

Document Number	Issue Date	Rev. Date	
SPL81607	05/88	03/23/06	

CM Series Impeller Shaft Assembly for Waterous Two and Three Stage Fire Pumps Service Parts List

	Pump and Transmission Model		Drive	Shaft		See Page for Diagram	
Pump Type				Туре	Spline	Packing	Mechanical Seal
	CMWB, CMWK,			Separable	35 Tooth	4	5
T Cl	CMU	CMYB thru CMYF, CMUYB thru CMUYF, CMK, CMUK			14 Tooth	6	7
Two Stage	CMBE, CMK1, CMUK		Front or Rear	One-Piece	N/A	8	-
	CMD, CMUD	w/Tach on Drive End	Front	One-Piece	N/A	9	11
		w/o Tach	Rear	One-Piece	N/A	14	10
	CMY/CPK		Rear	Separable	35 Tooth	15	16
Three Stage	CMHWB, MCHWK, CMHK, CMHM, CMHYB thru CMHYF, CMUHYB thru CMUHYF		Rear	One-Piece	N/A	12	-
	CMHD, CMUHD		Front	One-Piece	N/A	13	-

CM Series Impeller Shaft Assembly for Waterous Two and Three Stage Fire Pumps

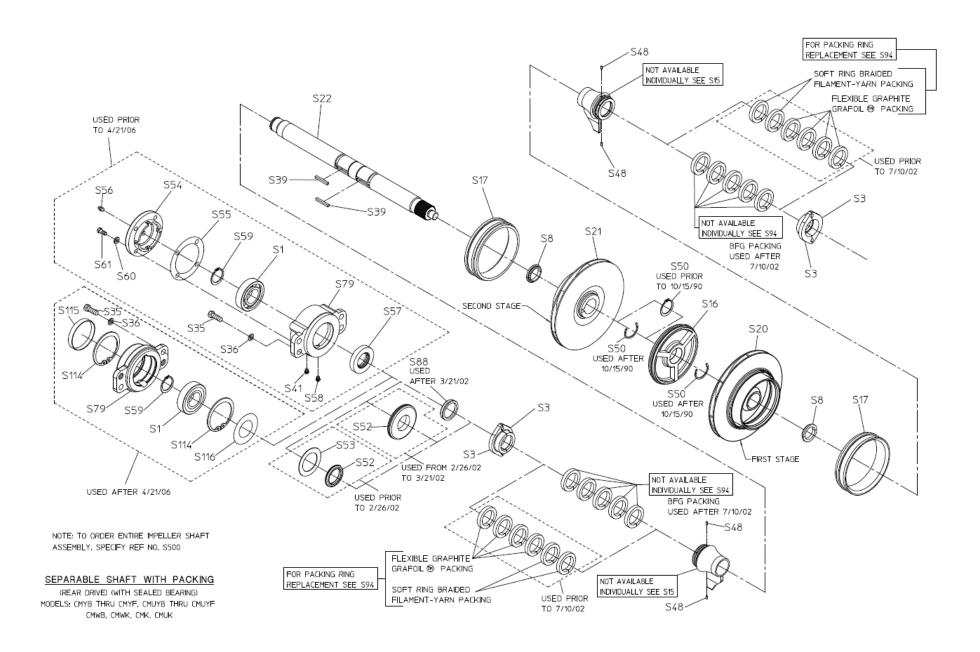
REF NO.	DESCRIPTION
S1	Ball bearing
S3	Seal chamber cover
S 3	Packing gland (2 halves)
S8	Split lock ring
S11	Flexible graphite packing (Grafoil®)
S14	Outboard bearing housing
S15	Stuffing box end assembly
S16	Interstage seal
S17	Wear ring (std, 0.025, 0.050 and 0.075 in. U/S)
S19	High pressure impeller
S20	First stage impeller
S21	Second stage impeller
S22	Impeller shaft
S26	Hex nut, 1/2-20
S27	Cotter pin, SS, 1/8 x 1-3/4 in.
S30	End yoke with U-bolts
S32*	Hex hd cap screw, 1/2-20 x 1-3/4 in. or
	1/2-13 x 1-1/4 in., grade 5
S35*	Hex hd cap screw, 1/2-13 x 1-1/4 in., grade 5
S36	Lock washer, 1/2 in.
S38	Square key, 5/16 x 1-5/16, 1-9/16, 2-1/8 or 2-5/16 in.
S39	Square key, SS, 5/16 x 1-3/8 in.
S41	Lubrication fitting, 1/8 in.
S45*	Bearing spacer (used after 12/18/92)

