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WATEROUS

WATEROUS COMPANY

SOUTH ST. PAUL, MINNESOTA

CS SERIES IMPELLER SHAFT ASSEMBLIES FOR WATEROUS SINGLE AND TWO-STAGE FIRE PUMPS

Pump Type	Pump and Transmission Model	Drive	Shaft		See Page for Diagram	
			Туре	Spline	Packing	Mechanical Seal
Single Stage	CSWB, CSWK, CSYB Thru CSYF,	Rear	Separable	35 Tooth	4	5
	CSUYB Thru CSUYF, CSK, CSUK	Real		14 Tooth	6	7
	CSK1	Front	One-Piece	N/A	8	-
	CSD, CSUD	Front	One-Piece	N/A	9	12
Two Stage	CSHWB, CSHWK, CSHK, CSHM, CSHYB Thru CSHYF, CSUHYB Thru CSUHYF	Rear	One-Piece	N/A	10	-
	CSHD, CSUHD	Front	One-Piece	N/A	11	-

PLEASE NOTE

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WHEN ORDERING PARTS PLEASE SUPPLY PUMP SERIAL NUMBER

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REF NO.	DESCRIPTION	REF NO.	DESCRIPTION
S2	Outboard bearing housing	S27	Grommet, flinger
S3	Outboard ball bearing	S28	Flinger disc
S4	Impeller, first stage	S29	Outboard cap
S5	Stuffing box end assembly	S30	Gasket
S6*	Packing, flexible graphite (Grafoil [®]), solid ring	S31	Square head pipe plug, steel, 1/4 in.
S7	Seal chamber cover	S32	Oil seal, 1–1/2 x 2–3/4 in., 1–5/8 x 2–3/4 in.
S7	Packing gland (2 halves)		or 1–7/16 x 2–3/4 in.
S9	Square key, 5/16 x 1–9/16 or 2–5/16 in.	S33	Lube relief fitting, 1/8 in.
S10	Spirol pin, SS, 1/8 x 3/8 in.	S34	Retaining ring
S11	Impeller shaft	S35	Lock washer, 3/8 in.
S12	Retaining ring	S36	Hex hd cap screw, 3/8–16 x 1 in.
S13	Wear ring (std, 0.025, 0.050 and 0.075 in. U/S)	S37	Socket head cap screw, 5/16–18 x 1 or 1–1/4 in.
S14	Square key, SS, 5/16 x 2–3/4 in.	S38	Tachometer driven gear
S15	Lubrication fitting, 1/8 in.	S39	Gasket
S16	Hex hd cap screw, 1/2–13 x 1–1/4 in., grade 5	S40	Lock washer, 5/16 in.
S17	Lock washer, 1/2 in.	S42	Ball bearing
S18	Hex castle nut, SS, 3/4–16	S45	Cap screw, 1/2–20 x 1–3/4 in., grade 5
S19	Cotter pin, SS, 1/8 x 1 in.	S46	Hex nut, 1/2–20
S20	Bearing housing	S47	Tachometer drive gear
S21	High pressure impeller	S48	Tachometer gear spacer
S22	Flinger ring	S49	Tachometer gear bushing
S23	Ball bearing, double row	S50	Retaining ring
S24	Retaining ring	S51	O-ring, 3-1/4 x 3-1/2 in.
S25	Impeller spacer	S52	Spring pin, 3/16 x 1/2 in.
S26	Packing, soft ring	S53	Oil seal, 1–23/32 x 2–3/4 in.

