

SECTION 11

PHASE MAINTENANCE TOOL LIST AND CONTAINER LAYOUT

11-1 INTRODUCTION.

The tool list and the layout for the containers assigned to Phase Maintenance are presented in this section. The tool list indicates the tool and identifies it by number and panel for ready reference to the layout diagram. The hardware used to mount the tools is illustrated in Section 5 of this manual.

11-2 TOOL LIST AND LAYOUT.

- a. H-53E PM-1 Phase Maintenance Box (page 11-1 through 11-7). See Figure 11-1.

H-53E PM-1 PHASE MAINTENANCE BOX G-BOX (ONE PER EACH WORK CENTER) (ONE PER EACH DETACHMENT)

PANEL A

<u>ITEM</u>		<u>FIGURE</u>
1	Tag, Identification (Tool)	5-19
2	Tag, Identification (Tool)	5-19
3	Tag, Identification (Tool)	5-19
4	Tag, Identification (Tool)	5-19
5	Tag, Identification (Tool)	5-19
6	Tag, Identification (Tool)	5-19
7	Tag, Identification (Tool)	5-19
8	Tag, Identification (Tool)	5-19
9	Tag, Identification (Tool)	5-19
10	Tag, Identification (Tool)	5-19
11	Flashlight, Mag, 2 Cell	5-16
12	Flashlight, Mag, 2 Cell	5-16
13	Flashlight, Mag, 2 Cell	5-16
14	Flashlight, Mag, 2 Cell	5-16
15	Crowfoot Attachment, 3/8" Drive, 3/8" Open End	5-15
16	Crowfoot Attachment, 3/8" Drive, 7/16" Open End	5-15
17	Crowfoot Attachment, 3/8" Drive, 1/2" Open End	5-15
18	Crowfoot Attachment, 3/8" Drive, 9/16" Open End	5-15
19	Crowfoot Attachment, 3/8" Drive, 5/8" Open End	5-15
20	Crowfoot Attachment, 3/8" Drive, 11/16" Open End	5-15
21	Crowfoot Attachment, 3/8" Drive, 3/4" Open End	5-15
22	Crowfoot Attachment, 3/8" Drive, 13/16" Open End	5-15
23	Crowfoot Attachment, 3/8" Drive, 7/8" Open End	5-15
24	Crowfoot Attachment, 3/8" Drive, 15/16" Open End	5-15
25	Crowfoot Attachment, 3/8" Drive, 1" Open End	5-15
26	Adapter, Torque Wrench, 1/2" Drive, 9/16", Spline #18	5-15
27	Adapter, Torque Wrench, 1/2" Drive, 5/8", Spline #20	5-15
28	Adapter, Torque Wrench, 1/2" Drive, 11/16", Spline #22	5-15
29	Adapter, Torque Wrench, 1/2" Drive, 3/4", Spline #24	5-15
30	Adapter, Torque Wrench, 1/2" Drive, 13/16", Spline #26	5-15
31	Adapter, Torque Wrench, 1/2" Drive, 7/8", Spline #28	5-15

NAVAIR 17-1H53E-1

PANEL A (Con't.)

<u>ITEM</u>		<u>FIGURE</u>
32	Adapter, Torque Wrench, 3/8" Drive, 7/32", Spline #7	5-15
33	Adapter, Torque Wrench, 3/8" Drive, 1/4", Spline #8	5-15
34	Adapter, Torque Wrench, 3/8" Drive, 9/32", Spline #9	5-15
35	Adapter, Torque Wrench, 3/8" Drive, 5/16", Spline #10	5-15
36	Adapter, Torque Wrench, 3/8" Drive, 3/8", Spline #12	5-15
37	Adapter, Torque Wrench, 3/8" Drive, 7/16", Spline #14	5-15
38	Adapter, Torque Wrench, 3/8" Drive, 1/2", Spline #16	5-15
39	Pliers, Slip Joint, 6"	5-18
40	Pliers, Slip Joint, 6"	5-18
41	Pliers, Needle Nose with Side Cut, 7"	5-18
42	Pliers, Needle Nose with Side Cut, 7"	5-18
43	Pliers, Diagonal Cut, 7-1/2"	5-18
44	Pliers, Diagonal Cut, 4-1/2"	5-18
45	Pliers, Diagonal Cut, 4-1/2"	5-18
46	Pliers, Needle Nose, Curved, 6"	5-18
47	Pliers, Needle Nose, Curved, 6"	5-18
48	Pliers, Slip Joint, Electrical Connector, 9"	5-18
49	Pliers, Wire Twister	5-18
50	Pliers, Wire Twister	5-18
51	Pliers, Wire Twister	5-18
52	Pliers, Wire Twister	5-18

