

Model 556 Pneumatic Analog Computer

Give instrument Model Code when ordering.

*Parts preceded by an asterisk are recommended spare parts.
See Recommended Spare Parts Summary section for quantities.

TO ORDER PARTS, CALL 1-866-746-6477.

Parts

Figure 1. Pneumatic Analog Computer

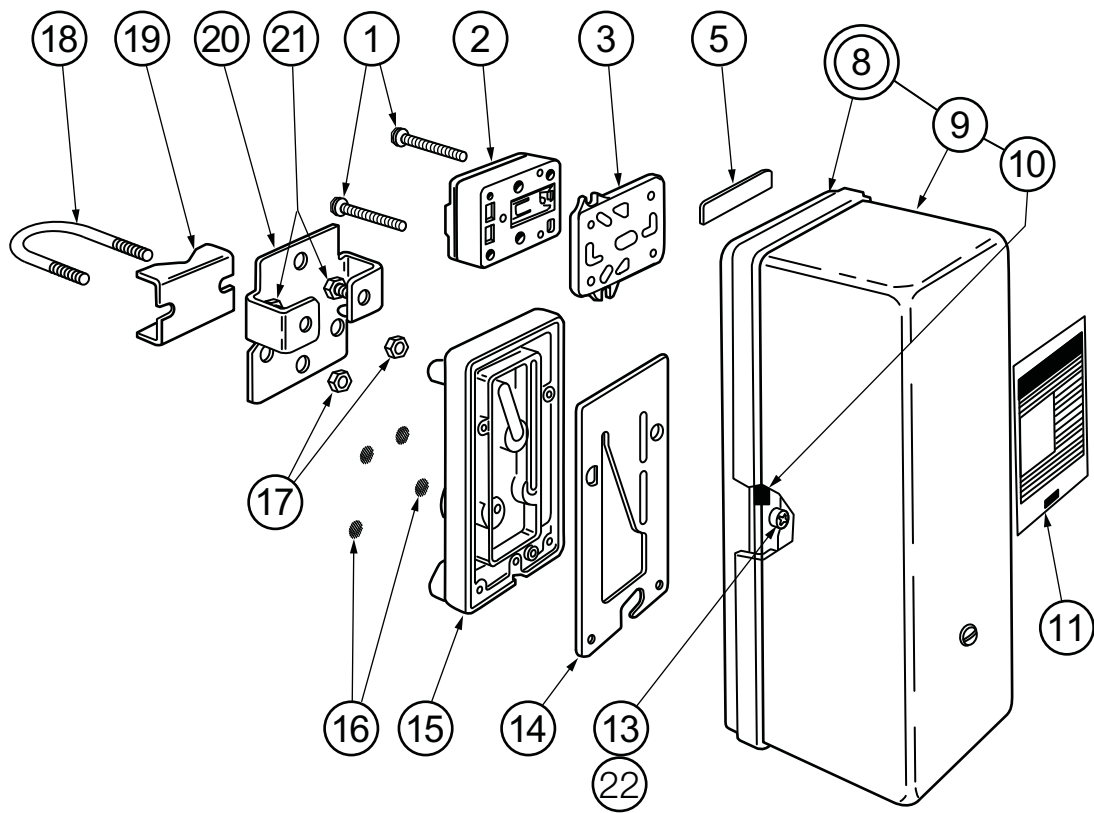


Table 1. Parts for Figure 1

Item	Part No.	Qty.	Part Name
1	B0119SS	2	Screw, Pan H., 0.190-32 x 1.125
*2	C0100CX		Styles A, B, and C
*3	B0119AW	1	Switch Plate
5	U0118FX	1	Indicator Plate
8	—	1	Computer Assembly (See Figure 2)
9	U0118ES	1	Cover Assembly
*10	U0119WX	1	Gasket
11	B0125MZ	1	Data Plate
Mounting Parts			
13-21	U0118KC	1	Mounting Parts Kit
13	X0126UB	3	Screws, Fil.H., 0.190-32 x 1.000
*14	U0118KK	1	Manifold Gasket
15	U0118KE	1	Manifold
*16	U0103FP	4	Screens
—	0012293	1	1/4 NPT Brass Pipe Plug (not shown)
17	0011962	2	Nuts, 0.312-18
18	D0114SM	1	U-Bolt
19	P0120PC	1	Channel

