

FIELD BOLT LIST										A325 Type 1 GALV. BOLTS									
LINE	NO REQ'D.	BOLT DIAM.	BOLT LEN.	BOLTS # OF CONN.	GRIP	THICKNESS OF PCS. CONNECTED	WASH CODE	PIECES CONNECTED AND REMARKS											
1								JOINT L0 & L10											
2								EXTERIOR											
3								EXTERIOR											
4	176	7/8	4 1/2	44	4	3	3/4	2 1/4	L1	Guss ~ Vertical									
5	224	7/8	4 1/2	56	4	3	3/4	2 1/4	L1	Guss ~ Diagonal									
6	256	7/8	4 1/2	64	4	3	3/4	1 1/8	L1	Guss ~ Fill ~ Chord									
7								INTERIOR											
8								INTERIOR											
9	80	7/8	4 1/2	20	4	3	3/4	2 1/4	L1	Guss ~ Vertical									
10	224	7/8	4 1/2	56	4	3	3/4	2 1/4	L1	Guss ~ Diagonal									
11	216	7/8	4 1/2	54	4	3	3/4	1 1/8	L1	Guss ~ Fill ~ Chord									
12	144	1	6	36	4	4	1 1/8	3/4	L2	Film Conn L's ~ Guss ~ Vert *									
13	40	7/8	5	10	4	3	1/2	1 1/8	L1	Lat Br Guss L ~ Guss ~ Fill ~ Chord									
14	72	7/8	3	18	4	1 1/2	3/8	3/4	L1	Lat Br Guss ~ Lat Bracing									
15								JOINT L1 & L9											
16								EXTERIOR											
17								EXTERIOR											
18								EXTERIOR											
19	32	7/8	3 1/2	8	4	1 1/2	3/4	9/16	L1	Guss ~ Fill ~ Vertical									
20	48	1	3 1/2	12	4	1 1/2	3/4	9/16	L1	Guss ~ Fill ~ Vertical									
21	120	7/8	3 1/2	30	4	1 1/2	3/4	1 1/8	L1	Guss ~ Chord									
22	24	1	3 1/2	6	4	1 1/2	3/4	1 1/8	L1	Guss ~ Chord									
23	48	7/8	4	12	4	2 1/2	3/4	1 1/8	L1	Guss ~ Chord ~ Btm Guss Conn L									
24								INTERIOR											
25								INTERIOR											
26	32	7/8	3 1/2	8	4	1 1/2	3/4	9/16	L1	Guss ~ Fill ~ Vertical									
27	48	1	4	12	4	2 1/2	1/2	3/4	L1	Film Conn L's ~ Guss ~ Fill ~ Vert									
28	120	7/8	3 1/2	30	4	1 1/2	3/4	1 1/8	L1	Guss ~ Chord									
29	24	1	4	6	4	2 1/2	1/2	3/4	L1	Floorbeam ~ Guss ~ Chord									
30	48	7/8	4	12	4	2 1/2	3/4	1 1/8	L1	Guss ~ Chord ~ Btm Guss Conn L									
31								BOTTOM											
32								BOTTOM											
33	80	7/8	4	20	4	2 1/2	3/4	1 1/8	L1	Btm Guss ~ Fill ~ Floorbeam									
34	144	7/8	3	18	8	1 1/2	3/8	1/2	L1	Btm Guss ~ Lateral Bracing									
35	96	7/8	2 1/2	12	8	1 1/2	3/8	1/2	L1	Btm Guss ~ Btm Guss Conn L									
36								JOINT L2 & L8											
37								EXTERIOR											
38								EXTERIOR											
39								EXTERIOR											
40	32	7/8	3 1/2	8	4	1 1/2	3/4	9/16	L1	Guss ~ Fill ~ Vertical									
41	48	1	3 1/2	12	4	1 1/2	3/4	9/16	L1	Guss ~ Fill ~ Vertical									
42	72	7/8	3 1/2	18	4	1 1/2	3/4	9/16	L1	Guss ~ Fill ~ Diagonal									
43	376	7/8	3 1/2	94	4	1 1/2	3/4	1 1/8	L1	Guss ~ Chord									
44	24	1	3 1/2	6	4	1 1/2	3/4	1 1/8	L1	Guss ~ Chord									
45	80	7/8	4	20	4	2 1/2	3/4	1 1/8	L1	Guss ~ Chord ~ Btm Guss Conn L									
46								INTERIOR											
47								INTERIOR											
48	32	7/8	3 1/2	8	4	1 1/2	3/4	9/16	L1	Guss ~ Fill ~ Vertical									
49	48	1	4	12	4	2 1/2	1/2	3/4	L1	Film Conn L's ~ Guss ~ Fill ~ Vert									
50	72	7/8	3 1/2	18	4	1 1/2	3/4	9/16	L1	Guss ~ Fill ~ Diagonal									
51	376	7/8	3 1/2	94	4	1 1/2	3/4	1 1/8	L1	Guss ~ Chord									
52	24	1	4	6	4	2 1/2	1/2	3/4	L1	Floorbeam ~ Guss ~ Chord									
53	80	7/8	4	20	4	2 1/2	3/4	1 1/8	L1	Guss ~ Chord ~ Btm Guss Conn L									
54								BOTTOM											
55								BOTTOM											
56	80	7/8	4	20	4	2 1/2	3/4	1 1/8	L1	Btm Guss ~ Fill ~ Floorbeam									
57	144	7/8	3	18	8	1 1/2	3/8	1/2	L1	Btm Guss ~ Lateral Bracing									
58	96	7/8	2 1/2	12	8	1 1/2	3/8	1/2	L1	Btm Guss ~ Btm Guss Conn L									
59								WASHER CODES											
L1: 1 Flat, 1 Load Ind. L2: 2 Flat, 1 Load Ind.																			
