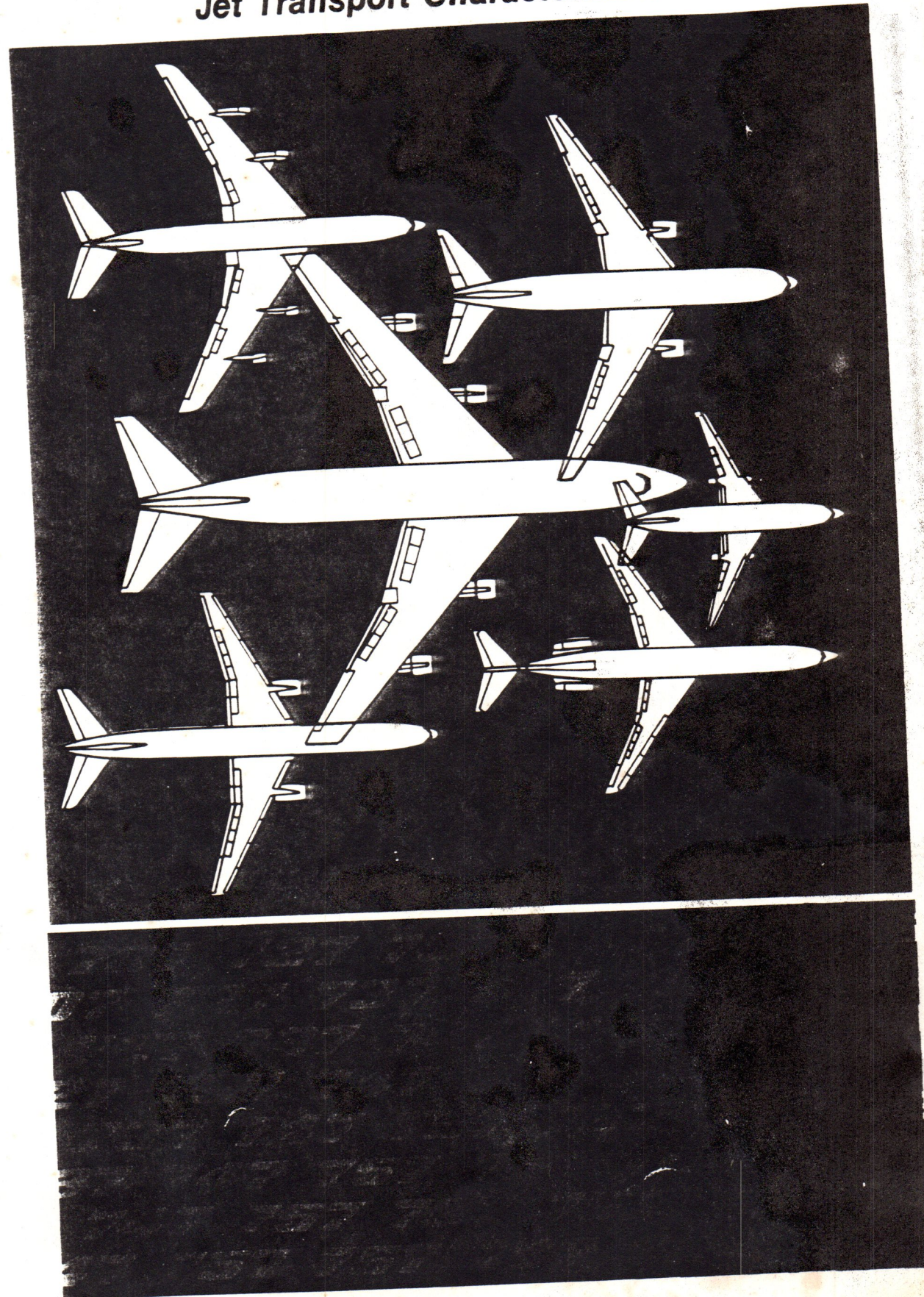


**BOEING**

**Jet Transport Characteristics**





Gray tone  
indicates airplanes  
no longer  
in production



**WING  
SPAN  
AREA (SQ FT)  
SWEEP (DEG)**

**LENGTH  
HEIGHT  
TREAD  
WHEEL BASE**

**CABIN LENGTH  
VOLUME (CU FT)  
MAX. WIDTH  
FLOOR WIDTH  
TYPICAL SEATING  
CAPACITY (FC/T)  
CARGO VOLUME (CU FT)  
ALL-PASSENGER  
ALL-CARGO<sup>t</sup>**

**ENGINES—QTY & MFGR<sup>u</sup>  
MODEL DESIGNATION  
TAKEOFF THRUST (LB)**

**ENGINE WEIGHT (LB)  
FUEL CAPACITY (U.S. GAL)  
OPTIONAL CAP. (U.S. GAL)**

**MAX. TAXI WT. (LB)  
TAKEOFF WT. (LB)  
LANDING WT. (LB)  
ZERO FUEL WT. (LB)  
SPEC OEW (LB)  
PAYLOAD (LB)  
TYP. AIRLINE OEW (LB)**

**FIRST FLIGHT  
INITIAL SERVICE**

<sup>t</sup> 747 main-deck pallets and lower deck containers;  
other models palletized.

<sup>u</sup> Where optional engine models are indicated, the  
corresponding optional engine thrusts are shown.  
Engine weights are shown for the first engine indi-  
cated. Other engine weights correspondingly would  
affect OEW and payload.



GRAY	GRAY	GRAY	GRAY
707-120	707-120B	707-320	707-320B
130' 10"	130' 10"	142' 5"	145' 9"
2,433	2,433	2,892	2,892
35	35	35	35
144' 6"	**145' 1"	152' 11"	152' 11"
42'	42'	42' 5"	42' 5"
22' 1"	22' 1"	22' 1"	22' 1"
52' 4"	52' 4"	59'	59'
104' 10"	104' 10"	111' 4"	111' 4"
7,484	7,484	7,983	7,983
139"	139"	139"	139"
128"	128"	128"	128"
181 (T)	30/95	14/135	14/135
1,665	1,665	1,770	1,770
—	—	—	—
4 P&W*	4 P&W	4 P&W	4 P&W
JT3C-6	JT3D-3B	JT4A-3 & -5/-11 & -12	JT3D-3
13,500	18,000	15,800/17,500	18,000
4,234	4,300	5,100	4,300
16,500	17,330	23,820	23,855
—	—	—	—
258,000	258,000	316,000	328,000
258,000	258,000	312,000	322,000
185,000	190,000	207,000	207,000
170,000	170,000	190,000	190,000
116,669	124,585	134,200	138,518
53,331	45,415	55,800	51,482
117,400	129,300	134,500	138,518
12/20/57	6/22/60	1/11/59	1/31/62
10/26/58	6/—/61	8/26/59	6/1/62

\* -220 version engine: JT4A-3, 15,800-lb thrust

\*\*103B version: length—135 ft 1 in.



GRAY

GRAY

GREEN

**ADVANCED  
707-320B**

**ADVANCED  
707-320C  
STRIPPED  
CONVERTIBLE**

**ADVANCED  
707-320C CONVERTIBLE**  
ALL-PASSENGER      ALL-CARGO

145' 9"  
2,892  
35

145' 9"  
2,892  
35

145' 9"  
2,892  
35

152' 11"  
42' 5"  
22' 1"  
59'

152' 11"  
42' 5"  
22' 1"  
59'

152' 11"  
42' 5"  
22' 1"  
59'

111' 4"  
7,983  
139"  
128"

111' 4"  
8,074  
139"  
128"

111' 4"  
8,074  
139"  
128"

14/133

-

14/133

-

1,770

7,020

1,700

6,749

4 P&W  
JT3D-3B/-7  
18,000/19,000

4 P&W  
JT3D-7A/-3B  
19,000/18,000

4 P&W  
JT3D-7A/-3B  
19,000/18,000

4,300  
23,855

4,300  
23,855

4,300  
23,855

336,000  
333,600  
247,000  
195,000  
141,100  
53,900  
144,140

336,000  
331,600  
247,000  
230,000  
135,425  
94,575

336,000  
333,600  
247,000  
230,000  
146,400  
83,600  
149,150

336,000  
333,600  
247,000  
230,000  
139,963  
90,037

6/63\*

5/67

2/19/63\*  
6/3/63

\* A 707/CFM-56 re-engine demonstrator flight test program will begin November 1979



GREY

GREY

GREY

GREY

**707-420**

**720**

**720B**

**727-100**

142' 5"  
2,892  
35

130' 10"  
2,433  
35

130' 10"  
2,433  
35

108'  
1,560  
32

152' 11"  
42' 5"  
22' 1"  
59'

136' 2"  
41' 7"  
21' 11"  
50' 8"

136' 9"  
41' 7"  
21' 11"  
50' 8"

133' 2"  
34'  
18' 9"  
53' 3"

111' 4"  
7,983  
139"  
128"

96' 6"  
6,860  
139"  
128"

96' 6"  
6,860  
139"  
128"

72' 8"  
5,133  
139"  
128"

14/133

167 (T)

26/98

28/66

1,700

1,378

1,375

900

4 RR  
508 CONWAY  
17,500

4 P&W  
JT3C-7/C-12  
12,000/13,000

4 P&W  
JT3D-1/-3B  
17,000/18,000

3 P&W  
JT8D-7/-9  
14,000/14,500

4,542  
23,833  
-

3,495/3,550  
11,924  
13,574

4,150  
14,880  
16,151

3,166  
7,174  
7,680

316,000  
312,000  
207,000  
190,000  
-  
51,500  
138,500

203,000/230,000  
202,000/229,000  
175,000/175,000  
142,000/149,000  
105,941  
36,059/37,600  
107,400/111,400

235,000  
234,000  
175,000  
156,000  
114,935  
41,065  
119,050

161,000  
160,000  
142,500  
118,000  
87,500  
30,500  
88,900

5/19/59  
3/17/60

11/12/59  
7/5/60

10/6/60  
3/12/61

2/9/63  
2/1/64



GREY

GREY

GREY

**727-100**

**727-100C CONVERTIBLE**

**727-100C**

ALL-PASSENGER

ALL-CARGO

FREIGHTER

108'  
1,560  
32

108'  
1,560  
32

108'  
1,560  
32

133' 2"  
34'  
18' 9"  
53' 3"

133' 2"  
34'  
18' 9"  
53' 3"

133' 2"  
34'  
18' 9"  
53' 3"

72' 8"  
5,133  
140"  
128"

72' 8"  
5,150  
140"  
128"

72' 8"  
5,150  
140"  
128"

28/66

125 (T)

-

-

900  
-

890  
-

-  
4,300

-  
4,360

3 P&W  
JT8D-7/-9  
14,000/14,500

3 P&W  
JT8D-7/-9  
14,000/14,500

3 P&W  
JT8D-7/-9  
14,000/14,500

3,166  
8,186  
-

3,166  
8,186  
-

3,166  
7,680  
-

170,000  
169,000  
142,500  
123,500  
87,600  
35,900  
89,000

170,000  
169,000  
142,500  
132,000  
91,100  
40,900  
92,500

170,000  
169,000  
142,500  
132,000  
88,200  
43,800  
88,500

170,000  
169,000  
142,500  
132,000  
-  
48,200  
83,800

-  
-

12/30/65  
4/23/66

-  
-



GREY

GREEN

**727-200**

**ADVANCED 727-200**

108' 1,560 32	108' 1,560 32	108' 1,560 32	108' 1,560 32
153' 2" 34' 18' 9" 63' 3"	153' 2" 34' 18' 9" 63' 3"	153' 2" 34' 18' 9" 63' 3"	153' 2" 34' 18' 9" 63' 3"
92' 8" 6,561 140" 128"	92' 8" 6,561 140" 128"	92' 8" 6,561 140" 128"	92' 8" 6,561 140" 128"
20/114  1,450 —	14/131  1,525 —	14/131  1,525 —	189 (T)  1,130 —
3 P&W JT8D-7/-9 14,000/14,500  3,166 8,090 —	3 P&W JT8D-9A/-15/-17/-17R 14,500/15,500/ 16,000/17,400 3,252 8,090 8,950/9,760/10,570	3 P&W JT8D-15/-17/-17R 15,500/16,000/17,400  3,309 8,060 8,920/9,730/10,540	3 P&W JT8D-17/-17R 16,000/17,400  3,330 9,775 10,585
170,000 169,000 148,000 136,000 94,200 41,800 96,900	aa185,800/191,000 184,800/190,500 154,500/154,500ab 138,000/140,000ad 98,300/98,470 39,700/41,530 100,000/101,200	195,500/197,700 194,800/197,000 154,500/154,500ab 140,000/140,000ac 98,700/98,700 41,300/41,300 102,200/102,300	210,000 209,500 161,000 144,000 101,460 42,540 104,100
7/27/67 12/14/67	3/3/72 7/72	1/12/76 4/1/76	7/26/73 11/15/73

aa Basic specifications  
 ab 161,000-lb option available  
 ac 141,000-lb available  
 ad 141,000-lb available with auxiliary fuel

GREY		GREY		GREY	
737-100		737-200		737-200C CONVERTIBLE	
				ALL-PASSENGER	ALL-CARGO
93'	980	93'	980	93'	980
25		25		25	
94'		100'		100'	
37'		37'		37'	
17' 2"		17' 2"		17' 2"	
34' 4"		37' 4"		37' 4"	
62' 2"		68' 6"		68' 6"	
4,187		4,636		4,636	
140"		140"		140"	
128"		128"		128"	
103 (T)		115 (T)		115 (T)	-
650		875		875	-
-		-		-	3,605
2 P&W		2 P&W		2 P&W	
JT8D-9		JT8D-9		JT8D-9	
14,500		14,500		14,500	
3,166		3,166		3,166	
2,850		2,850		2,850	
4,209/4,774		4,209		4,726	
97,800/111,000		110,000		116,000	116,000
97,000/110,000		109,000		115,500	115,500
89,700/99,000		98,000		103,000	103,000
81,700/92,000		88,000		95,000	95,000
-		-		-	-
23,100/30,000		27,000		31,000	34,500
58,600/62,000		61,000		64,000	60,500
4/9/67		8/8/67		9/18/68	
2/10/68		4/28/68		11/5/68	



**GREEN**  
**ADVANCED**  
**737-200**

**GREEN**  
**ADVANCED**  
**737-200 CONVERTIBLE**

**GREEN**  
**ADVANCED**  
**737**

**HIGH GROSS**  
**WEIGHT/PASSENGER**  
**& CONVERTIBLE**

**ALL-PASSENGER**      **ALL-CARGO**

93'  
980  
25

93'  
980  
25

93'  
980  
25

100'  
37'  
17' 2"  
37' 4"

100'  
37'  
17' 2"  
37' 4"

100'  
37'  
17' 2"  
37' 4"

68' 6"  
4,636  
140  
128"

68' 6"  
4,636  
140  
128"

68' 6"  
4,636  
140  
128"

115 (T)

115 (T)

-

115 (T)

875

875

-  
3,605

875/745/640  
3,605/3,475/3,370

2 P&W  
JT8D-9A/-15/-17/-17R\*  
14,500/15,500/16,000/  
17,400  
3,332  
5,160  
-

2 P&W  
JT8D-9A/-15/-17/-17R\*  
14,500/15,500/16,000/  
17,400  
3,332  
5,160  
-

2 P&W  
JT8D -15/-17/-17R\*  
15,500/16,000/  
17,400  
3,389  
5,160  
5,535/5,970

116,000/117,500  
115,500/117,000  
103,000/105,000/151,000  
95,000  
60,550  
34,450  
-

116,000/117,500/120,000  
115,500/117,000/119,500  
103,000/105,000/107,000  
95,000  
63,600  
31,400  
-

116,000/117,500/120,000  
115,500/117,000/119,500  
103,000/105,000/107,000  
95,000-96,500/99,000\*\*  
60,202  
34,798/36,298/38,798  
-

125,000/128,600  
124,500/128,100  
107,000/107,000  
95,000-99,000\*\*  
61,173/64,223  
33,827/30,777  
-

4/15/71  
6/71

7/71  
8/71

3/79  
5/79

\* JT8D-17R, 17,400-lb takeoff thrust—study

\*\*96,500-lb and 99,000-lb zero fuel weight options for cargo configurations

GREEN

## 747 FOOTNOTES

- a 30 LD-1 containers plus 1,000 cu ft bulk in lower lobe (pallet options available).
- b Optional engines: JT9D-7F/-7J/-7AW/-7FW, RB211-524B2, CF6-45A/B/A-2/B-2/C-2, -50E/E1/E2 (46,500 to 52,500 lb. thrust) OEW changes depend on engine selected.
- c Maximum taxi weight of 738,000 lb also available.
- d Maximum taxi weights of 603,000, 713,000, and 738,000 lb also available.
- e Optional engines: JT9D-7F/-7J/-7AW/-7FW, RB211-524B2, CF6-45A/B/A2/B2 (46,500 to 50,000 lb thrust). OEW changes depend on engine selected.
- f Maximum taxi weights of 666,000, 676,000 and 696,000 lb also available.
- g Optional engines at BRGW 800,000 lb: JT9D-7J/-7Q/-70A, RB211-524B2/C2/D4, CF6-50E/E1/E2 (50,000 to 53,000 lb thrust). OEW depends on engine selected.
- h Maximum taxi weights of 778,000 and 788,000 lb also available.
- i 20 LD-1 containers plus 400 cu ft bulk in lower lobe (pallet options available).
- j Optional engines: JT9D-70A, RB211-524B2/C2/D4, CF6-50E/E1/E2 (50,100 to 53,000 lb thrust).
- k Same weights and engine combinations available as 747-200B
- l 6 8- x 8- x 10-ft pallets at 630 cu ft each plus lower lobe volume (optional 10-ft high pallets at 750 cu ft available).
- m 30 LD-1 containers plus 810 cu ft bulk in lower lobe (pallet options available).
- n 12 8- x 8- x 10-ft pallets at 630 cu ft each plus lower lobe volume (aft 6 positions are optional 10-ft high pallets at 750 cu ft each).
- o 29 8- x 8- x 10-ft pallets at 630 cu ft each plus lower lobe volume (optional installation of side cargo door will allow 10-ft high pallets at 750 cu ft in aft 21 positions).
- p 28 8- x 8- x 10-ft pallets at 630 cu ft each plus lower lobe volume.
- q 32 seats on upper deck. Up to 19 passengers can be carried with airplane in all-cargo mode.
- r Some in-service airplanes were modified with the installation of a side cargo door into either a Combi configuration or an all-cargo configuration (747-100SF).
- s Side cargo door modified 747-100SF had 753,000-lb maximum taxi weight option available. All side cargo door mods had 585,000 lb maximum zero fuel weight and 545,000 lb landing weight.





GREY

GREEN

GREEN

GREEN

**747-100**

**747-100B**

**747-100B**

**747SP**

rs

**SR OPTION**

195' 8"  
5,500  
37.5

195' 8"  
5,500  
37.5

195' 8"  
5,500  
37.5

195' 8"  
5,500  
37.5

231' 4"  
63' 5"  
36' 1"  
84'

231' 4"  
63' 5"  
36' 1"  
84'

231' 4"  
63' 5"  
36' 1"  
84'

184' 9"  
65' 5"  
36' 1"  
67' 4"

187'  
29,760  
241.5"  
233"

187'  
29,760  
241.5"  
233"

187'  
29,760  
241.5"  
233"

138' 8"  
22,110  
241.5"  
233"

48/337

28/414

516 (T)

28/293

6,190<sup>a</sup>

6,190<sup>a</sup>

6,190<sup>a</sup>

3,860<sup>i</sup>

4 P&W  
JT9D-7A  
46,950

4 P&W/GE/RR<sup>b</sup>  
JT9D-7A  
46,950

4 P&W/GE/RR<sup>b</sup>  
JT9D-7A  
46,950

4 P&W/GE/RR<sup>e</sup>  
JT9D-7A  
46,950

47,331

48,445

48,445

48,783  
50,359

713,000/738,000  
710,000/733,000  
564,000  
526,500  
355,020/362,000  
171,480/164,500

713,000/753,000<sup>c</sup>  
710,000/750,000  
564,000  
526,500  
372,200/373,450  
154,300/153,050

523,000/753,000<sup>d</sup>  
520,000/750,000  
564,000  
526,500  
351,950  
174,550

636,000/703,000<sup>f</sup>  
630,000/702,000  
450,000/465,000  
410,000/425,000  
322,250/323,360  
87,750/101,640

2/9/69  
1/22/70

6-21-79  
9/79

9/4/73  
9/26/73

7/4/75  
3/15/76

GREEN

GREEN

## 747-200B

## 747-200F

FREIGHTER

195' 8"  
5,500  
37.5195' 8"  
5,500  
37.5195' 8"  
5,500  
37.5195' 8"  
5,500  
37.5231' 4"  
63' 5"  
36' 1"  
84'231' 4"  
63' 5"  
36' 1"  
84'231' 4"  
63' 5"  
36' 1"  
84'231' 4"  
63' 5"  
36' 1"  
84'187'  
29,760  
241.5"  
233"187'  
29,760  
241.5"  
233"187'  
29,760  
241.5"  
233"187'  
29,760  
241.5"  
233"

28/414

28/414

28/414

-

6,190<sup>a</sup>  
-6,190<sup>a</sup>  
-6,190<sup>a</sup>  
-24,260<sup>o</sup>4 P&W  
JT9D-7AW  
48,5704 P&W/GE/RR<sup>g</sup>  
JT9D-7FW  
50,0004 P&W/GE/RR<sup>i</sup>  
JT9D-7Q  
53,0004 P&W/GE/RR<sup>k</sup>  
JT9D-7AW  
48,57052,409  
53,98552,409  
53,98552,409  
53,98552,409  
53,985778,000/788,000  
775,000/785,000  
564,000  
526,500  
377,300/377,800  
149,200/148,700808,000<sup>h</sup>  
805,000  
564,000  
526,500  
377,800  
148,700823,000/836,000  
820,000/833,000  
564,000  
526,500  
380,240/380,540  
146,260/145,960778,000/788,000<sup>k</sup>  
775,000/785,000  
630,000  
590,000  
340,140/340,640  
249,860/249,36010/11/70  
11/25/715/16/75  
6/7/758/7/75  
5/7611/30/71  
4/19/72



GREEN

GREEN

**747-200B**  
**COMBI OPTION**

**747-200C**  
**ALL-PASSENGER ALL-CARGO**

195' 8"  
5,500  
37.5

195' 8"  
5,500  
37.5

231' 4"  
63' 5"  
36' 1"  
84'

231' 4"  
63' 5"  
36' 1"  
84'

187'  
29,760  
241.5"  
233"

187'  
29,760  
241.5"  
233"

28/418	28/282 + 6 PAL.	28/204 + 12 PAL.	28/414	- <sup>9</sup>
5,990 <sup>m</sup>	-	-	5,990 <sup>m</sup>	-
-	9,790 <sup>l</sup>	13,550 <sup>n</sup>	-	23,630 <sup>p</sup>

4 P&W/GE/RR<sup>k</sup>  
JT9D-7AW  
48,570

4 P&W/GE/RR<sup>k</sup>  
JT9D-7AW  
48,570

-  
52,409  
53,985

-  
52,409  
53,985

778,000/788,000 <sup>k</sup>	778,000/788,000 <sup>k</sup>	778,000/788,000 <sup>k</sup>	778,000/788,000 <sup>k</sup>	778,000/788,000 <sup>k</sup>
775,000/785,000	775,000/785,000	775,000/785,000	775,000/785,000	775,000/785,000
585,000	585,000	585,000	630,000	630,000
545,000	545,000	545,000	590,000	590,000
387,080/387,580	381,400/381,900	376,720/377,220	386,550/387,050	357,940/358,440
157,920/157,420	163,600/163,100	168,280/167,780	203,450/202,950	232,060/231,560

11/18/74  
3/75

3/23/73  
5/12/73

GREEN

GREEN

**757-200**

**757-200**

BASIC

OPTION

124' 6"  
1,951  
25

124' 6"  
1,951  
25

124' 6"  
1,951  
25

124' 6"  
1,951  
25

153' 3"  
44' 6"  
24'  
60'

153' 3"  
44' 6"  
24'  
60'

153' 3"  
44' 6"  
24'  
60'

153' 3"  
44' 6"  
24'  
60'

118' 5"  
9,860  
140"  
128"

118' 5"  
9,860  
140"  
128"

118' 5"  
9,860  
140"  
128"

118' 5"  
9,860  
140"  
128"

16/162  
1,784

16/162  
1,784

16/162  
1,784

16/162  
1,784

2 RR  
RB211-535C  
37,300

2 GE  
CF6-32C1  
36,330

2 RR  
RB211-535C  
37,300

2 GE  
CF6-32C1  
36,330

7,240  
11,740  
-

7,140  
11,740  
-

7,240  
11,740  
-

7,140  
11,740  
-

221,000  
220,000  
198,000  
184,000  
130,850  
53,150  
-

221,000  
220,000  
198,000  
184,000  
130,250  
53,750  
-

231,000  
230,000  
198,000  
184,000  
130,850  
53,150  
-

231,000  
230,000  
198,000  
184,000  
130,250  
53,750  
-

1982  
1983

1982  
1983

1983  
1984

1983  
1984



GREEN

# 767-200

## BASIC

## MEDIUM RANGE OPTION

156' 4"  
3,050  
31.5

156' 4"  
3,050  
31.5

156' 4"  
3,050  
31.5

156' 4"  
3,050  
31.5

159' 2"  
52'  
30' 6"  
64' 7"

159' 2"  
52'  
30' 6"  
64' 7"

159' 2"  
52'  
30' 6"  
64' 7"

159' 2"  
52'  
30' 6"  
64' 7"

111' 4"  
10,497  
188"  
183"

111' 4"  
10,497  
188"  
183"

111' 4"  
10,497  
188"  
183"

111' 4"  
10,497  
188"  
183"

18/193

18/193

18/193

18/193

3,688<sup>VW</sup>

3,688<sup>VW</sup>

3,688<sup>VW</sup>

3,688<sup>VW</sup>

2 P&W  
JT9D-7R4D  
47,700

2 GE  
CF6-80A  
47,900

2 P&W  
JT9D-7R4A  
44,300

2 GE  
CF6-80A  
47,900

8,735  
15,560

8,632  
15,560

8,735  
11,320  
15,560

8,632  
11,320  
15,560

302,000  
300,000  
270,000  
248,000  
178,540  
69,460  
180,540

302,000  
300,000  
270,000  
248,000  
178,450  
69,550  
180,450

284,000  
282,000  
257,000  
242,000  
178,160  
63,840  
180,160

284,000  
282,000  
257,000  
242,000  
178,070  
63,930  
180,070

OCT. 1981  
OCT. 1982

MAR. 1982  
OCT. 1982

SEPT. 1981  
AUG. 1982

MAR. 1982  
OCT. 1982

v Gross volume of 22LD2 containers = 2,640 cu ft  
w Includes 430 cu ft volume bulk cargo hold

GREEN

# 767-200

## INCREASED GROSS WEIGHT OPTION

156' 4"	156' 4"
3,050	3,050
31.5	31.5

159' 2"	159' 2"
52'	52'
30' 6"	30' 6"
64' 7"	64' 7"

111' 4"	111' 4"
10,497	10,497
188"	188"
183"	183"

18/193	18/193
--------	--------

3,688 <sup>VW</sup>	3,688 <sup>VW</sup>
-	-

2 P&W JT9D-7R4D 47,700	2 GE CF6-80A 47,900
------------------------------	---------------------------

8,735	8,632
15,560	15,560
-	-

312,000	312,000
310,000	310,000
270,000	270,000
248,000	248,000
178,540	178,450
69,460	69,550
180,540	180,450

-	-
OCT. 1983	OCT. 1983



H8871  
Jet Transport  
Characteristics  
November 1979

**BOEING**  
*COMMERCIAL AIRPLANE COMPANY*

Boeing Commercial Airplane Company  
(A Division of The Boeing Company)  
Seattle, Washington 98124, U.S.A.

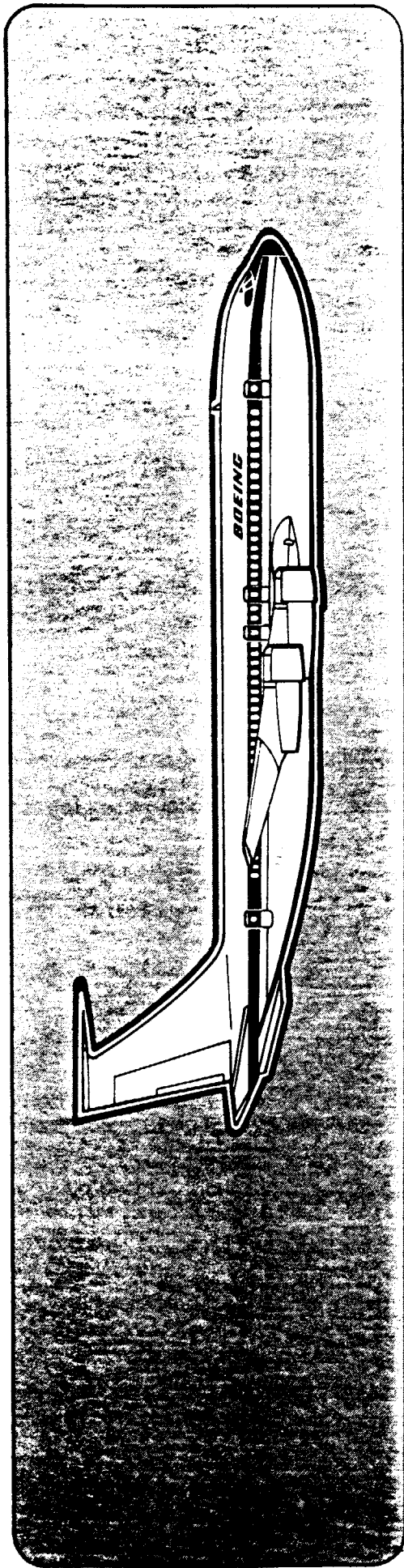
Printed in U.S.A.