Table 1. Parts for Figure 1 (Continued)

Item	Part No.	Qty.	Part Name
20	U0118KL	1	Mounting Bracket
21	X0100NY	2	Screws, Hex H., 0.312-18 x 0.625
22	X0143NR	3	Lockwasher (Not shown)
—	0011958	2	Screws, Hex H., 0.312-18 x 1.00 (for strut mounting)

Figure 2. Computer Assemblies

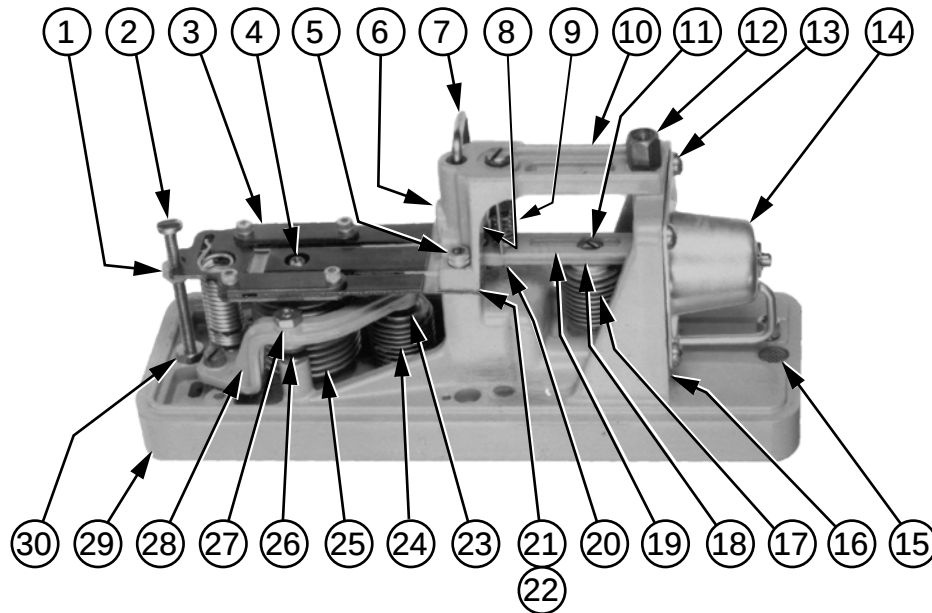


Table 2. Parts for Figure 2

Item	Part No.	Qty.	Part Name
—	Below	1	Computer Assembly (codes -8, -9, -10, -11)
	U0119WH		Span Value (S) 0.625 to 1.000 Model Code 556-XX-X0
	U0119WJ		Span Value (S) 0.486 to 0.624 Model Code 556-XX-X1
	U0119WK		Span Value (S) 0.286 to 0.485 Model Code 556-XX-X2
	U0119WL		Span Value (S) 0.169 to 0.285 Model Code 556-XX-X3
	U0119WM		Span Value (S) 0.050 to 0.186 Model Code 556-XX-X4
—	Below	1	Computer Assembly (codes -8E, -9E)
	U0119UC		Span Value (S) 0.625 to 1.000 Model Code 556-XE-X0
	U0119UD		Span Value (S) 0.486 to 0.624 Model Code 556-XE-X1
	U0119UE		Span Value (S) 0.286 to 0.485 Model Code 556-XE-X2
	U0119UF		Span Value (S) 0.196 to 0.285 Model Code 556-XE-X3
	U0119UG		Span Value (S) 0.050 to 0.168 Model Code 556-XE-X4
NOTE: Items 11, 17, and 18 are not included as part of above assemblies, but must be ordered separately.			
1	X0104BM	1	Stop Nut
2	X0116RA	1	Screw, B.H., 0.164-32 x 2.000
3	U0119WW	1	Flexure Assembly

Table 2. Parts for Figure 2 (Continued)