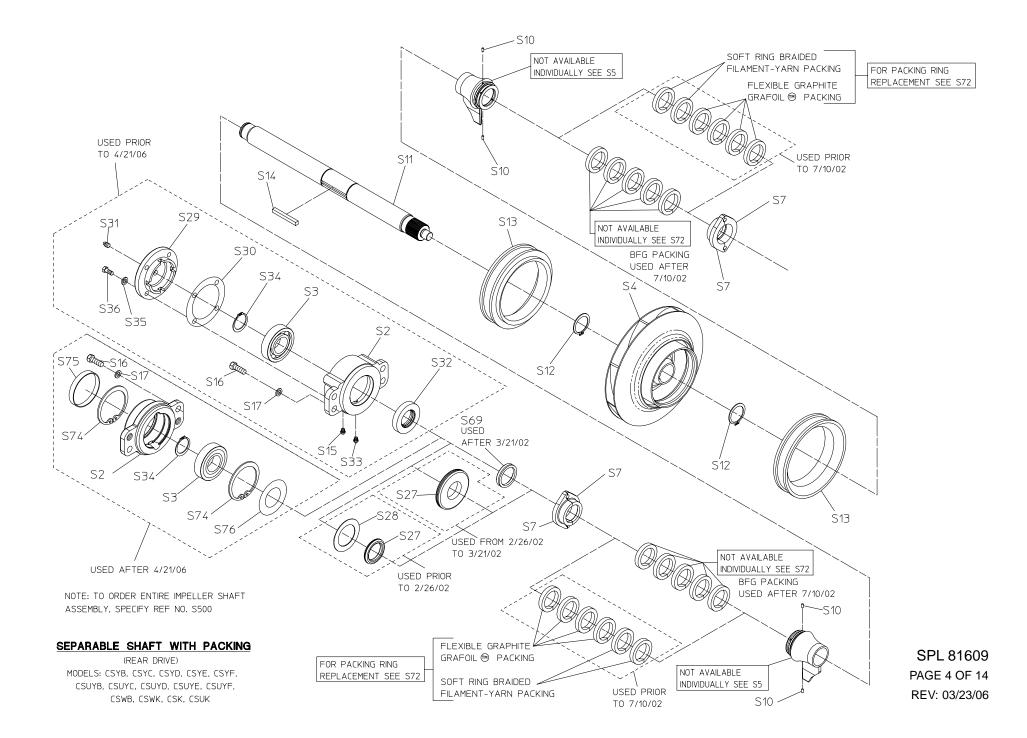
WATEROUS

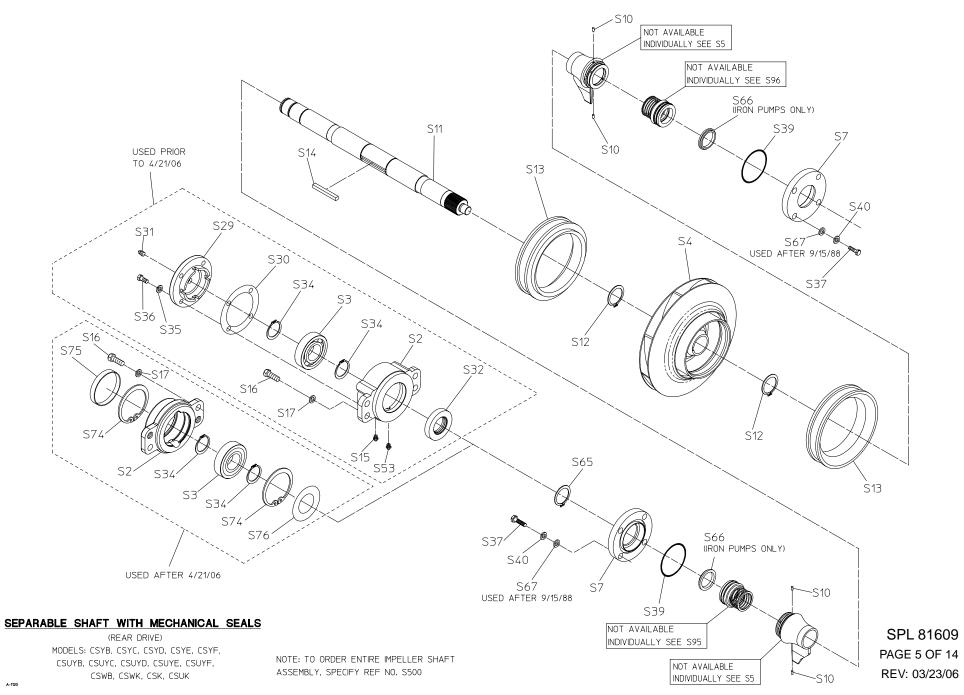
WATEROUS COMPANY

SOUTH ST. PAUL, MINNESOTA

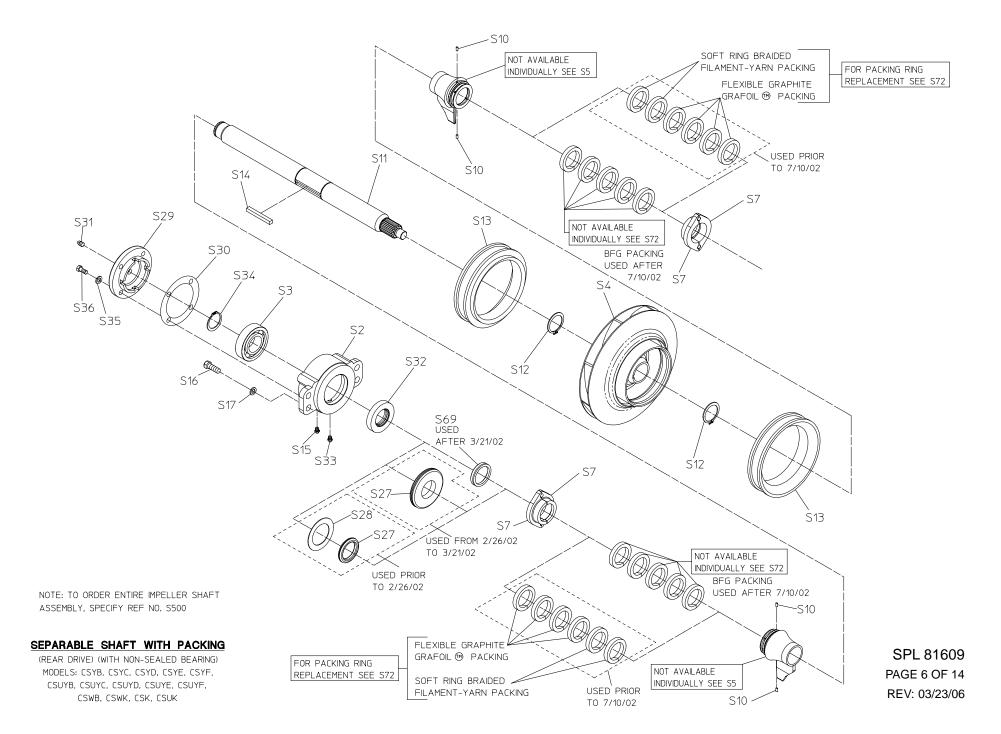
CS SERIES IMPELLER SHAFT ASSEMBLIES FOR WATEROUS SINGLE AND TWO-STAGE FIRE PUMPS

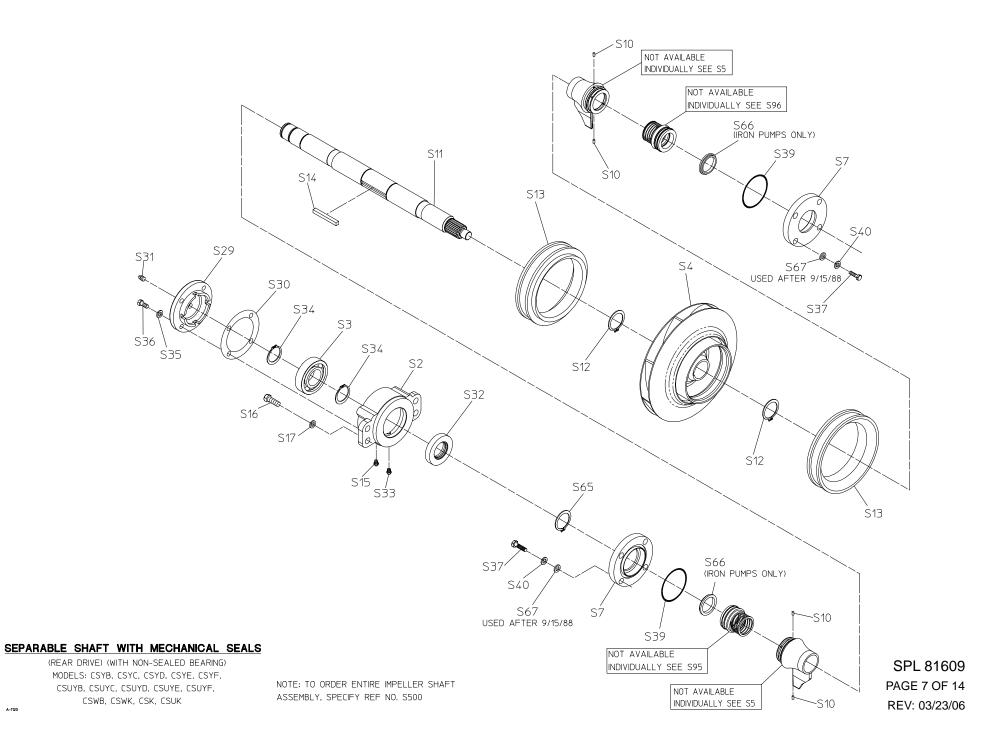
REF NO.	DESCRIPTION	REF NO.	DESCRIPTION
S54	End yoke with U-bolts	S70	Housing spacer
S55	Shaft nut, 1–20	S71	Bearing spacer
S56	Cotter pin, 1/8 x 1–3/4 in.	S72*	Packing, flexible graphite (Grafoil [®]), split ring
S57	Tachometer sleeve	S73	Bearing seal (used after 12/18/92)
S64	Mechanical seal (Refer to S95 or S96)	S74	Retaining ring
S65	Retaining ring	S75	Bearing housing plug
S66	Throttle bushing (not used on bronze body pumps)	S76	Bearing shield
S67	Flat washer, 5/16 in., zinc plated	S95	Repair kit, mechanical seal, outboard end
S68	Tachometer gear housing assembly	S96	Repair kit, mechanical seal, drive end
S69	Flinger	S97*	Bearing spacer (used after 12/18/92)