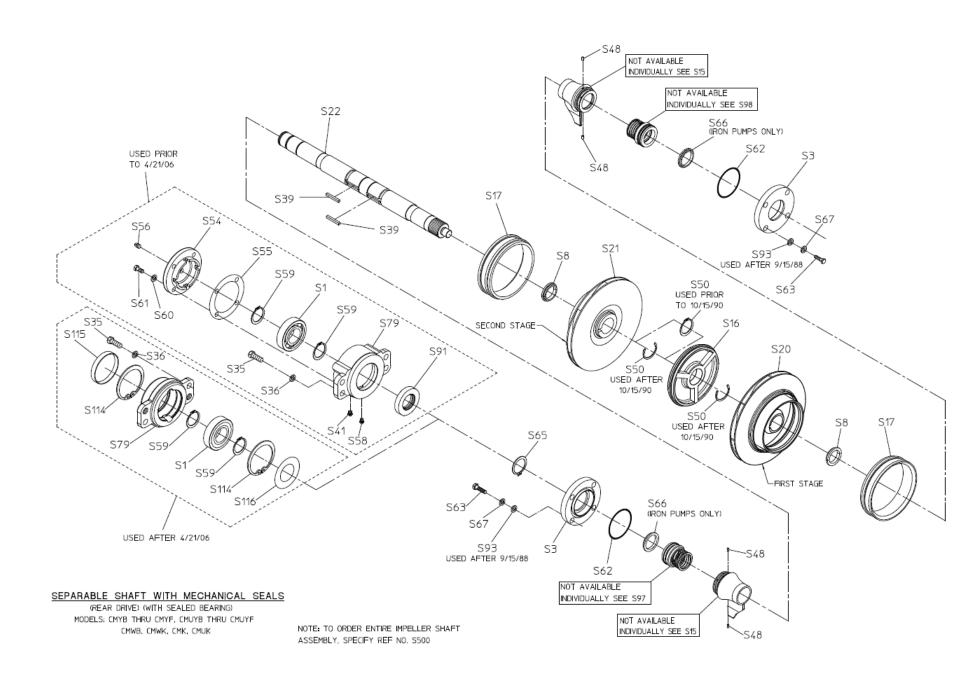
REF NO.	DESCRIPTION
S46*	Bearing seal (used after 12/18/92)
S47	Tachometer driven gear
S48	Spirol pin, SS, 1/8 x 3/8 in.
S49*	Tachometer gear bushing
S50	Retaining ring replacement kit
S51	Soft ring packing
S52	Flinger grommet
S53	Flinger disc
S54	Outboard cap
S55	Gasket
S56*	Square hd pipe plug, steel, 1/4 in.
S57	Oil seal, 1-5/8 x 2-3/4 in.
S58	Lube relief fitting, 1/8 in.
S59	Retaining ring
S60	Lock washer, 3/8 in.
S61	Hex hd cap screw, 3/8-16 x 1 in.
S62	Gasket
S63*	Socket hd cap screw, 5/16-18 x 1 in. or 1-1/4 in.
S64	Mechanical seal (refer to S97 or S98)
S65	Retaining ring
S66	Throttle bushing
S67	Lock washer, 5/16 in.
S68	O-ring, 3-1/4 x 3-1/2 in.
S69	Retaining ring