PSO 562638

**BOEING**

**707-720**

*REFERENCE GUIDE D6-40942*



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Bois Hordges

**BOEING**  
**707-720**  
**REFERENCE GUIDE**

06-40942

MARCH 1980

INDUSTRIAL RELATIONS—TRAINING

B-1811

**BOEING COMMERCIAL AIRPLANE COMPANY**

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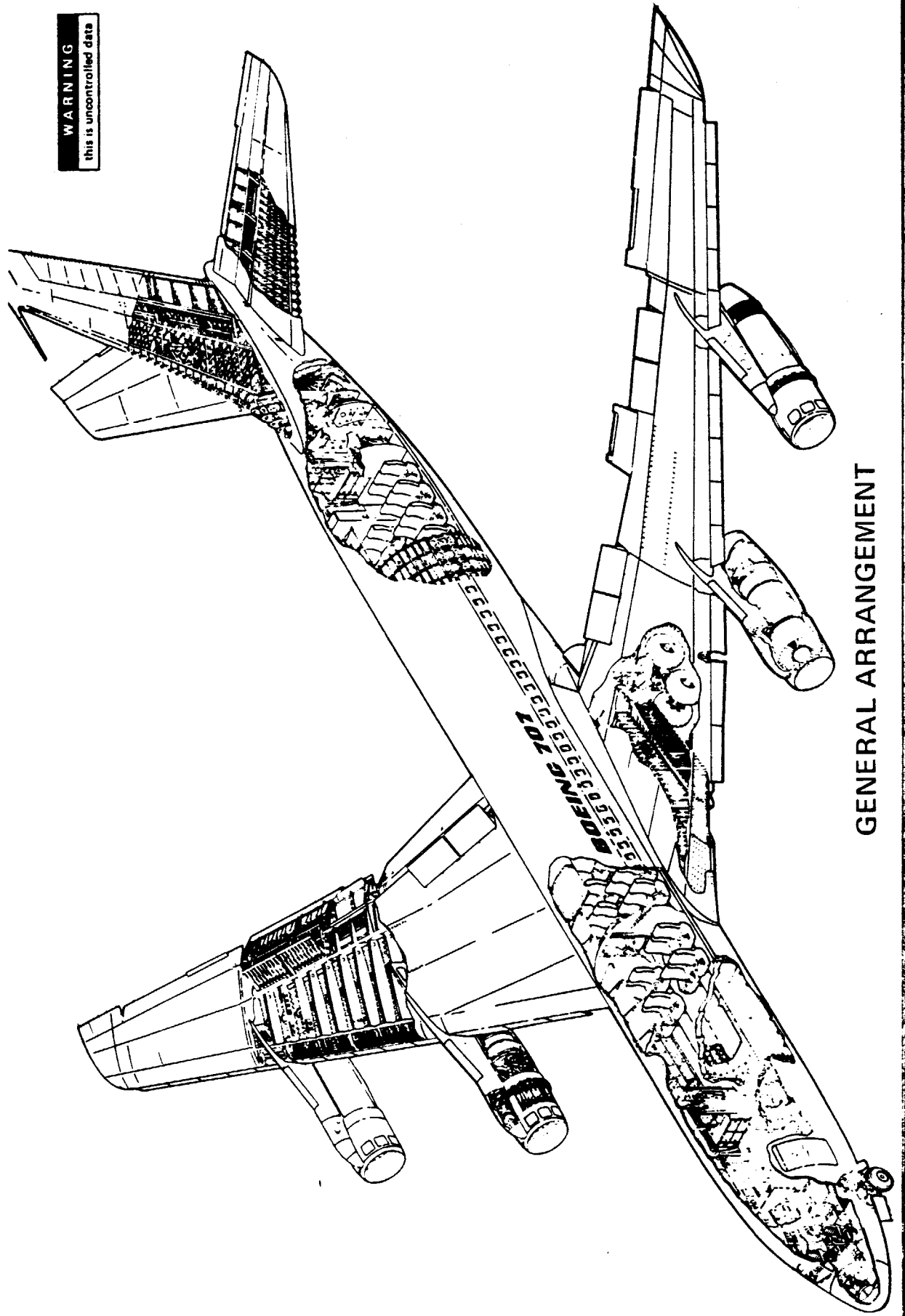
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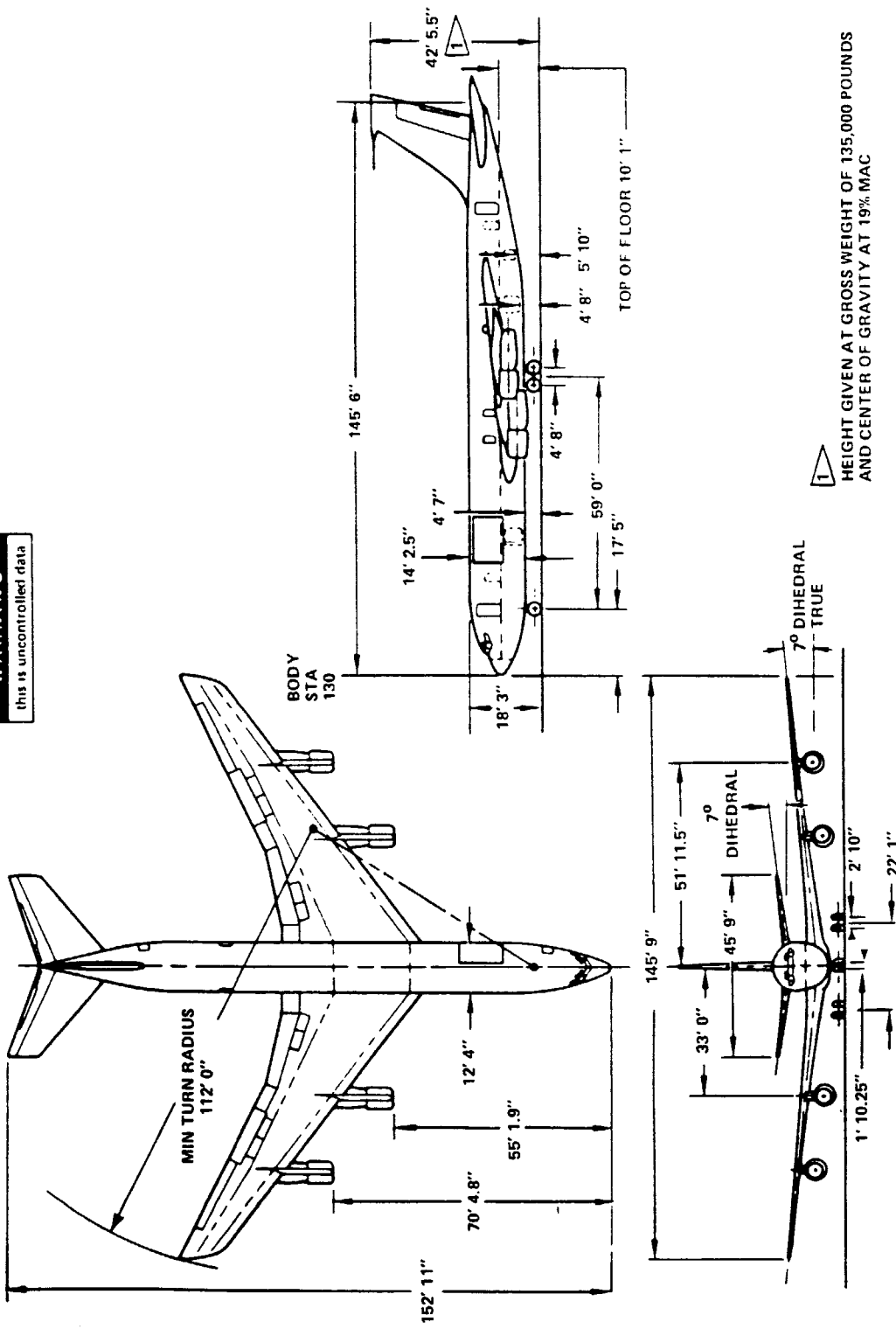
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**WARNING**  
this is uncontrolled data



GENERAL ARRANGEMENT

**WARNING**  
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HEIGHT GIVEN AT GROSS WEIGHT OF 135,000 POUNDS  
AND CENTER OF GRAVITY AT 19% MAC

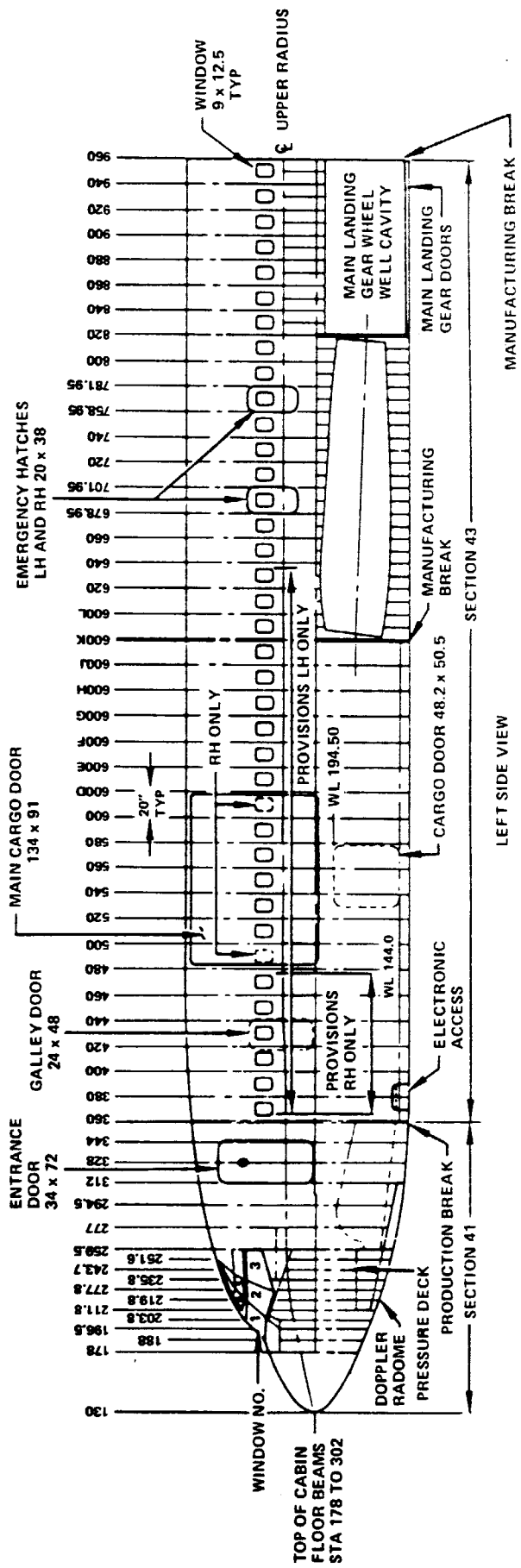
MODEL 707

**PRINCIPAL DIMENSIONS**



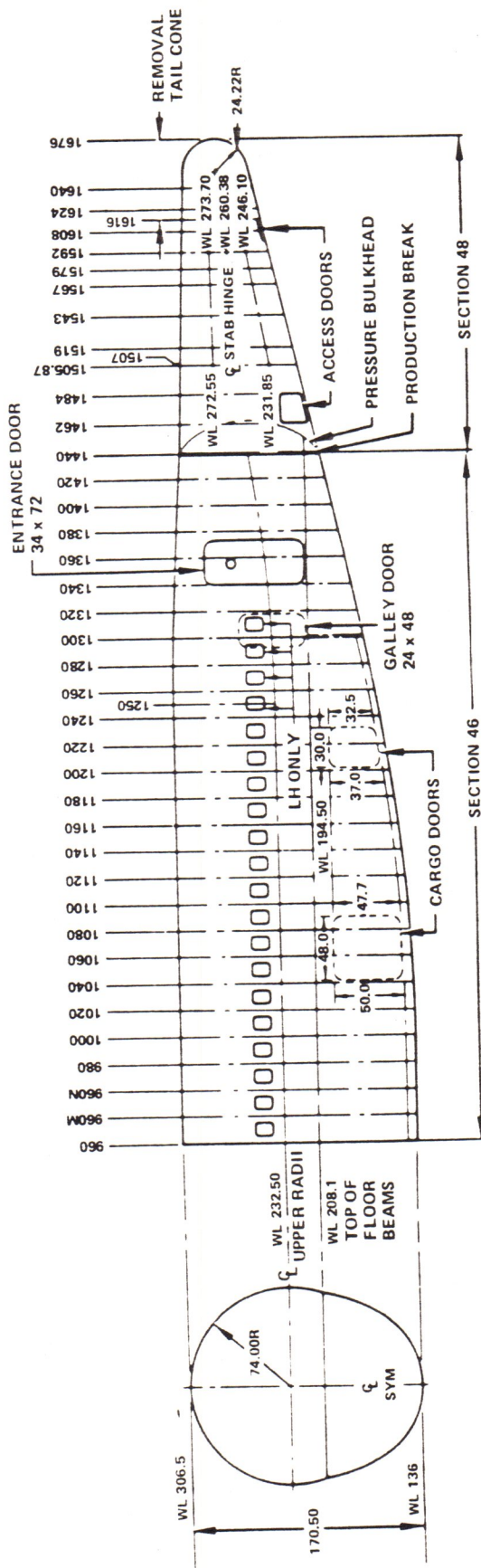


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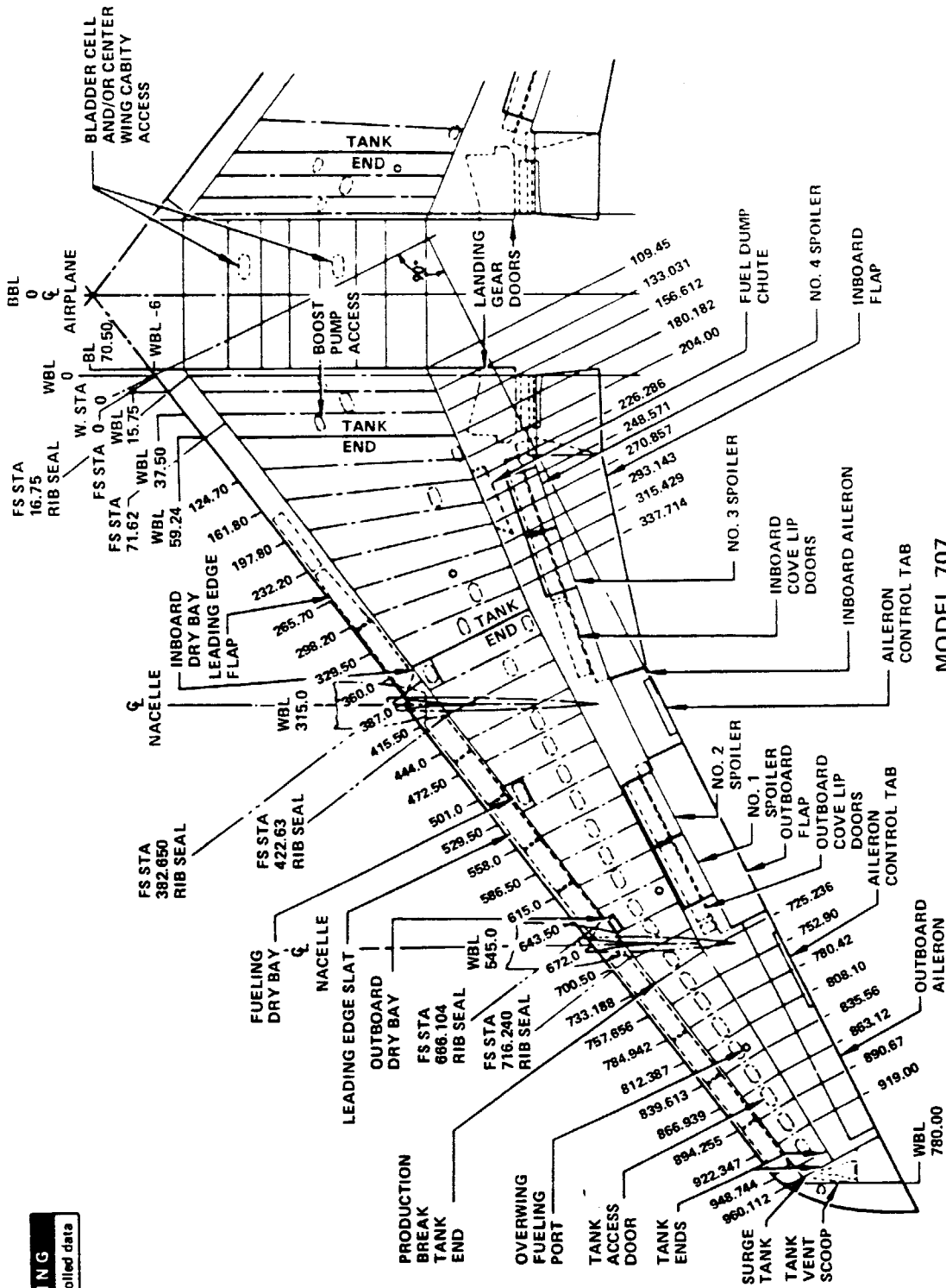


MODEL 707  
BODY CENTERLINE DIAGRAM

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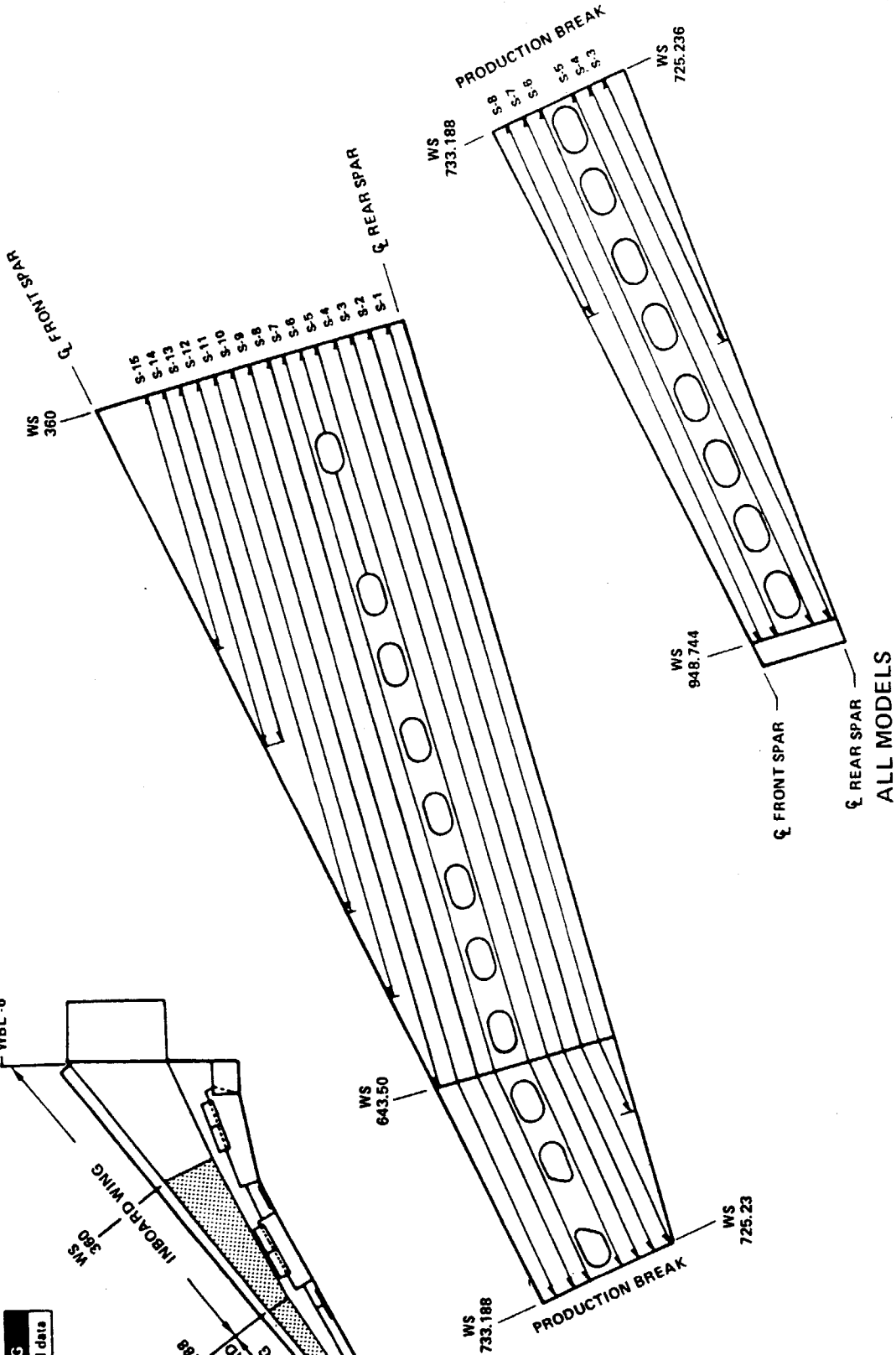
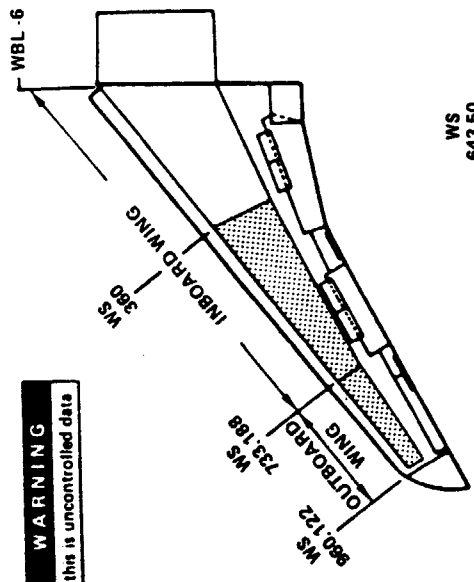
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MODEL 707  
WING CENTERLINE DIAGRAM



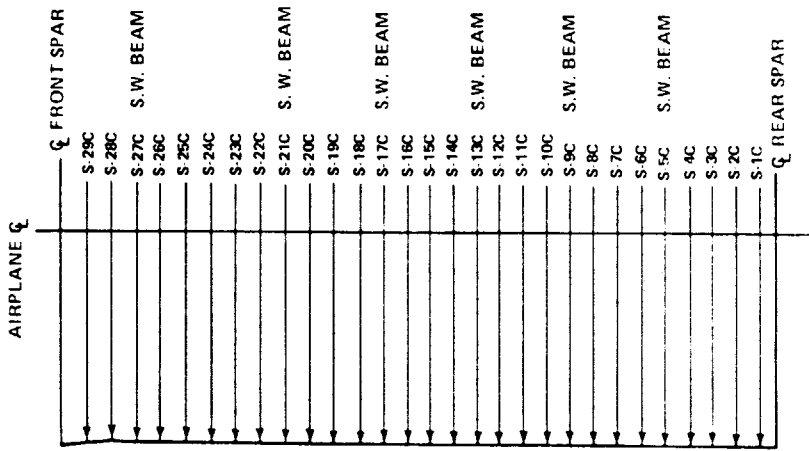
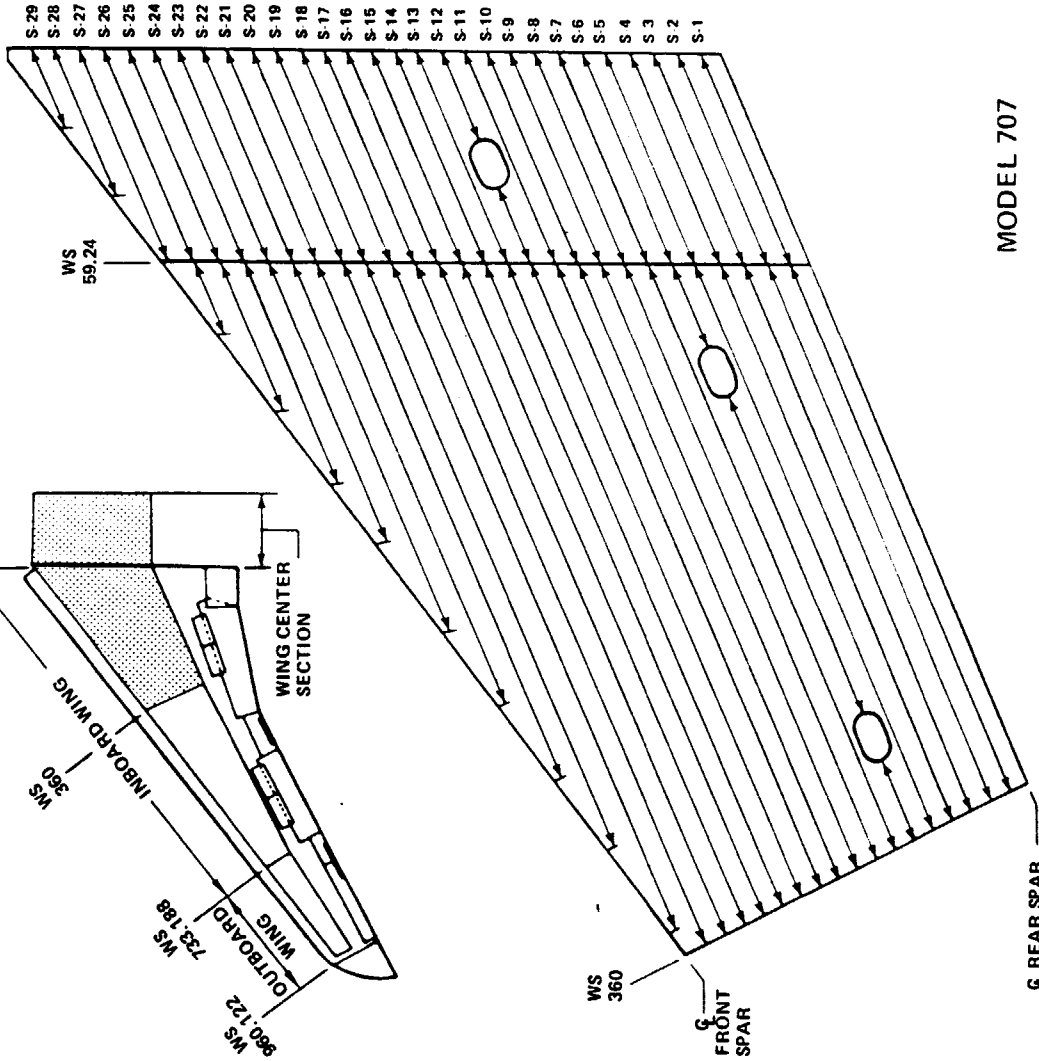
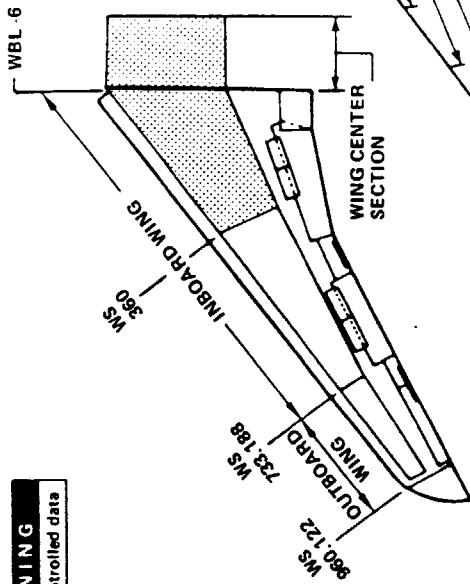
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**LOWER WING STIFFENERS WS 360 TO WS 984.744  
ALL MODELS**

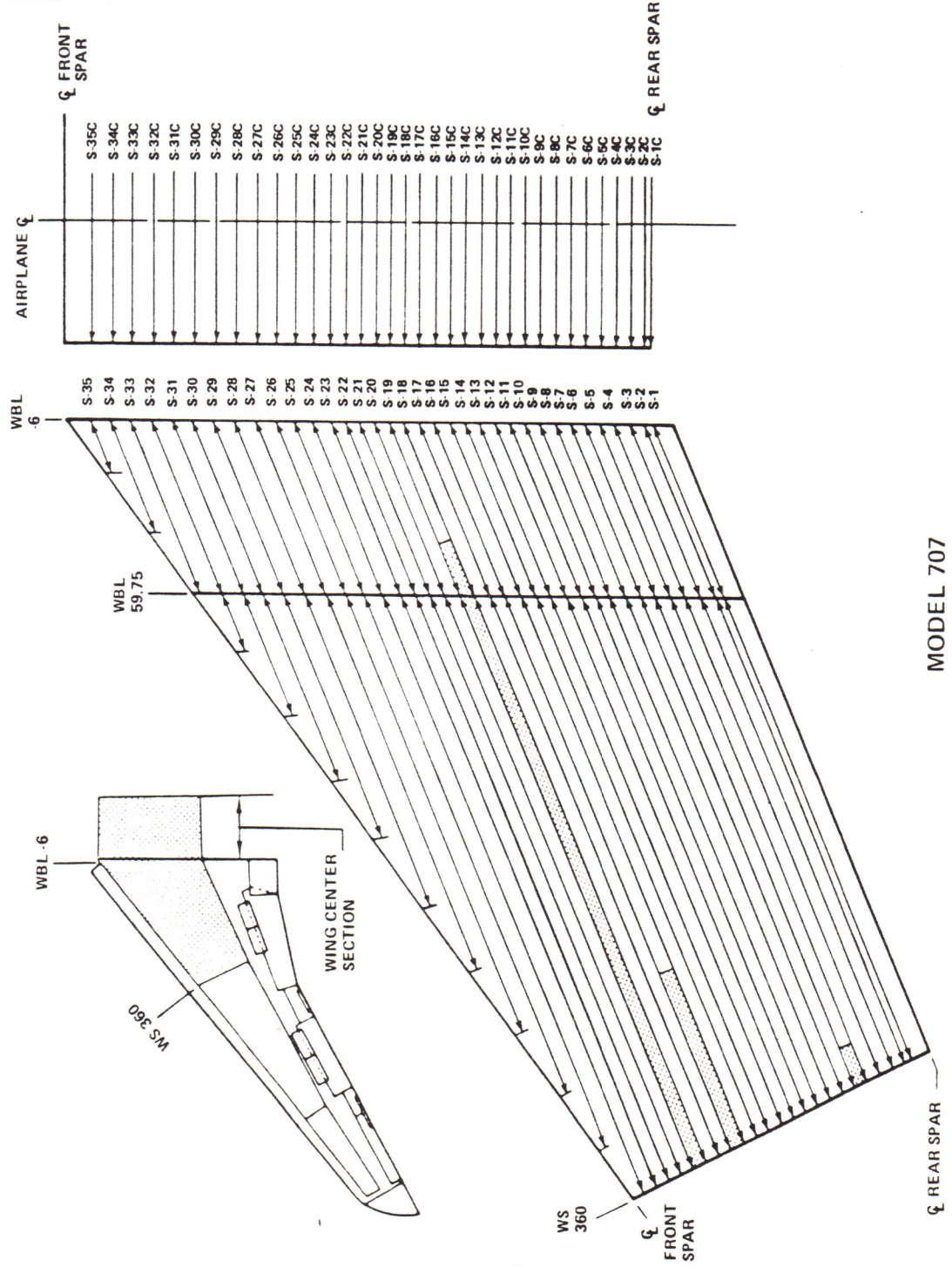


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MODEL 707  
LOWER WING STIFFENERS WBL-6 TO WS 360

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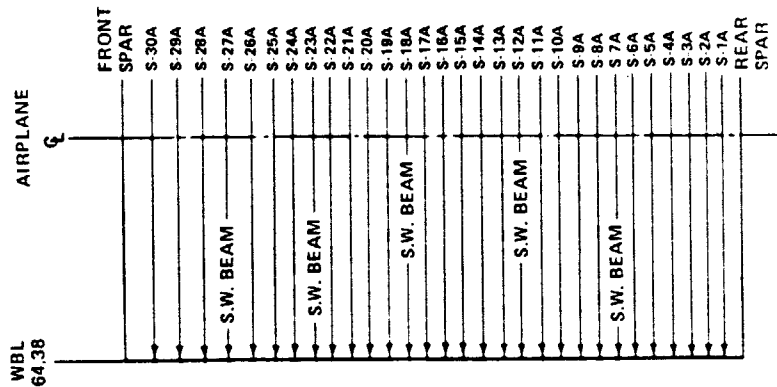
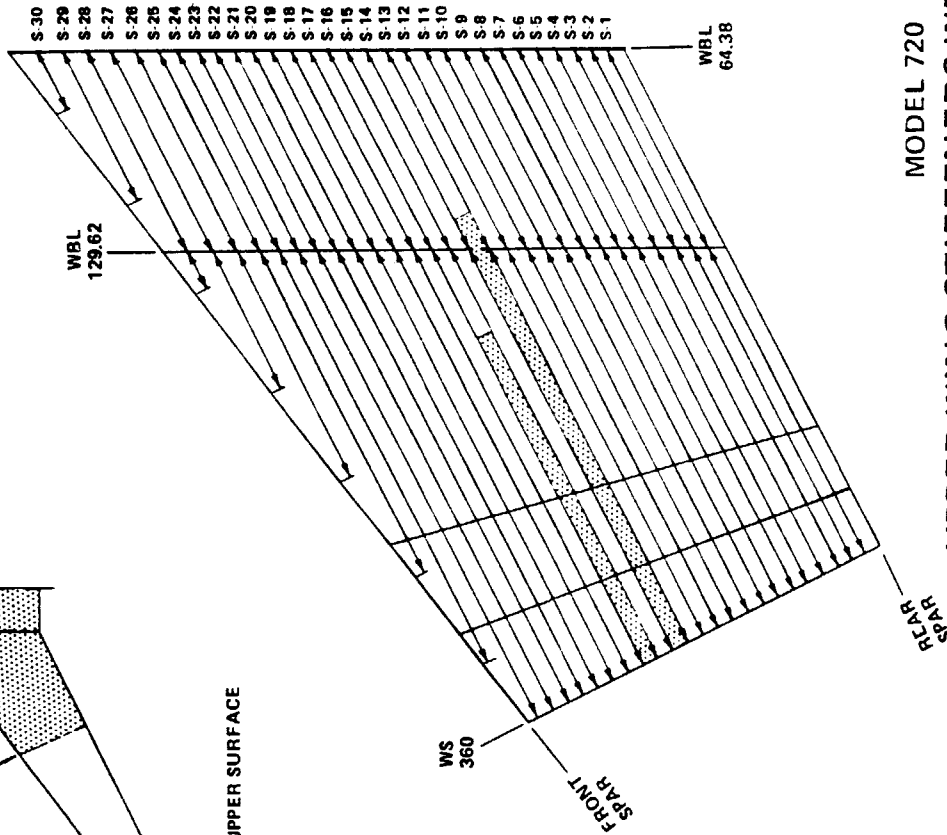
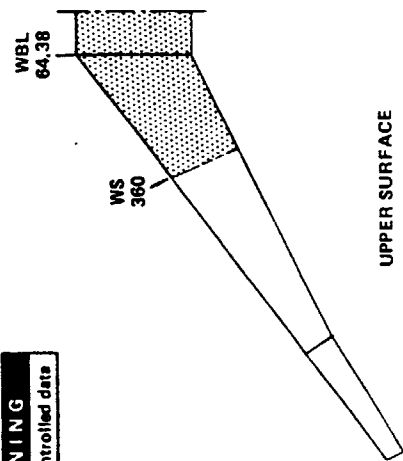