Item	Part No.	Qty.	Part Name
4	0010441	1	Screw, R.H., 0.125-40 x 0.250
5	X0124PG	2	Screws, Fil.H., 0.164-32 x 0.625 with washers
6	0045703	1	Screw Socket H., 0.164-32 x 0.187
7	U0118BT	1	Tube Assembly
–	C0123AS	1	O-ring, 4.5 mm (0.18 in) ID
–	U0118ER	1	Clamp (holds item 7)
–	0007907	1	Screw, Fil.H., 0.125-40 x 0.187 (holds clamp)
8	X0116RC	2	Screws, Socket H., 0.112-48 x 0.187
9	U0118BN	1	Spring Assembly
9	U0119WB	1	Spring Assembly (codes -8E, -9E)
10	U0118BC	1	Bracket Assembly
–	U0118BK	1	Zero Screw
–	U0118BL	1	Bushing
–	U0118BM	1	Washer
–	X0108CR	1	Retaining Ring
11	X0116RF	1	Screw, B.H., 0.112-48 x 0.312
12	U0118AY	1	Column
13	0001584	4	Screws, R.H., 0.164-32 x 0.250
14	–	1	Cover Assembly and Adjacent Parts (See Figure 3)
*15	U0118EP	1	Vent Screen
*16	C0125AT	2	Restrictor Screw
17	Below	1	Bellows Assembly (A)
	U0118FR		Scaling Factor (f) 0.750 to 1.000 Model Code 556-XX-3X
	U0118KN		Scaling Factor (f) 1.001 to 1.280 Model Code 556-XX-4X
	U0118KT		Scaling Factor (f) 1.281 to 1.600 Model Code 556-XX-5X
	U0118KZ		Scaling Factor (f) 1.601 to 2.050 Model Code 556-XX-6X
	U0118LE		Scaling Factor (f) 2.051 to 2.420 Model Code 556-XX-7X
	U0118LX		Scaling Factor (f) 2.421 to 3.500 Model Code 556-XX-8X
18	N0126CF	1	Washer
19	U0118AZ	1	Force Bar Assembly
20	U0118AR	1	Screw, Hex H., 0.125-56 x 0.312
*21	U0118CK	1	Nozzle
22	0016802	1	Nipple
23	0022781	1	Nut, 0.112-48
*24	Below	1	Bellows Assembly (C)
	U0118EE		In assembly U0119WH, U0119UC
	U0118LW		In assembly U0119WJ, U0119UD
	U0118ME		In assembly U0119WK, U0119UE
	U0118MM		In assembly U0119WL, U0119UF
	U0118MS		In assembly U0119WM, U0119UG
–	U0118LZ	1	Spring (used in addition to Bellows C in assemblies U0119UD, UE, UF, and UG)
*25	U0123AM	1	Bellows Assembly
26	U0119TS	2	Flexure Assembly
27	X0104CY	2	Nut, 0.164-32
28	U0119TQ	1	Bracket Assembly

Table 2. Parts for Figure 2 (Continued)

Item	Part No.	Qty.	Part Name
29	U0119WG	1	Body Assembly
*—	U0118CL	1	Nozzle (in Item 29 under far side of Item 28)
30	0025998	1	Nut, 0.164-32