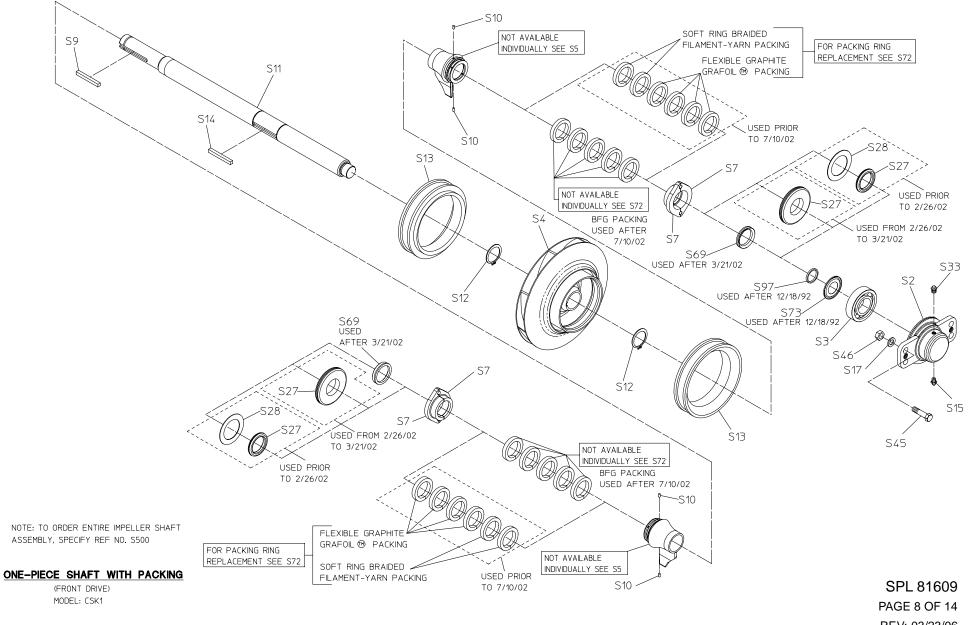


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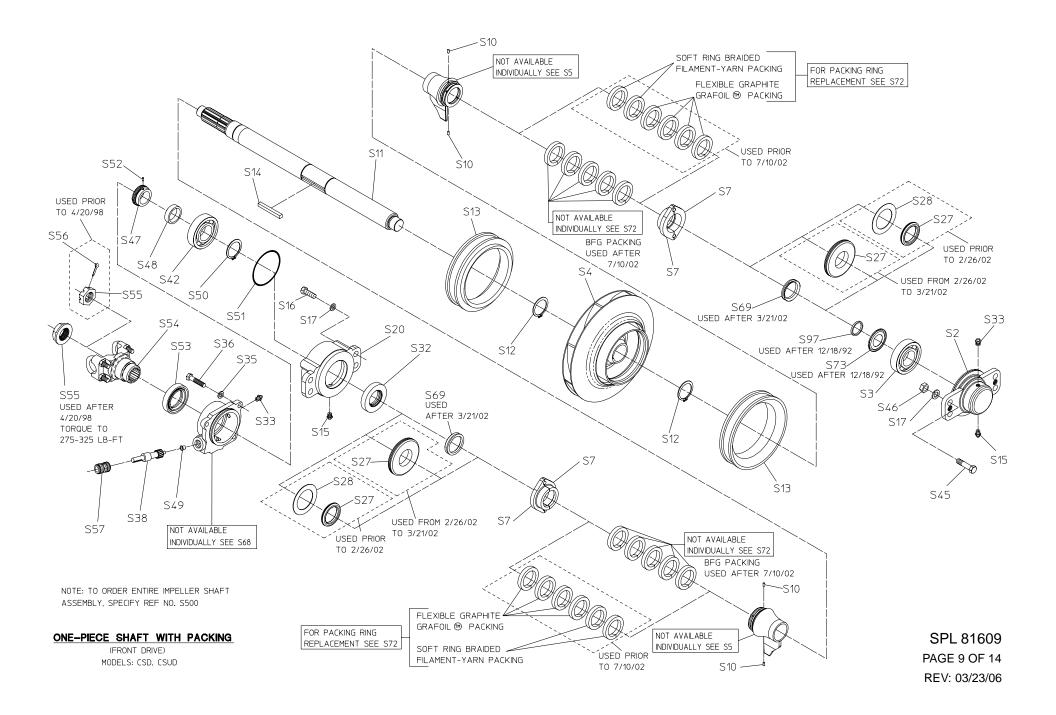