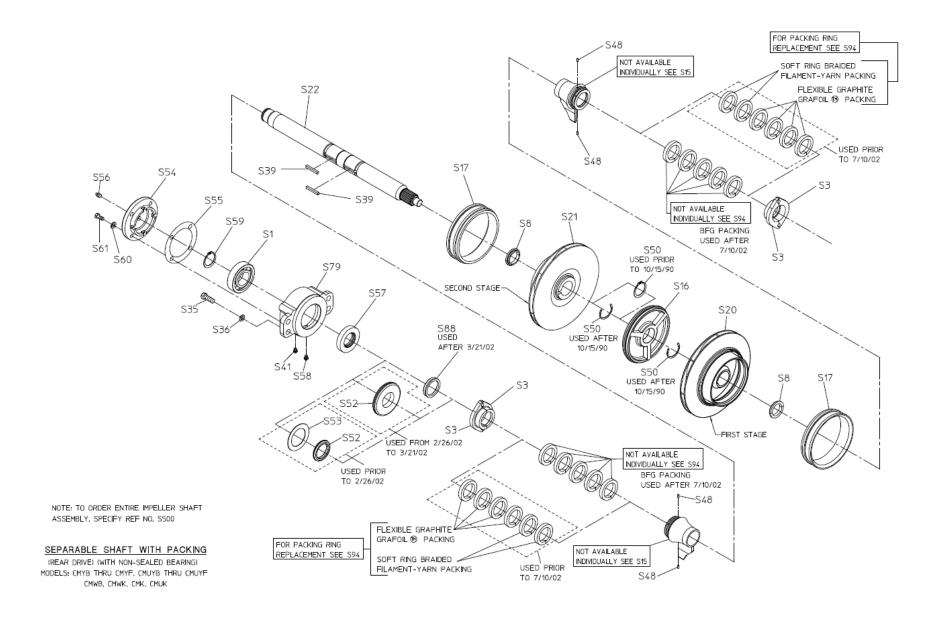
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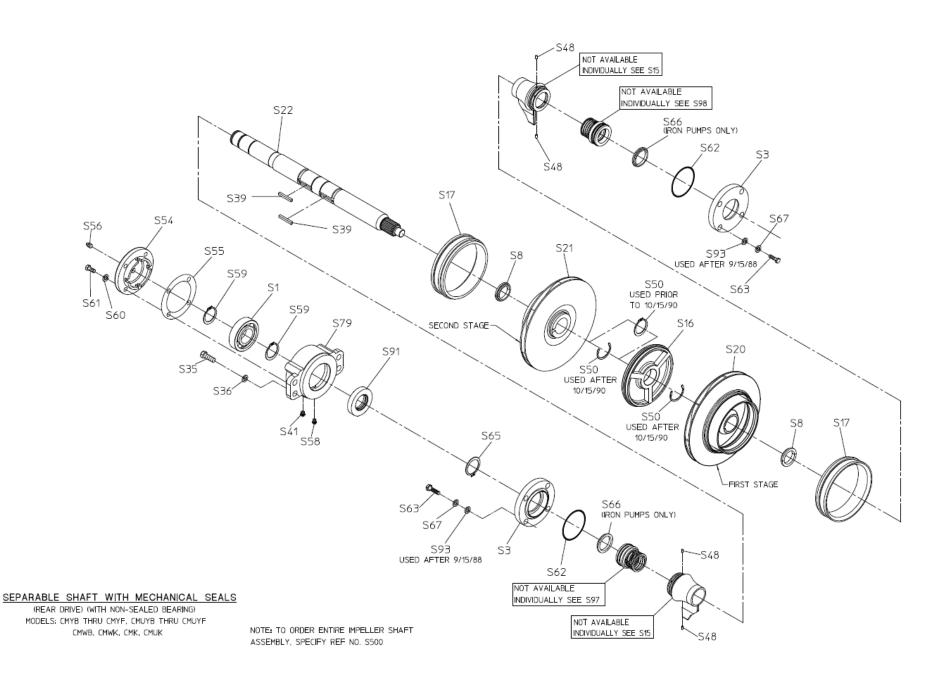
REF NO.	DESCRIPTION
S72	Ball bearing
S73	Spring pin, 3/16 x 1/2 in.
S74	Tachometer drive gear
S75	Oil seal, 1-23/32 x 2-3/4 in.
S76	Shaft nut, 1-20
S77	Tachometer gear housing assembly
S78	Tachometer gear spacer
S79	Outboard bearing housing
S81	Tachometer sleeve
S82	Cotter pin, SS, 1/8 x 1 in.
S83	Hex castle nut, SS, 3/4-16
S84	Impeller spacer
S85	Flinger ring
S86	Ball bearing, double row
S87	Retaining ring
S88	Flinger
S89	Bearing spacer
S90	Oil seal housing
S91	Oil seal, 1-7/16 x 2-3/4 in.
S92	Oil seal, 1-1/2 x 2-3/4 in.
S93	Flat washer, 5/16, zinc plated
S94	Packing replacement kit