MODEL 707

UPPER WING STIFFENERS WBL-6 TO WS 360



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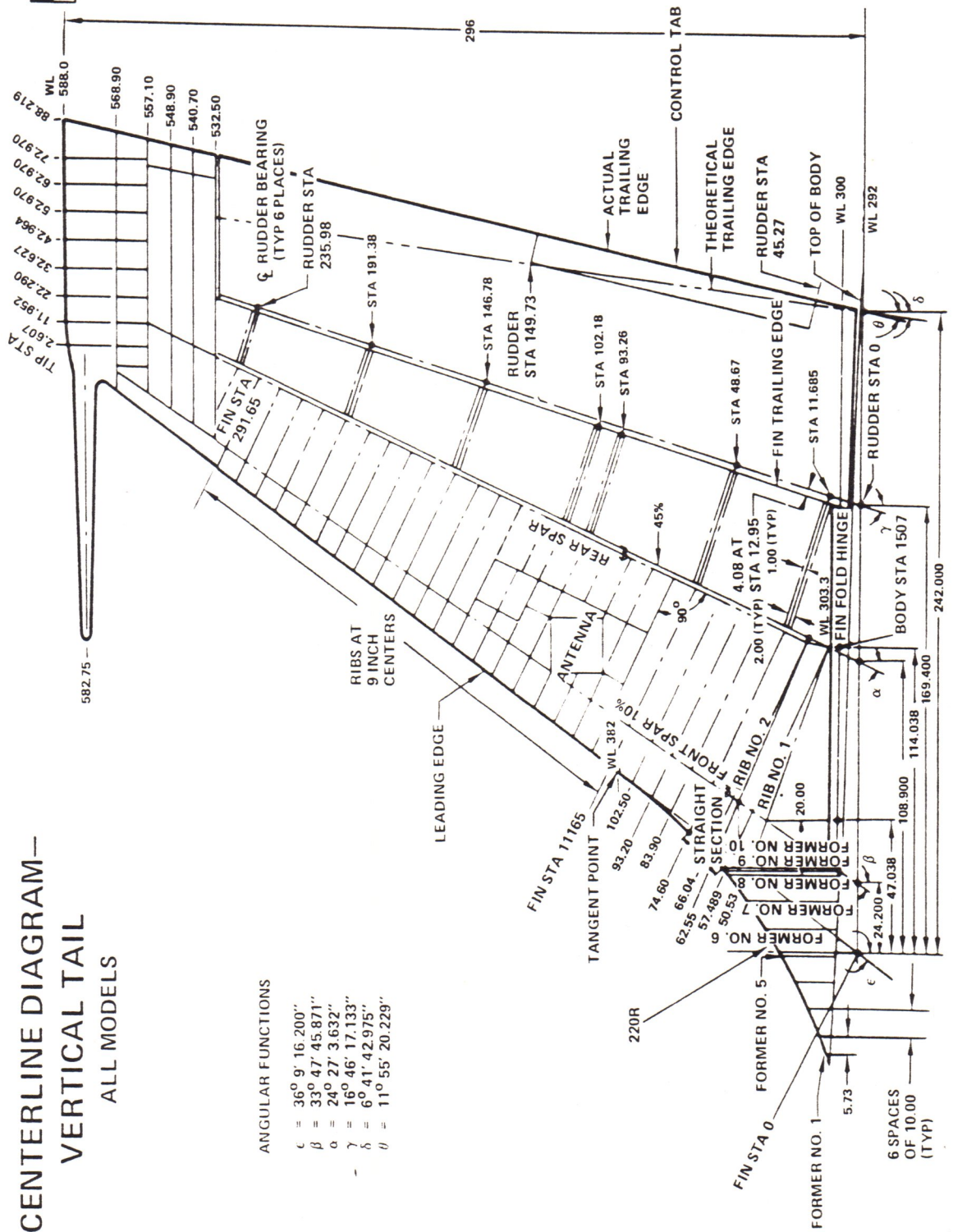


STIFFENER MATERIAL : 7178 T6

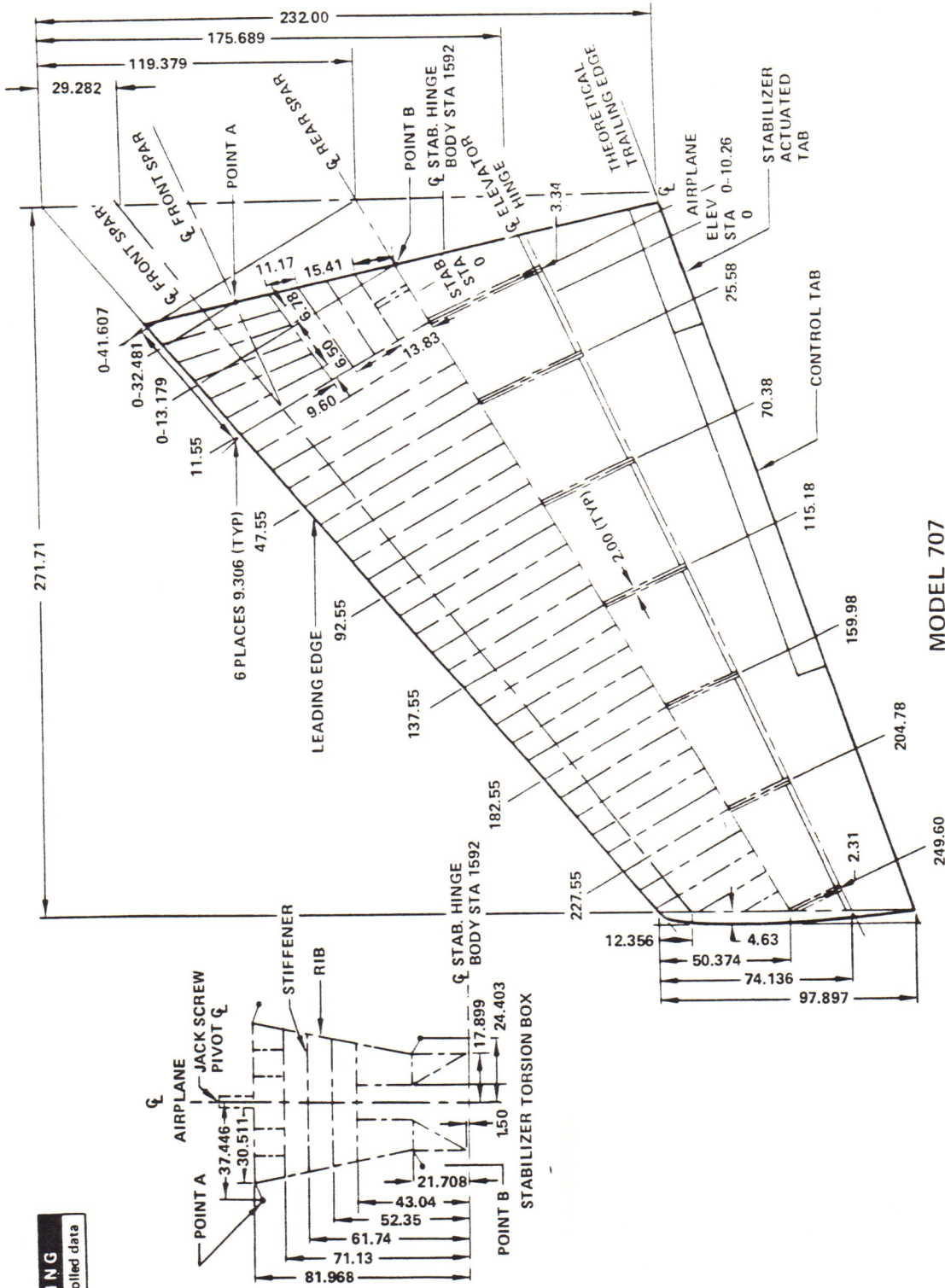
MODEL 720  
UPPER WING STIFFENERS WBL 64.38 TO WS 360

# CENTERLINE DIAGRAM— VERTICAL TAIL ALL MODELS

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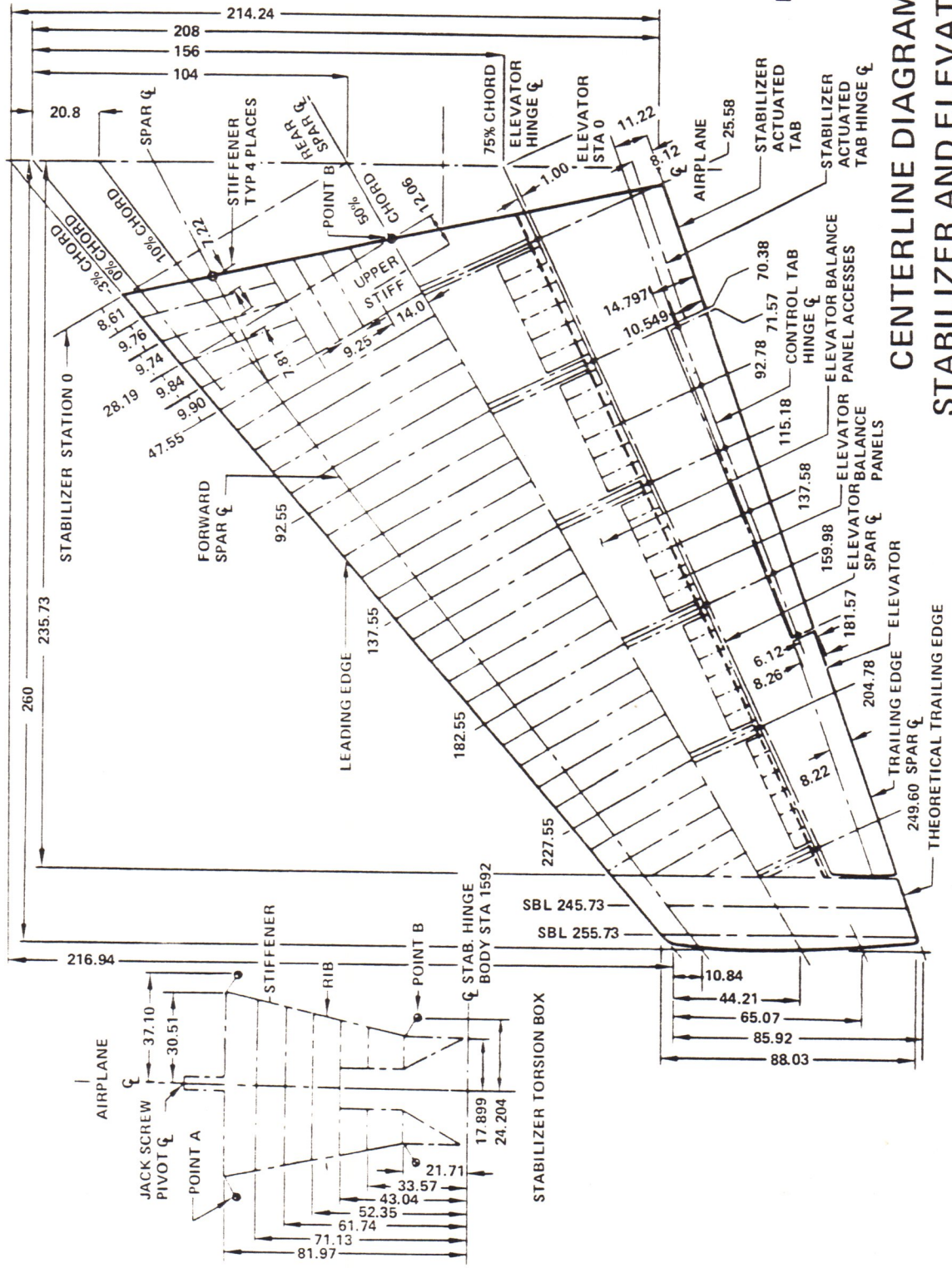
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CENTERLINE DIAGRAM—STABILIZER AND ELEVATOR  
MODEL 707



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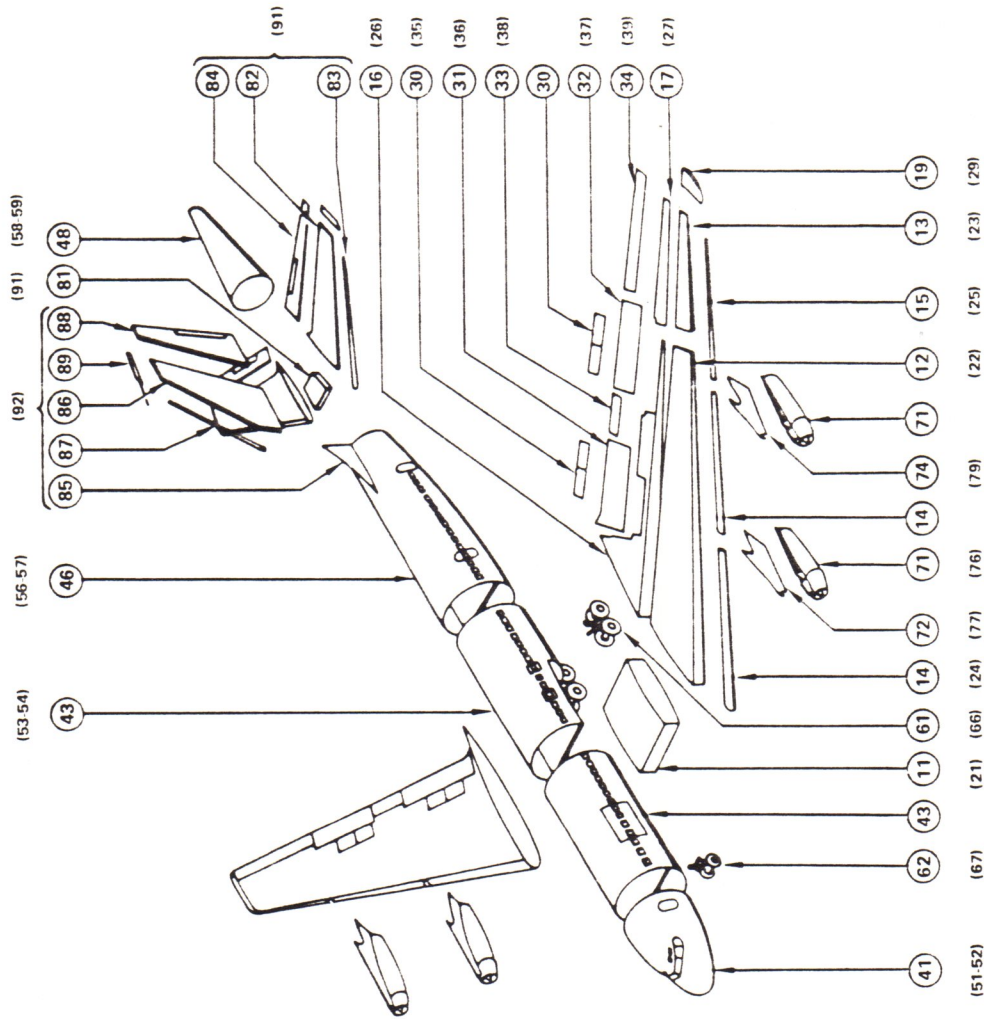


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STRUCTURE ASSEMBLY

- SECTION
- 11—STUB
  - 12—INBOARD WING
  - 13—OUTBOARD WING
  - 14—INBOARD WING—LEADING EDGE
  - 15—OUTBOARD WING—LEADING EDGE
  - 16—INBOARD WING—TRAILING EDGE
  - 17—OUTBOARD WING—TRAILING EDGE
  - 19—WING TIP
  - 30—SPOILERS
  - 31—INBOARD FLAPS
  - 32—OUTBOARD FLAPS
  - 33—INBOARD AILERON
  - 34—OUTBOARD AILERON
  - 41—FIRST BODY SECTION
  - 43—FWD—SECOND BODY SECTION
  - 43—AFT—THIRD BODY SECTION
  - 46—FOURTH BODY SECTION
  - 48—FIFTH BODY SECTION
  - 61—MAIN LANDING GEAR
  - 62—NOSE LANDING GEAR
  - 71—POWER PACKS
  - 72—INBOARD STRUT
  - 74—OUTBOARD STRUT
  - 81—TORQUE BOX
  - 82—HORIZONTAL STABILIZER
  - 83—HORIZONTAL STABILIZER—LEADING EDGE
  - 84—ELEVATORS
  - 85—DORSAL FIN
  - 86—VERTICAL FIN
  - 87—VERTICAL FIN—LEADING EDGE
  - 88—RUDDER
  - 89—VERTICAL FIN—TIP

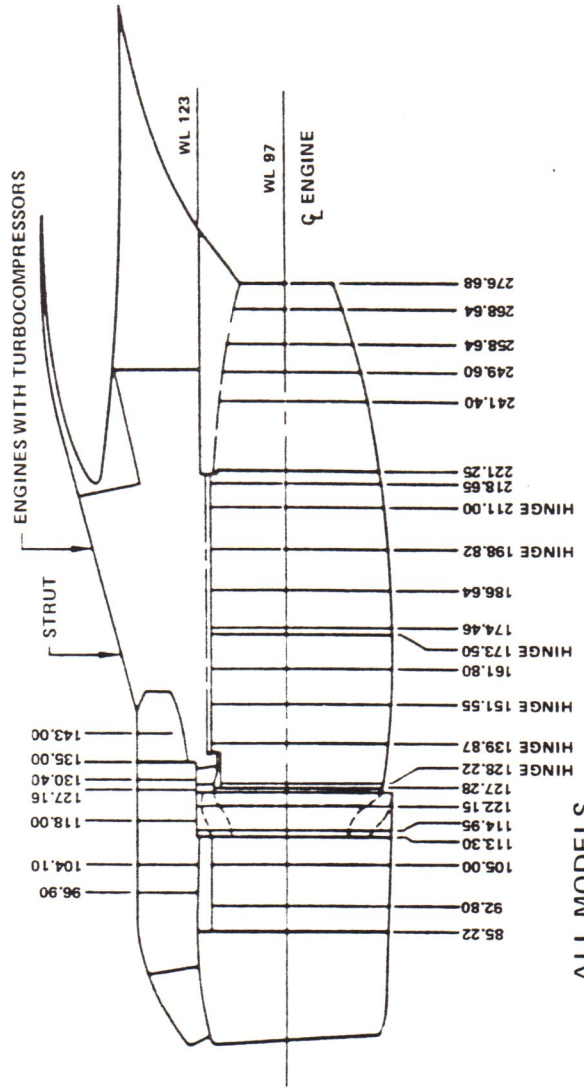
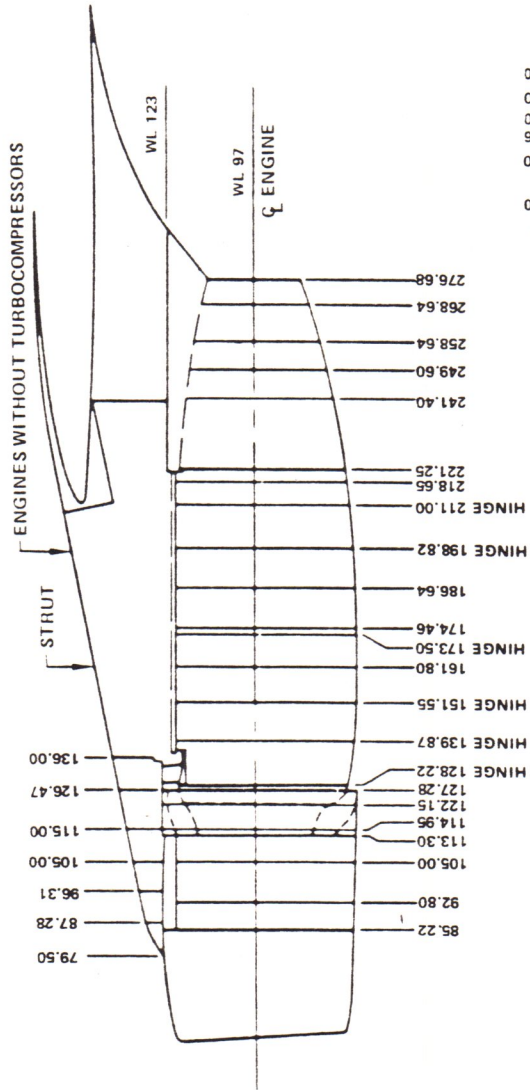
( ) NON-STRUCTURAL SECTIONS



ALL MODELS  
SECTIONAL BREAKDOWN

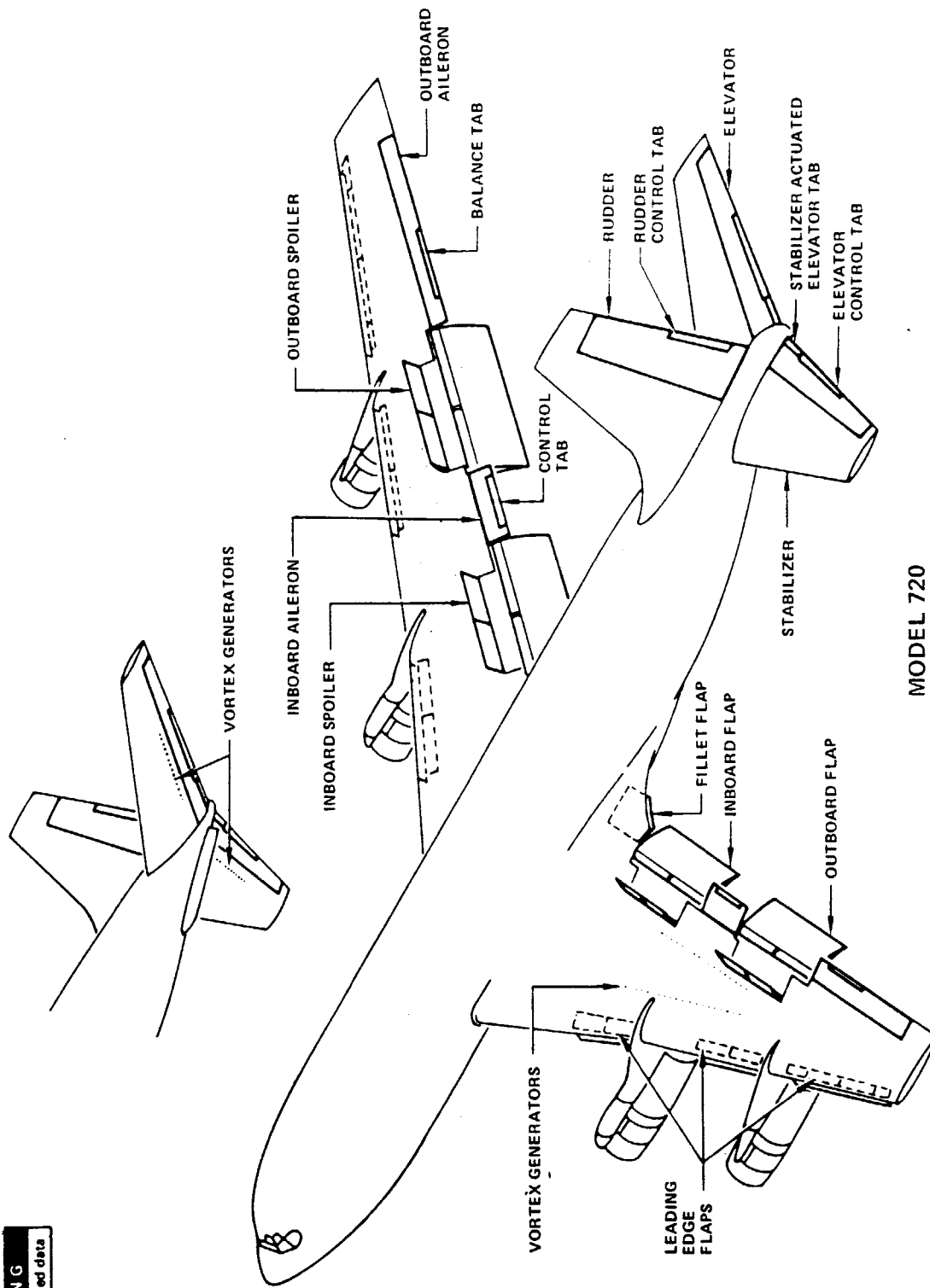


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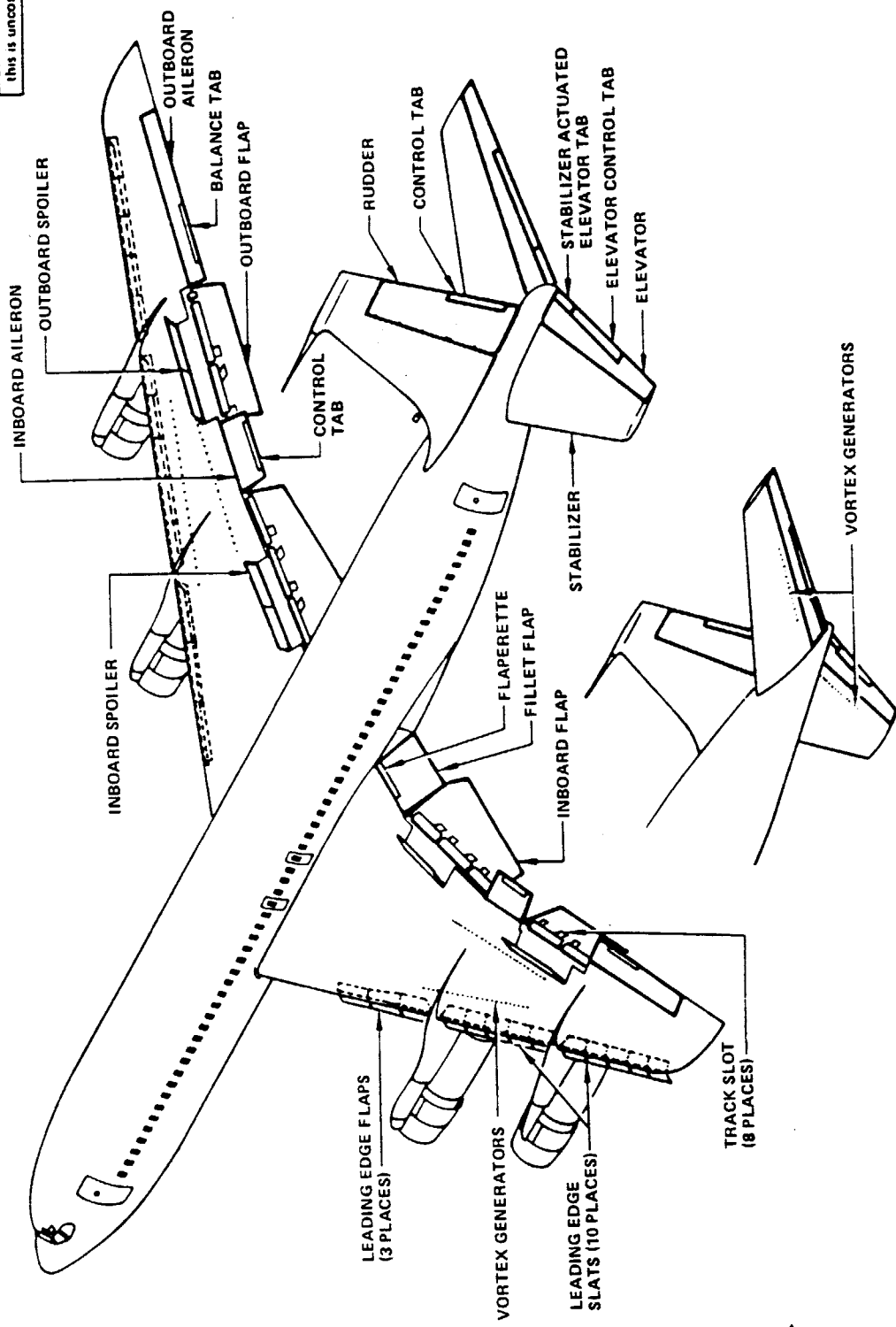
ALL MODELS  
NACELLE AND STRUT STATION DIAGRAM

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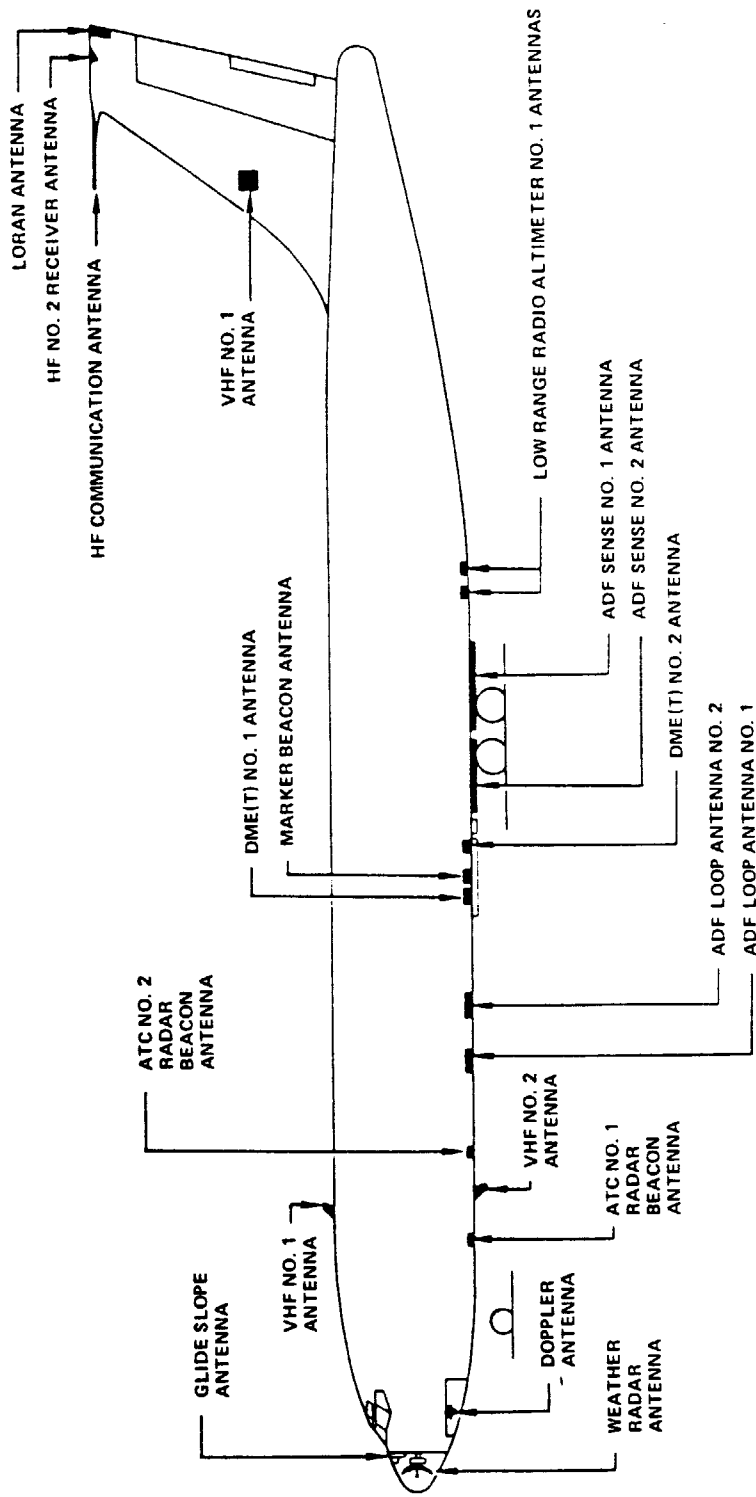
MODEL 720  
CONTROL SURFACES