PANEL B

<u>ITEM</u>		<u>FIGURE</u>
1	Drill, Hand, Hollow Handle (18 pcs)	5-6, 5-16
2	Wrench, Pliers, 7"	5-6, 5-16
3	Wrench, Pliers, Curved Jaw with Cutter, 5"	5-6, 5-16
4	Wrench, Ratchet, Reversible, Box, 5/8" x 11/16"	5-6, 5-16
5	Wrench, Ratchet, Reversible, Box, 1/2" x 9/16", 6 Point	5-6, 5-16
6	Drill Set, Twist, Cobalt, #1 to #40	SCREWS
7	Handle, Socket Wrench, Speeder, 3/8" Drive	5-9
8	Handle, Socket Wrench, Speeder, 3/8" Drive	5-9
9	Extension, 1/4" Drive, 14"	5-1
10	Extension, 1/4" Drive, 14"	5-1
11	Scriber, Machinist's, 8" (3 pcs)	5-1
12	Scriber, Machinist's, 8" (3 pcs)	5-1
13	Wrench, Ratchet, Reversible, Box, 3/8" x 7/16", 6 Point	5-1
14	Wrench, Ratchet, Reversible, Box, 1/4" x 5/16", 6 Point	5-1
15	Screwdriver, Jeweler's, 0.100"	5-1
16	Screwdriver, Jeweler's, 0.080"	5-1
17	Wrench, Combination, 1/4"	5-18
18	Wrench, Combination, 1/4"	5-18
19	Wrench, Combination, 5/16"	5-18
20	Wrench, Combination, 5/16"	5-18
21	Wrench, Combination, 11/32"	5-18
22	Wrench, Combination, 11/32"	5-18
23	Wrench, Combination, 3/8"	5-18

PANEL B (Con't.)