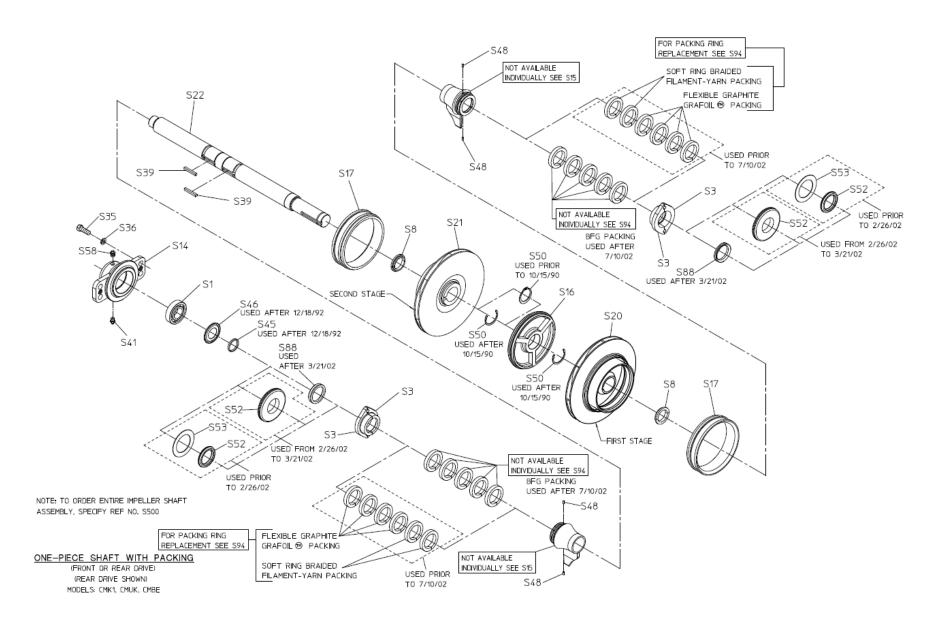
REF NO.	DESCRIPTION
S96	Housing spacer
S97	Outboard end mechanical seal repair kit
S98	Drive end mechanical seal repair kit
S99	Bearing lock nut
S100	Bearing lock washer
S101	Tachometer mounting plate
S102	Tachometer gear housing
S103	Tachometer drive gear
S104	Spirol pin
S105	Socket hd screw
S107	Hex hd screw
S108	Gasket
S109	Oil pump adapter
S110	Plastic shim
S111	Oil pump
S112	Hex hd screw
S113	Oil pump gasket
S114	Retaining ring
S115	Bearing housing plug
S116	Bearing shield
S500	Complete impeller shaft assembly