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MODEL 707  
CONTROL SURFACES

**WARNING**  
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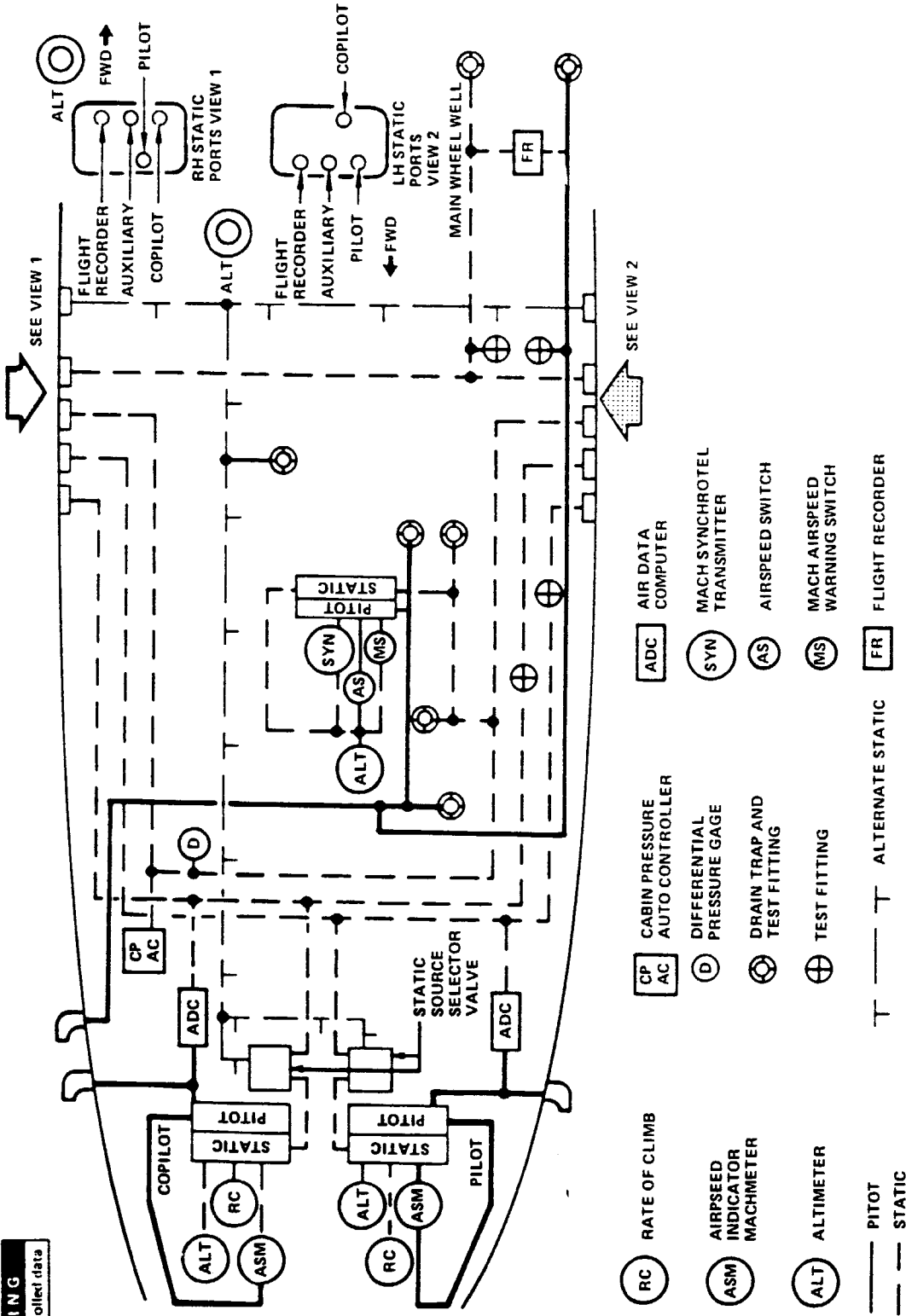


## MODEL 707 ANTENNA LOCATIONS





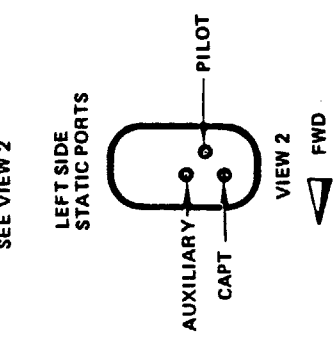
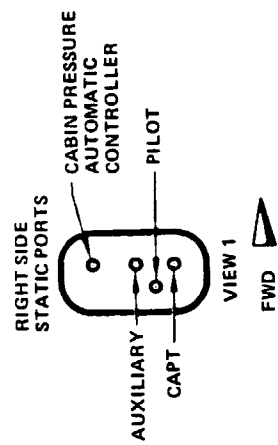
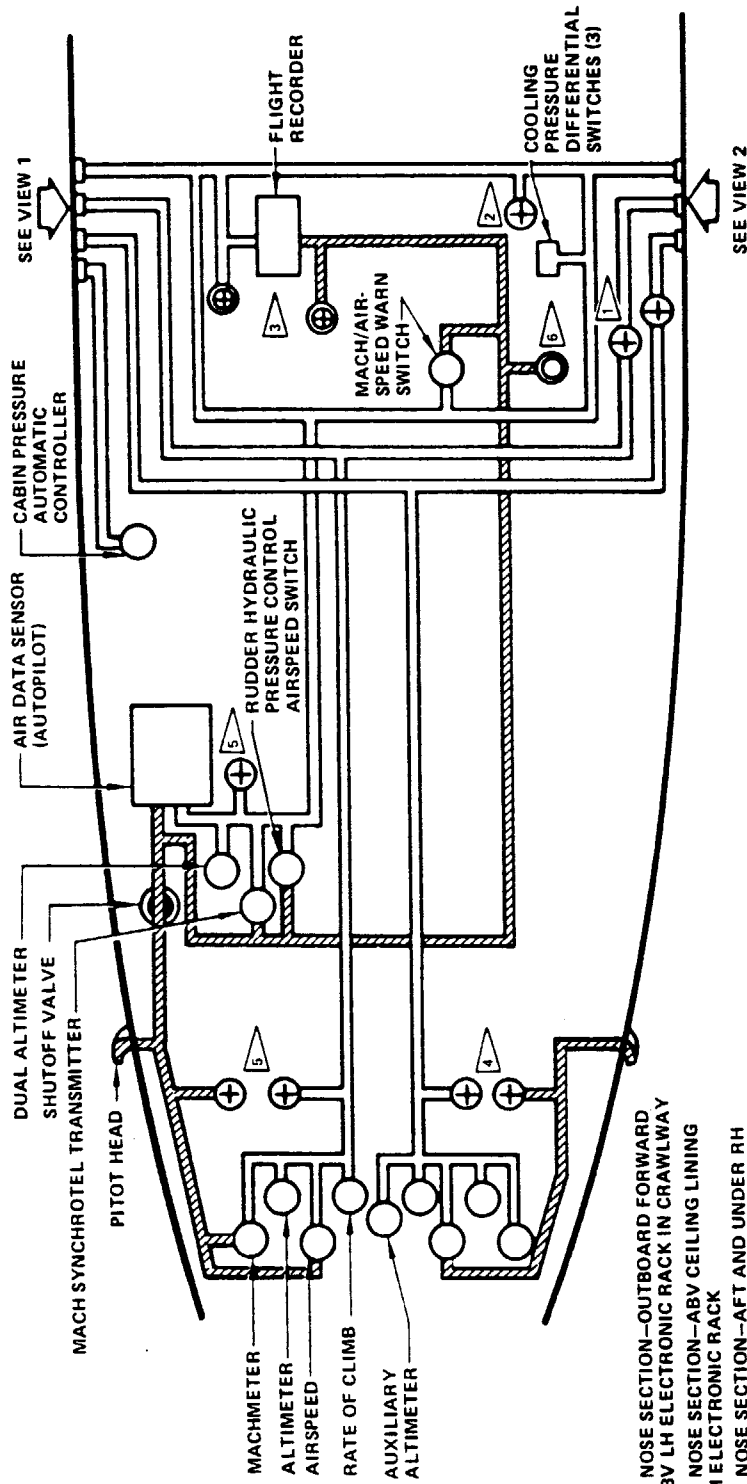
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- (RC) RATE OF CLIMB
- (ASM) AIRSPEED INDICATOR MACHMETER
- (ALT) ALTIMETER
- (CP AC) CABIN PRESSURE AUTO CONTROLLER
- (D) DIFFERENTIAL PRESSURE GAGE
- (DRAIN TRAP AND TEST FITTING)
- (+ TEST FITTING)
- (ADC) AIR DATA COMPUTER
- (SYN) MACH SYNCHROTEL TRANSMITTER
- (AS) AIRSPEED SWITCH
- (MS) MACH AIRSPEED WARNING SWITCH
- (FR) FLIGHT RECORDER
- (PITOT) PITOT
- (STATIC) STATIC
- (ALTERNATE STATIC)

MODEL 707  
**PITOT STATIC SYSTEM**

**WARNING**  
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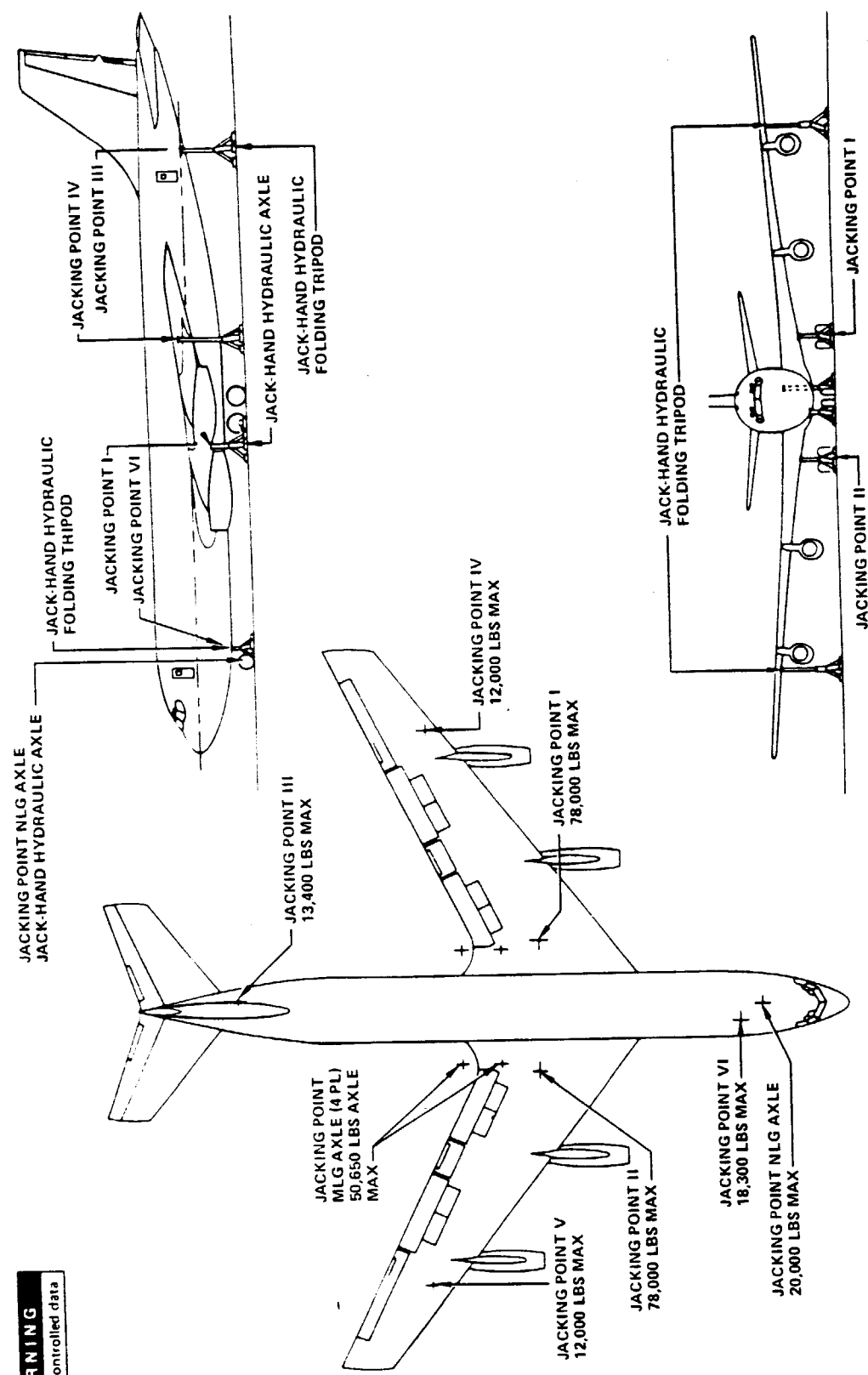


- 1 LOWER NOSE SECTION—OUTBOARD FORWARD AND ABV LH ELECTRONIC RACK IN CRAWLWAY
- 2 LOWER NOSE SECTION—ABV CEILING LINING
- 3 LOWER NOSE SECTION—AFT AND UNDER RH ELECTRONICS RACK
- 4 OBSERVERS PANEL
- 5 BEHIND PILOT'S WASTE CONTAINER
- 6 LOWER NOSE SECTION—LH SIDE OF NOSE WHEEL WELL
- ⊕ TEST FITTING
- ⊕ DRAIN TRAP AND TEST FITTING
- ⊕ DRAIN TRAP
- ⊕ PITOT LINE
- ≡ STATIC LINE

MODEL 720  
**PITOT STATIC SYSTEM**



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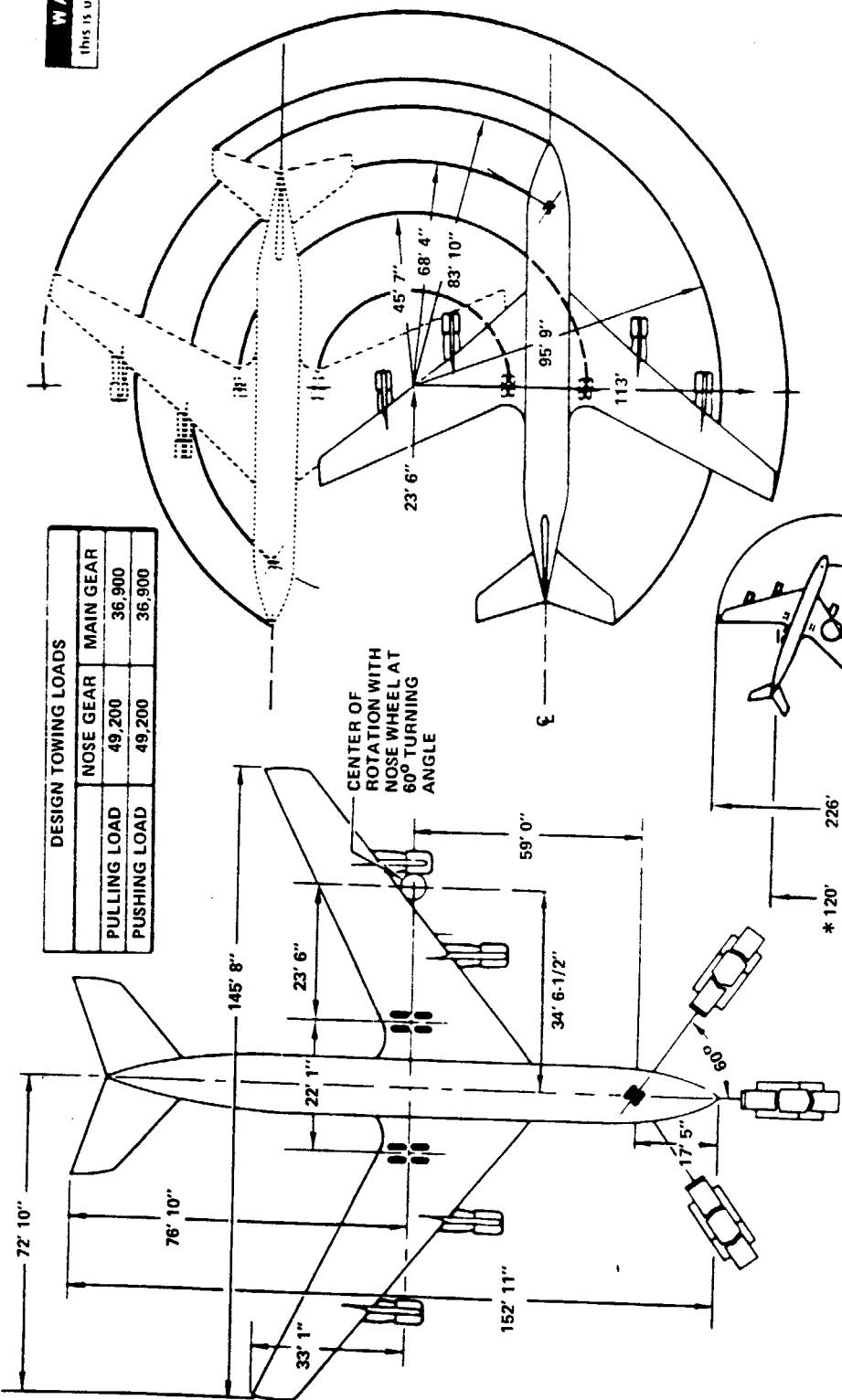


MODEL 720  
JACKING DIAGRAM

**WARNING**

this is uncontrolled data

DESIGN TOWING LOADS	
PULLING LOAD	49,200
PUSHING LOAD	49,200
NOSE GEAR	36,900
MAIN GEAR	36,900



\* APPROXIMATE MINIMUM PAVEMENT REQUIREMENTS FOR 180° TURN

TOWING LOADS

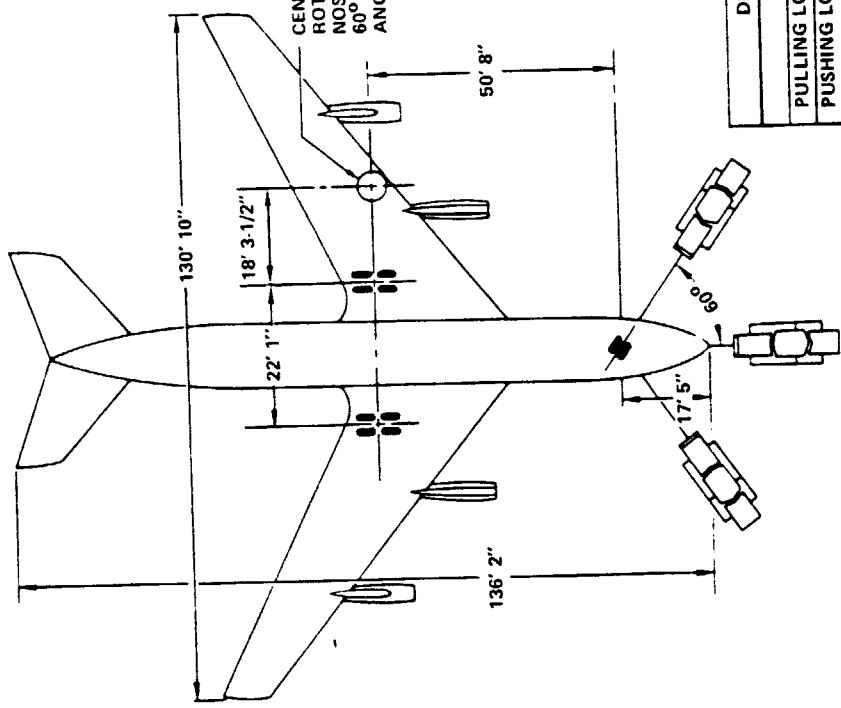
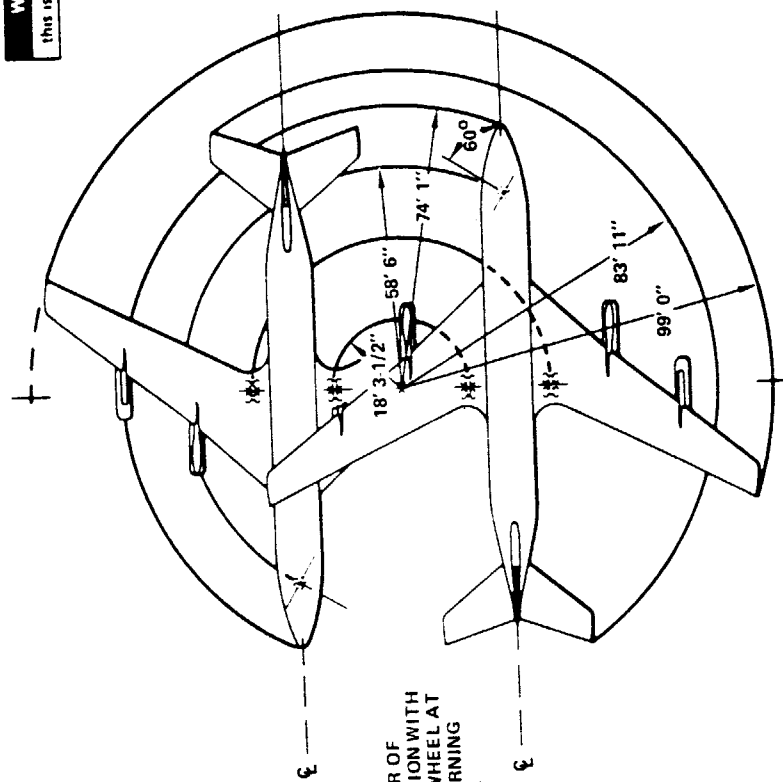
60° STEERING ANGLE

MODEL 707

**TOWING LOADS AND TURNING RADIUS**

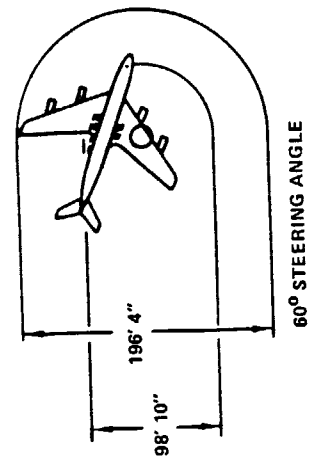


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CENTER OF ROTATION WITH NOSE WHEEL AT 60° TURNING ANGLE

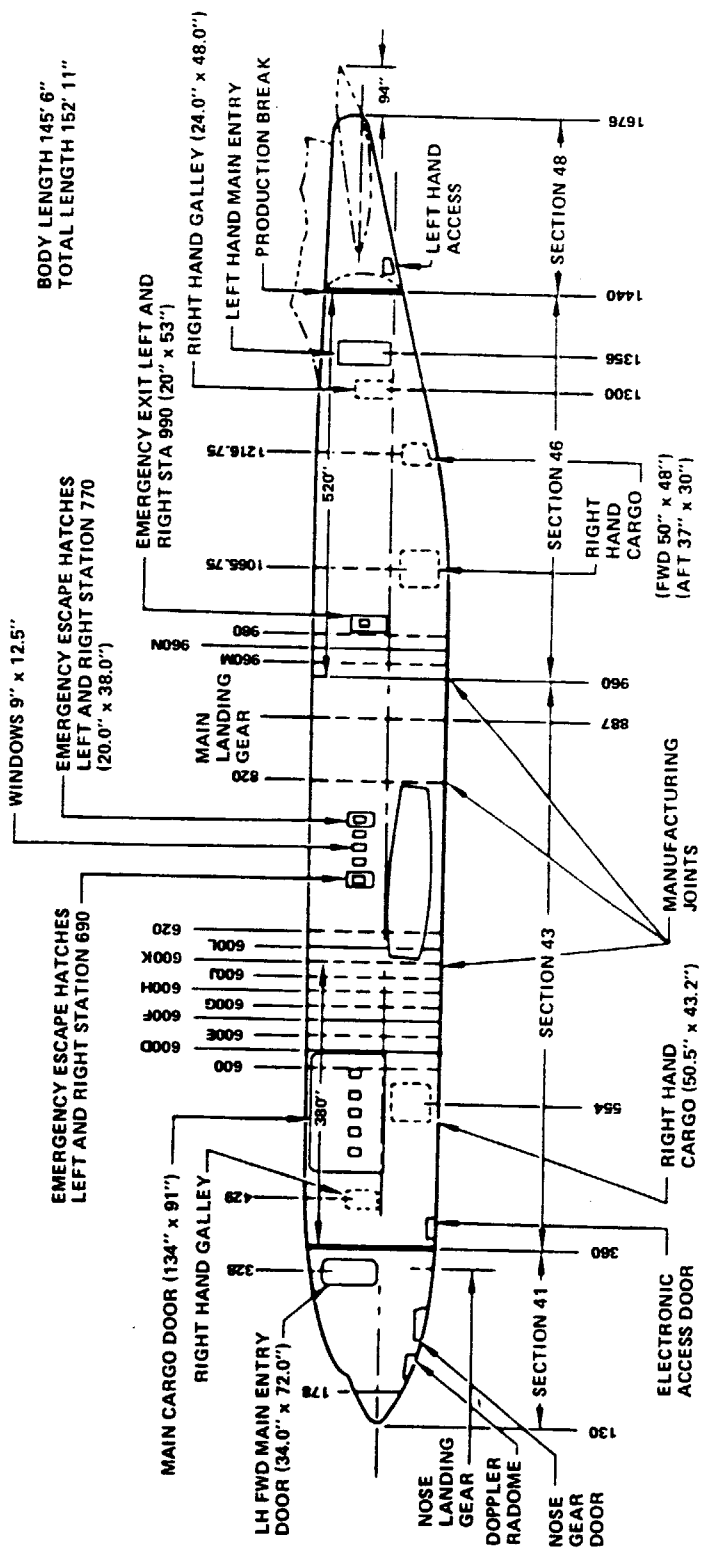
DESIGN TOWING LOADS		
	NOSE GEAR	MAIN GEAR
PULLING LOAD	45,000	28,000
PUSHING LOAD	45,000	28,000



TOWING LOADS

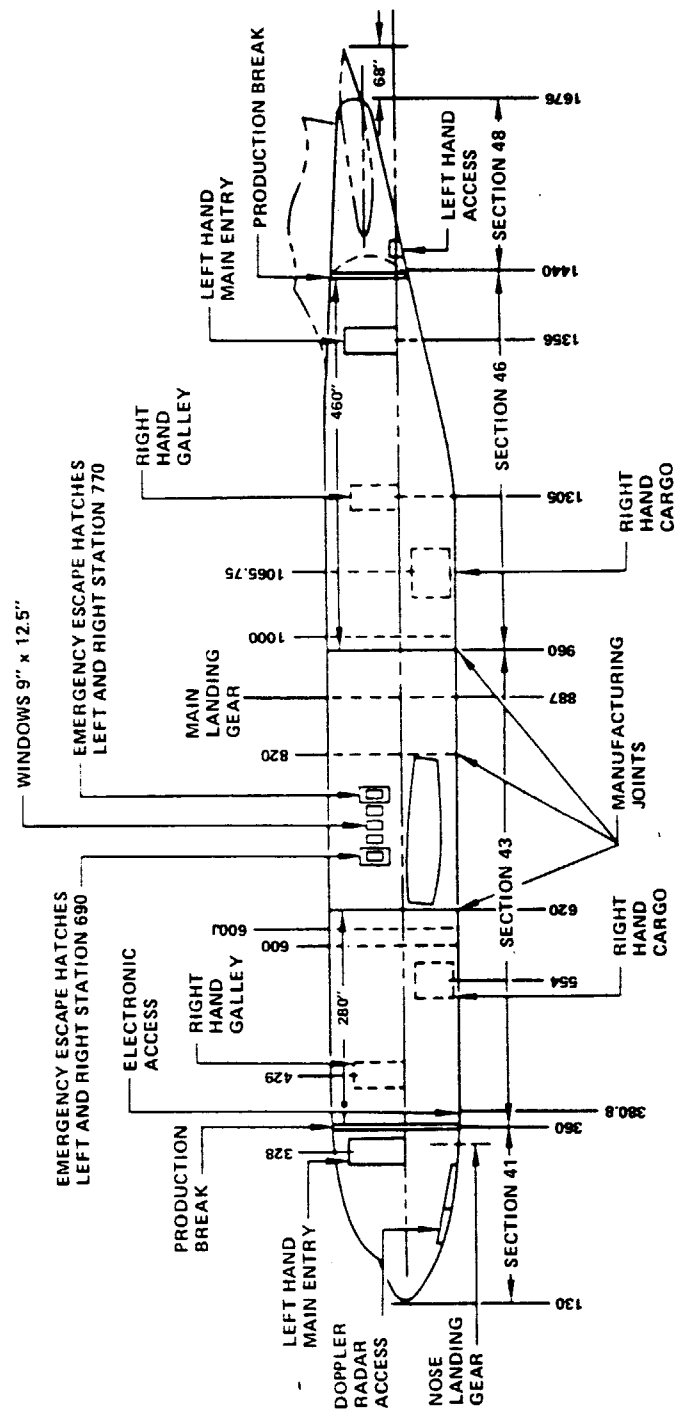
MODEL 720  
TOWING LOADS AND TURNING RADIUS

