

Product information presented here reflects conditions at time of publication. Consult factory regarding discrepancies or inconsistencies.



PUMP COMPANY

Zoeller Family of Water Solutions™

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www.zoeller.com

REPLACEMENT PARTS LIST FOR MODELS:

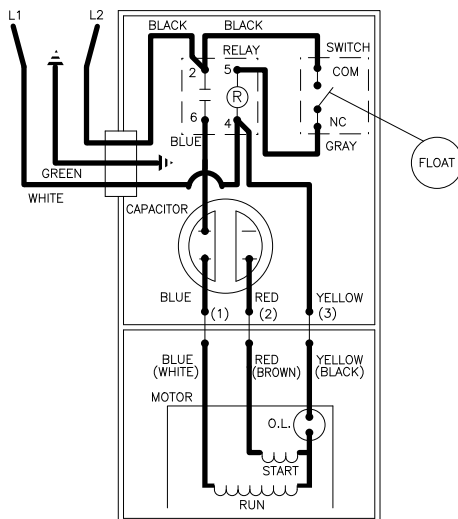
**D293 AUTOMATIC 230V
E293 NONAUTOMATIC 230V**

Consult factory for all others models

TO ORDER REPLACEMENT PARTS:

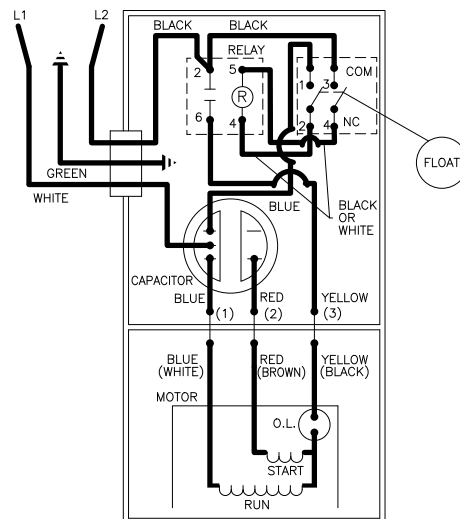
PLEASE FURNISH THE FOLLOWING INFORMATION:

- Model Number.
- Part Number of Pump.
(If manufactured prior to June 1988, give 2 letter date code following Model No.)
- Part Number and Description of part.



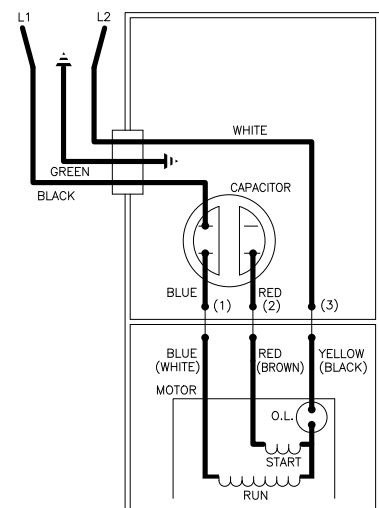
002398

WIRING DIAGRAM FOR
MODELS
"D293-A"
12/80 (YJ) thru 8/96 (US)



004622

WIRING DIAGRAM FOR
MODELS
"D293-B", "D293-C", & "D293-D"
9/86 (VS) thru Current



002397

WIRING DIAGRAM FOR
MODELS
"E293-A", "E293-B", "E293-C", & "E293-D"
12/80 (YJ) thru Current

REPLACEMENT PARTS LIST FOR MODELS "D293".

See back page for "D293" illustration.