<u>ITEM</u>		<u>FIGURE</u>
24	Wrench, Combination, 3/8"	5-18
25	Wrench, Combination, 7/16"	5-18
26	Wrench, Combination, 7/16"	5-18
27	Wrench, Combination, 1/2"	5-18
28	Wrench, Combination, 1/2"	5-18
29	Wrench, Combination, 9/16"	5-18
30	Wrench, Combination, 9/16"	5-18
31	Wrench, Combination, 5/8"	5-18
32	Wrench, Combination, 5/8"	5-18
33	Wrench, Combination, 11/16"	5-18
34	Wrench, Combination, 11/16"	5-18
35	Wrench, Combination, 3/4"	5-18
36	Wrench, Combination, 3/4"	5-18
37	Wrench, Combination, 13/16"	5-18
38	Wrench, Combination, 13/16"	5-18
39	Wrench, Adjustable, 4"	5-18
40	Wrench, Adjustable, 6"	5-18
41	Wrench, Adjustable, 8"	5-18
42	Wrench, Adjustable, 10"	5-18
43	Gauge, Thickness, 25 Leaves, 3"	5-18
44	Gauge, Thickness, 25 Leaves, 12"	5-18
45	Rule, Steel, Machinist's, 12"	5-18
46	Screwdriver, Flat Tip, 1/4" x 4"	5-18
47	Screwdriver, Flat Tip, 1/4" x 4"	5-18
48	Screwdriver, Flat Tip, 5/16" x 1-3/4"	5-18
49	Screwdriver, Flat Tip, 5/16" x 1-3/4"	5-18
50	Wrench, Combination, 1-1/16"	5-18
51	Wrench, Combination, 1-1/16"	5-18
52	Wrench, Combination, 1-1/8"	5-18
53	Wrench, Combination, 1-1/8"	5-18
54	Wrench, Combination, 1-1/4"	5-18
55	Wrench, Combination, 1-1/4"	5-18
56	Extension, 1/4" Drive, 2"	5-18
57	Extension, 1/4" Drive, 6"	5-18
58	Handle, Socket Wrench, Reversible, 1/4" Drive	5-18
59	Handle, Socket Wrench, Reversible, 1/4" Drive	5-18
60	Handle, Socket Wrench, Sliding T, 3/8" Drive	5-18
61	Handle, Socket Wrench, Hinged, 3/8" Drive	5-18
62	Handle, Socket Wrench, Reversible, 3/8" Drive	5-18
63	Handle, Socket Wrench, Sliding T, 3/8" Drive	5-18
64	Handle, Socket Wrench, Hinged, 3/8" Drive	5-18
65	Handle, Socket Wrench, Reversible, 3/8" Drive	5-18
66	Extension, 3/8" Drive, 3"	5-18
67	Extension, 3/8" Drive, 6"	5-18
68	Extension, 3/8" Drive, 11"	5-18
69	Extension, 3/8" Drive, 3"	5-18
70	Extension, 3/8" Drive, 6"	5-18
71	Extension, 3/8" Drive, 11"	5-18
72	Handle, Socket Wrench, Hinged, 1/2" Drive	5-18

NAVAIR 17-1H53E-1

PANEL B (Con't.)

<u>ITEM</u>		<u>FIGURE</u>
73	Handle, Socket Wrench, Reversible, 1/2" Drive	5-18
74	Handle, Socket Wrench, Hinged, 1/2" Drive	5-18
75	Handle, Socket Wrench, Reversible, 1/2" Drive	5-18
76	Extension, 1/2" Drive, 5"	5-18
77	Extension, 1/2" Drive, 5"	5-18
78	Extension, 1/2" Drive, 10"	5-18
79	Extension, 1/2" Drive, 10"	5-18
80	Screwdriver, Phillips, #2, 1-1/2"	5-18
81	Screwdriver, Phillips, #2, 1-1/2"	5-18
82	Screwdriver, Phillips, #2, 4"	5-18
83	Screwdriver, Phillips, #2, 4"	5-18
84	Handle, Socket Wrench, Speeder, 3/8" Drive	5-18
85	Handle, Socket Wrench, Speeder, 3/8" Drive	5-18
86	Wrench, Open End, Thin, Single Head, 3/4"	5-18
87	Wrench, Open End, Thin, Single Head, 3/4"	5-18
88	Wrench, Open End, Thin, Single Head, 7/8"	5-18
89	Wrench, Open End, Thin, Single Head, 7/8"	5-18
90	Wrench, Open End, Thin, Single Head, 1"	5-18
91	Wrench, Open End, Thin, Single Head, 1"	5-18
92	Wrench, Open End, Thin, Single Head, 1-3/16"	5-18
93	Wrench, Open End, Thin, Single Head, 1-3/16"	5-18
94	Wrench, Open End, Thin, Single Head, 1-1/4"	5-18
95	Wrench, Open End, Thin, Single Head, 1-1/4"	5-18
96	Wrench, Open End, Thin, Single Head, 1-5/16"	5-18
97	Wrench, Open End, Thin, Single Head, 1-5/16"	5-18
98	Wrench, Open End, Thin, Single Head, 1-3/8"	5-18
99	Wrench, Open End, Thin, Single Head, 1-3/8"	5-18
100	Wrench, Open End, Thin, Single Head, 1-7/16"	5-18
101	Wrench, Open End, Thin, Single Head, 1-7/16"	5-18
102	Wrench, Open End, Thin, Single Head, 1-1/2"	5-18
103	Wrench, Open End, Thin, Single Head, 1-9/16"	5-18
104	Wrench, Open End, Thin, Single Head, 1-9/16"	5-18
105	Wrench, Open End, Thin, Single Head, 1-5/8"	5-18
106	Wrench, Open End, Thin, Single Head, 1-5/8"	5-18
107	Wrench, Open End, Thin, Single Head, 1-3/4"	5-18
108	Wrench, Open End, Thin, Single Head, 1-3/4"	5-18
109	Wrench, Open End, Thin, Single Head, 2"	5-18
110	Wrench, Open End, Thin, Single Head, 2"	5-18
111	Socket, 3/8" Drive, 1/4"	5-15
112	Socket, 3/8" Drive, 1/4"	5-15
113	Socket, 1/4" Drive, 3/16"	5-15
114	Socket, 1/4" Drive, 3/16"	5-15
115	Socket, 1/4" Drive, 7/32"	5-15
116	Socket, 1/4" Drive, 7/32"	5-15
117	Socket, 1/4" Drive, 1/4"	5-15
118	Socket, 1/4" Drive, 1/4"	5-15
119	Socket, 1/4" Drive, 9/32"	5-15
120	Socket, 1/4" Drive, 9/32"	5-15
121	Socket, 1/4" Drive, 5/16"	5-15