**WARNING**  
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MODEL 707  
 WINDOWS, DOORS, AND BODY LENGTH

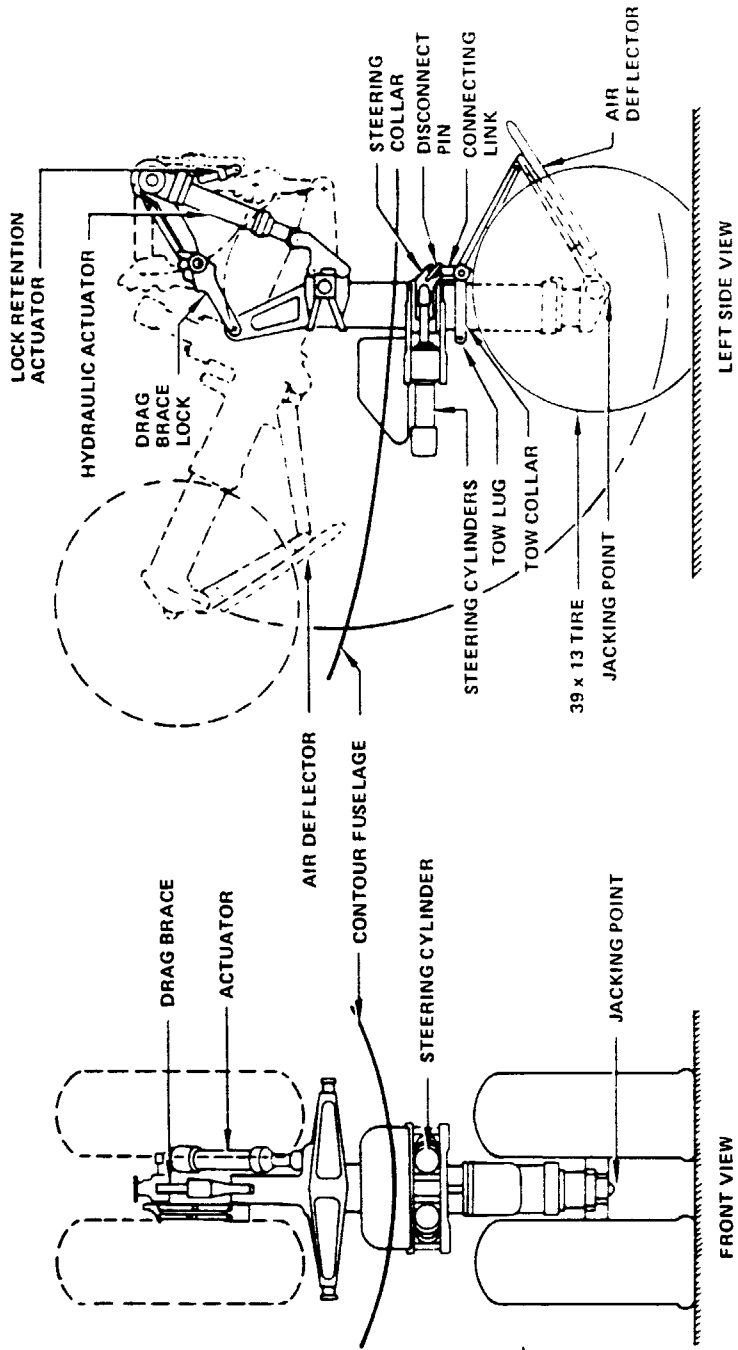
**WARNING**  
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BODY LENGTH 128' 10"  
TOTAL LENGTH 134' 6"

MODEL 720  
**WINDOWS, DOORS, AND BODY LENGTH**

**WARNING**  
this is uncontrolled data

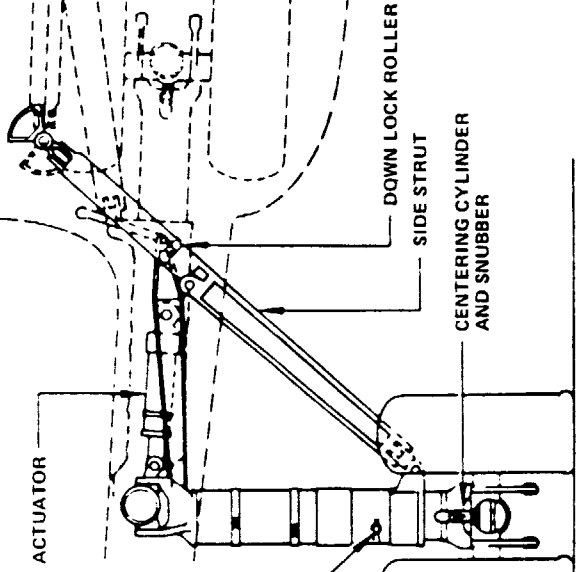
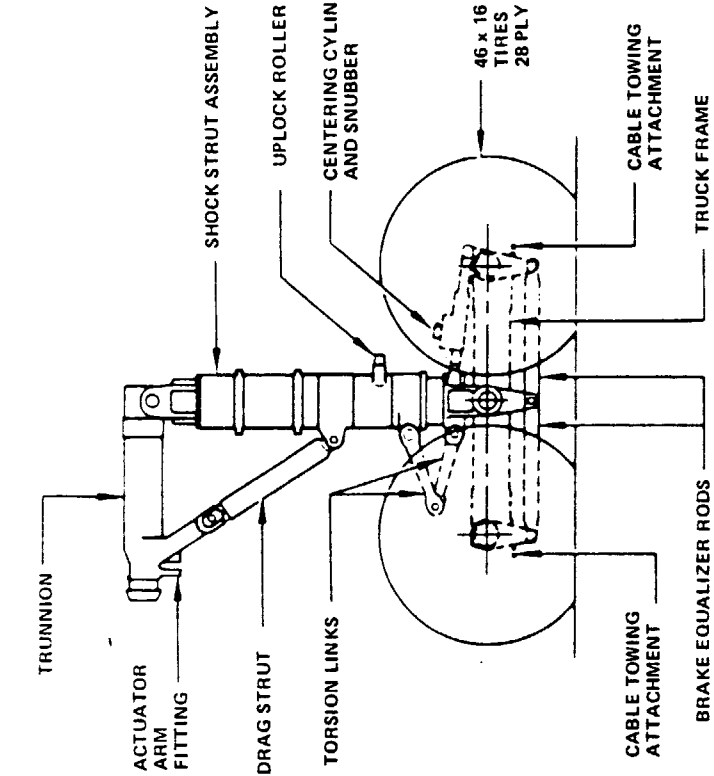


ALL MODELS  
NOSE GEAR

**WARNING**  
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LEFT SIDE VIEW

REAR VIEW

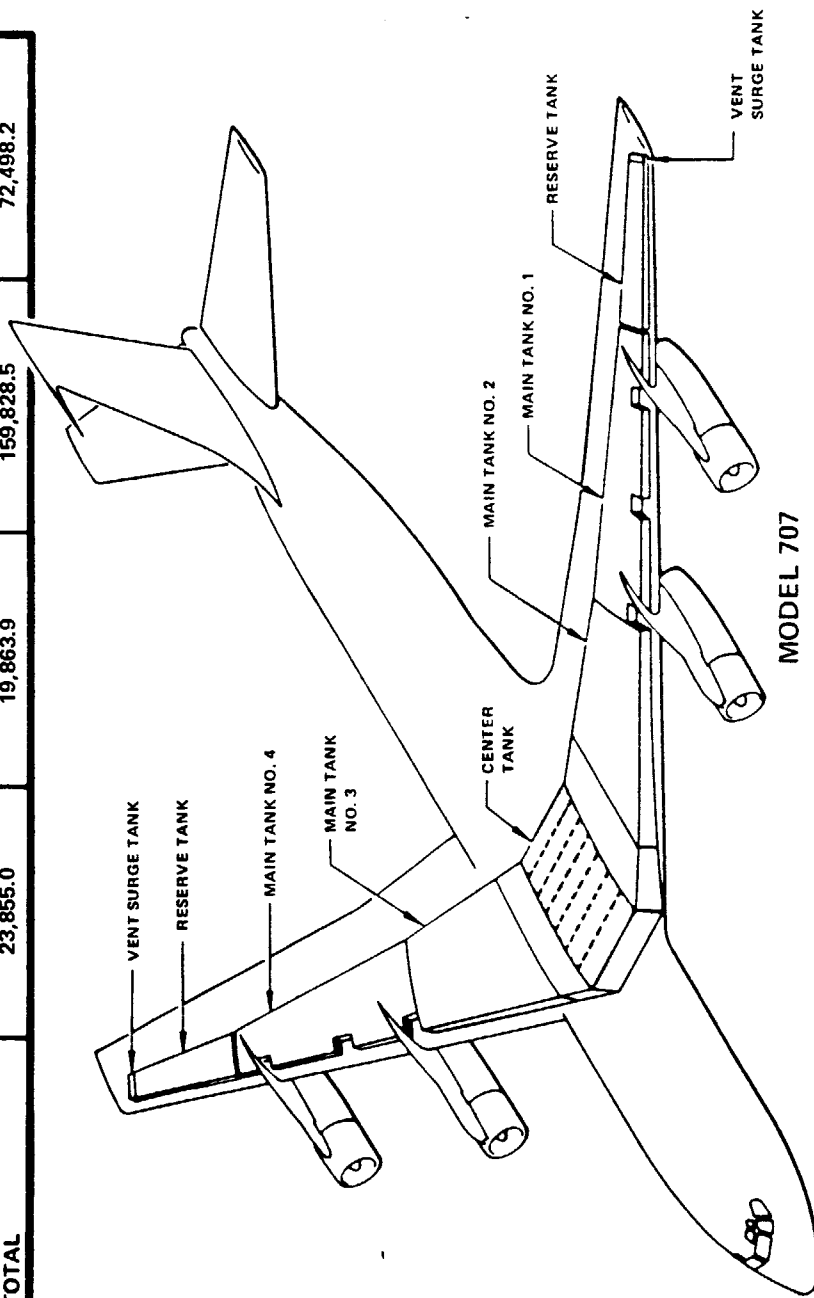


ALL MODELS  
**MAIN LANDING GEAR**



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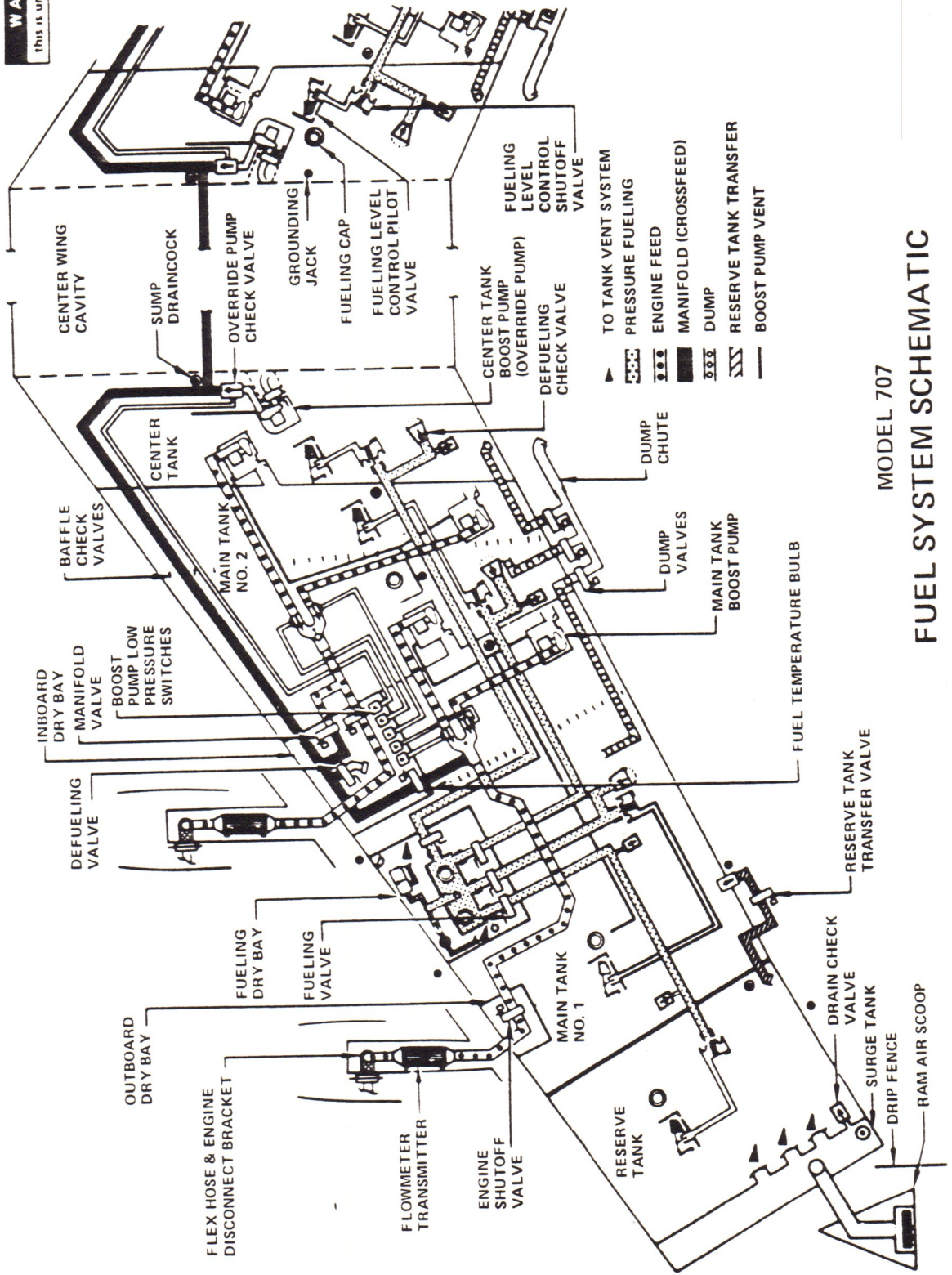
USABLE FUEL CAPACITIES				
TANK	U.S. GALLONS	IMP. GALLONS	POUNDS	KILOGRAMS
RESERVE NO. 1	439.0	365.5	2,941.3	1,334.2
MAIN NO. 1	2,323.0	1,934.4	15,564.1	7,059.9
MAIN NO. 2	4,069.0	3,388.2	27,262.3	12,366.2
CENTER (7 CELL)	10,193.0	8,487.7	68,293.1	30,977.7
MAIN NO. 3	4,069.0	3,388.2	27,262.3	12,366.2
MAIN NO. 4	2,323.0	1,934.4	15,564.1	7,059.9
RESERVE NO. 4	439.0	365.5	2,941.3	1,334.2
<b>TOTAL</b>	<b>23,855.0</b>	<b>19,863.9</b>	<b>159,828.5</b>	<b>72,498.2</b>



MODEL 707

**FUEL TANK ARRANGEMENT**

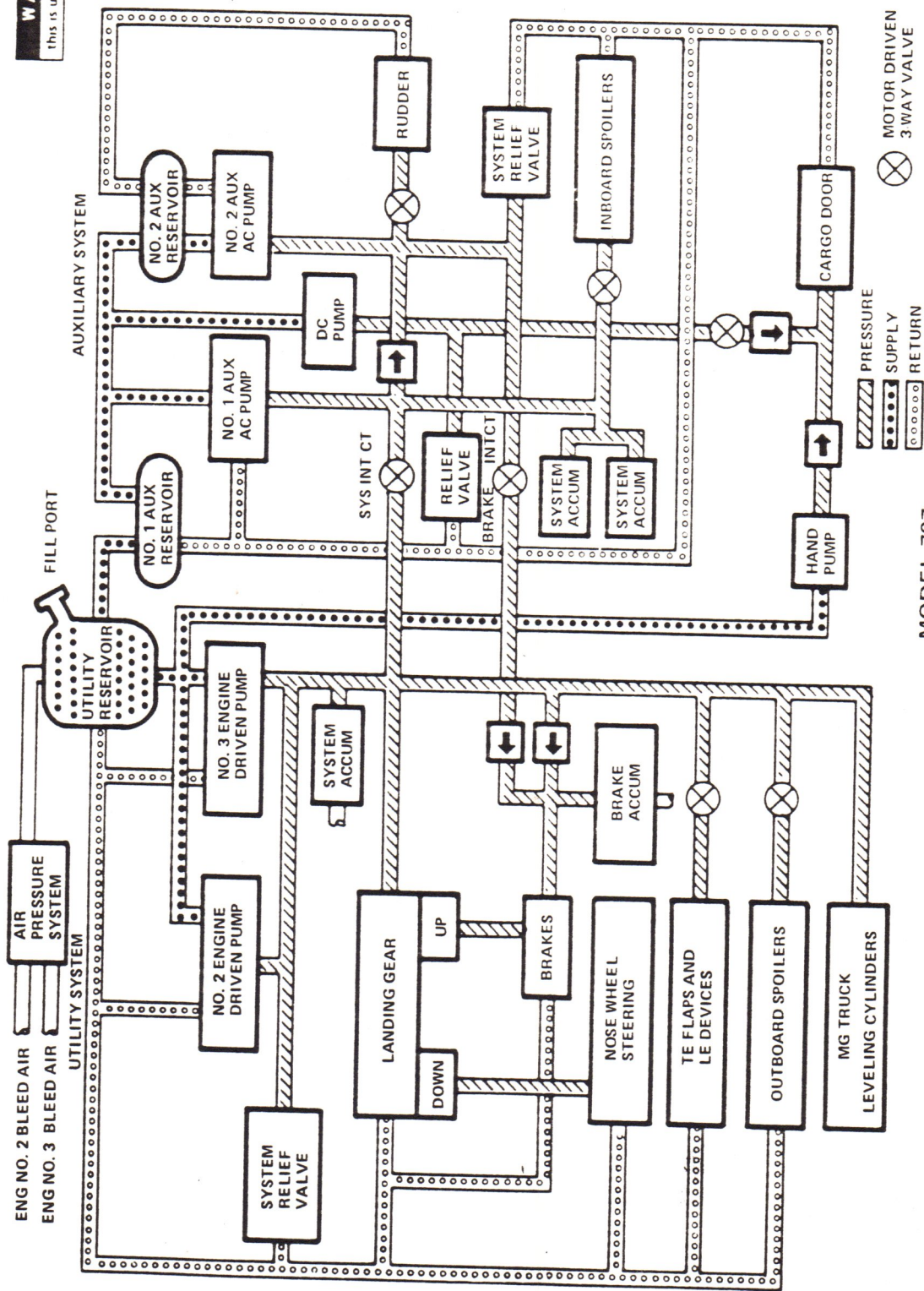
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this is uncontrolled data



MODEL 707

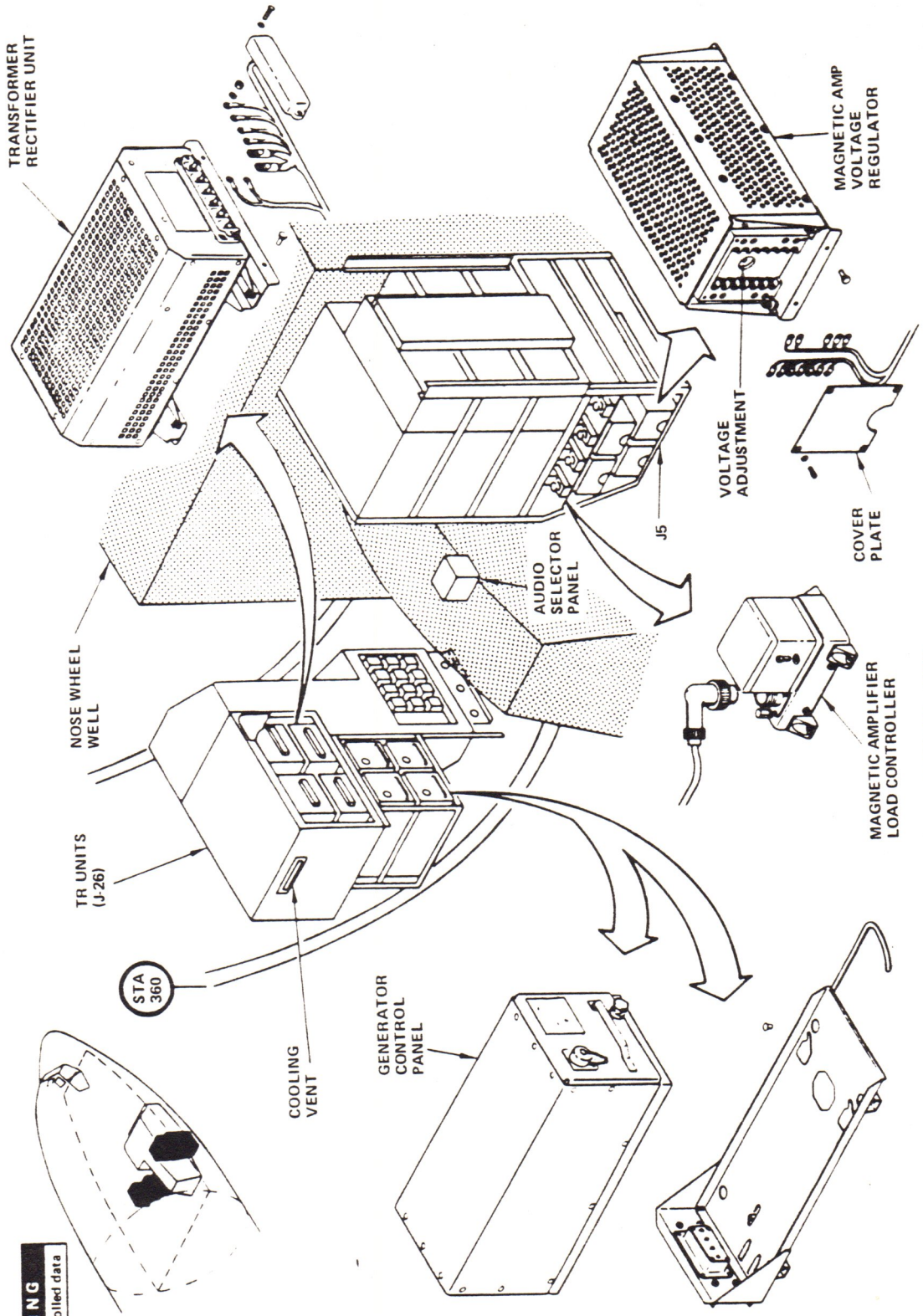
# FUEL SYSTEM SCHEMATIC

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This is uncontrolled data



MODEL 707  
HYDRAULIC SYSTEM SCHEMATIC

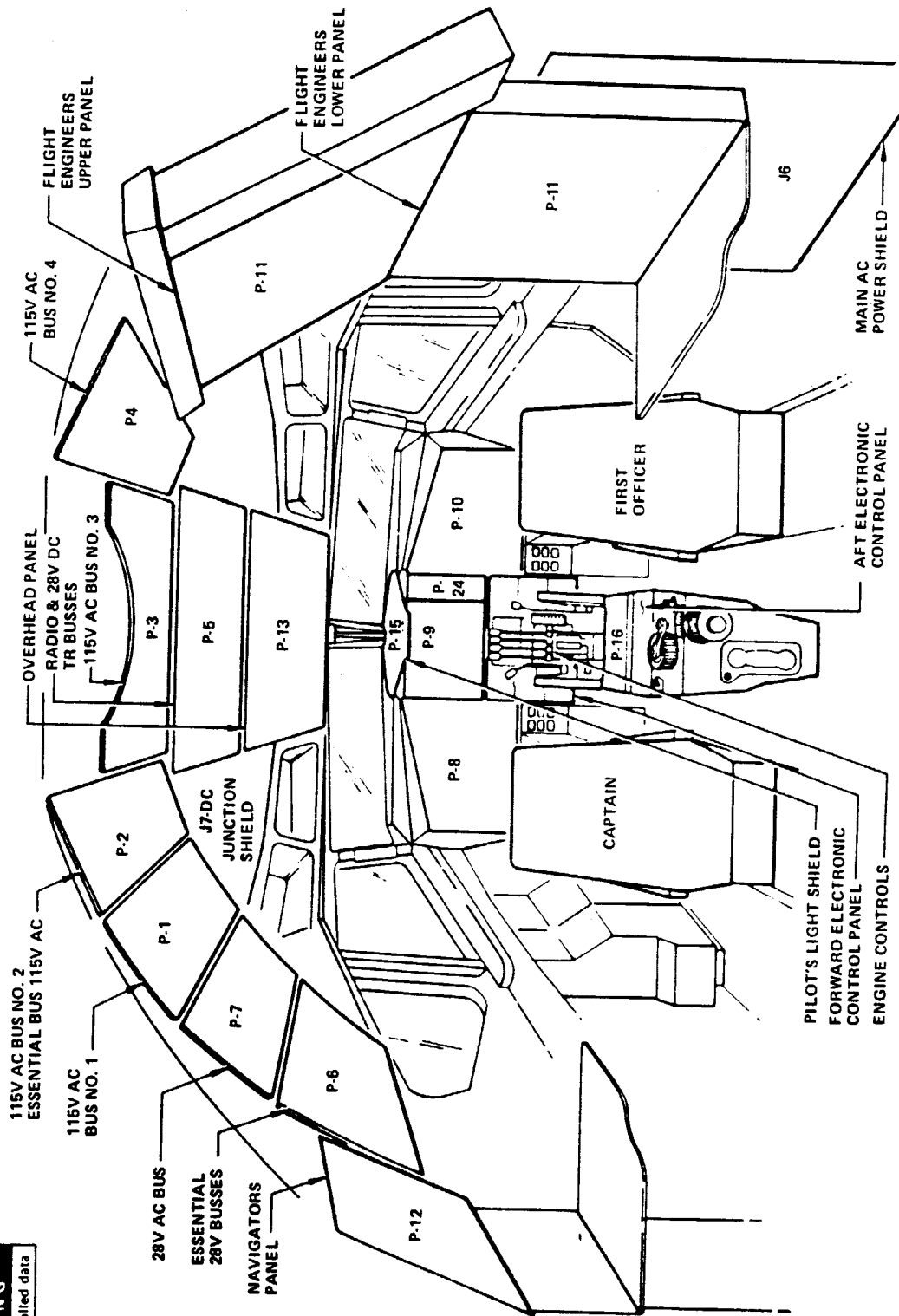




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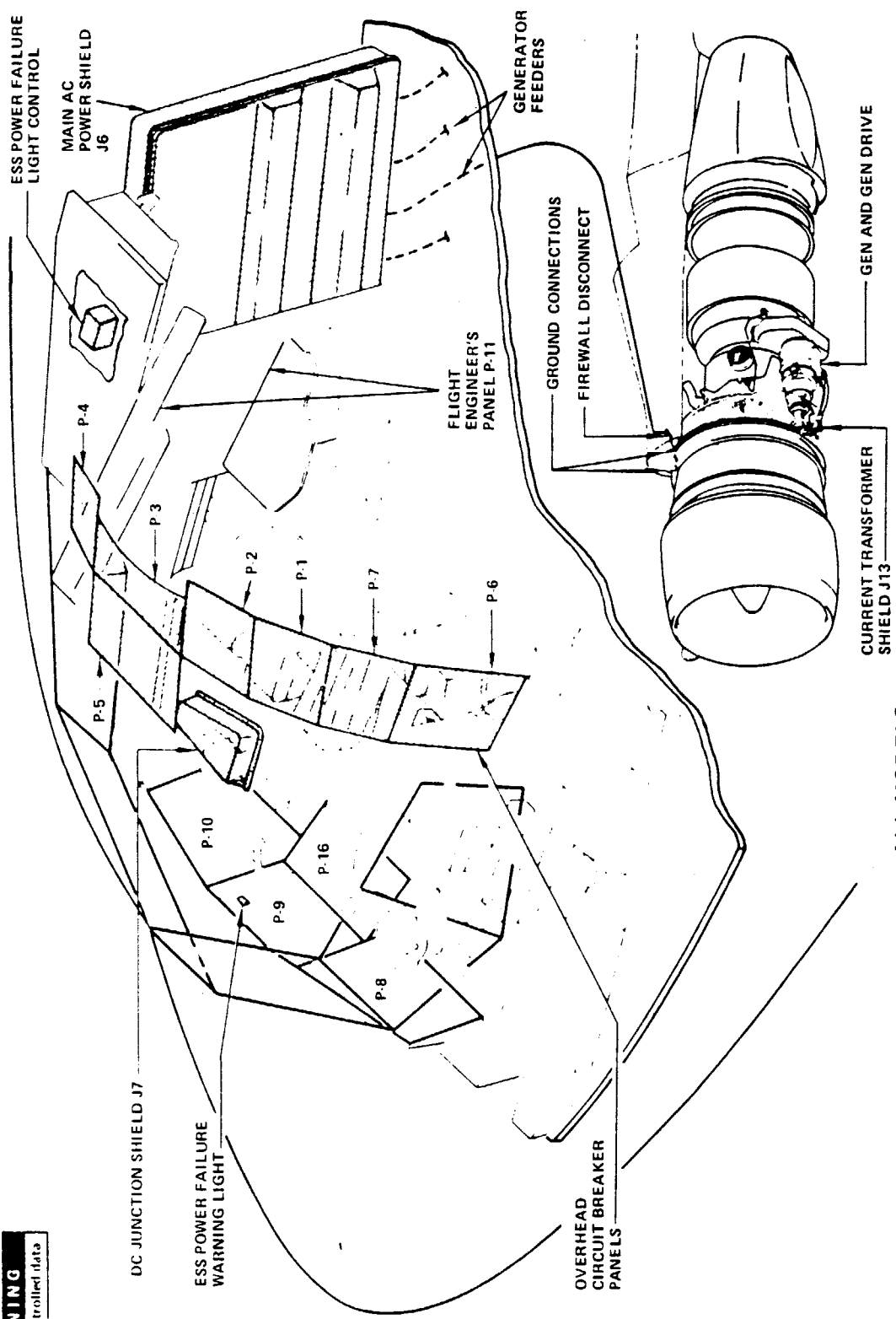
MODEL 707  
ELECTRICAL EQUIPMENT INSTALLATION

**WARNING**  
this is uncontrolled data



ALL MODELS  
**CONTROL CABIN PANEL LOCATION**

**WARNING**  
this is uncontrolled data

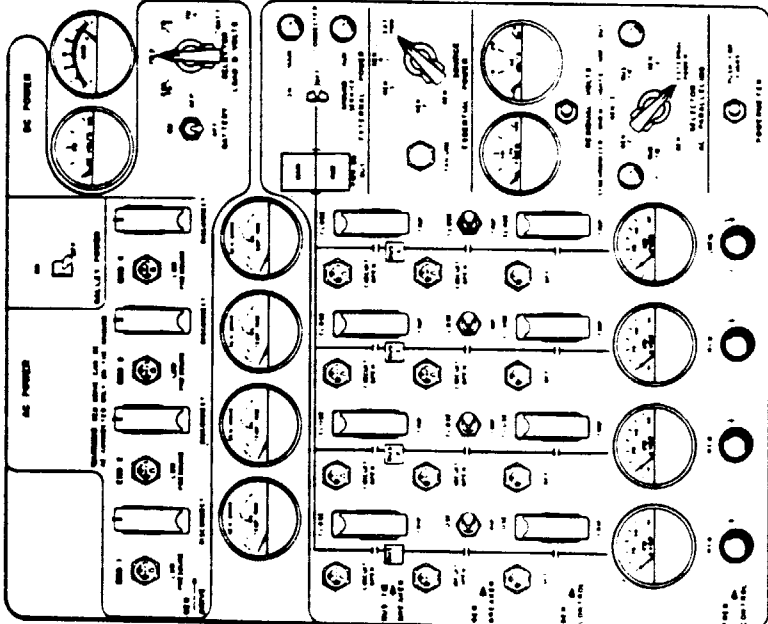
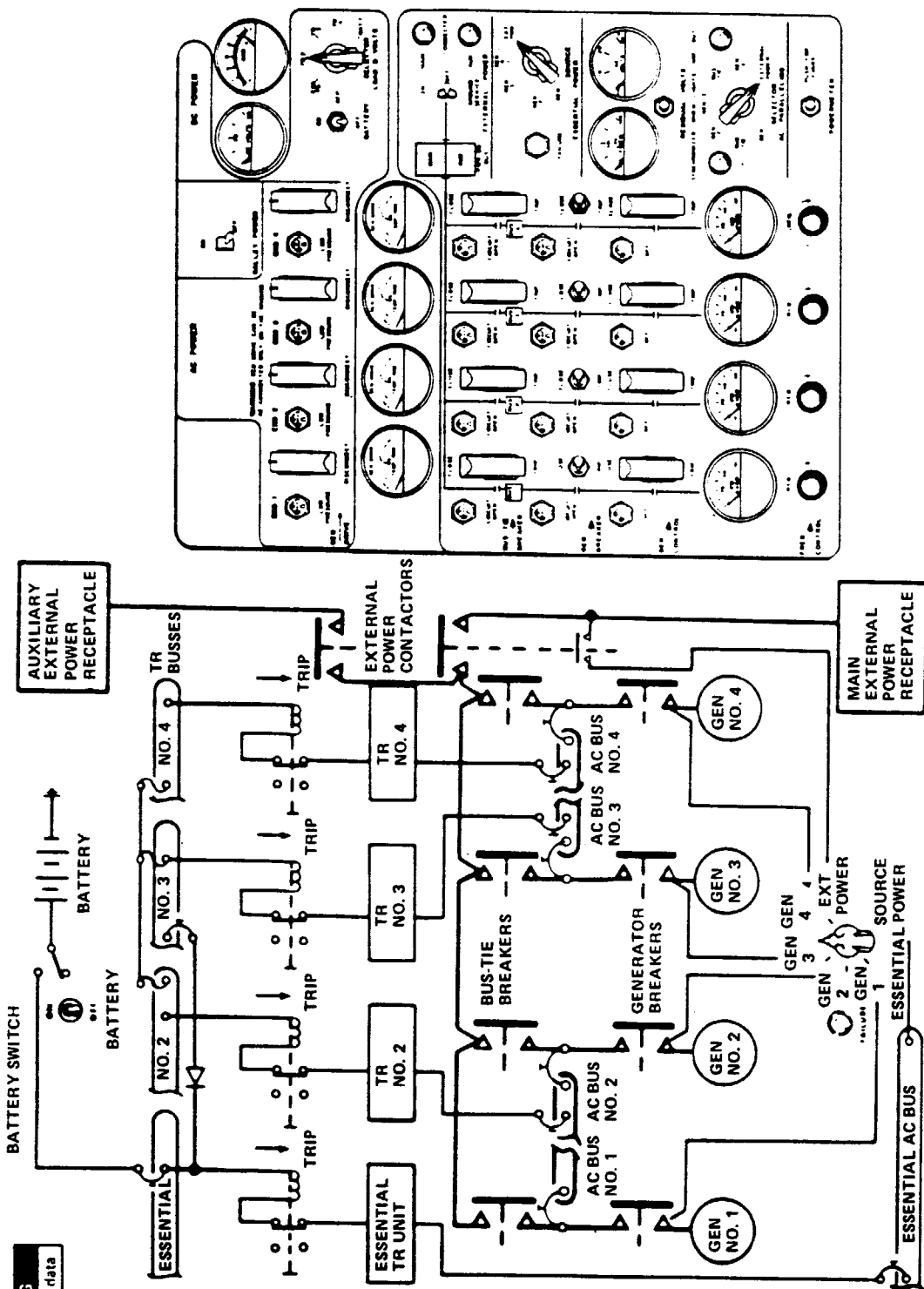


