES CHAIN DRIVE TRANSMISSION**

REF NO.	DESCRIPTION	REF NO.	DESCRIPTION				
 T49	O-ring	T73	Sq hd pipe plug, 3/4 in.				
T50	Shift shaft bushing	T75	Shift shoe (included with fork T80)				
T51	Spirol pin, SS, $5/16 \times 1-3/8$ in.	175	Available individually for repairs				
T52	Hex hd screw, $1/2-13 \times 1-1/4$ in.	T76	Shifter shoe stud (included with fork T80)				
T53	Lock washer, $1/2$ in.	170	Available individually for repairs				
T54	Spirol pin, heavy duty, $3/8 \times 1-3/4$ in. (prior to $9/25/98$ on	T80	Shift fork (supplied with shifter shoes T75, and				
154	pneumatic shift, prior to 12/20/02 on manual or electric shift.)	100	shifter shoe studs T76)				
T55	Shift cover	T83	Pin set, connecting (chain repairs)				
T56	Shift cover gasket	T85	Drain pipe				
T57	Street elbow, 90°, 1/2 in.	T86	Adjusting screw				
T58	Magnetic drain plug, 3/4 in.	T87	Adjusting screw retainer				
T59	Spring housing, shift arm	T88	Driven gear bushing, tachometer				
T60	Spirol pin, SS, $1/4 \ge 1-1/4$ in.	T89	Driven gear, tachometer				
T61	Shift arm spring	T90	Driven gear sleeve, tachometer				
T62	Shift arm	T92	Driven gear cap, tachometer (furnished prior to 2/1/89)				
T64	Hose, oil pump to spray tube	Т93	Hex hd screw, 1/2–20 x 1–3/4 in.				
T65	Chain case cap	T94	Washer, plain, 1–1/4 in.				
T66	Straight adapter union, 1/2 in.	T95	Bearing spacer, impeller shaft				
T67	Hose, sump to oil pump	T96	Gasket, oil pump				
T68	Hex hd screw, 1/2–20, 2–1/4 or 4–1/4 in.	T97	Hex hd screw, 5/16–18 x 3–1/4 in.				
T69	Hex nut, 1/2–20	T98	Sq hd pipe plug, 1/2 in.				
T70	Hex hd screw, 1/2–13, 1–1/2 or 3–1/2 in.	T99	Spacer, cap				
T72	Hex hd screw, 1/2–13 x 1 in., Grade 5 (with thread sealant)	T100	Spacer, cap (YC only)				