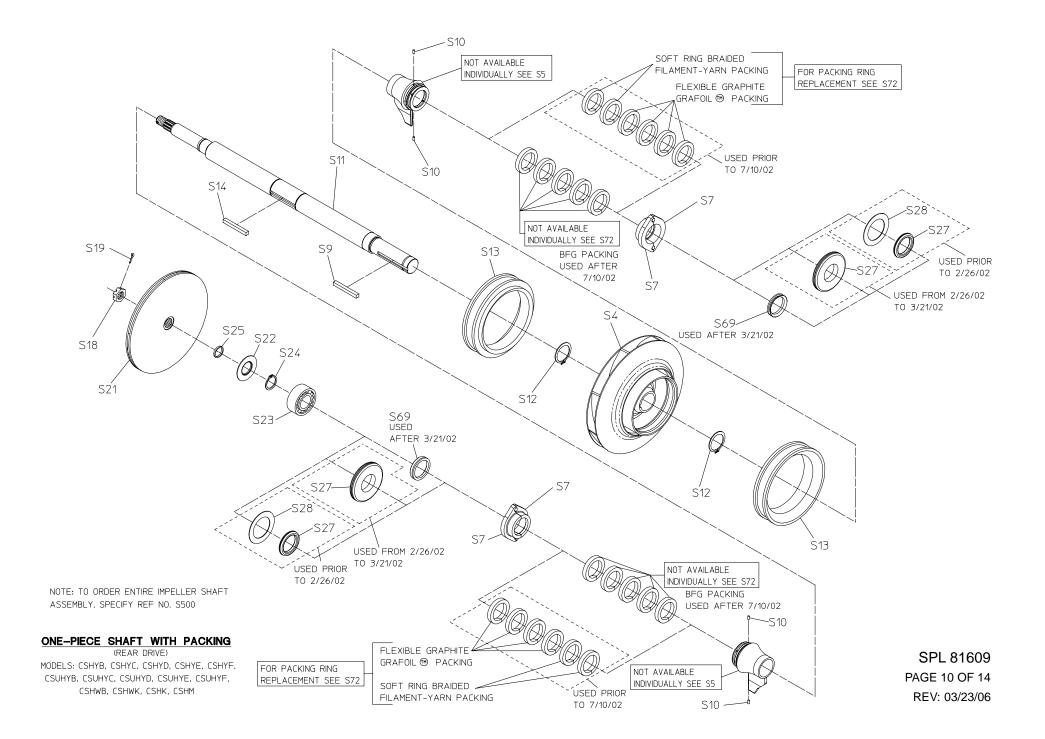


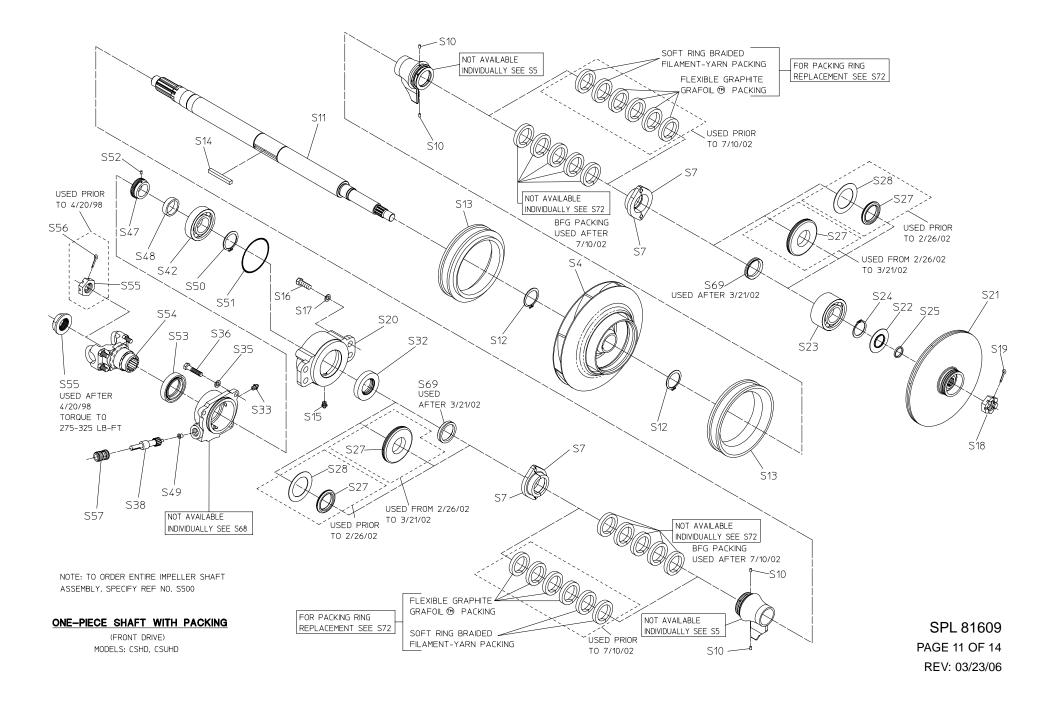