ALL MODELS

# ELECTRICAL POWER EQUIPMENT LOCATION— UPPER SECTION 41 AND ENGINE



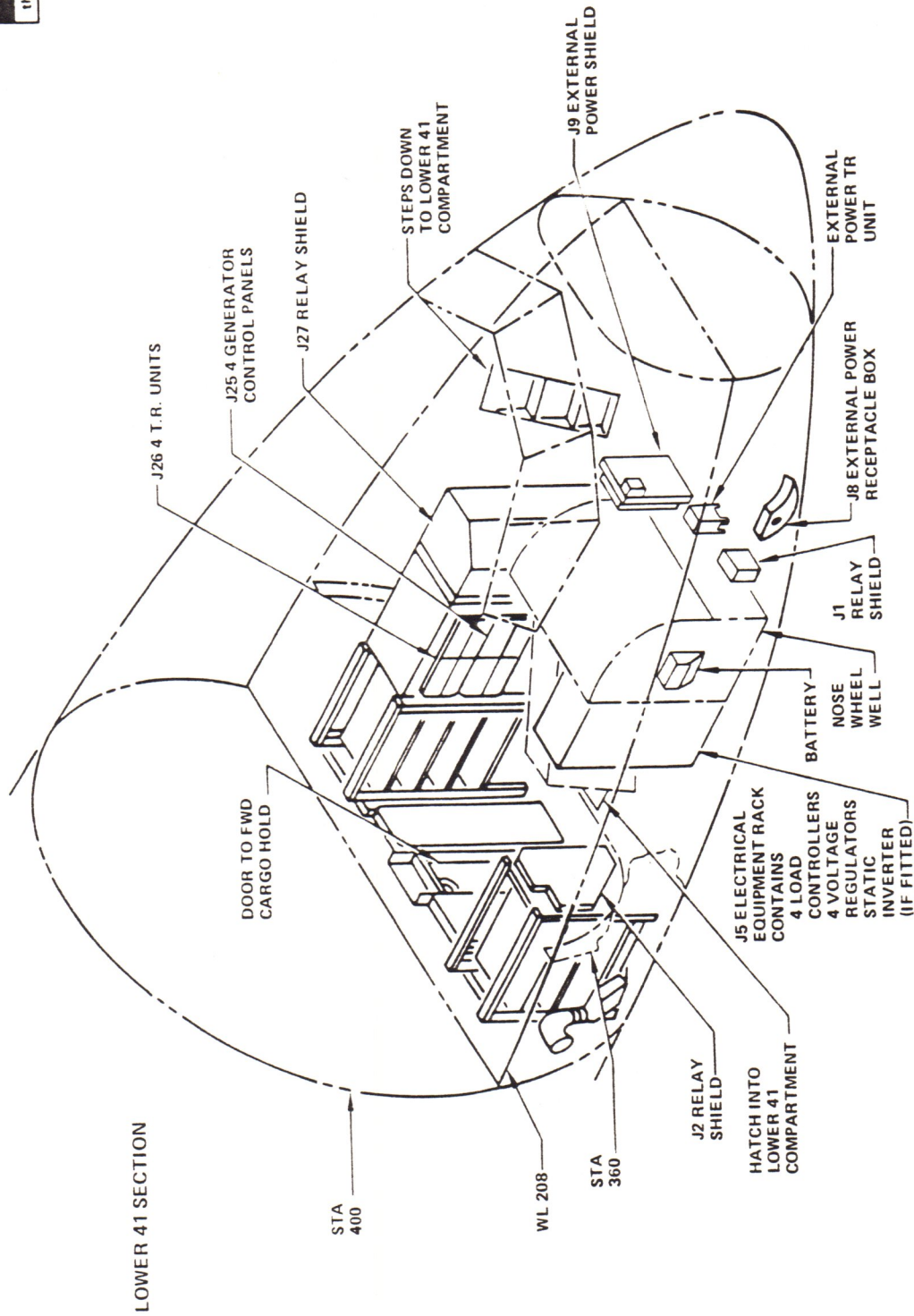
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MODEL 707

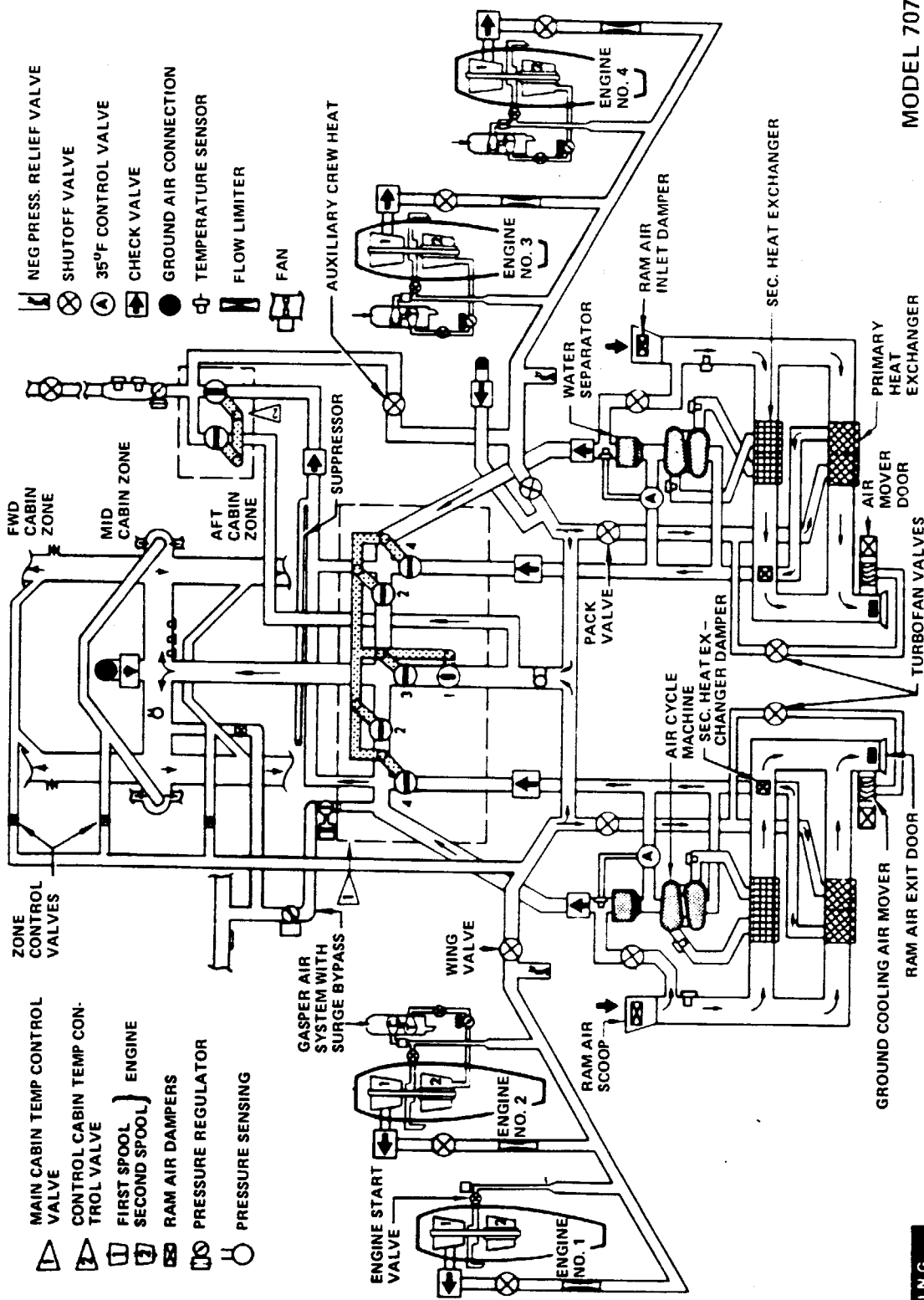
# ELECTRICAL POWER DISTRIBUTION

**WARNING**  
this is uncontrolled data



MODEL 707

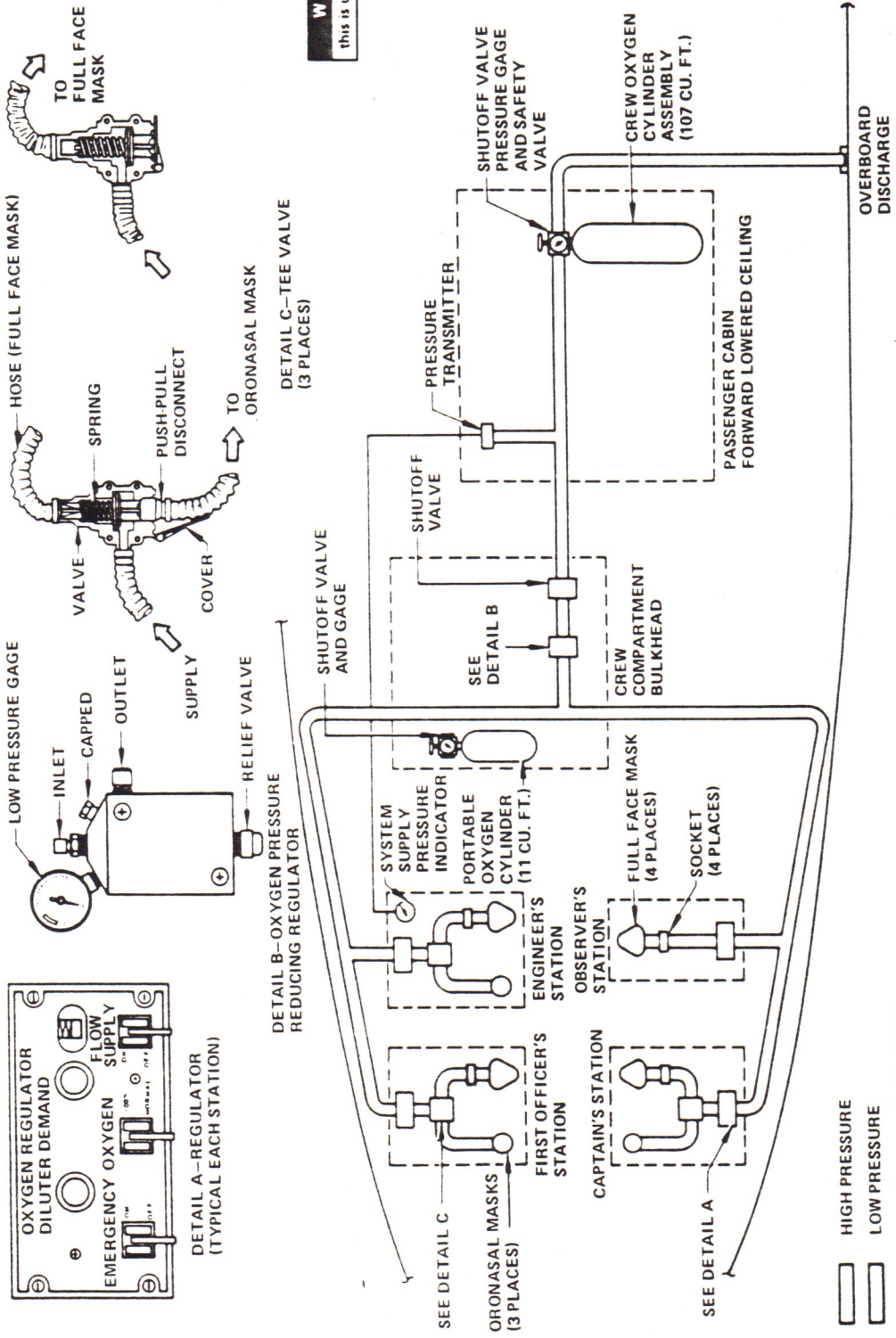
# ELECTRICAL POWER EQUIPMENT LOCATIONS



MODEL 707

# AIR CYCLE AIR CONDITIONING SYSTEM SCHEMATIC

**WARNING**  
this is uncontrolled data



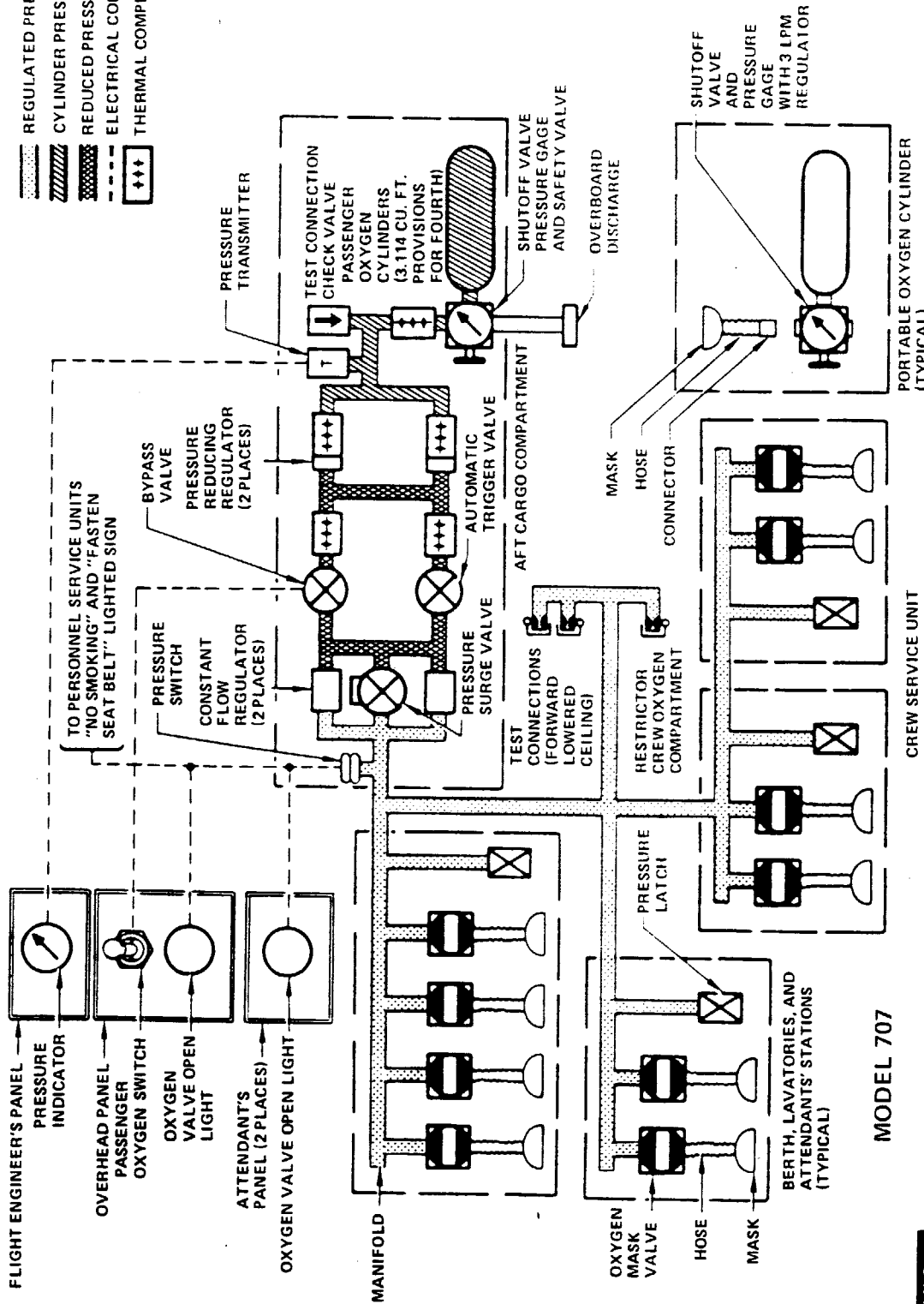
**WARNING**  
this is uncontrolled data

MODEL 707

**FLIGHT CREW OXYGEN SYSTEM**

[Solid Line] HIGH PRESSURE  
 [Dashed Line] LOW PRESSURE  
 [Dotted Line] ELECTRICAL CONNECTIONS

- REGULATED PRESSURE
- CYLINDER PRESSURE
- REDUCED PRESSURE
- ELECTRICAL CONNECTIONS
- THERMAL COMPENSATOR

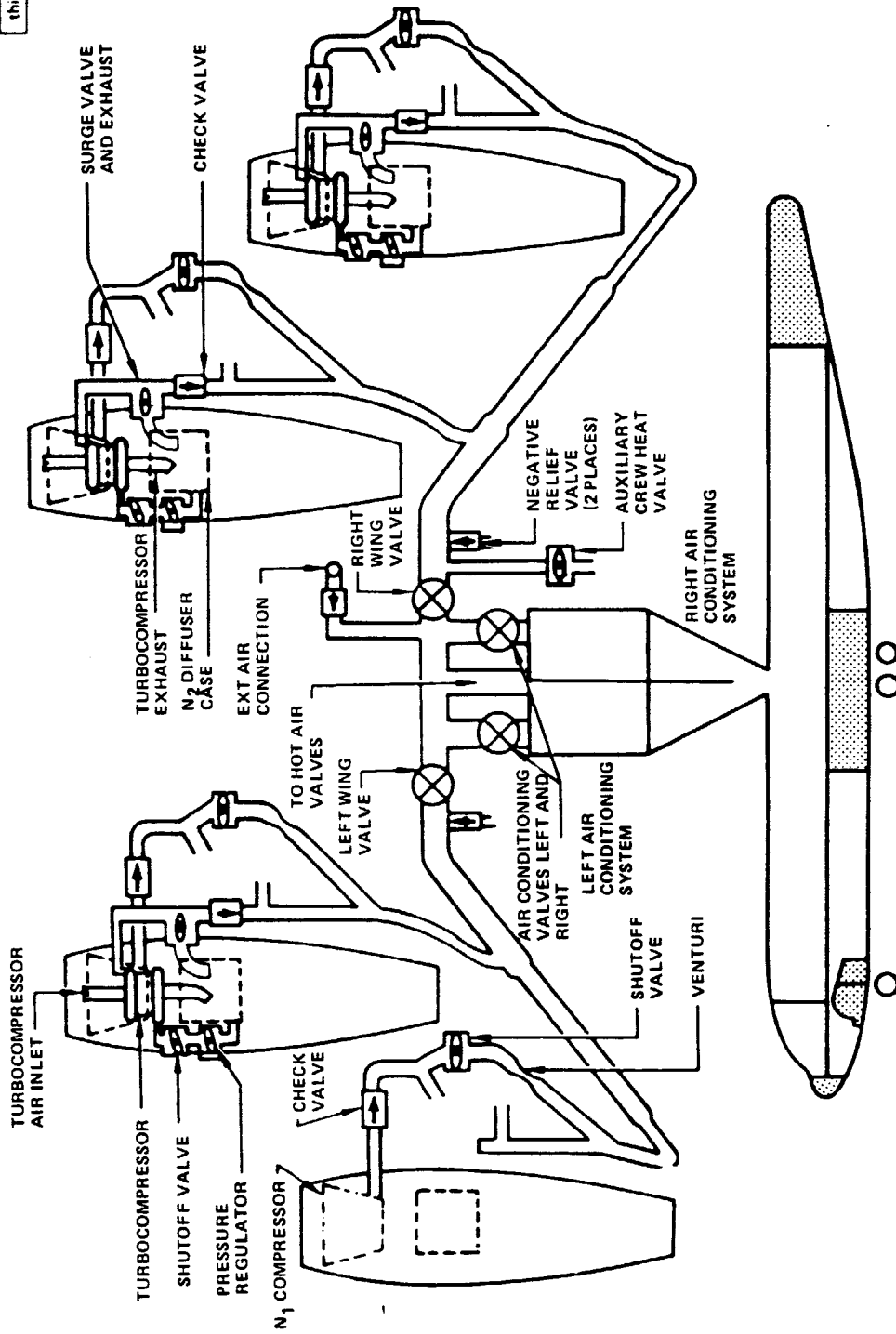


# PASSENGER OXYGEN SYSTEM SCHEMATIC

MODEL 707

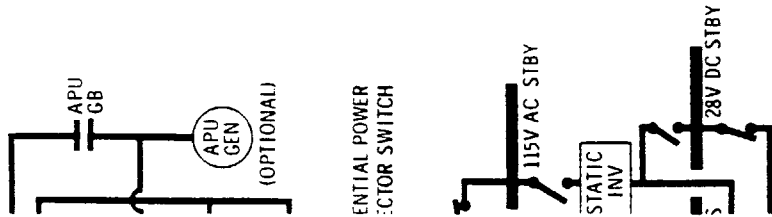
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**WARNING**  
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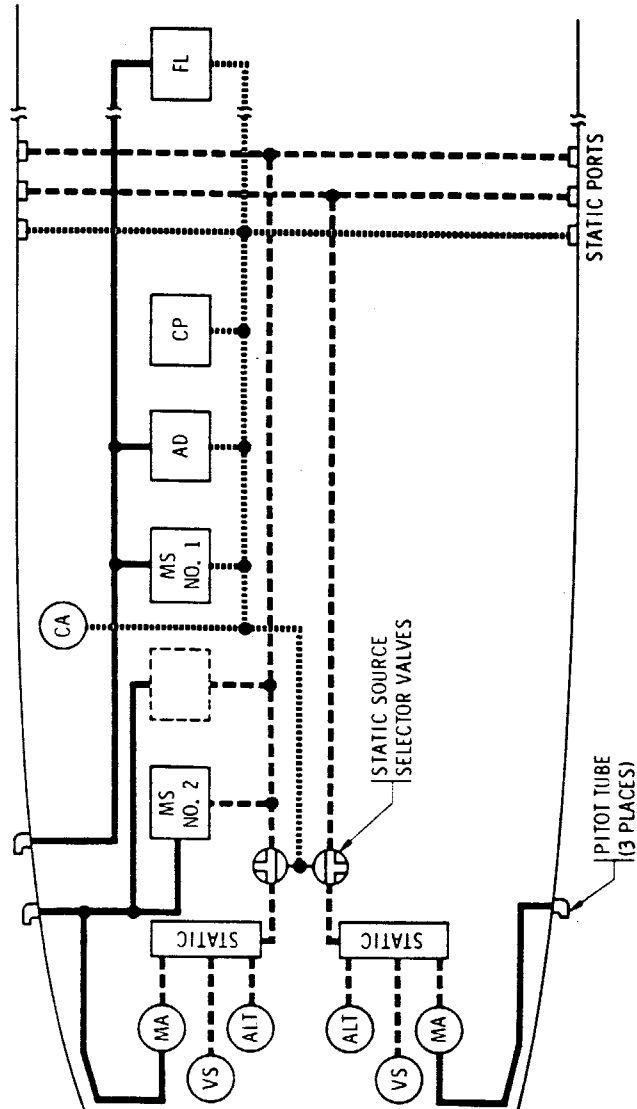


MODEL 707  
**PNEUMATIC DISTRIBUTION**





- (MA) MACH/AIR SPEED INDICATOR
- (VS) INSTANTANEOUS VERTICAL SPEED INDICATOR
- (ALT) ALTIMETER
- (CA) CABIN ALTIMETER AND DIFFERENTIAL PRESSURE INDICATOR
- MS NO. 2 MACH/SPEED WARNING SWITCH NO. 2
- MS NO. 1 MACH/SPEED WARNING SWITCH NO. 1
- AD AIR DATA COMPUTER
- CP CABIN PRESSURE CONTROLLER
- FL FLIGHT RECORDER
- [ ] PROVISIONS FOR SECOND AIR DATA COMPUTER

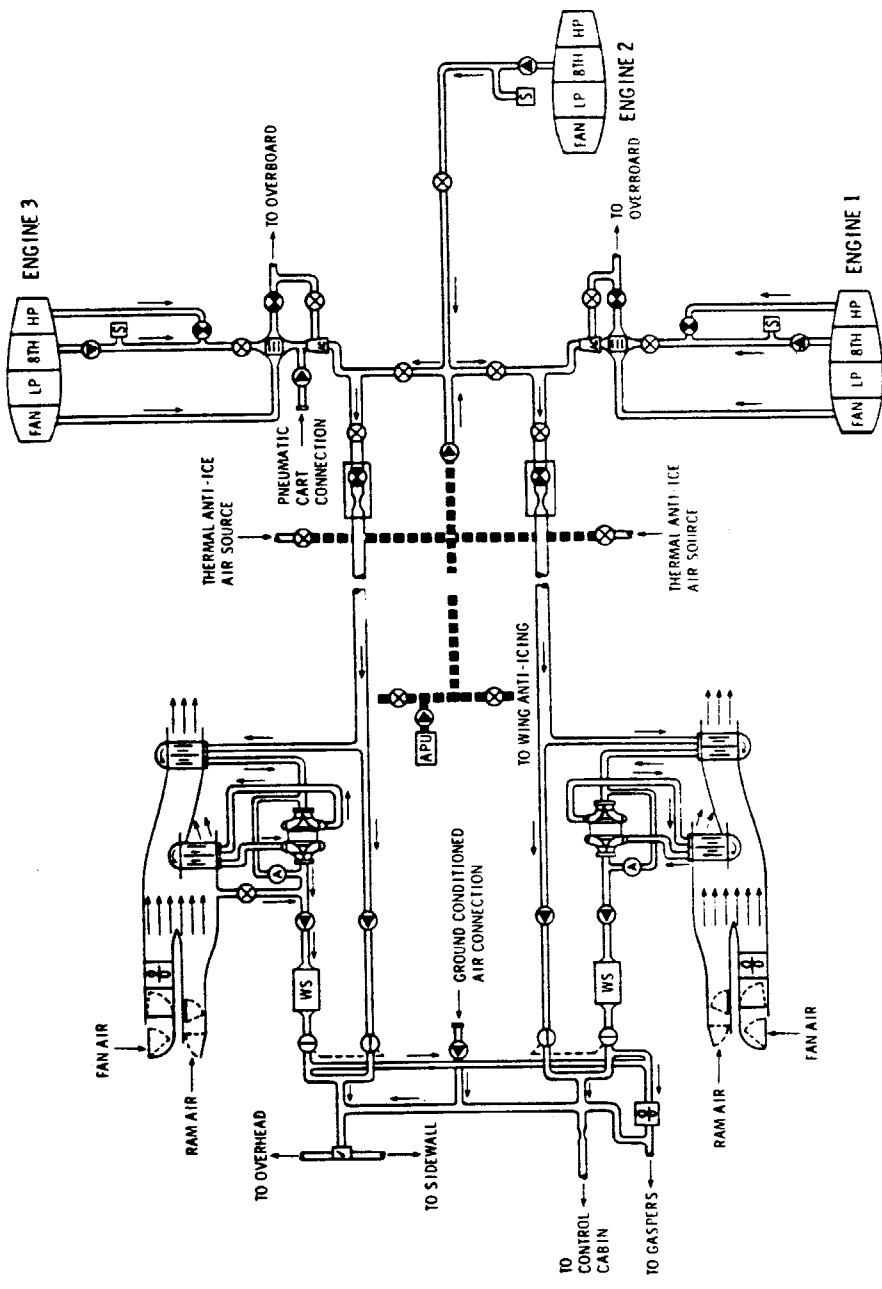


——— PITOT  
 - - - - - STATIC  
 ..... AUXILIARY STATIC

**WARNING**  
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# PITOT-STATIC SYSTEM

**WARNING**  
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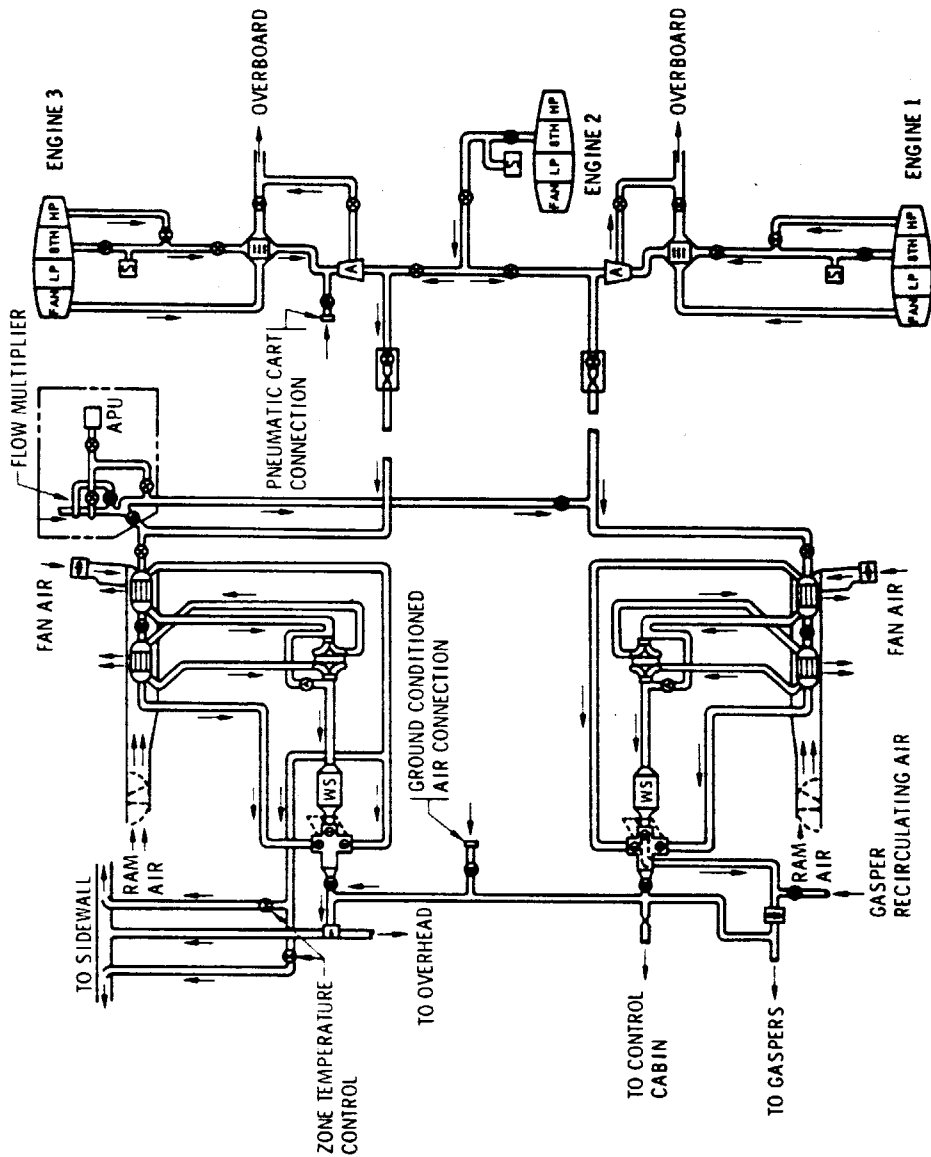


- CHECK VALVE
- SHUTOFF VALVE
- MODULATING V
- ⊞ ENGINE START
- ⊞ PRECOOLER
- ⊞ AIR CLEANER
- ⊞ FLOW CONTROL AND SHUTOFF V
- ⊞ HEAT EXCHANG
- ⊞ AIR CYCLE MA
- ⊞ ANTI-ICING V
- ⊞ WATER SEPARA
- ⊞ MIXING VALVE
- ⊞ SELECTOR VAL
- ⊞ FAN