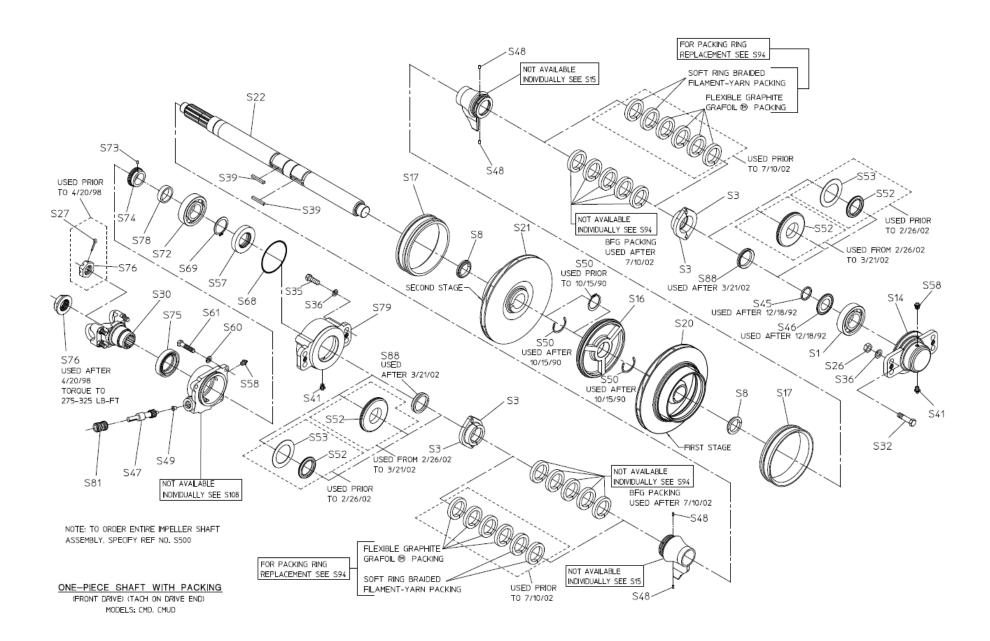


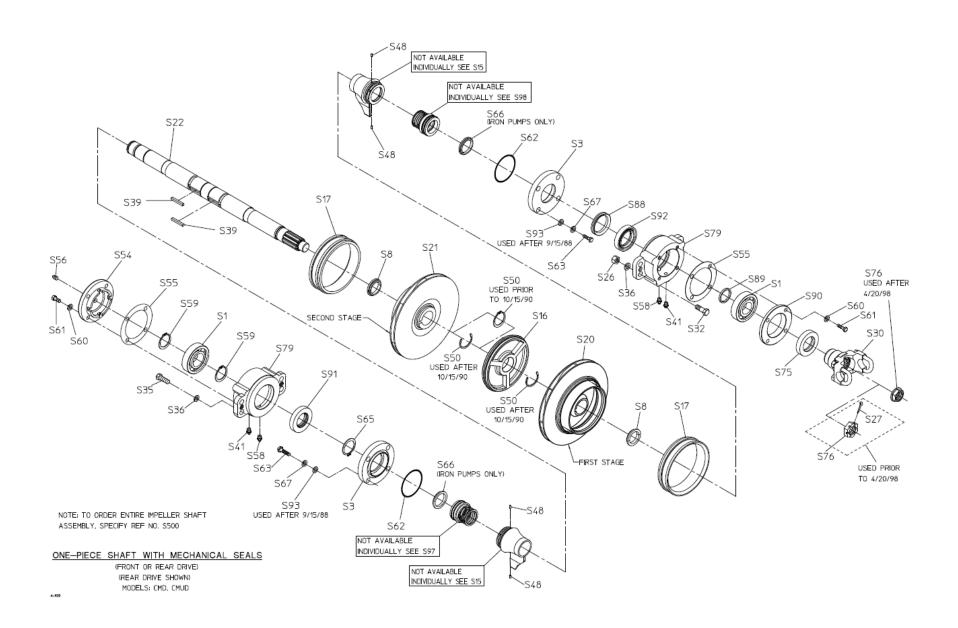


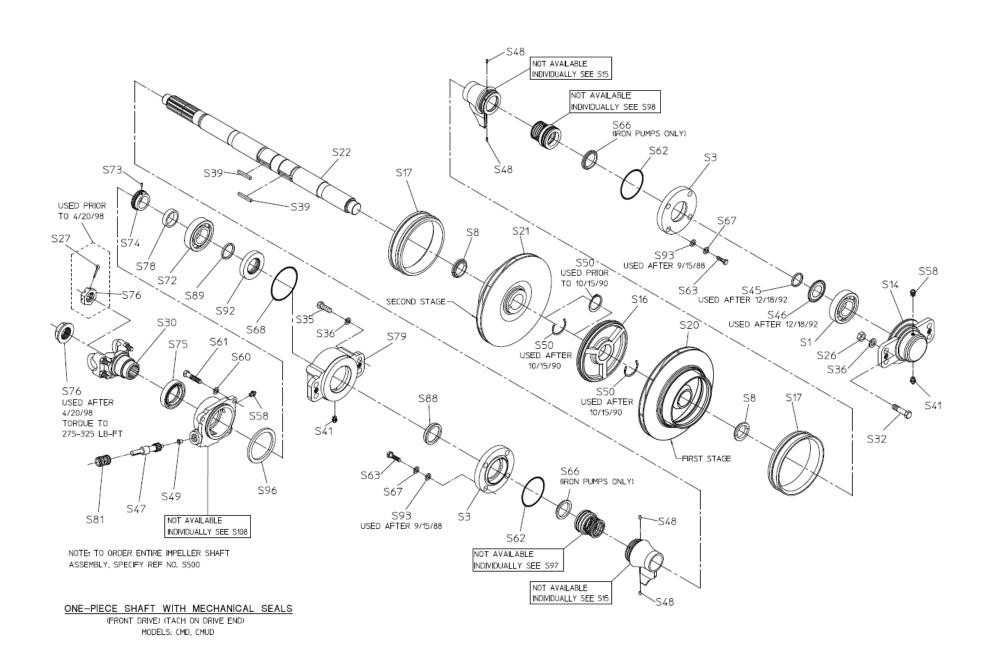


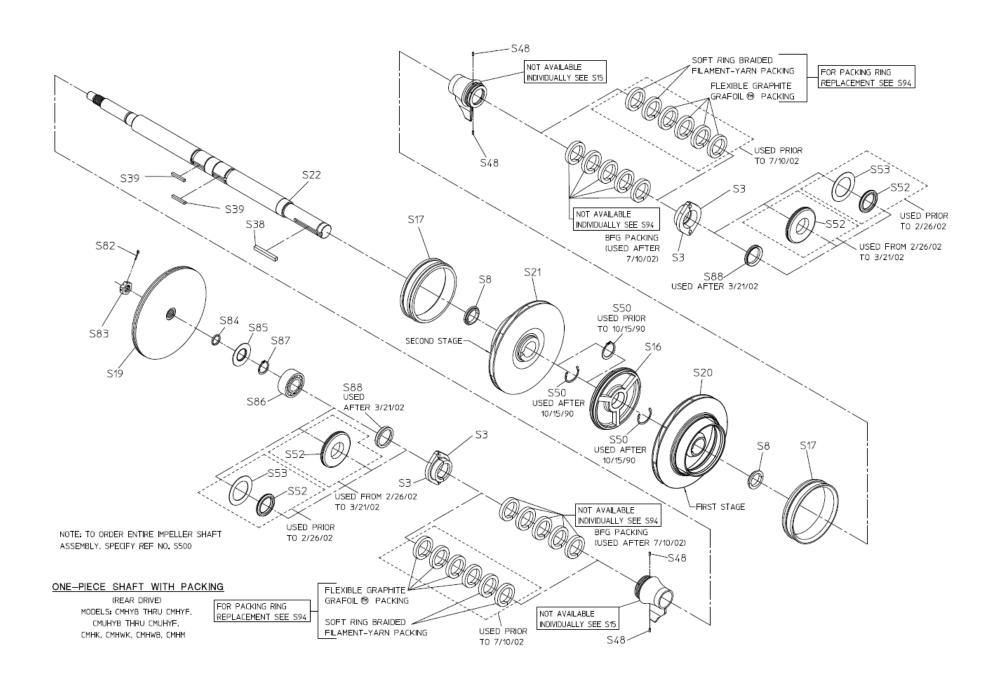