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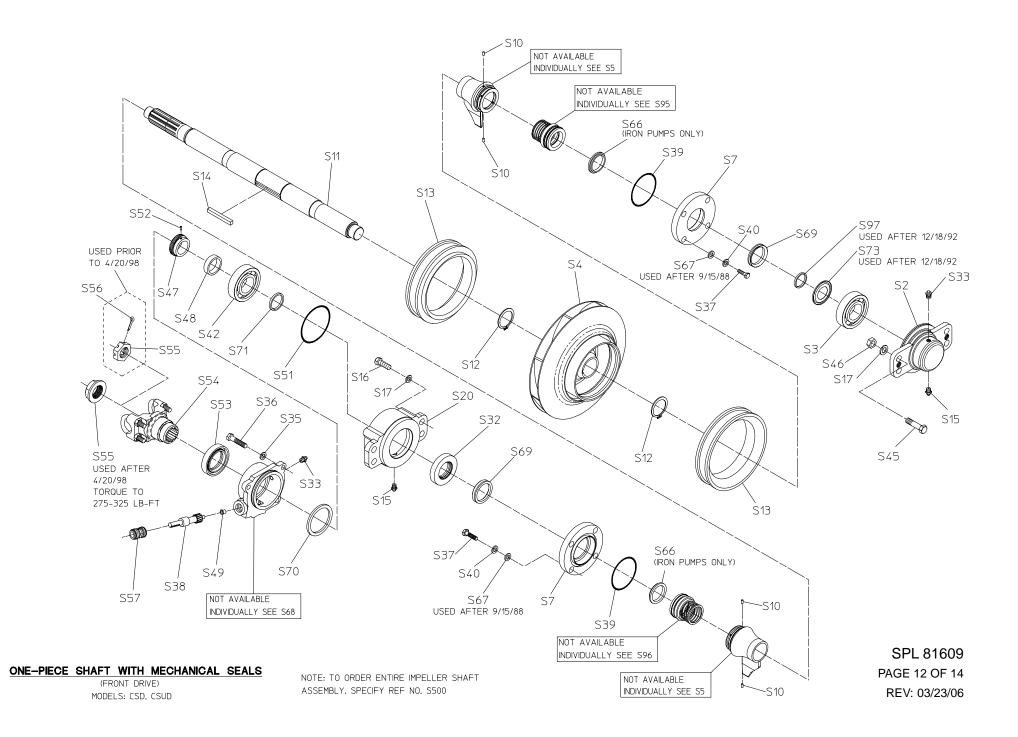


