



SC Colorimeter

REVISION P

SINGLE-CHANNEL COLORIMETER

Part No. 199-A001-01, 02, 03

ITEM NO.	PART NO.	DESCRIPTION
1	199-B016-01*	CONTROL MODULE PANEL ASSEMBLY
2	538-0059-01	KNOB, Switch
3	542-7001-01	NUT, Hex., No. 32 x 3/8
4	199-0079-01	PANEL, Control Module
5	534-0058-01	KNOB, Variable resistor
6	620-4007-01	DIAL, Indicator
7	821-0181-01	SCREW, Oval head, cross recessed, No. 6-32 x 1/2 in. lg
8	509-0005-01	CLAMP, Loop
9	819-0201-01	WASHER, Lock, Spring tension, No. 4
10	801-0126-01	SCREW, Filh, No. 4-40 x 3/16 in. lg
11	683-0148-01	SWITCH, Push-button, illuminated
12	653-3044-01	RESISTOR, Variable, 45k Ω \pm 1%, 10-Turn
13	653-3042-01	RESISTOR, Variable, 20k Ω 10-Turn
14	199-0081-01*	SWITCH, Rotary
15	653-6100-01	TRIMPOT**, Resistor, Variable, 1k Ω , (supplied with attaching hardware)
16	653-6062-01	RESISTOR, Variable, 10k Ω (supplied with attaching hardware)
17	669-0270-01	RESISTOR, Fixed, Composition, 22k Ω \pm 5%, 1/4W
18	199-B009-01	CONTROL MODULE ASSEMBLY (Used on Clinical and Basic Industrial Colorimete only.)
	199-B009-03	CONTROL MODULE ASSEMBLY (Used on High-Performance Colorimeter only.)
19	199-0077-01	HOUSING, Control module
20	199-B001-01	CONTROL MODULE CIRCUIT CARD ASSEMBLY
	199-B001-03	HIGH-PERFORMANCE CONTROL MODUL CIRCUIT CARD ASSEMBLY
21	801-0130-01	SCREW, Filh, No. 4-40 x 7/16 in. lg
22	819-0401-01	WASHER, Lock, Spring tension, No. 4
23	692-0016-01	LUG, Ground
24	800-0178-01	SCREW, Bdgh, No. 6-32 x 5/16 in. lg
25	819-0402-01	WASHER, Lock, Spring tension, No. 6
26	801-0130-01	SCREW, Filh, No. 4-40 x 7/16 in. lg
27	819-0001-01	WASHER, Lock, Spring tension, No. 4
28	816-0125-01	NUT, Hex., No. 4
29	199-0080-01	BRACKET, Connector mounting
30	509-0021-01	CLAMP, Loop
31	199-B011-01*	CONTROL MODULE CABLE ASSEMBLY (Used on Clinical and Basic Industrial Colorimeter only.)
	199-B044-01*	CONTROL MODULE CABLE ASSEMBLY (Used on High-Performance Colorimeter only.)
32	199-0060-01	BRACKET, Support
33	801-0232-01	SCREW, Filh, No. 8-32 x 9/16 in. lg
34	819-0203-01	WASHER, Lock, Spring tension, No. 8
35	816-0225-01	NUT, Hex., No. 8
36	801-0232-01	SCREW, Filh, No. 8-32 x 9/16 in. lg
37	800-0231-01	SCREW, Bdgh, No. 8-32 x 1/2 in. lg
38	819-0003-01	WASHER, Lock, Spring tension, No. 8
39	199-B006-01	OPTICS MOUNTING ASSEMBLY
40	800-0229-01	SCREW, Bdgh, No. 8-32 x 3/8 in. lg
41	819-0403-01	WASHER, Lock, Spring tension, No. 8
42	199-0108-01	SHIELD, Light, Optics Assembly
43	199-0109-01	SCREW, Knurled head
44	818-0050-01	WASHER, Flat, No. 4
45	554-5066-01	RING, Retaining