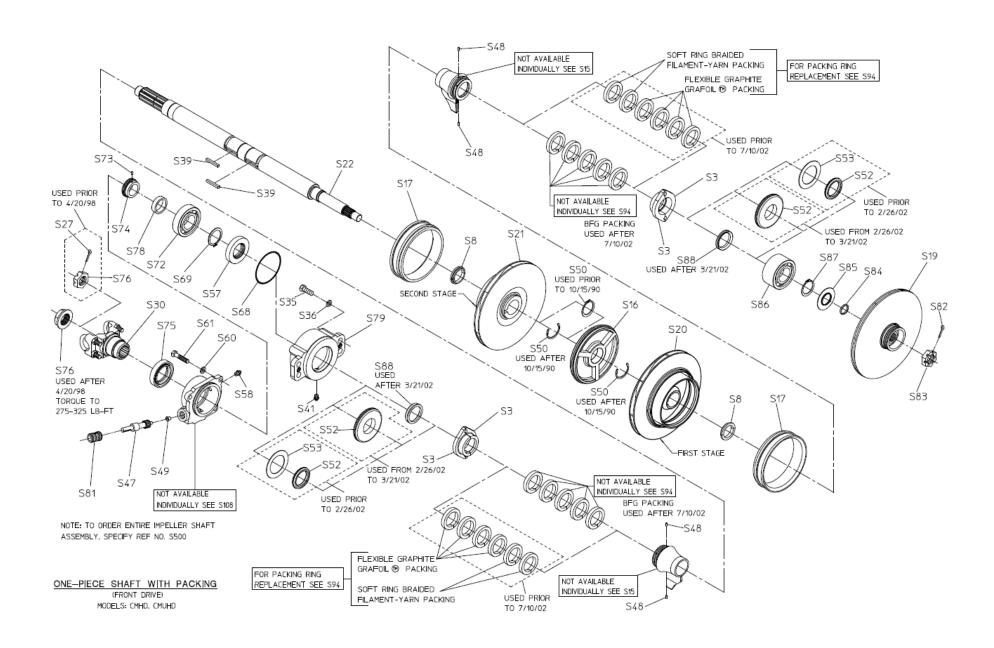


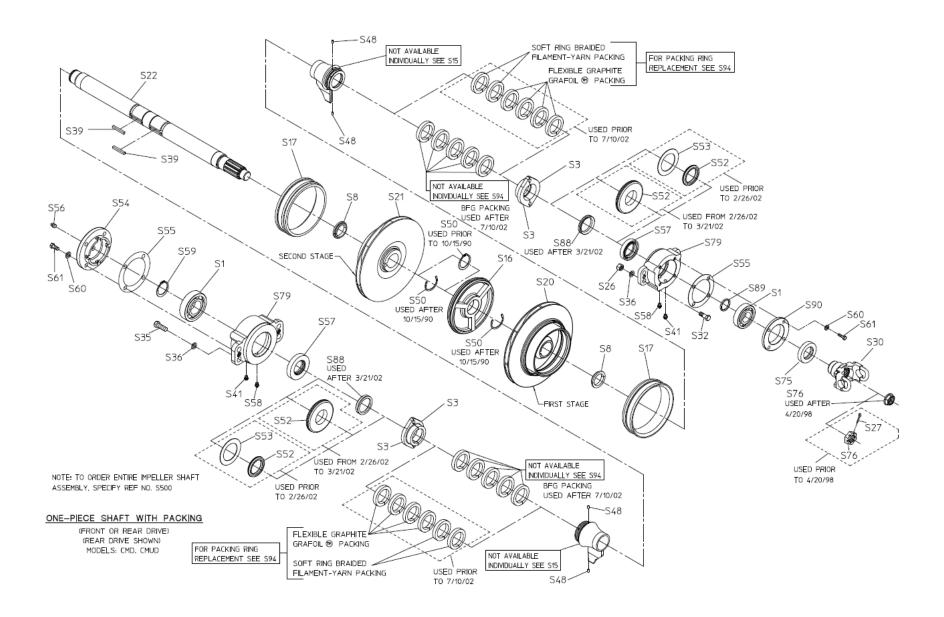


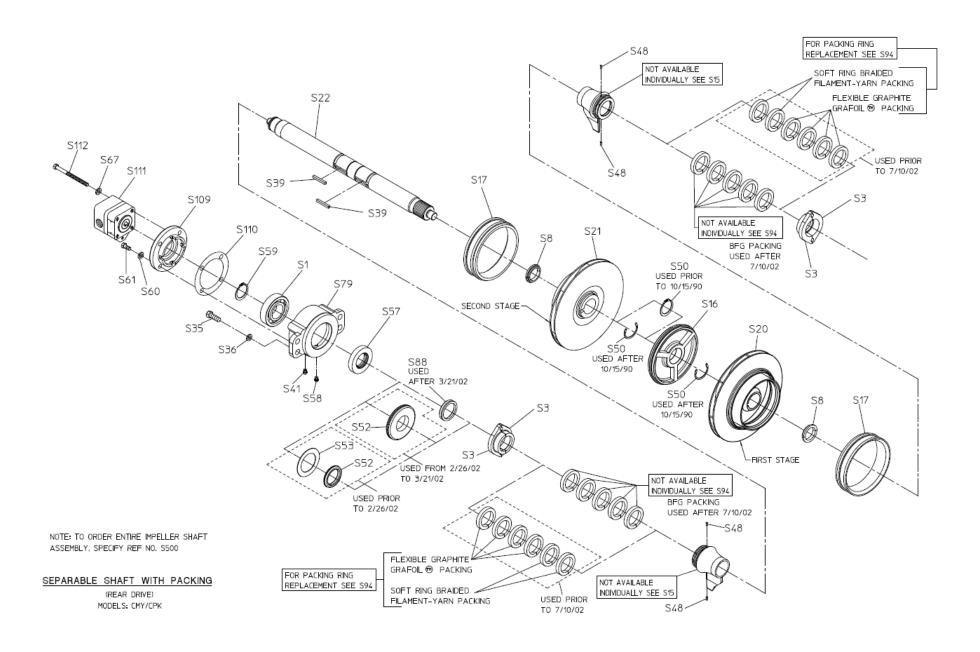