- ⊞ PRECOOLER
- ⊞ AIR CYCLE MACHINE
- ⊞ HEAT EXCHANGER
- ⊞ APU AUXILIARY POWER UNIT
- ⊞ WATER SEPARATOR
- ⊞ FLOW CONTROL VENTURI
- ⊞ CHECK VALVE
- ⊞ SHUTOFF VALVE
- ⊞ MODULATING VALVE
- ⊞ 35° CONTROL VALVE
- ⊞ MIXING VALVES
- ⊞ AIR CLEANER
- ⊞ ENGINE START SYSTEM
- ⊞ PLUMBING COMMON TO APU AND THERMAL ANTI-ICING AIR SOURCES
- ⊞ FAN
- ⊞ SELECTOR VALVE

WARNING  
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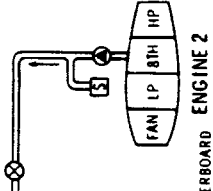
# AIR SYSTEMS 727-100



- CHECK VALVE
- ⊙ SHUTOFF VALVE
- ⊙ MODULATING VALVE
- ⊙ ENGINE START SYSTEM
- ⊙ PRECOOLER
- ⊙ AIR CLEANER
- ⊙ FLOW CONTROL VENTURI AND SHUTOFF VALVE
- ⊙ HEAT EXCHANGER
- ⊙ AIR CYCLE MACHINE
- ⊙ ANTI-ICING VALVE
- ⊙ WATER SEPARATOR
- ⊙ MIXING VALVES
- ⊙ SELECTOR VALVE
- ⊙ FAN

3

OVERBOARD



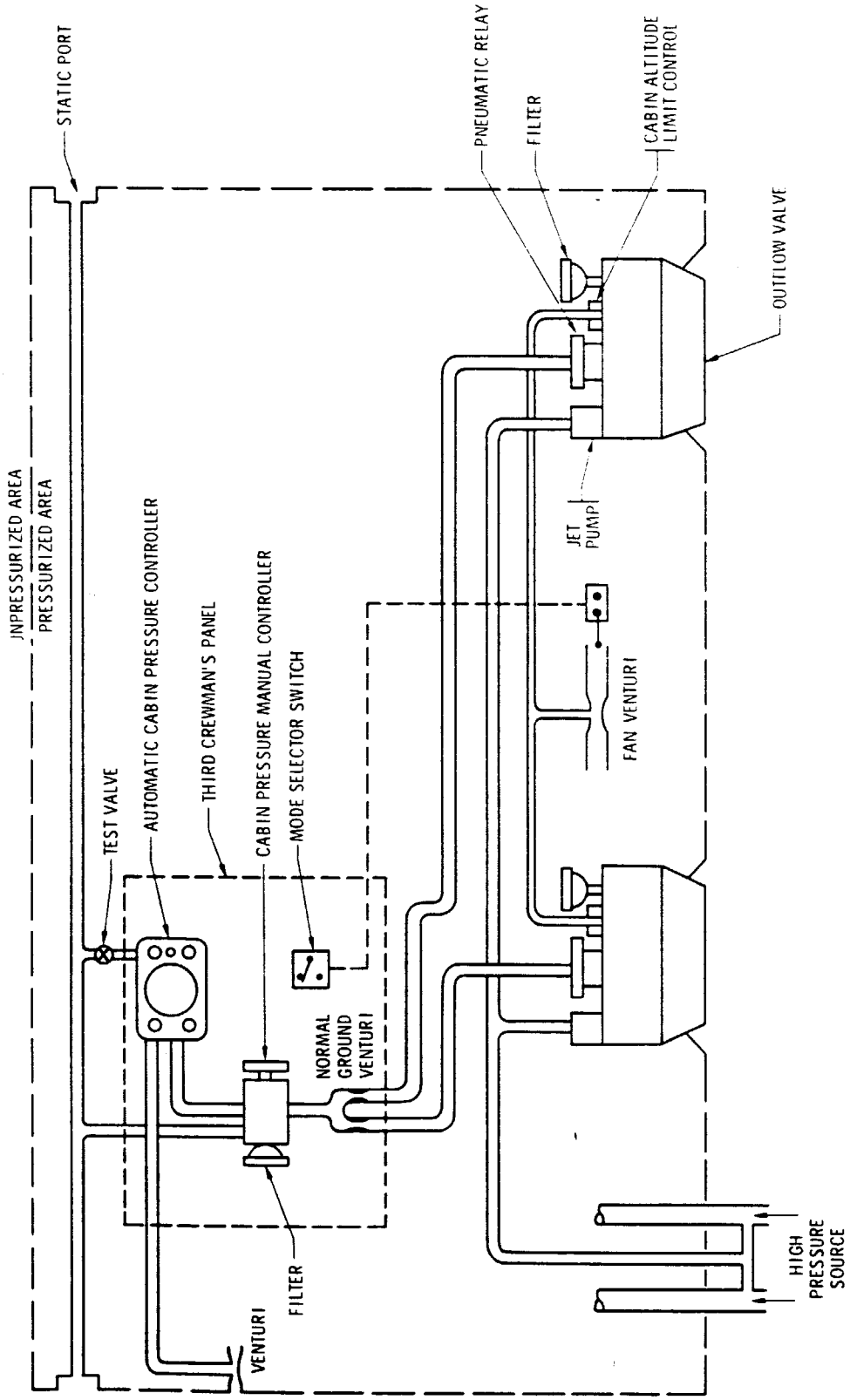
OVERBOARD

1

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# AIR SYSTEMS 727-200

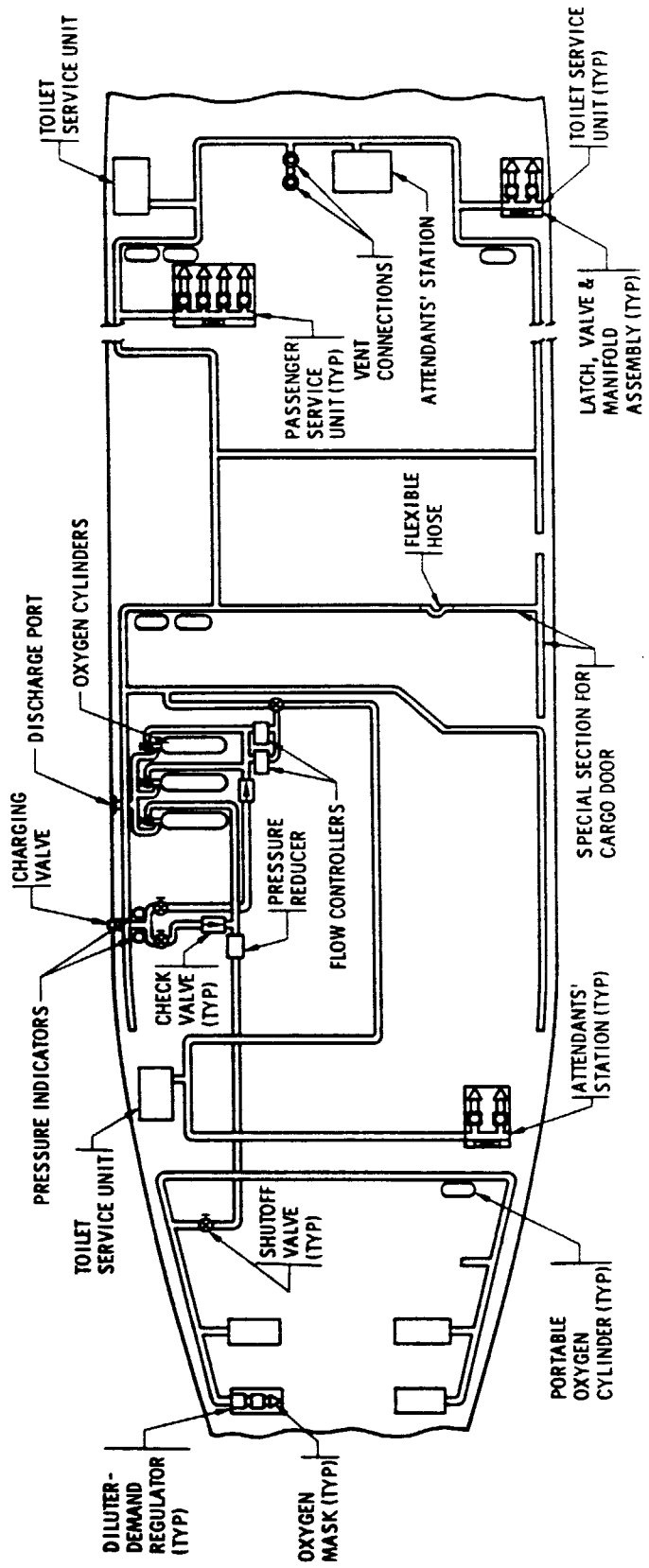
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# PRESSURIZATION SYSTEM 727-100



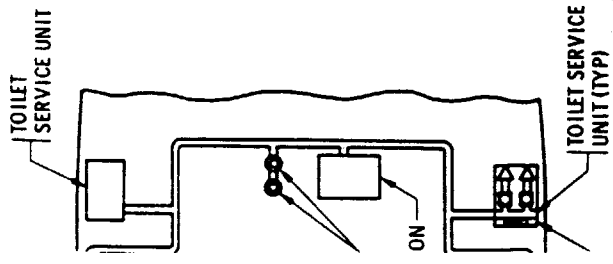
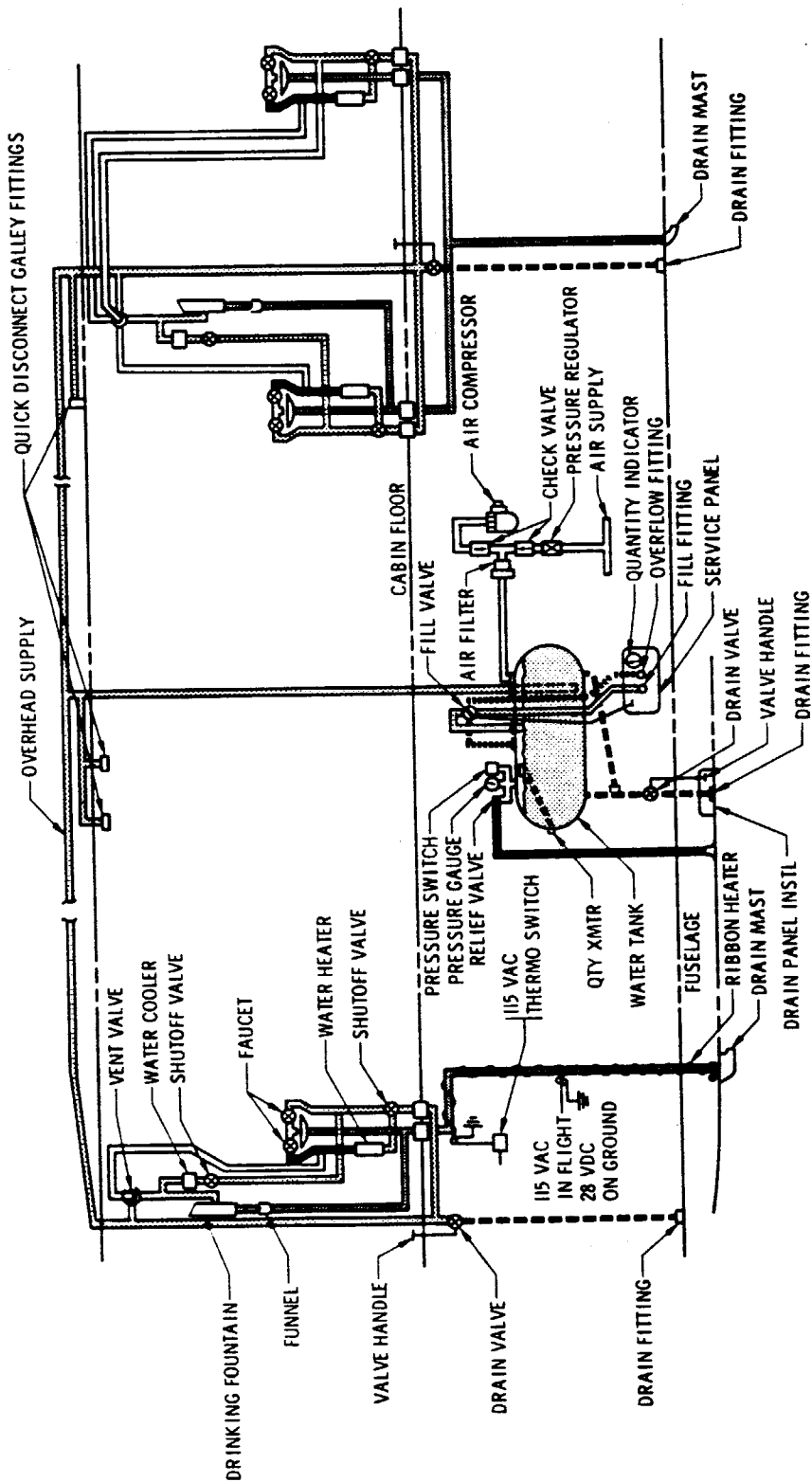


- DRINKING FOUNTAIN
- FUNNEL
- VALVE HANDLE
- DRAIN VALVE
- DRAIN FITTING

**WARNING**  
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# OXYGEN SYSTEM



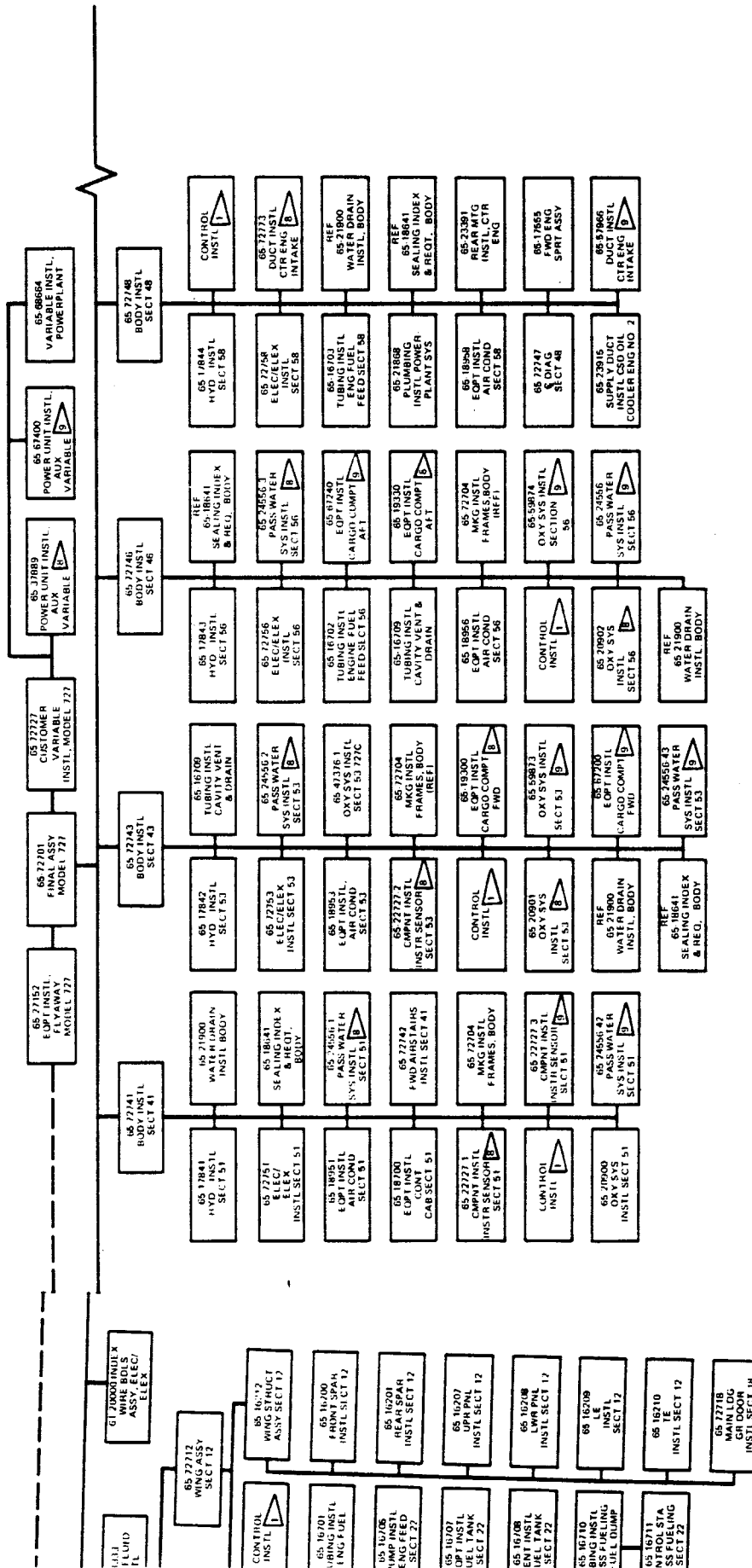


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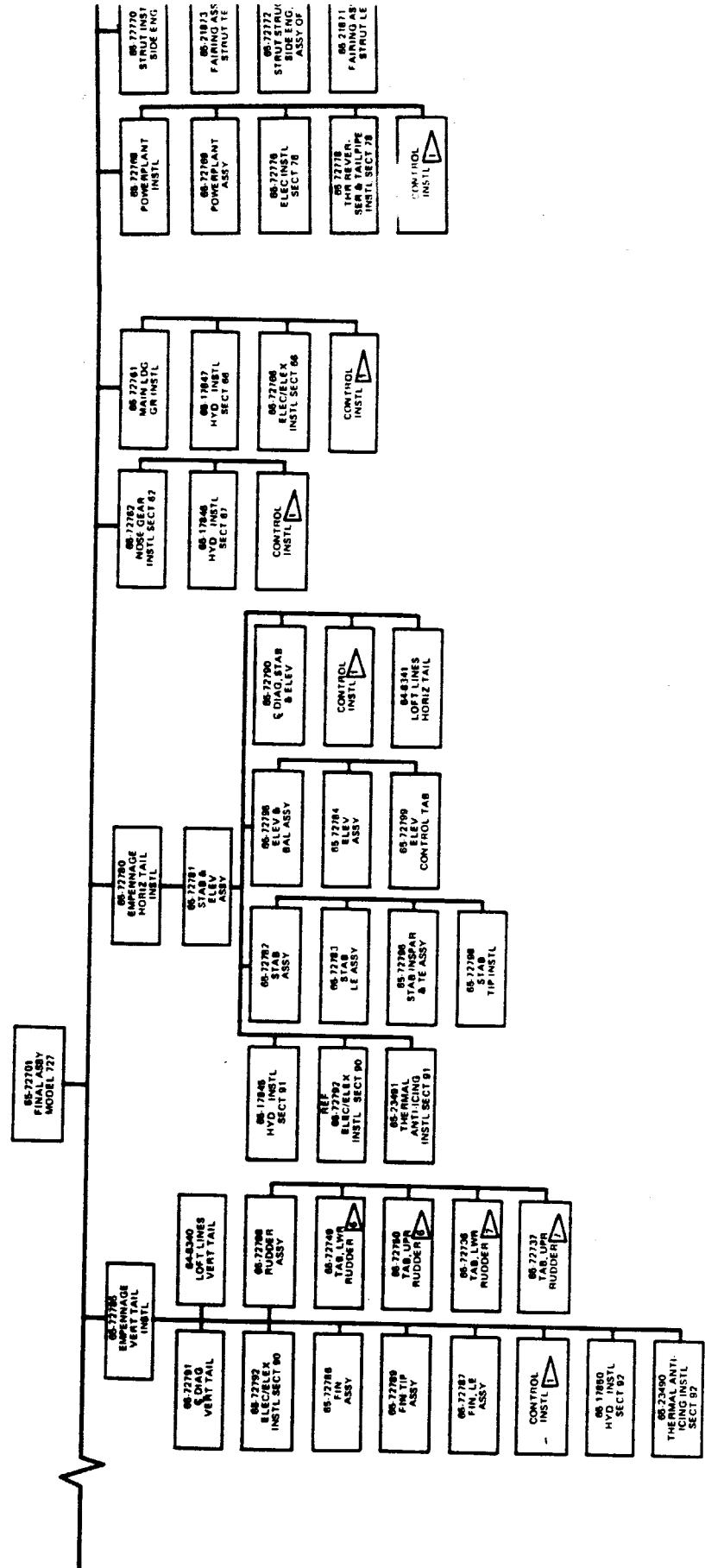
# WATER SYSTEM

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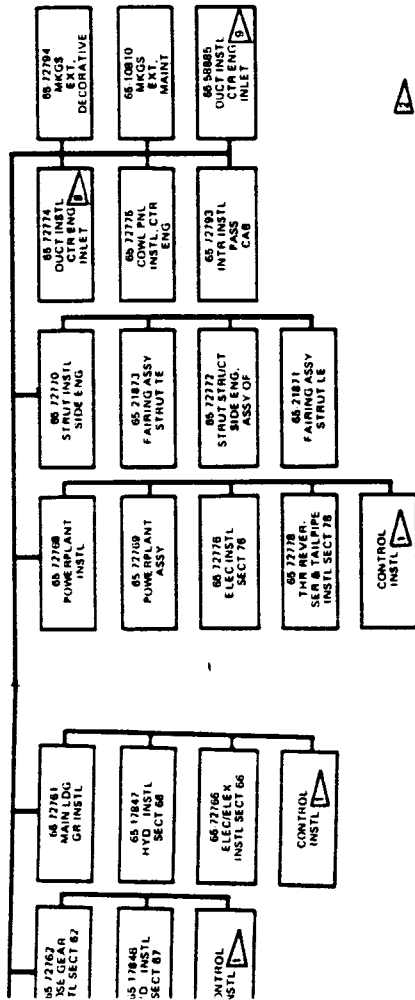




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MAJOR DRAWING NUMBER INDEX 65-72700 (CONT.)



- △ FOR 727.200 SERIES ONLY
- △ FOR 727.100 SERIES ONLY
- △ 064-09995 ONLY
- △ E1 THROUGH 053
- △ CONTROL INSTALLATION DRAWINGS

DWG NO	DWG NO	DRAWING TITLE
65-72700	65-72700	CONTROL INSTL AILERON & SPOILER
65-72701	65-72701	CONTROL INSTL ELEVATOR
65-72702	65-72702	CONTROL INSTL RUDDER
65-72703	65-72703	CONTROL INSTL STABILIZER TRIM
65-72704	65-72704	CONTROL INSTL AILERON TRIM
65-72705	65-72705	CONTROL INSTL RUDDER TRIM
65-72706	65-72706	DRIVE INSTL WING FLAP
65-72707	65-72707	CONTROL INSTL WING FLAP
65-72708	65-72708	CONTROL INSTL THROTTLE & ENGINE START
65-72709	65-72709	CONTROL INSTL LANDING GEAR
65-72710	65-72710	CONTROL INSTL MANUAL LANDING GEAR EXTENSION
65-72711	65-72711	CONTROL INSTL LANDING GEAR BRACES
65-72712	65-72712	CONTROL INSTL AIR DISTRIBUTION SELECTOR VALVE
65-72713	65-72713	CONTROL INSTL RETRACTABLE TAIL BRID
65-72714	65-72714	CONTROL INSTL SPEED BRAKE
65-72715		
65-72716		
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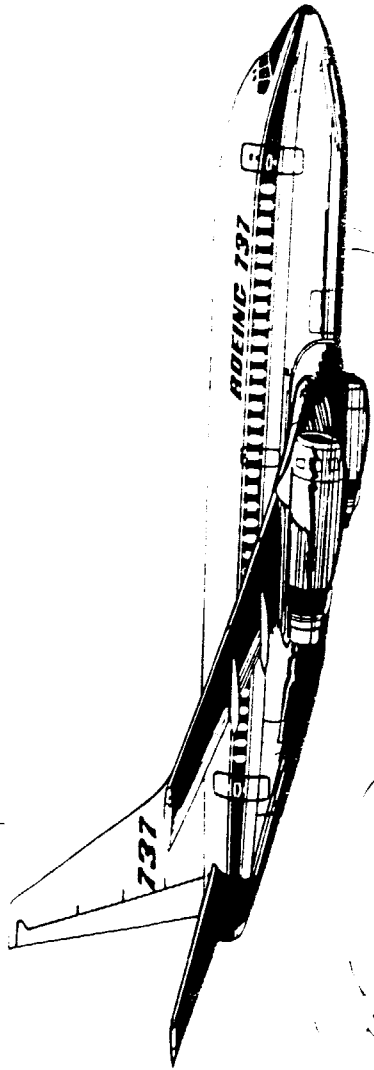
**WARNING**  
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OTHER MANUFACTURING PROCEDURES HANDBOOKS  
USEFUL AS STUDENT TEXTS AND ON-THE-JOB  
REFERENCE

Taper Shank Fastener Handbook	6M54-153	Crash, Fire & Rescue(handbooks or viewfoils)	D6-7829
Fasteners and Codes	6M54-155	Geometric Dimensioning and Tolerancing	ACC 4767
Riveter's Manual	6M54-351	(True Position Dimensioning) 5½" x 3¼"	
Drill and Reamer Feeds and Speeds (Leaflet)	6M59-202	Geometric & Positional Dimensioning &	ACC 3200
Machining Titanium	6M59-553	Tolerancing 8½" x 11"	
Aircraft Tube Assembly Installation	6M60-021	Structural Adhesive Bonding Handbook	6M57-050
Aircraft Cable Fitting Installation	6M60-052	Fundamentals of Non-Structural Fiberglass	6M62-650
Sealing Handbook	6M63-453	Reinforced Plastics	
Identification Guide for Welding and		707-720 Reference Guide	D6-40942
Brazing Filler Metals	6M64-453	747 Reference Guide	D6-60093
Standard Aircraft Parts Guide Book	WD-14431-2	747 Technical Reference Data	D6-13050-13
Torquing	ACC 3180	737 Reference Guide	D6-60094
Electronic & Electrical Guide	ACC 2441	727 Reference Guide	D6-60109
Blueprint Reading Study Guide	ACC 3100	Assembly Mechanic's Manual	6M60-056
Glossary of Aircraft Terms	ACC 4546	High Vibration Area Wire Bundle Installation	6M53-450
Crimp Connector Assembler Manual	ACC 30025	Boeing/Vendor Part Number Cross Ref Index	D6-42448
Engineering Drafting	ACC 3018		



8909



**BOEING 737  
REFERENCE GUIDE**

*Handwritten:* New Members

**BOEING  
737  
REFERENCE GUIDE  
D6-60094  
June, 1971**

**EMPLOYEE AND MANAGEMENT DEVELOPMENT AND TRAINING  
COMMERCIAL AIRPLANE GROUP**

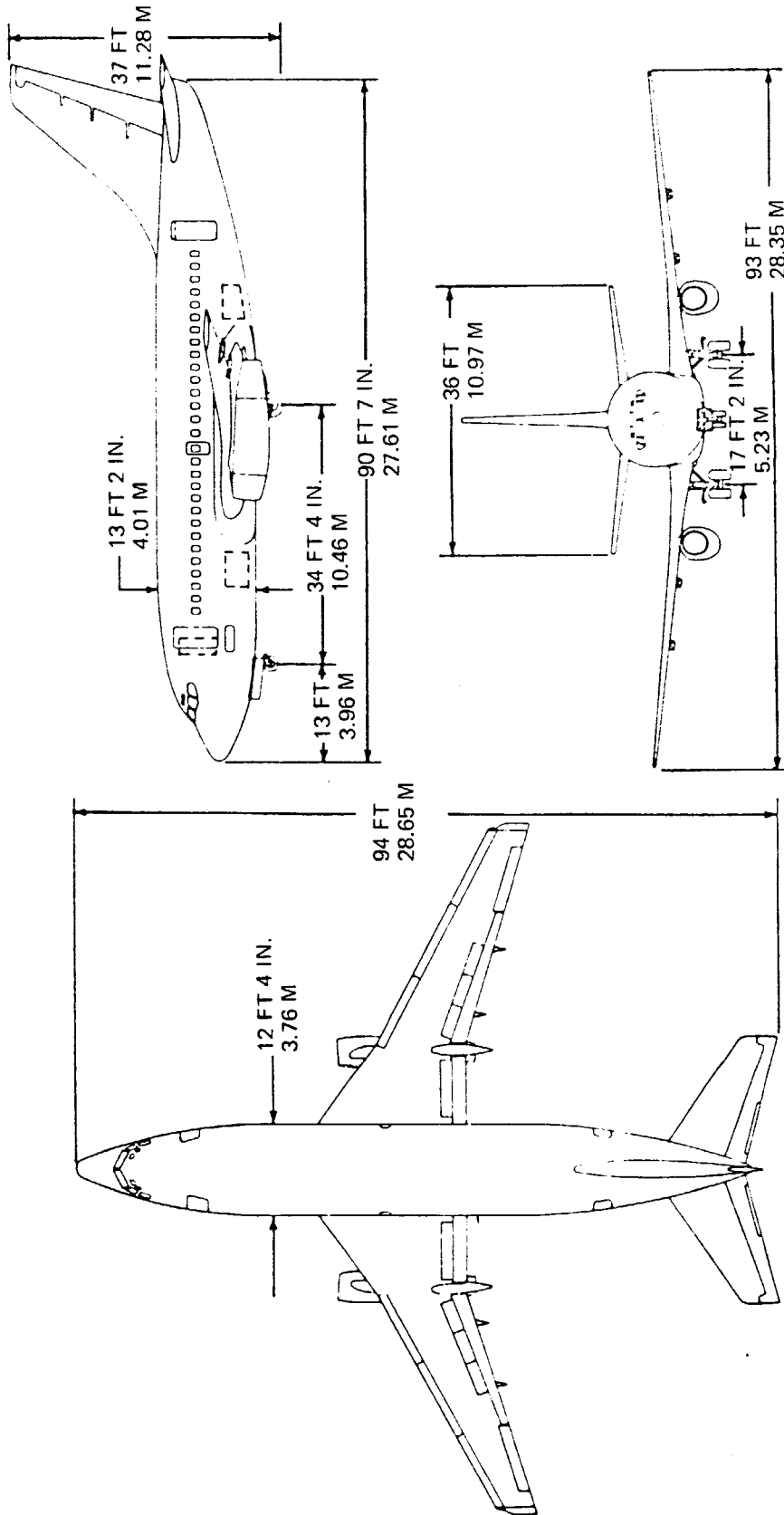
## **PREFACE**

THIS GUIDE HAS BEEN PREPARED AS A SOURCE OF INFORMATION FOR BOEING PERSONNEL. THIS GUIDE IS NOT TO BE USED AS AN AUTHORITY IN THE INSTALLATION OF EQUIPMENT OR SYSTEMS, AND IN NO CASE SHOULD IT BE USED IN LIEU OF CONTROLLED ENGINEERING DOCUMENTS AND DRAWINGS.