MODELS:				D293-A	D293-B	D293-C	D293-D						
REF. NO.	DESCRIPTION	QTY	NOTES	12/80 YJ thru 1/85 MR	2/85 NR thru 8/86 US	9/86 thru 7/09	8/09 thru Current						
1	Case Switch & Cord 230V/1Ph	1	3,4	002378	002378	004748	004748						
2	• Guard	1		001023	001023	001023	001023						
3	Case-Mach "160/180/280/290"	1	3,4	004748	004748	004614	004614						
4	• Arm & Seal Asm "160/180/290"	1	4	002379	004745	004745	004745						
5	• Gasket, Case/Cover	1		001011	001011	001011	001011						
6	Switch Asm "160/180/290"	1	4	002380	002380	004744	004744						
7	• Wire Asm-F-F(1)Wire Gy 7" Lg	1		002609	002609	NA	NA						
8	• Wire Pkg (5) Wires	1		001070	001070	004749	004749						
9	Relay 230V G1 (&G5)	1	2	217093	217093	217093	217093						
10	Capacitor & Clamp Asm 20uf	1		002381	002381	002381	002381						
11	Float, Plastic	1		094039	094039	094039	094039						
12	Guide Asm, Flt Rod	1		001072	001072	001072	001072						
13	Rod Asm, Flt	1		001043	001043	001043	150438						
14	Housing, Mtr- & Strator 230/1Ph	1	1,7	002382	002382	002382	019655						
15	Bearing, Sleeve	1		001012	001012	001012	NA						
16	Bearing, Upper Ball	1		NA	NA	NA	006703						
17	• Handle	1		217069	217069	217069	217069						
18	Cord Term&Seal 20'/230V/1Ph/A	1	3	002429	002429	002429	002429						
19	Clamp, Strain Relief-Red	1		001770	001770	001770	001770						
20	• Seal, Cord-Asm & Strain Relief	1	3	094032	094032	094032	094032						
21	• Plug, Test-White	2		034090	034090	034090	034090						
22	• Seal, Thru Wall Term	3		003402	003402	003402	003402						
23	Rotor & Brg Asm	1	7	001074	001074	001074	019650						
24	• Bearing,Radial	1		001013	001013	001013	010069						
25	• Seal, Mtr Hsg	1		001014	001014	001014	001014						
26	• Oil, Dielectric-(38 Oz Can)	1		002383	002383	002383	011066						
27	Adapter-Mach 163/165/293	1		001003	001003	001003	001003						
28	• Seal, Shaft	1		002430	002430	002430	002430						
29	Flange Pkg 2" Npt	1		10-1305	10-1305	10-1305	10-1305						
30	Flange Pkg 3" Npt	1		10-1306	10-1306	10-1306	10-1306						
31	Impeller "293"	1		001036	004222	004222	004222						
32	Housing, Pump-Mach "293"	1		001005	001005	001005	001005						
33	• Screw,#10-24 X.375 RHM-SI SS	2		001883	001883	001883	001883						
34	• Screw, #6-32x.25RHM SI Tc Stlgr	4		001877	001877	001877	001877						
35	• Screw, .25-20 X .75 HHm-SS	4		001916	001916	001916	001916						
36	• Screw, #6-32x.438RhsItlp"1"Stlzi	2		001877	001877	004644	001909						
37	• Screw, .5-13 X 2 HH Cap-SS	2		001909	001909	001909	001909						
38	• Washer, SS-1.25"Odx.562"Idx.078	2		002115	002115	002115	002115						
39	• Screw, .313-18x1 HH Cap-SS	4		002608	002608	002608	002608						
40	• Screw, .25-20X1" HHM-SS	4		007790	007790	007790	007790						
41	Rebuild Kit "160/185/293"			001076	001076	004747	019647						

• Items included in Rebuild Kit.

□ Not Shown in Illustration.

NOTE: Components are shipped each.

NOTES:

- 1) Mtr. Hsg., Brg., Stator & Term. (Item 13) is preassembled at the factory and must be replaced as a unit. Stator is permanently attached to the Motor Housing. Plug (Item 19); Seal, Thru Wall Term. (Item 20) and Bearing - Upper (Item 14) are replaceable.
- 2) Relay "W1" and "W2" Series is not in pump but is in the high level control. See FM0456 "W1" Parts List or FM0457 "W2" Parts List for relay part number.
- 3) If an "X" follows Model No., or Date Mfg. on brass ID tag, consult factory for ordering of this part.
- 4) When ordering these parts, customer must identify if switch is a General Electric switch.
- 5) See FM0160 Parts Price Sheet for listing of parts prices.
- 6) "NA" indicates, not applicable.
- 7) When ordering specify either General Electric or Emerson motor.

DATE CODE OF MANUFACTURE FROM 12/70 TO 12/88

1st LETTER MONTH		2nd LETTER YEAR			
M -- JAN.	T -- JULY	A -- 1971	G -- 1977	O -- 1983	
N -- FEB.	U -- AUG.	B -- 1972	H -- 1978	P -- 1984	
O -- MARCH	V -- SEPT.	C -- 1973	I -- 1979	R -- 1985	
P -- APRIL	W -- OCT.	D -- 1974	J -- 1980	S -- 1986	
R -- MAY	X -- NOV.	E -- 1975	M -- 1981	T -- 1987	
S -- JUNE	Y -- DEC.	F -- 1976	N -- 1982	U -- 1988	

REPLACEMENT PARTS LIST FOR MODELS "E293".

See back page for "E293" illustration.