L1W @ head,hard wa. @ nut																			

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60								JOINT L3 & L7											
61								EXTERIOR											
62								EXTERIOR											
63	32	7/8	3 1/2	8	4	1 1/2	3/4	9/16	L1	Guss ~ Fill ~ Vertical									
64	48	1	3 1/2	12	4	1 1/2	3/4	9/16	L1	Guss ~ Fill ~ Vertical									
65	72	7/8	3 1/2	18	4	1 1/2	3/4	9/16	L1	Guss ~ Fill ~ Diagonal									
66	120	7/8	3 1/2	30	4	1 1/2	3/4	1 1/8	L1	Guss ~ Chord									
67	24	1	3 1/2	6	4	1 1/2	3/4	1 1/8	L1	Guss ~ Chord									
68	48	7/8	4	12	4	2 1/2	3/4	1 1/8	L1	Guss ~ Chord ~ Btm Guss Conn L									
69								INTERIOR											
70								INTERIOR											
71	32	7/8	3 1/2	8	4	1 1/2	3/4	9/16	L1	Guss ~ Fill ~ Vertical									
72	48	1	4	12	4	2 1/2	1/2	3/4	L1	Film Conn L's ~ Guss ~ Fill ~ Vert									
73	72	7/8	3 1/2	18	4	1 1/2	3/4	9/16	L1	Guss ~ Fill ~ Diagonal									
74	120	7/8	3 1/2	30	4	1 1/2	3/4	1 1/8	L1	Guss ~ Chord									
75	24	1	4	6	4	2 1/2	1/2	3/4	L1	Floorbeam ~ Guss ~ Chord									
76	48	7/8	4	12	4	2 1/2	3/4	1 1/8	L1	Guss ~ Chord ~ Btm Guss Conn L									
77								BOTTOM											
78								BOTTOM											
79	80	7/8	4	20	4	2 1/2	3/4	1 1/8	L1	Btm Guss ~ Fill ~ Floorbeam									
80	144	7/8	3	18	8	1 1/2	3/8	1/2	L1	Btm Guss ~ Lateral Bracing									
81	96	7/8	2 1/2	12	8	1 1/2	3/8	1/2	L1	Btm Guss ~ Btm Guss Conn L									
82								JOINT L4 & L6											
83								EXTERIOR											
84								EXTERIOR											
85								EXTERIOR											
86	32	7/8	3 1/2	8	4	1 1/2	3/4	9/16	L1	Guss ~ Fill ~ Vertical									
87	48	1	3 1/2	12	4	1 1/2	3/4	9/16	L1	Guss ~ Fill ~ Vertical									
88	72	7/8	3 1/2	18	4	1 1/2	3/4	9/16	L1	Guss ~ Fill ~ Diagonal									
89	376	7/8	3 1/2	94	4	1 1/2	3/4	1 1/8	L1	Guss ~ Chord									
90	24	1	3 1/2	6	4	1 1/2	3/4	1 1/8	L1	Guss ~ Chord									
91	80	7/8	4	20	4	2 1/2	3/4	1 1/8	L1	Guss ~ Chord ~ Btm Guss Conn L									
92								INTERIOR											
93								INTERIOR											
94	32	7/8	3 1/2	8	4	1 1/2	3/4	9/16	L1	Guss ~ Fill ~ Vertical									
95	48	1	4	12	4	2 1/2	1/2	3/4	L1	Film Conn L's ~ Guss ~ Fill ~ Vert									
96	72	7/8	3 1/2	18	4	1 1/2	3/4	9/16	L1	Guss ~ Fill ~ Diagonal									
97	376	7/8	3 1/2	94	4	1 1/2	3/4	1 1/8	L1	Guss ~ Chord									
98	24	1	4	6	4	2 1/2	1/2	3/4	L1	Floorbeam ~ Guss ~ Chord									
99	80	7/8	4	20	4	2 1/2	3/4	1 1/8	L1	Guss ~ Chord ~ Btm Guss Conn L									
100								BOTTOM											
101								BOTTOM											
102	80	7/8	4	20	4	2 1/2	3/4	1 1/8	L1	Btm Guss ~ Fill ~ Floorbeam									
103	144	7/8	3	18	8	1 1/2	3/8	1/2	L1	Btm Guss ~ Lateral Bracing									
104	96	7/8	2 1/2	12	8	1 1/2	3/8	1/2	L1	Btm Guss ~ Btm Guss Conn L									
105								JOINT L5											
106								EXTERIOR											
107								EXTERIOR											