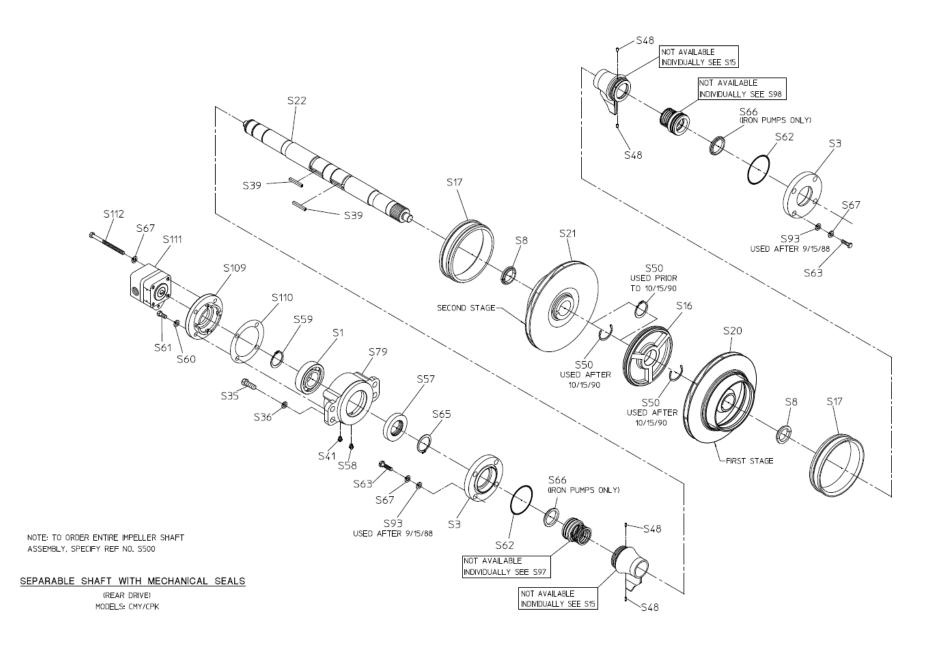


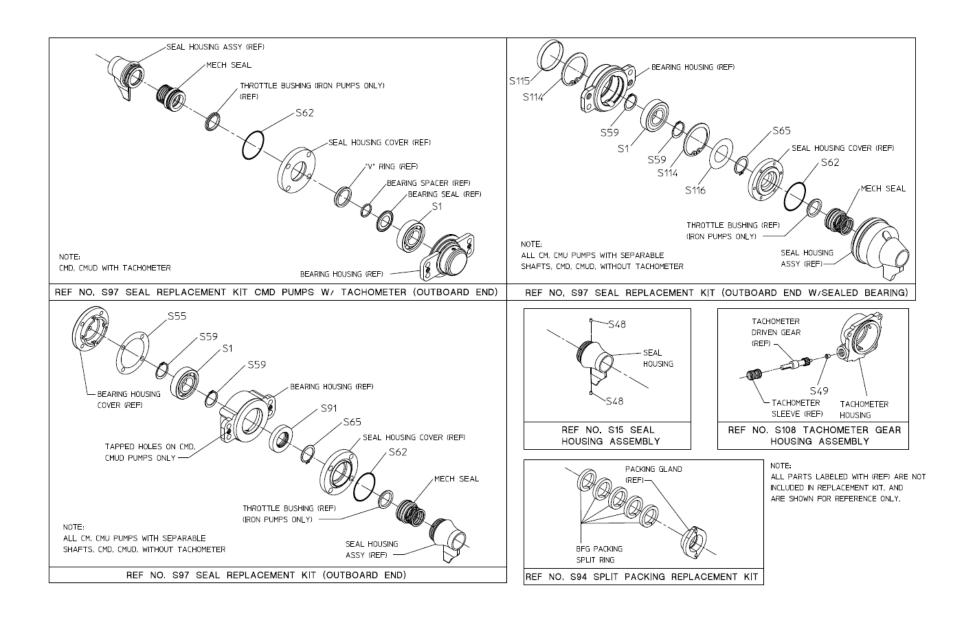


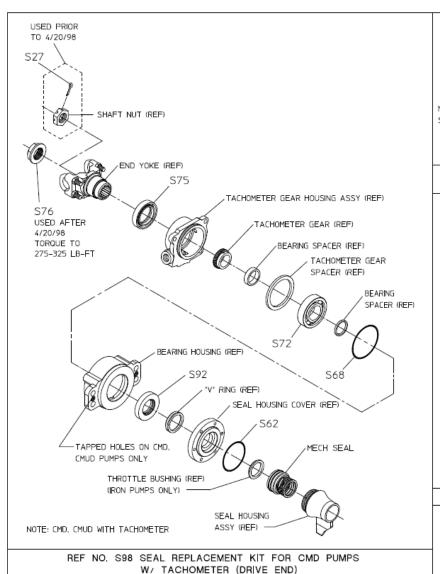


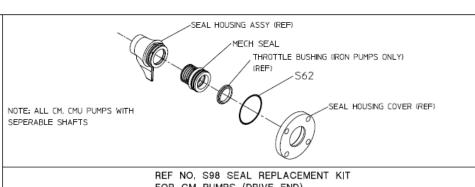


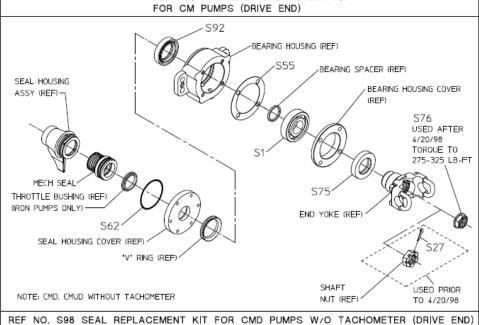












NOTE:

ALL PARTS LABELED WITH (REF) ARE NOT INCLUDED IN REPLACEMENT KIT, AND ARE SHOWN FOR REFERENCE ONLY.