MODELS:				E293-A	E293-B	E293-C	E293-D						
REF. NO.	DESCRIPTION	QTY	NOTES	12/80 YJ thru 1/85 MR	2/85 NR thru 8/86 US	9/86 thru 7/09	8/09 thru Current						
1	• Handle	1		217069	217069	217069	217069						
2	Cover & Cord 230V/1Ph	1	2	002401	002401	002401	002401						
3	Cover-Mach Std Cd Or 3Ph "293"	1	2	001077	001077	001077	001077						
4	• Gasket,Case/Cover	1		001011	001011	001011	001011						
5	• Wire Pkg (5) Wires	1		001070	001070	004749	004749						
6	Capacitor & Clamp Asm 20uf	1		002381	002381	002381	002381						
7	Housing,Mtr-& Strator 230/1Ph	1	1,5	002382	002382	002382	019655						
8	Bearing,Sleeve	1		001012	001012	001012	NA						
	Bearing, Upper Ball	1		NA	NA	NA	006703						
9	Cord Term&Seal 20'/230V/1Ph/Na	1	2	002402	002402	002402	002402						
10	Clamp,Strain Relief-Red	1		001770	001770	001770	001770						
11	• Seal,Cord-Asm & Strain Relief	1	2	094032	094032	094032	094032						
12	• Plug,Test-White	2		034090	034090	034090	034090						
13	• Seal,Thru Wall Term	3		003402	003402	003402	003402						
14	Rotor & Brg Asm	1	5	001074	001074	001074	019650						
15	• Bearing,Radial	1		001013	001013	001013	010069						
16	• Seal,Mtr Hsg	1		001014	001014	001014	001014						
17	• Oil,Dielectric-(38 Oz Can)	1		002383	002383	002383	011066						
18	Adapter-Mach 163/165/293	1		001003	001003	001003	001003						
19	• Seal,Shaft	1		002430	002430	002430	002430						
20	{ Flange Pkg 2"Npt	1		10-1305	10-1305	10-1305	10-1305						
	{ Flange Pkg 3"Npt	1		10-1306	10-1306	10-1306	10-1306						
21	Impeller "293"	1		001036	004222	004222	004222						
22	Housing,Pump-Mach "293"	1		001005	001005	001005	001005						
23	• Screw,#6-32x.25RHM SI Tc Stlgr	3		001877	001877	001877	001877						
24	• Screw,#10-24 X.375 RHM-SI SS	1		001883	001883	001883	001883						
25	• Screw,.25-20 X .75 HHM-SS	4		001916	001916	001916	001916						
26	• Screw,.5-13 X 2 HH Cap-SS	2		001909	001909	001909	001909						
27	• Washer,SS-1.25"Odx.562"Idx.078	2		002115	002115	002115	002115						
28	• Screw,.313-18 X 1"HH Cap-SS	4		002608	002608	002608	002608						
29	• Screw,.25-20X1" HHM-SS	4		007790	007790	007790	007790						
□	Rebuild Kit "160/185/293"			001076	001076	004747	019648						

• Items included in Rebuild Kit.

□ Not Shown in Illustration.

NOTE: Components are shipped each.

NOTES:

- 1) Mtr. Hsg., Brg., Stator & Term. (Item 7) is preassembled at the factory and must be replaced as a unit. Stator is permanently attached to the Motor Housing. Plug (Item 12); Seal, Thru Wall Term. (Item 13) and Bearing - Upper (Item 8) are replaceable.
- 2) If an "X" follows Model No., or Date Mfg. on brass ID tag, consult factory for ordering of this part.
- 3) See FM0160 Parts Price Sheet for listing of parts prices.
- 4) "NA" indicates, not applicable.
- 5) When ordering specify either General Electric or Emerson motor.