108								EXTERIOR											
109	16	7/8	3 1/2	8	2	1 1/2	3/4	9/16	L1	Guss ~ Fill ~ Vertical									
110	24	1	3 1/2	6	2	1 1/2	3/4	9/16	L1	Guss ~ Fill ~ Vertical									
111	36	7/8	3 1/2	18	2	1 1/2	3/4	9/16	L1	Guss ~ Fill ~ Diagonal									
112	60	7/8	3 1/2	30	2	1 1/2	3/4	1 1/8	L1	Guss ~ Chord									
113	12	1	3 1/2	6	2	1 1/2	3/4	1 1/8	L1	Guss ~ Chord									
114	24	7/8	4	12	2	2 1/2	3/4	1 1/8	L1	Guss ~ Chord ~ Btm Guss Conn L									
115								WASHER CODES											
116								WASHER CODES											
117								WASHER CODES											
118								WASHER CODES											
L1: 1 Flat, 1 Load Ind. L2: 2 Flat, 1 Load Ind.																			
L1W @ head,hard wa. @ nut																			

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LINE	NO REQ'D.	BOLT DIAM.	BOLT LEN.	BOLTS # OF CONN.	GRIP	THICKNESS OF PCS. CONNECTED	WASH CODE	PIECES CONNECTED AND REMARKS											
119								INTERIOR											
120								INTERIOR											
121	16	7/8	3 1/2	8	2	1 1/2	3/4	9/16	L1	Guss ~ Fill ~ Vertical									
122	24	1	4	12	2	2 1/2	1/2	3/4	L1	Film Conn L's ~ Guss ~ Fill ~ Vert									
123	72	7/8	3 1/2	18	4	1 1/2	3/4	9/16	L1	Guss ~ Fill ~ Diagonal									
124	60	7/8	3 1/2	30	2	1 1/2	3/4	1 1/8	L1	Guss ~ Chord									
125	12	1	4	6	2	2 1/2	1/2	3/4	L1	Floorbeam ~ Guss ~ Chord									
126	24	7/8	4	12	2	2 1/2	3/4	1 1/8	L1	Guss ~ Chord ~ Btm Guss Conn L									
127								BOTTOM											
128								BOTTOM											
129	40	7/8	4	20	2	2 1/2	3/4	1 1/8	L1	Btm Guss ~ Fill ~ Floorbeam									
130	72	7/8	3	18	4	1 1/2	3/8	1/2	L1	Btm Guss ~ Lateral Bracing									
131	48	7/8	2 1/2	12	4	1 1/2	3/8	1/2	L1	Btm Guss ~ Btm Guss Conn L									
132								JOINT U1 & U9											
133								TOP											
134								TOP											
135								TOP											
136								TOP											
137	80	7/8	2 1/2	5	16	1	1/2	1/2	L1	Top Guss ~ Top Guss Conn L									
138	32	7/8	4	8	4	2 1/2	1/2	1 1/8	L1	Top Guss ~ Fill ~ Top Strut									
139	16	7/8	4	4	4	2 1/2	1/2	1 1/8	L1	Top Guss ~ Fill ~ Lat Brac									
140								EXTERIOR											
141								EXTERIOR											
142	204	7/8	4 1/2	51	4	3	3/4	2 1/4	L1	Guss ~ Chord									
143	20	7/8	5	5	4	3 1/2	3/4	2 1/4	L1	Guss ~ Chord ~ Top Guss Conn L									
144	280	7/8	4 1/2	70	4	3	3/4	1 1/8	L1	Guss ~ Fill ~ Chord									
145	24	7/8	5	6	4	3 1/2	3/4	1 1/8	L1	Guss ~ Fill ~ Chord ~ Top Guss Conn L									
146	64	7/8	4 1/2	16	4	3	3/4	5/8	L1	Guss ~ Fill ~ Vertical									
147	72	7/8	4 1/2	18	4	3	3/4	5/8	L1	Guss ~ Fill ~ Diagonal									
148	32	7/8	2 1/2	8	4	1 1/2	3/4	3/8	L1	Guss ~ Angle Stiff									
149								INTERIOR											
150								INTERIOR											
151	204	7/8	4 1/2	51	4	3	3/4	2 1/4	L1	Guss ~ Chord									
152	20	7/8	5	5	4	3 1/2	3/4												