PANEL B (Con't.)

<u>ITEM</u>		<u>FIGURE</u>
122	Socket, 1/4" Drive, 5/16"	5-15
123	Socket, 1/4" Drive, 11/32"	5-15
124	Socket, 1/4" Drive, 11/32"	5-15
125	Socket, 1/4" Drive, 3/8"	5-15
126	Socket, 1/4" Drive, 3/8"	5-15
127	Socket, 1/4" Drive, 7/16"	5-15
128	Socket, 1/4" Drive, 7/16"	5-15
129	Universal Joint, 1/4" Drive	5-15
130	Socket, Universal, 1/4" Drive, 3/8"	5-15
131	Universal Joint, 3/8" Drive	5-15
132	Socket, Universal, 3/8" Drive, 3/8"	5-15
133	Socket, 3/8" Drive, 3/8"	5-15
134	Socket, 3/8" Drive, 3/8"	5-15
135	Chuck, Air Inflating, 70 Degree	5-18
136	Extractor, Screw, Tapered, Size 2	5-20
137	Extractor, Screw, Tapered, Size 2	5-20
138	Socket, 3/8" Drive, 5/16"	5-15
139	Socket, 3/8" Drive, 5/16"	5-15
140	Socket, 3/8" Drive, 3/8"	5-15
141	Socket, 3/8" Drive, 3/8"	5-15
142	Socket, 3/8" Drive, 7/16"	5-15
143	Socket, 3/8" Drive, 7/16"	5-15
144	Socket, 3/8" Drive, 1/2"	5-15
145	Socket, 3/8" Drive, 1/2"	5-15
146	Socket, 3/8" Drive, 9/16"	5-15
147	Socket, 3/8" Drive, 9/16"	5-15
148	Socket, 3/8" Drive, 5/8"	5-15
149	Socket, 3/8" Drive, 5/8"	5-15
150	Socket, 3/8" Drive, 11/16"	5-15
151	Socket, 3/8" Drive, 11/16"	5-15
152	Socket, 3/8" Drive, 3/4"	5-15
153	Socket, 3/8" Drive, 3/4"	5-15
154	Socket, 3/8" Drive, 13/16"	5-15
155	Socket, 3/8" Drive, 13/16"	5-15
156	Socket, 3/8" Drive, 7/8"	5-15
157	Socket, 3/8" Drive, 7/8"	5-15
158	Socket, 1/2" Drive, 1/2"	5-15
159	Socket, 1/2" Drive, 1/2"	5-15
160	Socket, 1/2" Drive, 9/16"	5-15
161	Socket, 1/2" Drive, 9/16"	5-15
162	Socket, 1/2" Drive, 5/8"	5-15
163	Socket, 1/2" Drive, 5/8"	5-15
164	Socket, 1/2" Drive, 11/16"	5-15
165	Socket, 1/2" Drive, 11/16"	5-15
166	Socket, 1/2" Drive, 3/4"	5-15
167	Socket, 1/2" Drive, 3/4"	5-15
168	Socket, 1/2" Drive, 13/16"	5-15
169	Socket, 1/2" Drive, 13/16"	5-15
170	Socket, 1/2" Drive, 7/8"	5-15