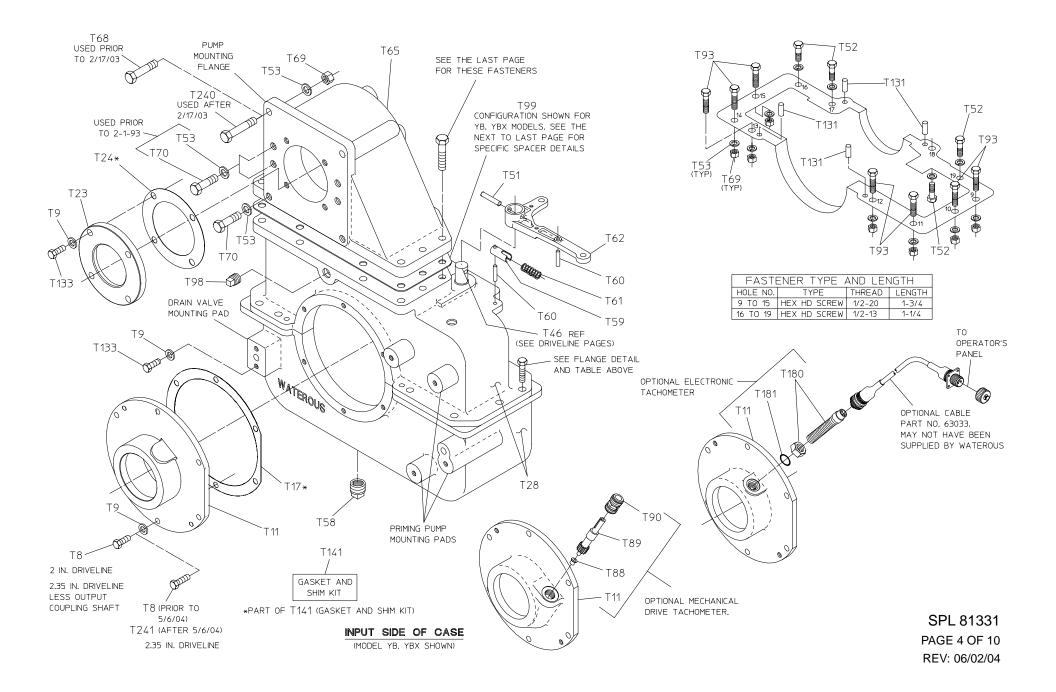
## WATEROUS

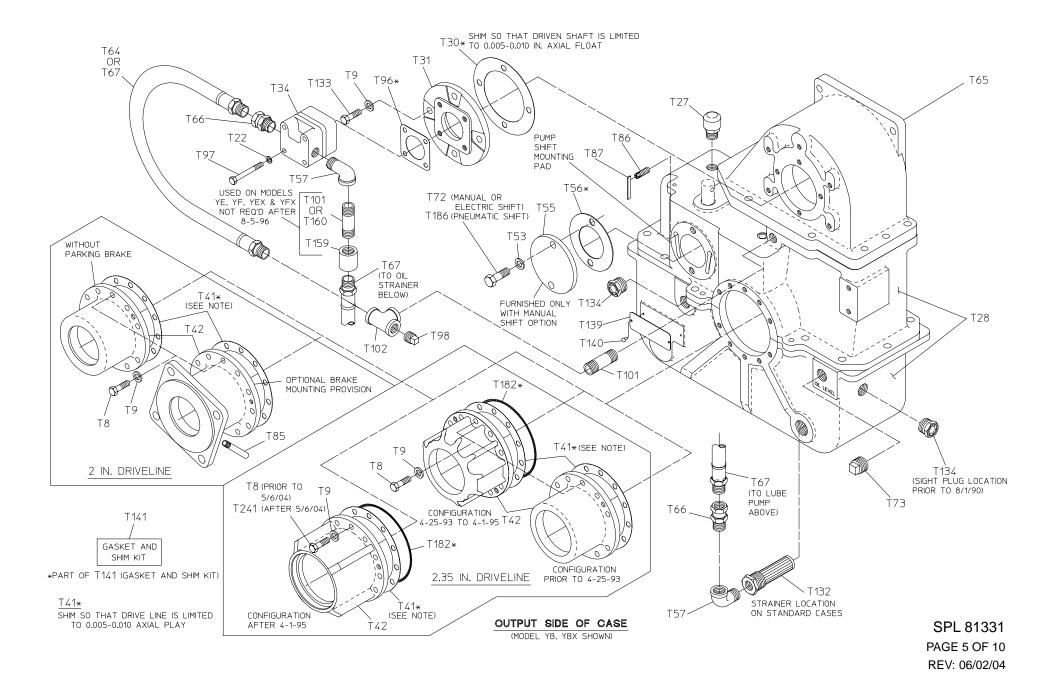
WATEROUS COMPANY