ITEM NO.	PART NO.	DESCRIPTION
46	199-0070-01	SEAL, Aperture Control
47	162-0085-01	BLOCK
48	806-0133-01	SCREW, Rdh, No. 4-40 x 9/16 in. lg
49	818-0050-01	WASHER, Flat, No. 4
50	557-9011-01	SPRING
51	801-0128-01	SCREW, Filh, No. 4-40 x 5/16 in. lg
52	819-0401-01	WASHER, Lock, Spring tension, No. 4
53	199-0137-01	SCREW, Lead, aperture adjusting
54	162-0002-01	NUT, Traveling
55	142-0121-01*	SPRING, Aperture
56	162-B007-02*	BLADE ASSEMBLY, Right-hand
57	162-B007-01*	BLADE ASSEMBLY, Left-hand
58	170-0112-01	SHUTTER
59	199-0088-01	LENS ASSEMBLY, Left-hand
60	199-0087-01	LENS ASSEMBLY, Right-hand
61	199-0034-01	CHIMNEY, Lamp, Source
62	112-B007-01	LAMP ASSEMBLY, Source
63	800-0177-01	SCREW, Bdgh, No. 6-32 x 1/4 in. lg
64	819-0002-01	WASHER, Lock, Spring tension, No. 6 (Used on Clinical and Basic Industrial Colorimeter only.)
	692-0039-01	LUG, Terminal (Used on High-Performance Colorimeter only.)
66	199-0056-01	SOCKET, Source lamp
67	199-0057-01	BASE, Source lamp mounting (Used on Clini- cal and Basic Industrial Colorimeters only.)
68	693-0057-01	BLOCK, Terminal
69	800-0185-01	SCREW, Bdgh, No. 6-32 x 3/4 in. lg
70	819-0402-01	WASHER, Lock, Spring tension, No. 6
71	199-0032-02	COVER, Detector housing (Used on Clinical and Basic Industrial Colorimeter only)
	199-0129-01	COVER, Detector housing (Used on High- Performance Colorimeter only.)
72	556-0075-01	GROMMET (Supplied with item No. 71)
73	199-0043-01	SCREW, Knurled head
74	170-0095-01*	RECEPTACLE, Phototube
75	199-0102-01*	HOLDER, Phototube receptacle
76	801-0126-01	SCREW, Filh, No. 4-40 x 3/16 in. lg
77	819-0201-01	WASHER, Lock, Spring tension, No. 4
78	829-0125-01	SETSCREW, Hex., Sch, No. 4-40
79	199-0031-01*	HOUSING, Machined
80	199-0103-01*	PLATE, Adjusting
81	835-0232-01*	SCREW, Hex., Sch, No. 8-32 x 9/16 in. lg
82	557-7026-01*	WASHER, Flat, No. 8
83	816-0225-01*	NUT, Hex., No. 8
84	800-0129-01*	SCREW, Bdgh, No. 4-40 x 3/8 in. lg
85	557-7083-01*	WASHER, Spring, special
86	818-0050-01*	WASHER, Flat, No. 4
87	199-0090-01*	BASE, Housing
88	199-0055-01	SCREW, Housing hold-down
89	199-0083-01*	STOPPER, Feed-through
90	199-B015-01	BOTTOM COVER ASSEMBLY
91	800-1177-01	SCREW, Bdgh, No. 6-32 x 1/4 in. lg
92	819-1402-01	WASHER, Lock, Spring tension, No. 6
93	199-0075-01	BASE, Colorimeter
94	199-B002-01	CIRCUIT CARD ASSEMBLY
95	800-0177-01	SCREW, Bdgh, No. 6-32 x 1/4 in. lg
96	819-0402-01	WASHER, Lock, Spring tension, No. 6

ITEM NO.	PART NO.	DESCRIPTION
97	601-4057-01	LOG-RATIO MODULE (Used on High- Performance Colorimeter only.)
	601-4052-01	LOG-RATIO MODULE (Used on Clinical and Basic Industrial Colorimeter only.)
98	199-B008-01	HOUSING AND COVER ASSEMBLY
99	199-0059-01	SCREW, Captive
100	554-5029-01	RING, Retaining
101	805-0131-01	SCREW, Pnh, No. 4-40 x 1/2 in. lg
102	819-0001-01	WASHER, Lock, Spring tension, No. 4
103	199-0064-01	HOUSING
104	199-B017-01	COVER ASSEMBLY
105	199-0111-01*	BRACKET, Switch
106	536-4015-01*	LATCH, Magnetic
107	800-0177-01*	SCREW, Bdgh, No. 6-32 x 1/4 in. lg
108	819-0402-01*	WASHER, Lock, Spring tension, No. 6
109	199-B025-01	INLET BLOCK MOUNTING ASSEMBLY
110	835-0230-01	SETSCREW, Hex., Sch, No. 8-32 x 7/16 in. lg
111	819-0403-01	WASHER, Lock, Spring tension, No. 8
112	683-5051-01*	SWITCH, Toggle
113	801-0079-01	SCREW, Filh, No. 2-56 x 3/8 in. lg
114	819-0400-01	WASHER, Lock, Spring tension, No. 2
115	816-0075-01	NUT, Hex., No. 2
116	626-0001-01	FUSEHOLDER
117	625-0011-01	FUSE, 0.5 A, Slow Blow
118	170-B070-21	FILTER, Reference channel
119		FLOWCELL (Order per Existing Part No.)
120	199-B021-01	PHOTOTUBE ASSEMBLY, 380-660 nm (Used on Basic Industrial Colorimeter only.)
	199-B021-02	PHOTOTUBE ASSEMBLY, 380-660 nm (Used on Clinical Colorimeter only.)
	199-B021-03	PHOTOTUBE ASSEMBLY, 380-660 nm (Used on High-Performance Colorimeter only.)
	199-B021-04	PHOTOTUBE ASSEMBLY, 380-660 nm (Limited application on industrial Colori- meter only.)
121	615-3348-01*	CONNECTOR (Supplied with Harness Assy. Part No. 199-B044-01, standard; and Part No. 199-B011-01, high-performance.)
122	615-3433-01*	CONNECTOR (Supplied with Harness Assy. Part No. 199-B044-01, standard; and Part No. 199-B011-01, high-performance.)
123	615-3004-01*	CONNECTOR (Supplied with Harness Assy. Part No. 199-B044-01, standard; and Part No. 199-B011-01, high-performance.)
124	615-3061-01*	CONNECTOR (Supplied with Harness Assy. Part No. 199-B044-01, standard; and Part No. 199-B011-01, high-performance.)
125	199-0138-01	SLEEVE, Lead screw
126	199-0139-01*	BRACKET, Alignment, phototube (Used on Clinical and Basic Industrial Colorimeter only.)
127	615-3367-01*	CONNECTOR
128	615-3051-01*	CONNECTOR
129		INLET BLOCK (Order per Existing Part No.)