Figure 3. Cover Assembly and Adjacent Parts

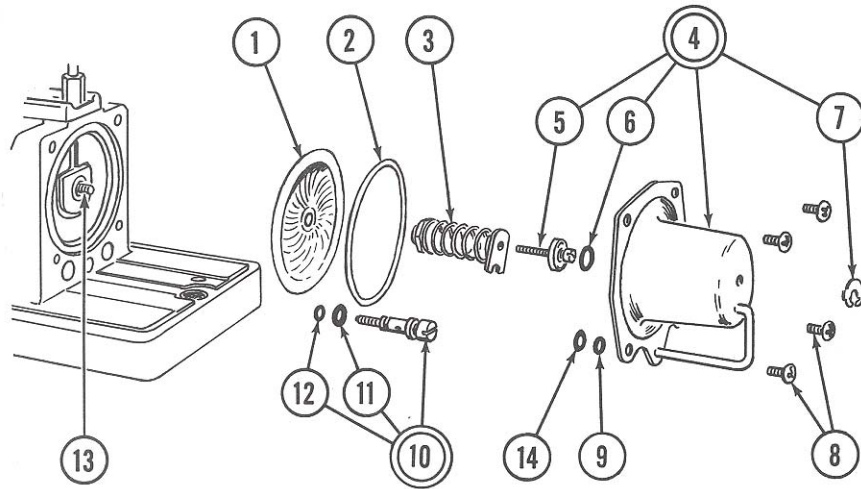


Table 3. Parts for Figure 3

Item	Part No.	Qty.	Part Name
1	U0118EB	1	Diaphragm (B)
2	U0118EC	1	O-ring, 47.2 mm (1.86 in) ID
3	U0118AS	1	Spring Assembly
3	U0119UB	1	Spring Assembly (codes -8E, -9E)
4	U0118AL	1	Cover Assembly
5	U0118AN	1	Zero Screw
*6	C0125BB	1	O-ring, 7.6 mm (0.30 in) ID
7	X0106CR	1	Retaining Ring
8	0001584	4	Screws, R.H., 0.164-32 x 0.250
*9	C0127CM	1	O-ring, 2.9 mm (0.18 in) ID
*10	C0125AT	2	Restrictor Screw Assemblies
*11	C0123AS	1	O-ring, 4.5 mm (0.18 in) ID
*12	C0127CM	1	O-ring, 2.9 mm (0.11 in) ID
13	X0116MZ	1	Screws, Socket H., 0.125-40 x 0.312
14	0010173	1	Fiber Washer

Recommended Spare Parts Summary

Figure Number	Item	Part Number	Part Name	Number of Parts Recommended for 1 Instrument
1	2	C0100CX	Relay (for Styles A, B and C)	1
	3	B0119AW	Switch Plate	1
	10	U0119WX	Gasket	1
	14	U0118KK	Gasket	1
	16	U0103FP	Screen	4
The following parts are associated with the Computer Assembly:				
2	7	U0118BT	Tube Assembly	1
	–	C0123AS	O-ring, 4.5 mm (0.18 in) ID	1
	15	U0118EP	Vent Screen	1
	17	Below	Bellows Assembly	1
		U0118FR	Scaling Factor (f) 0.750 to 1.000 Model Code 556-XX-X3	
		U0118KN	Scaling Factor (f) 1.001 to 1.280 Model Code 556-XX-4X	
		U0118KT	Scaling Factor (f) 1.281 to 1.600 Model Code 556-XX-5X	
		U0118KZ	Scaling Factor (f) 1.601 to 2.050 Model Code 556-XX-6X	
		U0118LE	Scaling Factor (f) 2.051 to 2.420 Model Code 556-XX-7X	
		U0118LK	Scaling Factor (f) 2.421 to 3.500 Model Code 556-XX-8X	
	21	U0118CK	Nozzle	1
	24	Below	Bellows Assembly	1
		U0118EE	Computer Assembly U0119WH, U0119UC	
		U0118LW	Computer Assembly U0119WJ, U0119UD	
		U0118ME	Computer Assembly U0119WK, U0119UE	
		U0118MM	Computer Assembly U0119WL, U0119UF	
		U0118MS	Computer Assembly U0119WM, U0119UG	
	25	U0123AM	Bellows Assembly	1
	–	U0118CL	Nozzle	1
The following parts are found within the Cover Assembly:				
3	1	U0118EB	Diaphragm	1
	2	U0118EC	O-ring, 47.2 mm (1.86 in) ID	1
	6	C0127FT	O-ring, 7.6 mm (0.30 in) ID	1
	7	X0106CR	Retaining Ring	1
	9	C0127CM	O-ring, 2.9 mm (0.11 in) ID	1
	10	C0125AT	Restrictor Screw Assembly	1
	11	C0123AS	O-ring, 4.5 mm (0.18 in) ID	1
	12	C0127CM	O-ring, 2.9 mm (0.11 in) ID	1