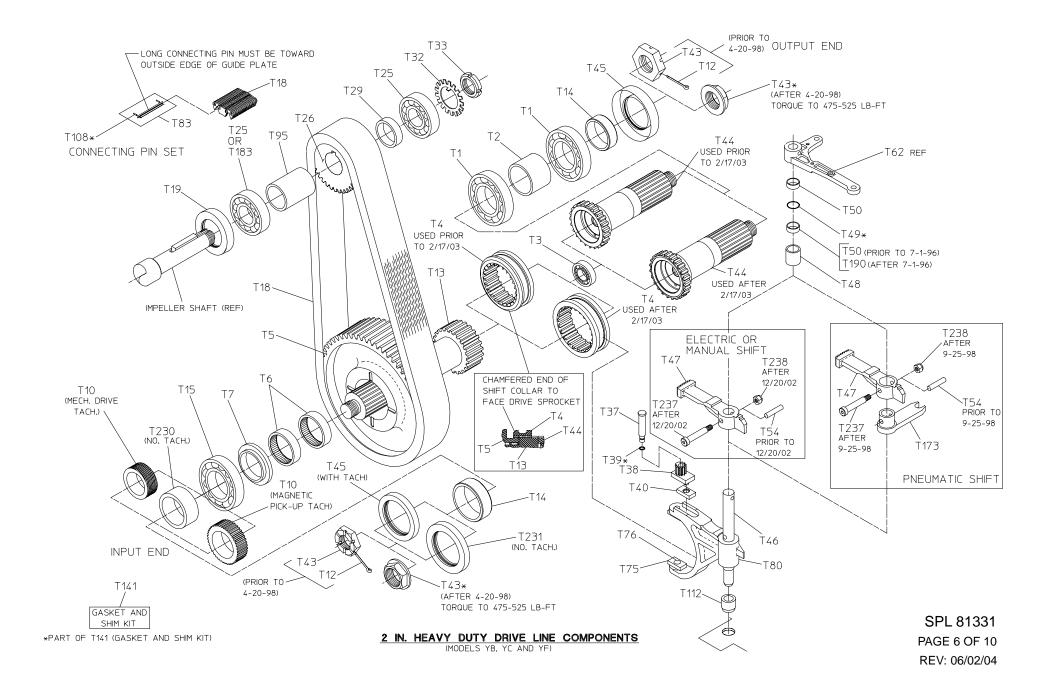
SOUTH ST. PAUL, MINNESOTA

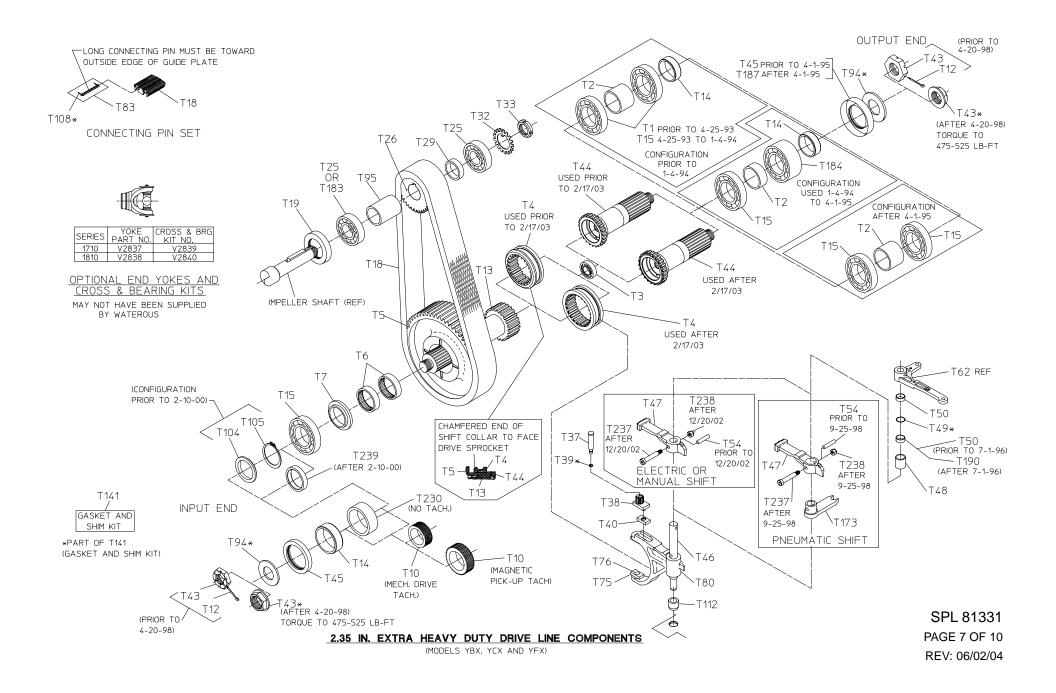
## **Y SERIES CHAIN DRIVE TRANSMISSION**