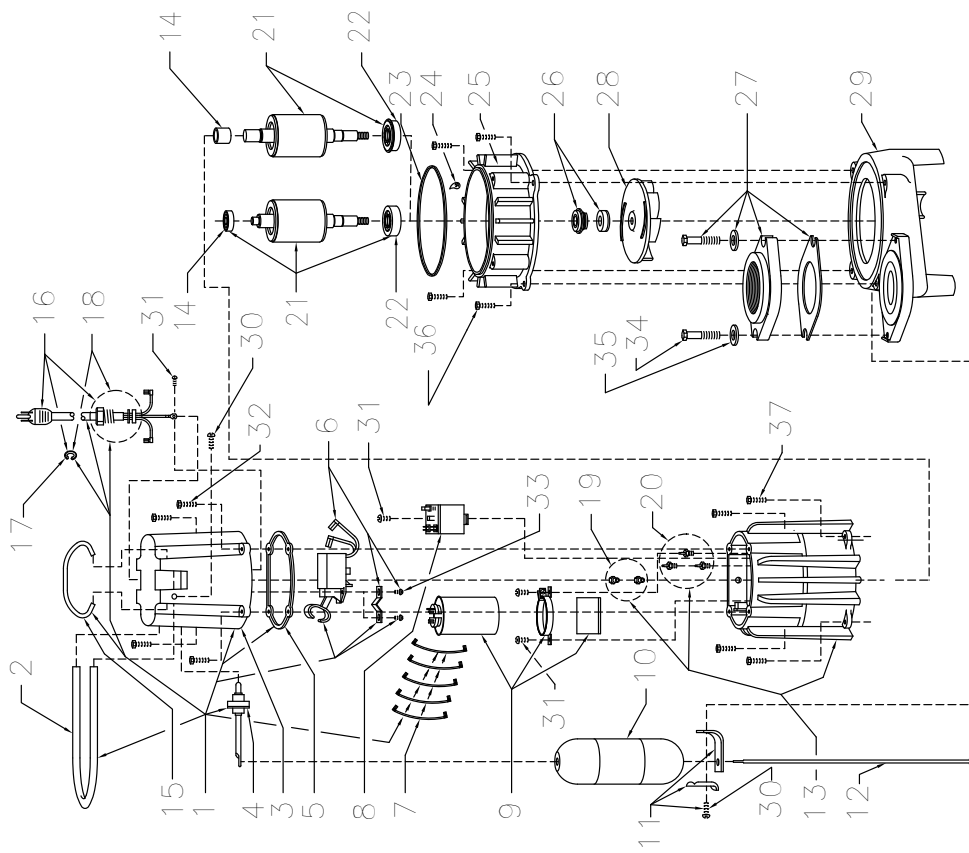
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Your Peace of Mind is Our Top Priority™

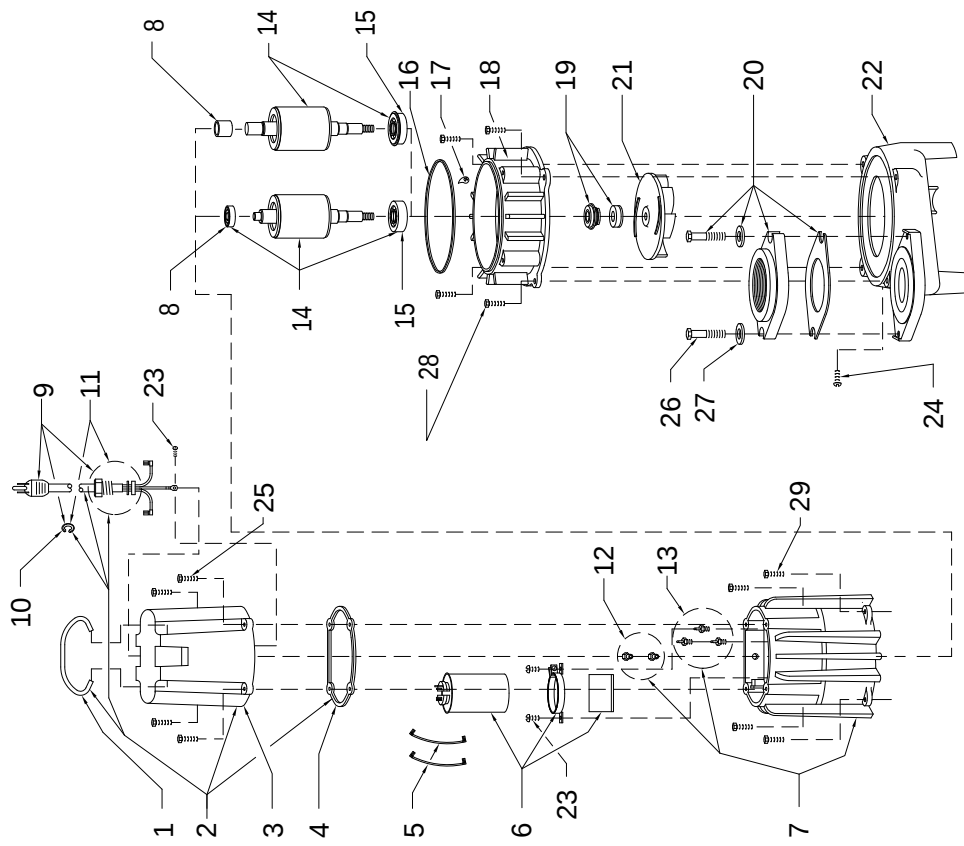
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REPLACEMENT PARTS ILLUSTRATION FOR MODEL "D293"



SK265

REPLACEMENT PARTS ILLUSTRATION FOR MODEL "E293"



SK925