NAVAIR 17-1H53E-1

PANEL B (Con't.)

<u>ITEM</u>		<u>FIGURE</u>
171	Socket, 1/2" Drive, 7/8"	5-15
172	Socket, 1/2" Drive, 15/16"	5-15
173	Socket, 1/2" Drive, 15/16"	5-15
174	Socket, 1/2" Drive, Deep, 1/2"	5-15
175	Socket, 1/2" Drive, Deep, 9/16"	5-15
176	Socket, 1/2" Drive, Deep, 5/8"	5-15
177	Socket, 1/2" Drive, Deep, 11/16"	5-15
178	Socket, 1/2" Drive, Deep, 11/16"	5-15
179	Socket, 1/2" Drive, Deep, 3/4"	5-15
180	Socket, 1/2" Drive, Deep, 13/16"	5-15
181	Socket, 1/2" Drive, Deep, 7/8"	5-15
182	Socket, 1/2" Drive, Deep, 15/16"	5-15
183	Socket, 3/8" Drive, Deep, 3/8"	5-15
184	Socket, 3/8" Drive, Deep, 3/8"	5-15
185	Socket, 3/8" Drive, Deep, 7/16", 6 Point	5-15
186	Socket, 3/8" Drive, Deep, 7/16"	5-15
187	Socket, 3/8" Drive, Deep, 9/16"	5-15
188	Socket, 3/8" Drive, Deep, 9/16"	5-15
189	Socket Wrench Attachment, 3/8" Drive, Hex, 5/32", Long	5-15
190	Socket Wrench Attachment, 3/8" Drive, Phillips #2	5-15
191	Socket Wrench Attachment, 3/8" Drive, Phillips #2	5-15
192	File Set, Swiss, Snap-on (12 pcs)	5-13

PANEL C

<u>ITEM</u>		<u>FIGURE</u>
1	Key, Socket Head Screw, Hex, 0.028"	5-3
2	Key, Socket Head Screw, Hex, 0.035"	5-3
3	Key, Socket Head Screw, Hex, 0.050"	5-3
4	Key, Socket Head Screw, Hex, 1/16"	5-3
5	Key, Socket Head Screw, Hex, 5/64"	5-3
6	Key, Socket Head Screw, Hex, 3/32"	5-3
7	Key, Socket Head Screw, Hex, 7/64"	5-3
8	Key, Socket Head Screw, Hex, 1/8"	5-3
9	Key, Socket Head Screw, Hex, 9/64"	5-3
10	Key, Socket Head Screw, Hex, 5/32"	5-3
11	Key, Socket Head Screw, Hex, 3/16"	5-3
12	Key, Socket Head Screw, Hex, 7/32"	5-3
13	Key, Socket Head Screw, Hex, 1/4"	5-3
14	Key, Socket Head Screw, Hex, 5/16"	5-3
15	Key, Socket Head Screw, Hex, 3/8"	5-3
16	Wire, Nonelectrical, 0.032"	5-4
17	Wire, Nonelectrical, 0.020"	5-4
18	Wrench, Open End, Thin, Single Head, 1-1/8"	5-18
19	Wrench, Open End, Thin, Single Head, 1-1/8"	5-18
20	Mallet, Rubber, 24 oz	5-18
21	Hammer, Ball Peen, 12 oz	5-18
22	Wrench, Pipe, Strap, 1" to 5" Capacity	5-18

PANEL C (Con't.)