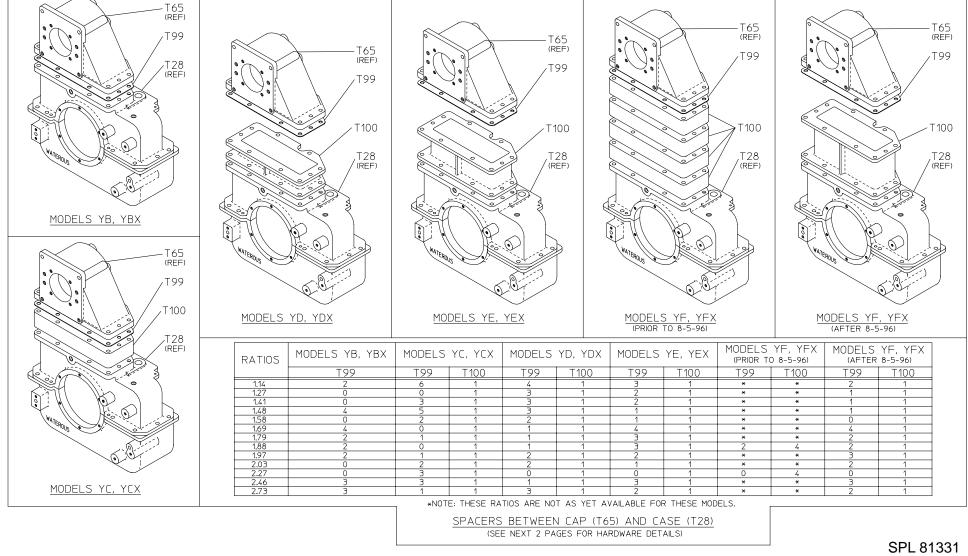
REF NO.	EF NO. DESCRIPTION		DESCRIPTION
 T101	Nipple, pipe, $1/2 \ge 2-1/2$ in.	T181	O-ring
T102	Tee, pipe, 1/2 in.	T182	O-ring
T103	Pin, dowel, 1/2 x 1–1/2 in. (YB) or 3 in. (YC)	T183	Ball bearing, double row
T104	Spacer, tachometer gear	T184	Ball bearing, double row
T105	Ring, retaining	T186	Hex hd screw, 1/2–13 x 1–1/4 in., Grade 5
T106	Hex hd screw, 1/2–20 x 2 in.		with thread sealant
T108	Spirol pin, heavy duty, SS, 1/16 x 1/4 in. (Chain repairs)	T187	Oil seal, 3–1/2 x 4–3/8 in.
T109	Stud, 1/2–13 x 1/2–20 (YC only), 4–1/4 in.	T190	Bearing sleeve
T110	Stud, 1/2–20 x 1/2–20 (YC only), 4–3/4 in.	T191	Stud, 1/2–20 x 1/2–20 x 2–3/4 in. (YD)
T112	Lower shift shaft bushing	T230	Drive shaft spacer
T131	Pin, dowel, 3/8 x 1 in. (part of T28)	T231	Oil seal, 2–1/2 in. x 3–1/2 in.
T132	Oil strainer	T237	Shoulder screw, 3/8 x 1–3/4 in. (after 9/25/98 on pneumatic
T133	Hex hd screw, 3/8–16 x 1 in.		shift, after 12/20/02 on manual or electric shift.)
T134	Sight plug	T238	Lock nut, 5/16–18 in. (after 9/25/98 on pneumatic shift, after
T141	Gasket and shim kit consists of: T17, T24, T30, T41,		12/20/02 on manual or electric shift.)
	T43, T56, T94 and T96	T239	Spacer, tachometer
T173	Shift lever, actuating	T240	Hex hd screw, 1/2–20 x 2–1/2 in.
T174	Hex hd screw, 1/2–13 x 1–3/4 in.	T241	Hex hd screw with thread sealant, $3/8-16 \ge 1-1/2$ in.
T180	Magnetic pickup		