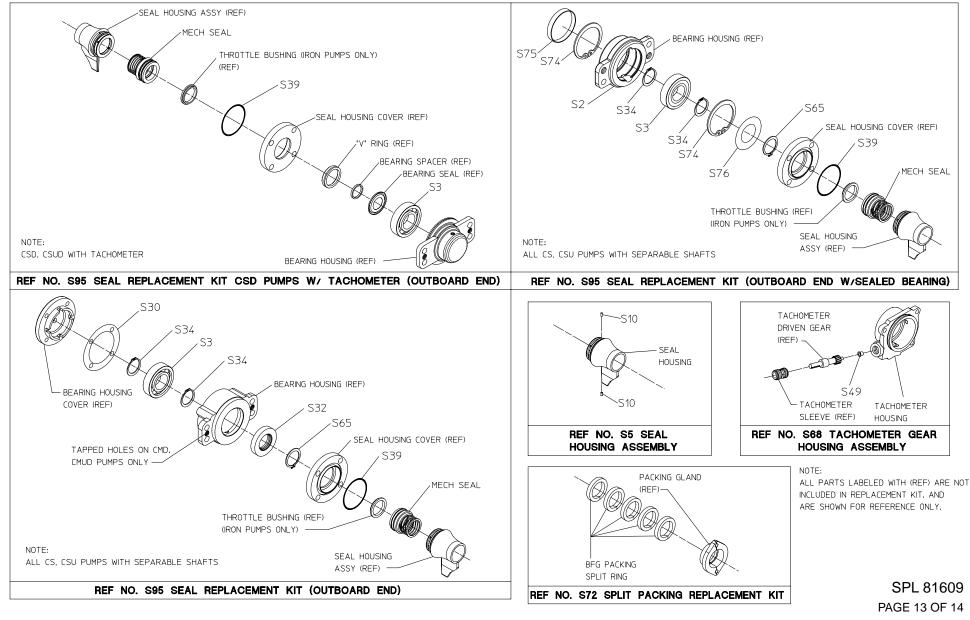
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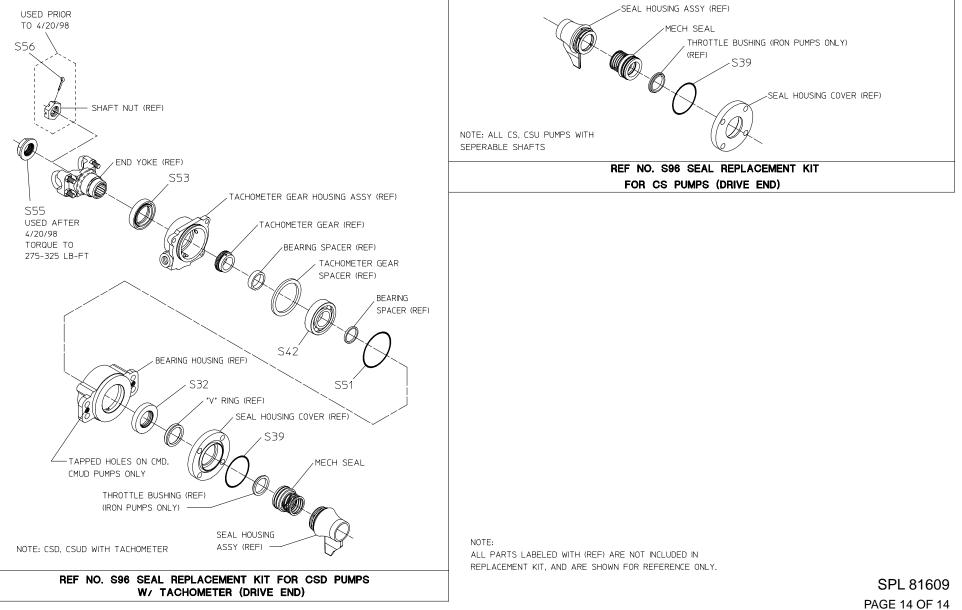








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