<u>ITEM</u>		<u>FIGURE</u>
23	Finger, Mechanical, Rigid, 10-1/2"	5-18
24	Finger, Mechanical, Flexible, 17-1/2"	5-18
25	Mirror, Inspection, Telescoping, 2-1/4" Diameter, 35" Extension	5-18
26	Mirror, Inspection, Telescoping, 2-1/4" Diameter, 14" Extension	5-18
27	Screwdriver, Flat Tip, 3/8" x 10"	5-18
28	Screwdriver, Flat Tip, 3/8" x 12"	5-18
29	Screwdriver, Flat Tip, 1/4" x 8"	5-18
30	Screwdriver, Flat Tip, 1/4" x 8"	5-18
31	Screwdriver, Phillips, #2, 8"	5-18
32	Screwdriver, Phillips, #2, 12"	5-18
33	Screwdriver, Phillips, #2, 7"	5-18
34	Screwdriver, Phillips, #2, 7"	5-18
35	Retrieving Tool, Magnetic, Telescoping	5-18

KEY PLAN

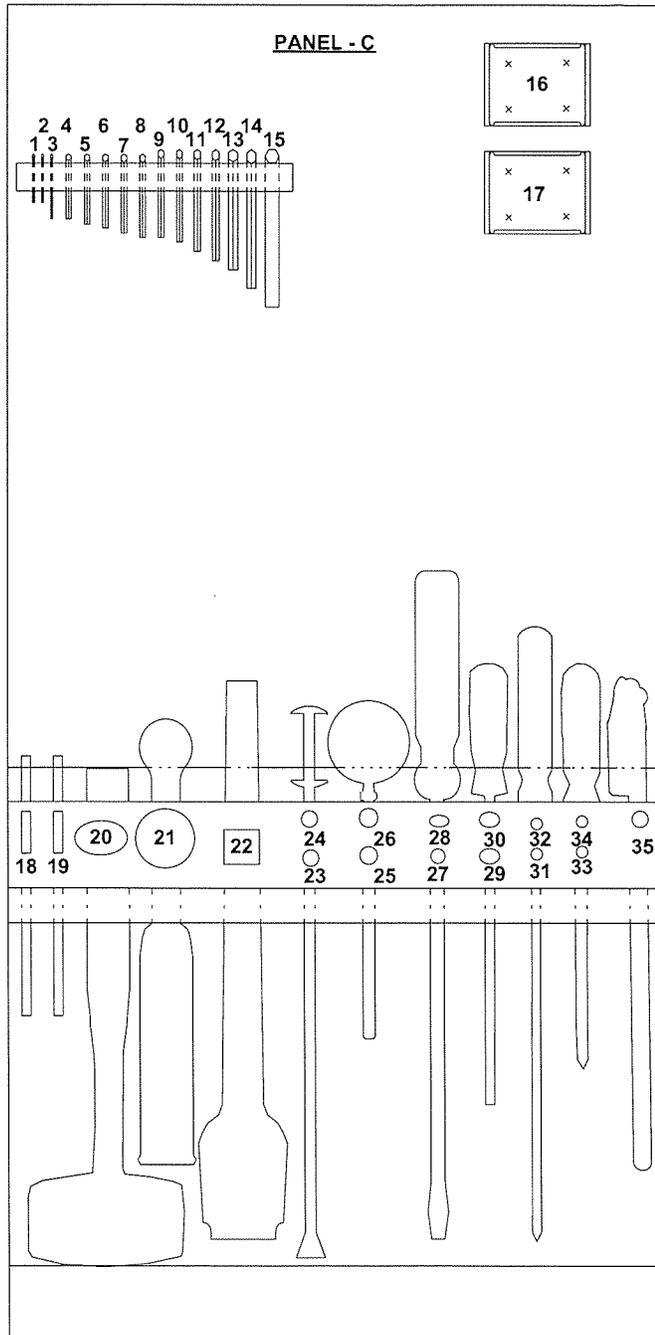
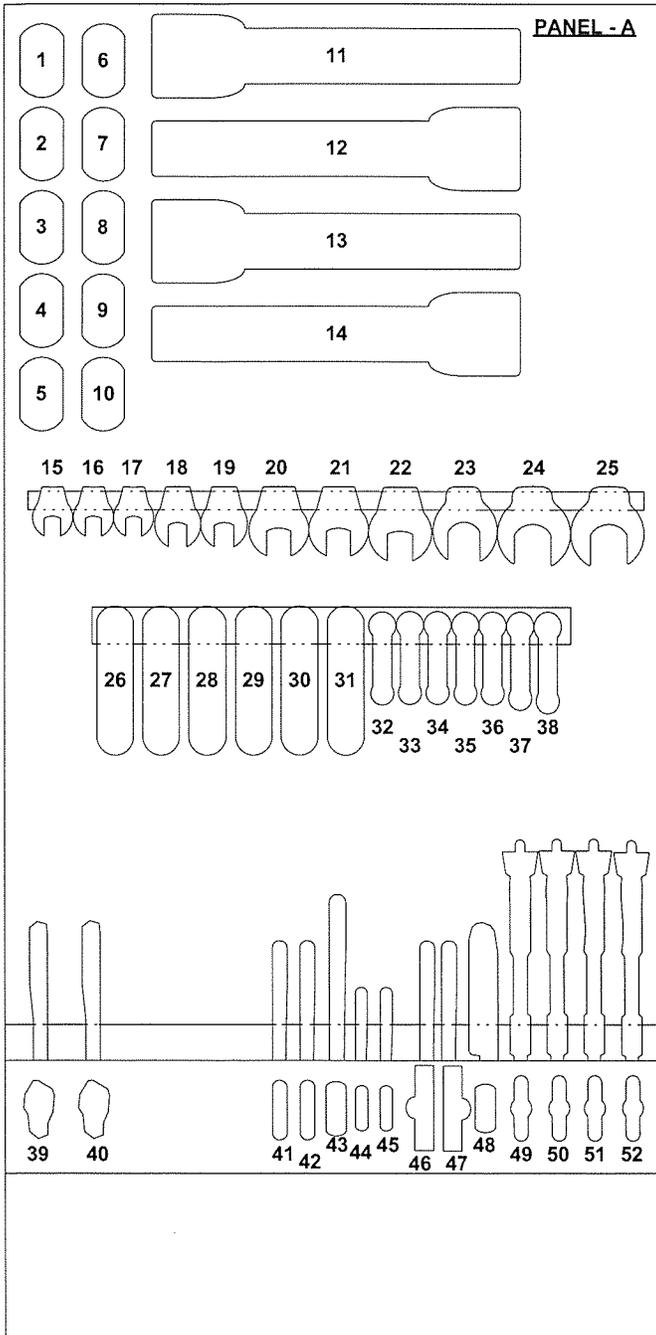
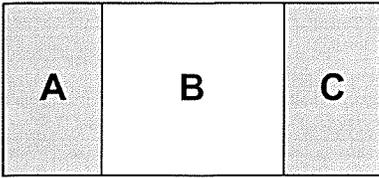


Figure 11-1. H-53E PM-1 Phase Maintenance Box (Sheet 1 of 2)