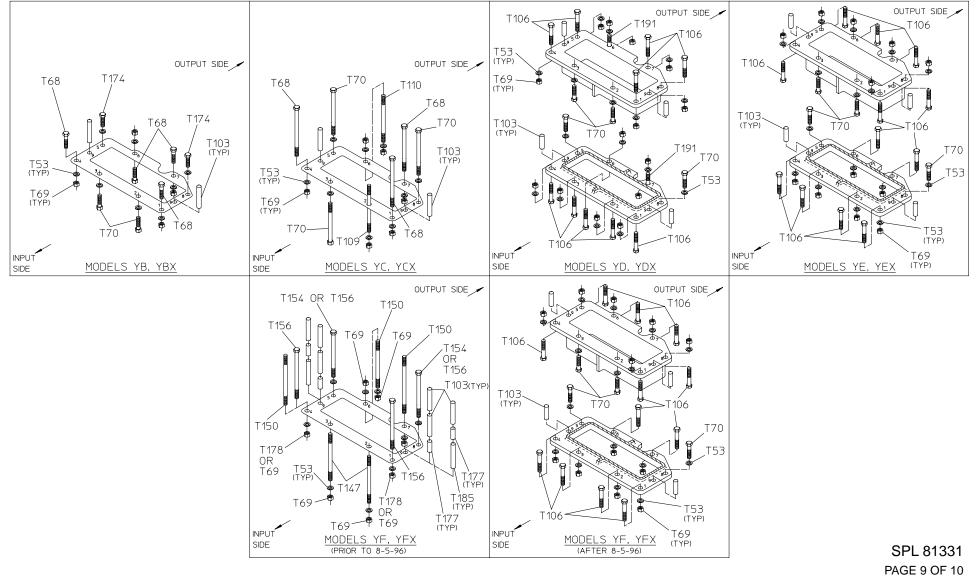








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		). TYPE	THREAD	LENGTH (MODEL)									
	REF. NO.			YB, YBX	YC, YCX	YD, YDX	YE, YE>		YF, YFX ir to 8-5-96)	(AFTER 8			
	T53	LOCKWASHER	1/2										
	Т68	HEX HD SCREW	1/2-20	2-1/4	4-1/4								
	T69	HEX NUT	1/2-20										
	T70	HEX HD SCREW		1-1/2	3-1/2	1-1/2	1-1/2			1-1/2			
	T103	DOWEL PIN, 1/2		1-1/2	3	1-1/2	1-1/2		З	1-1/2	2		
	T106	HEX HD SCREW				2	2			2			
	T109	STUD	1/2-13 x 1/2-20		4-1/4								
	T110 T147	STUD STUD	1/2-20 x 1/2-20 1/2-13 x 1/2-20		4-3/4				8-3/4				
			1/2-13 x 1/2-20 1/2-20 x 1/2-20						9-1/2				
	T150 STUD T154 HEX HD SCE							_	8				
	T156	HEX HD SCREW							9				
	T174	HEX HD SCREW 1/2-13							8-3/4				
	T177	DOWEL PIN, 1/2						1-3/4					
	T185	DOWEL PIN, 1/2							3-1/2				
	T191	STUD	1/2-20 x 1/2-20			2-3/4							
OLE NO	MODELS YE	B, YBX MO	DELS YC, YCX	MODEL	.s yd, ye	X MOD	ELS YE,	YEX	MODELS (PRIOR TO	YF, YFX 8-5-96)	MODELS (AFTER	YF, YFX 8-5-96)	
OLL NO.	ALL RA	TIOS	ALL RATIOS	ALL RATIOS			ALL RATIOS JPPER   LOWER		1.88	2.27	ALL F	RATIOS LOWEF	
1	Т68		Т68	T106	T106			106	T156	T150	T106	T106	
2	T70		T109	T70	T106			106	T147	T147	T70	T 106	
3	Τ70		T70	T70	T106	Τ7	0 Т	106	T147	T147	Т70	T106	
4	Т68		Т68	T106	T106			106	T156	T150	T106	T106	
5	T174		T70	T106	T70	T 10		70	T154	T156	T106	T70	
6	T68		T110	T191	T106			106	T150	T150	T106	T106	
7	T68		T68	T106	T191	T 10		106	T150	T150	T106	T106	
8 9 ) LOCATIONS	T174 T103		T70 T103	T106 T103	T70 T103	T 10		70 103	T154 T103 (2) T177 (1)	<u>T156</u> T103(1) T177(1) T185(1)	T106 T103	T70 T103	

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