KEY PLAN

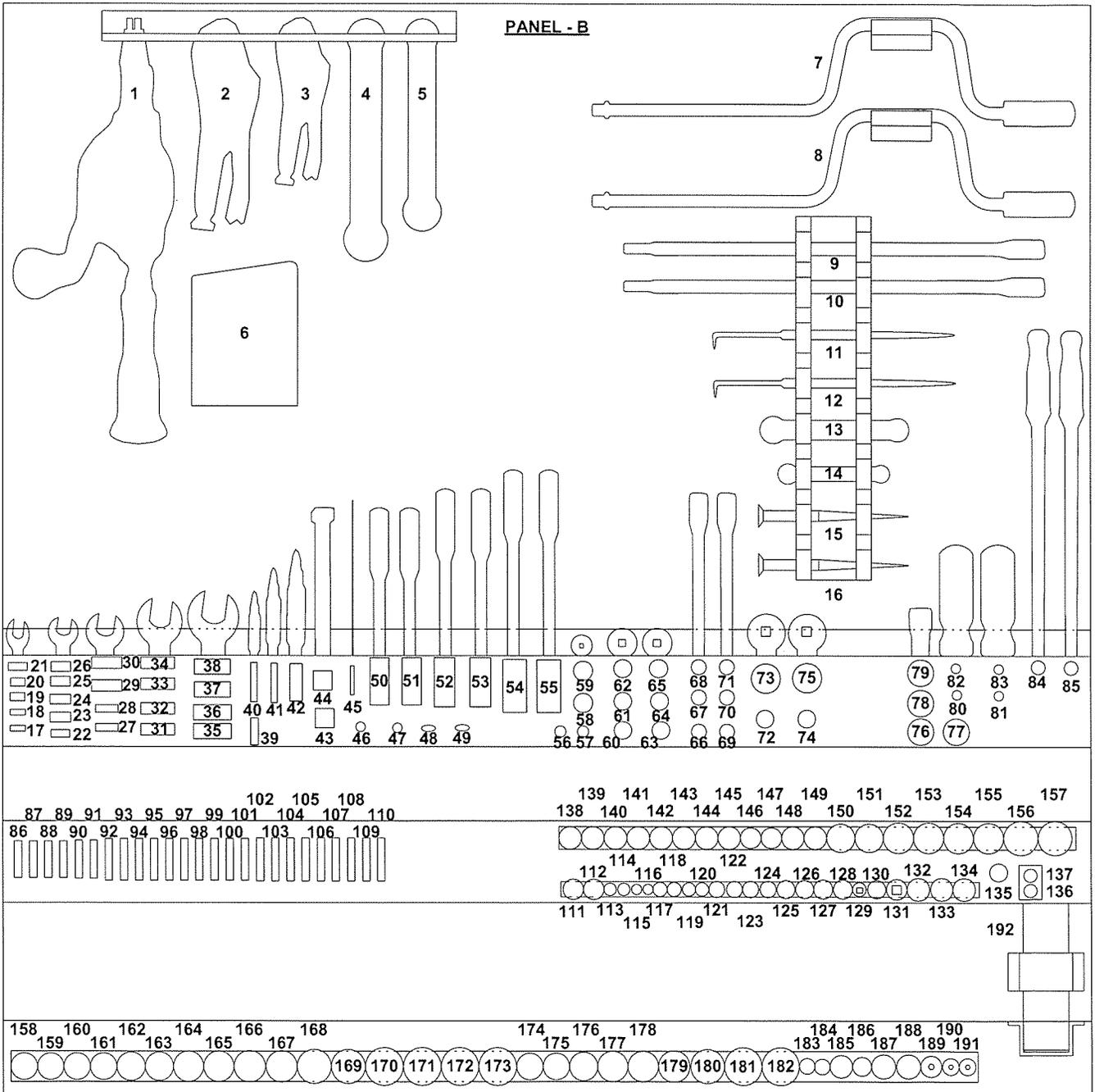
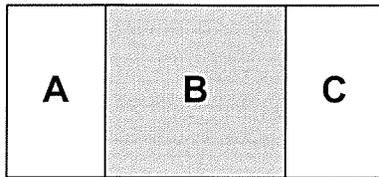


Figure 11-1. H-53E PM-1 Phase Maintenance Box (Sheet 2 of 2)