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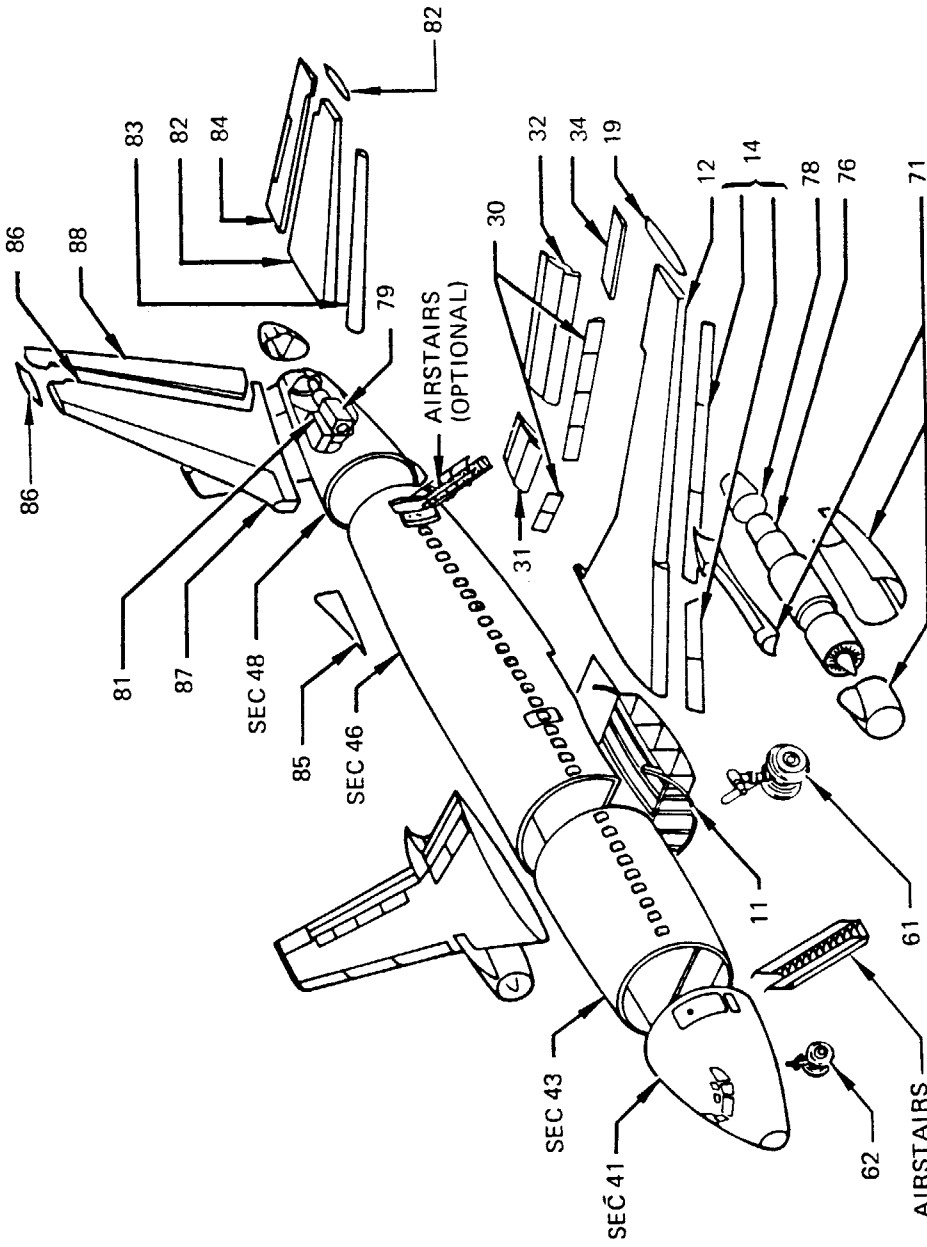
# 737-100 AIRPLANE DIMENSIONS





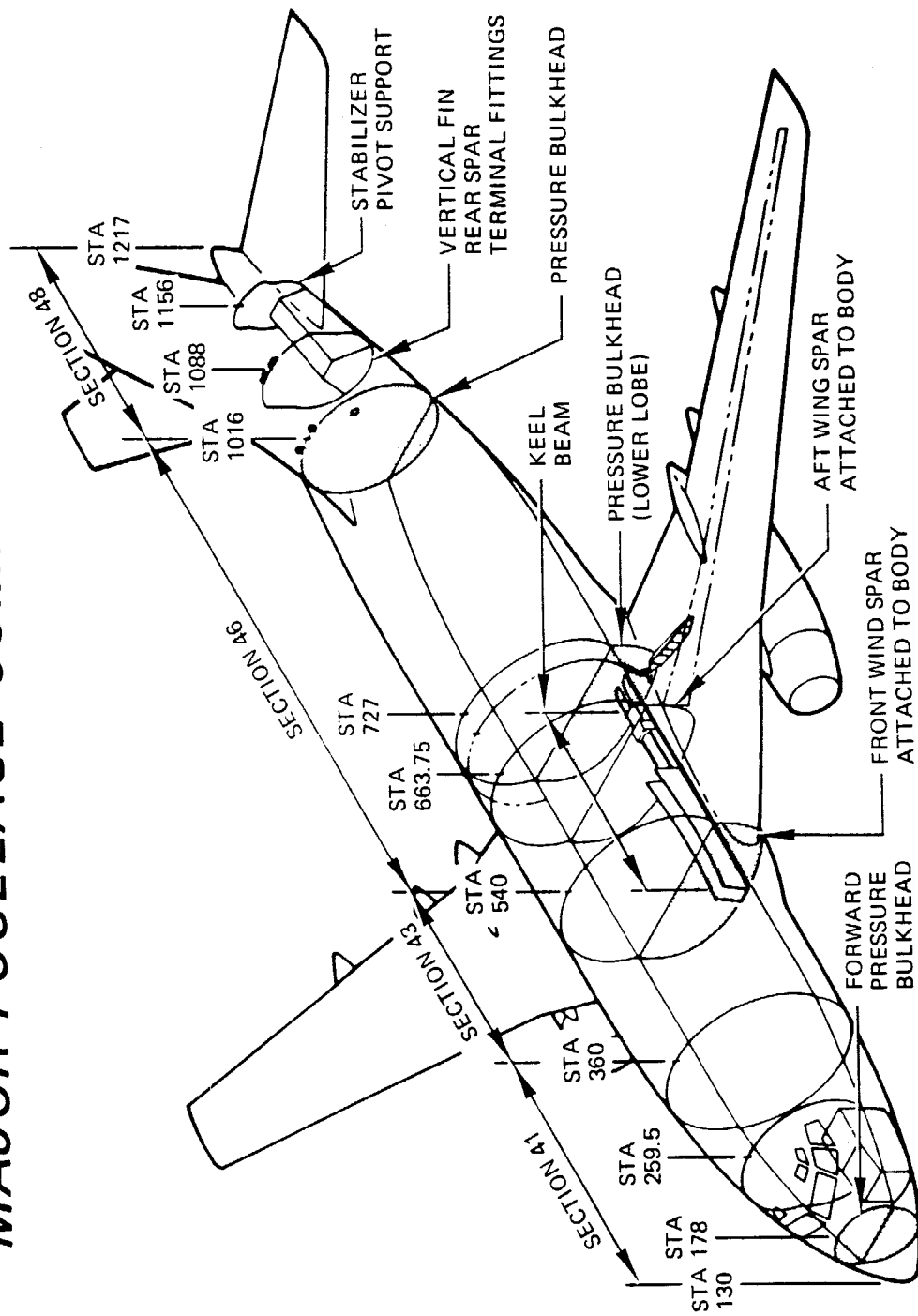


# AIRPLANE SECTION NUMBERS

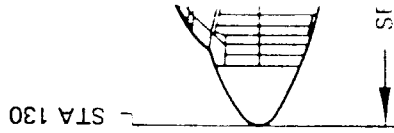
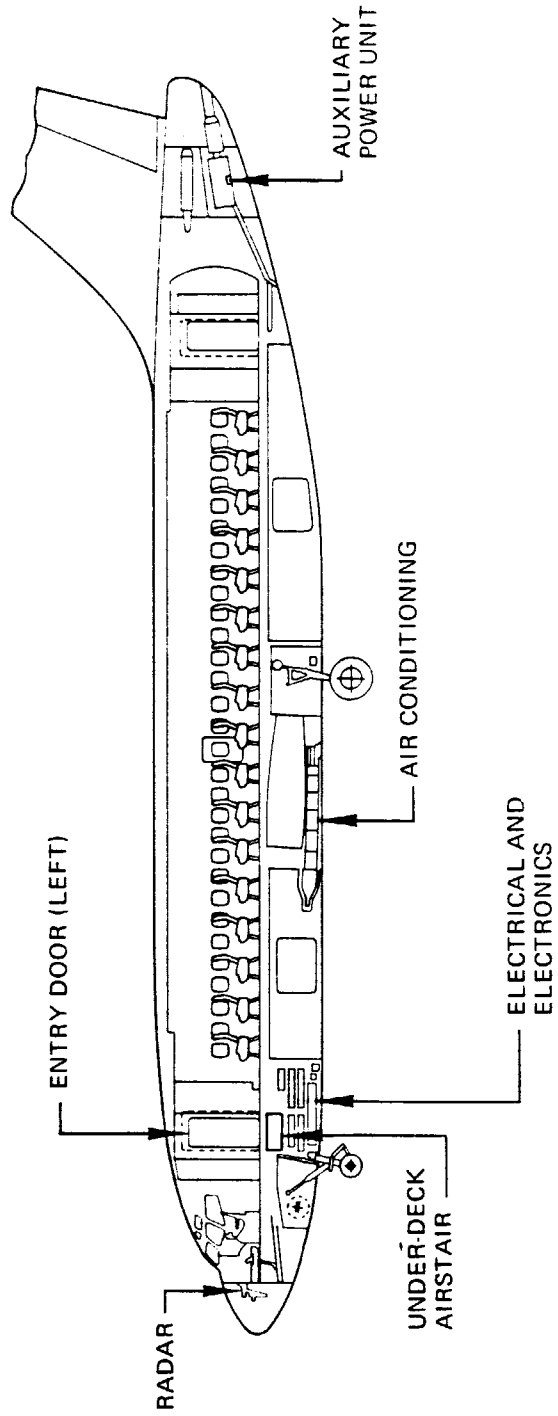


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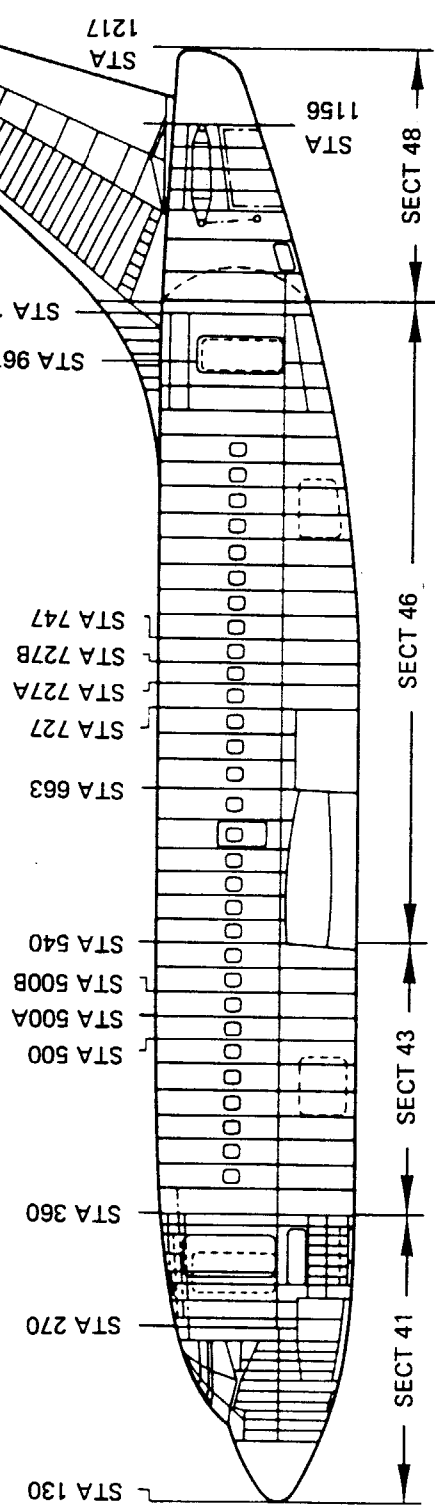
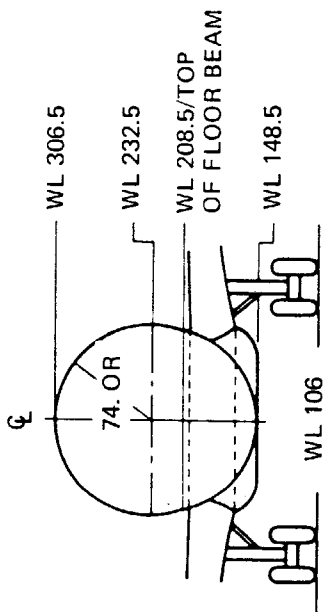
# MAJOR FUSELAGE COMPONENTS



# INBOARD PROFILE

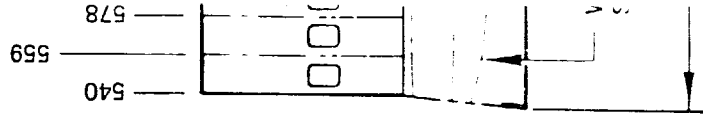
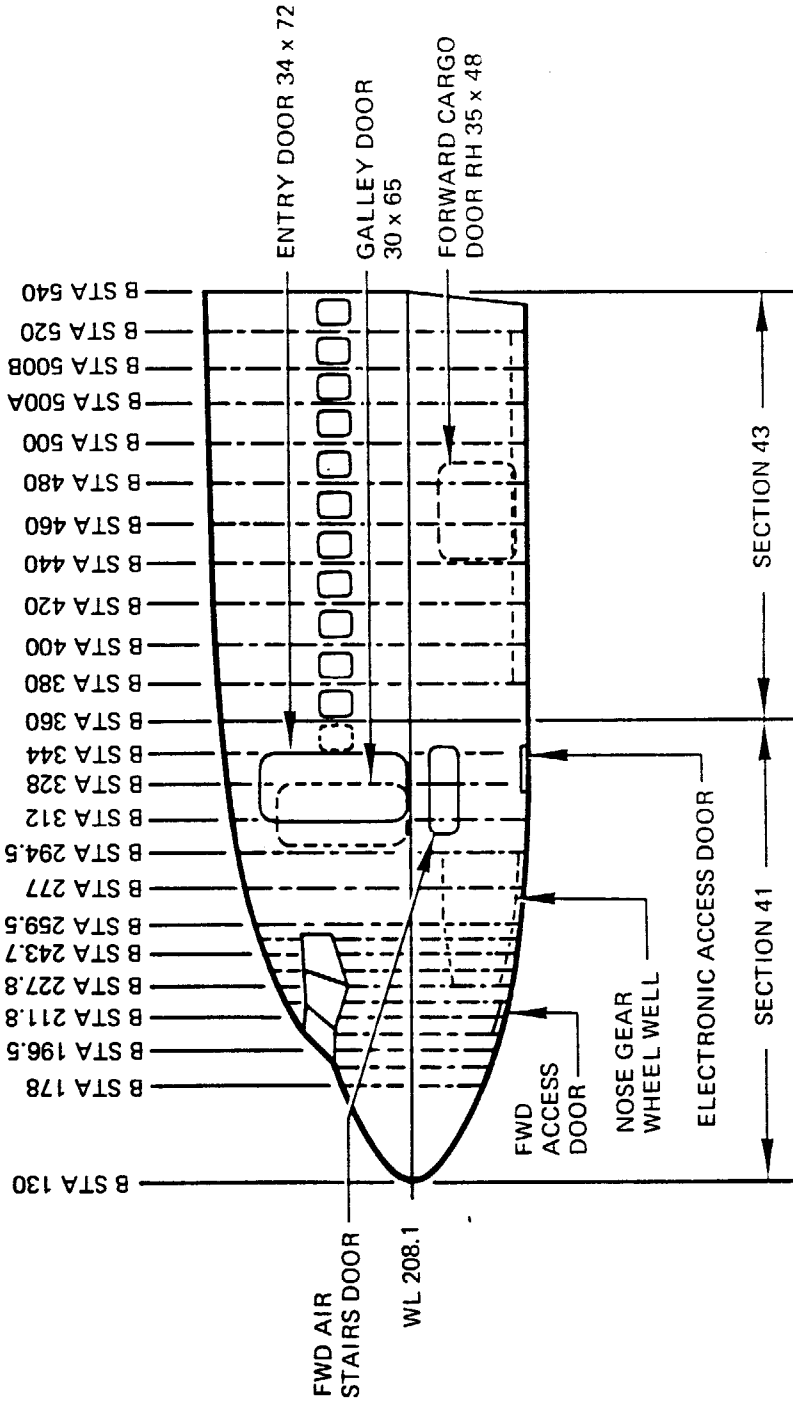


# STRUCTURE CENTERLINE DIAGRAM

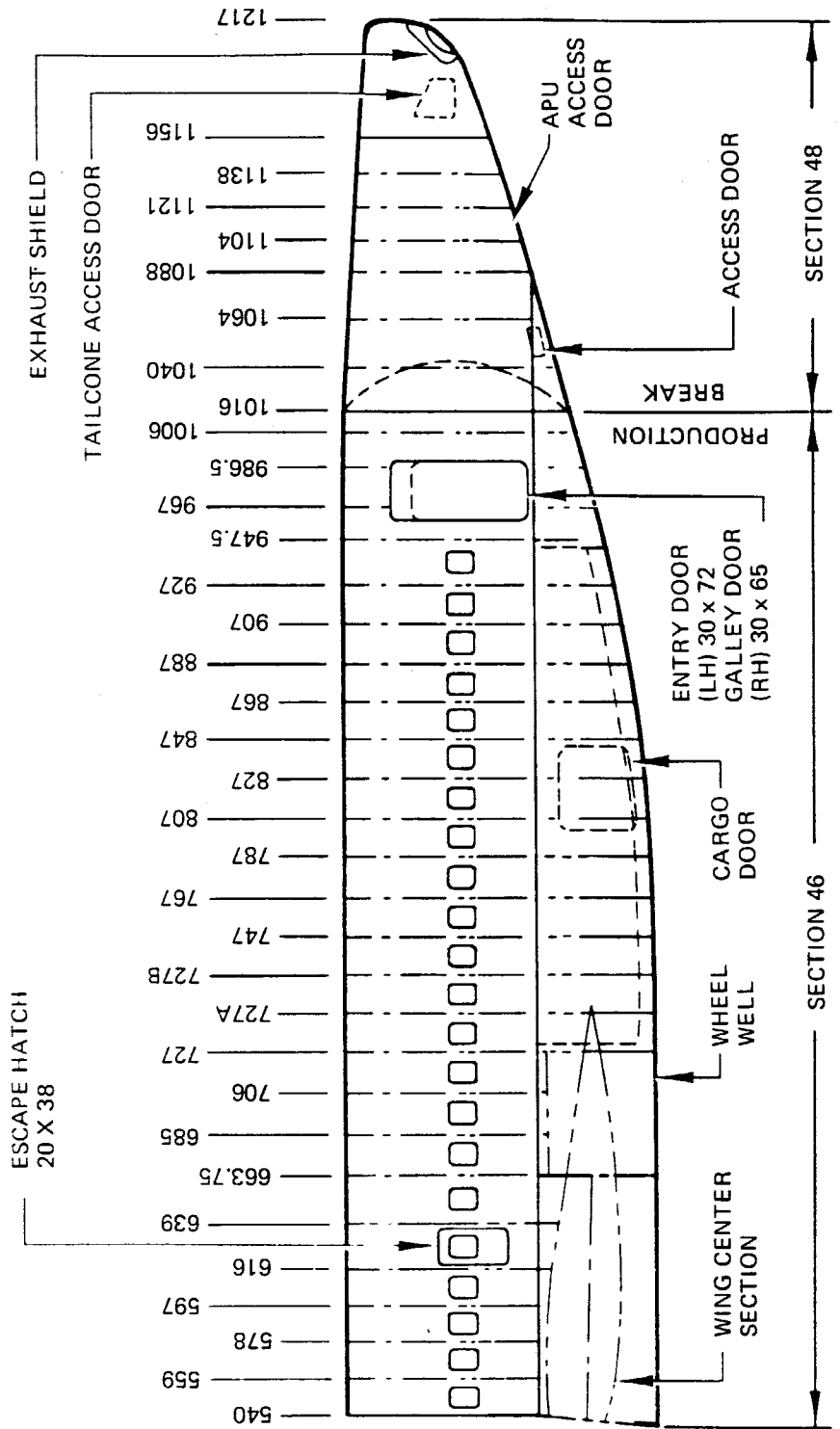


JXILIARY  
OWER UNIT

# FWD BODY STATIONS -200 SERIES



# AFT BODY STATIONS -200 SERIES



DOOR 34 x 72

DOOR

CARGO DOOR 35 x 48

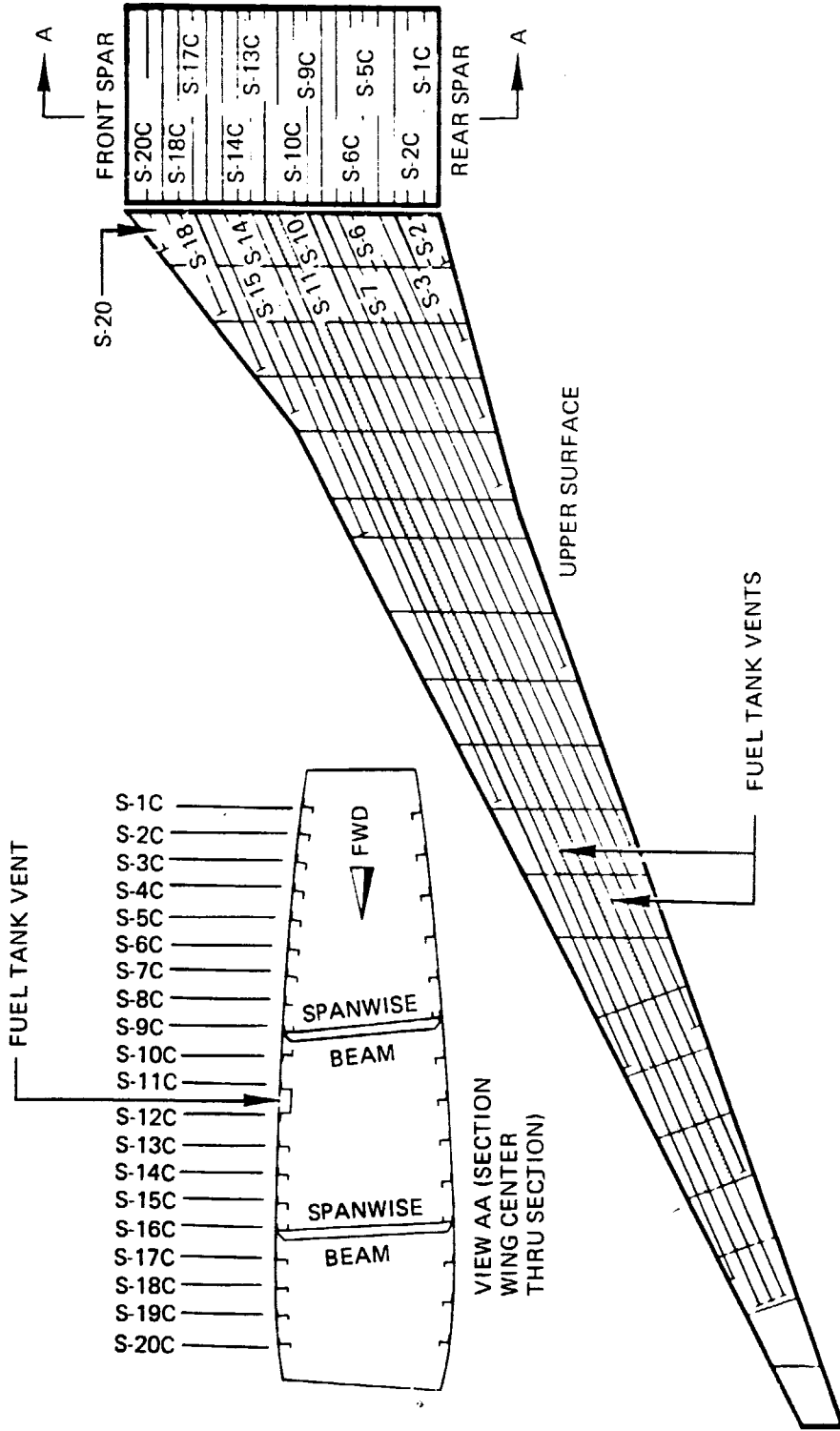






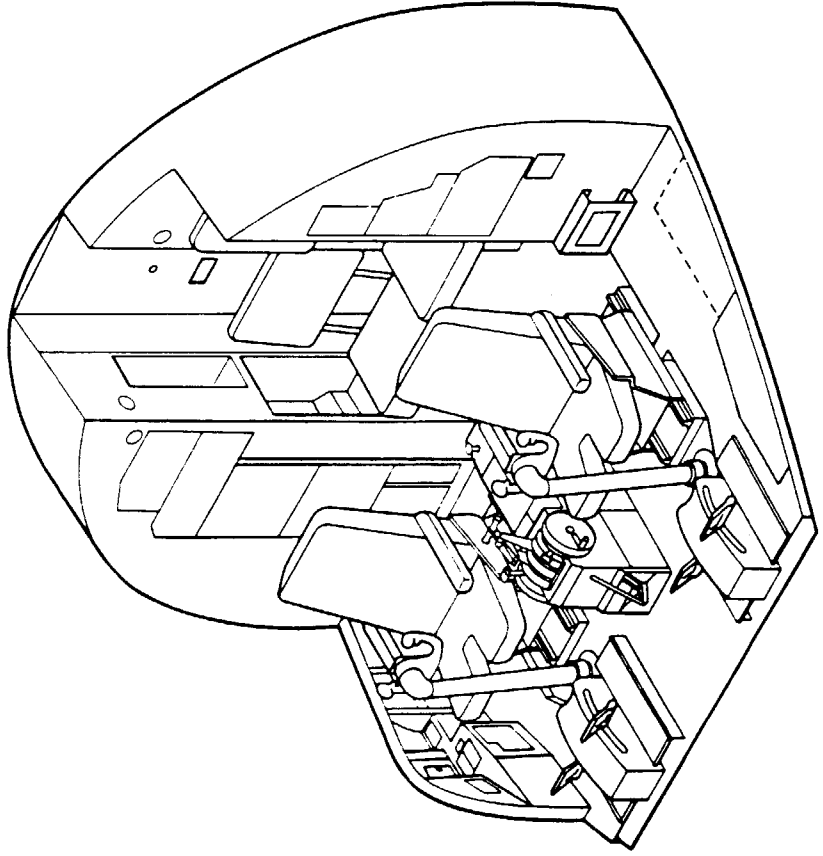
# WING STRINGER DIAGRAM

C



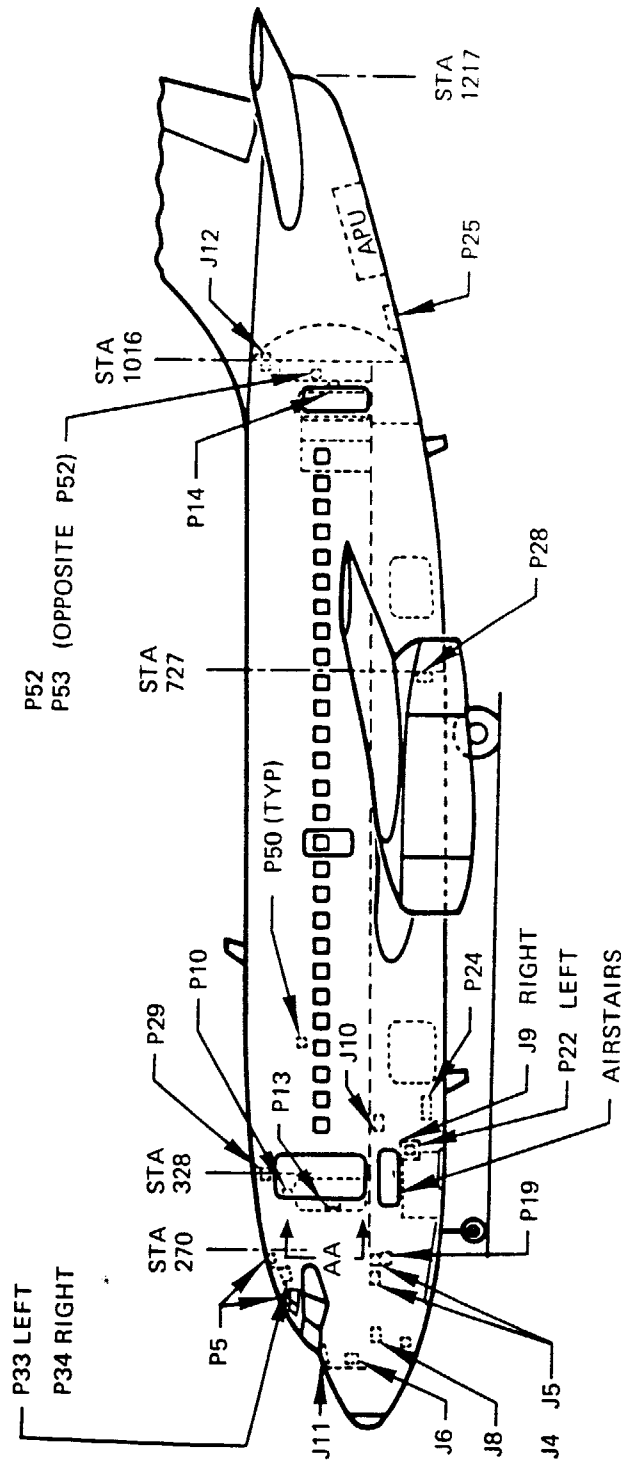
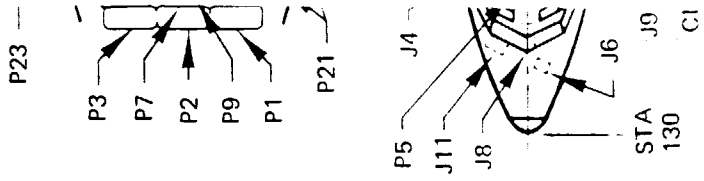
# CONTROL CABIN

FRONT SPAR	A
20C	
18C	S-17C
14C	S-13C
10C	S-9C
6C	S-5C
2C	S-1C
REAR SPAR	A

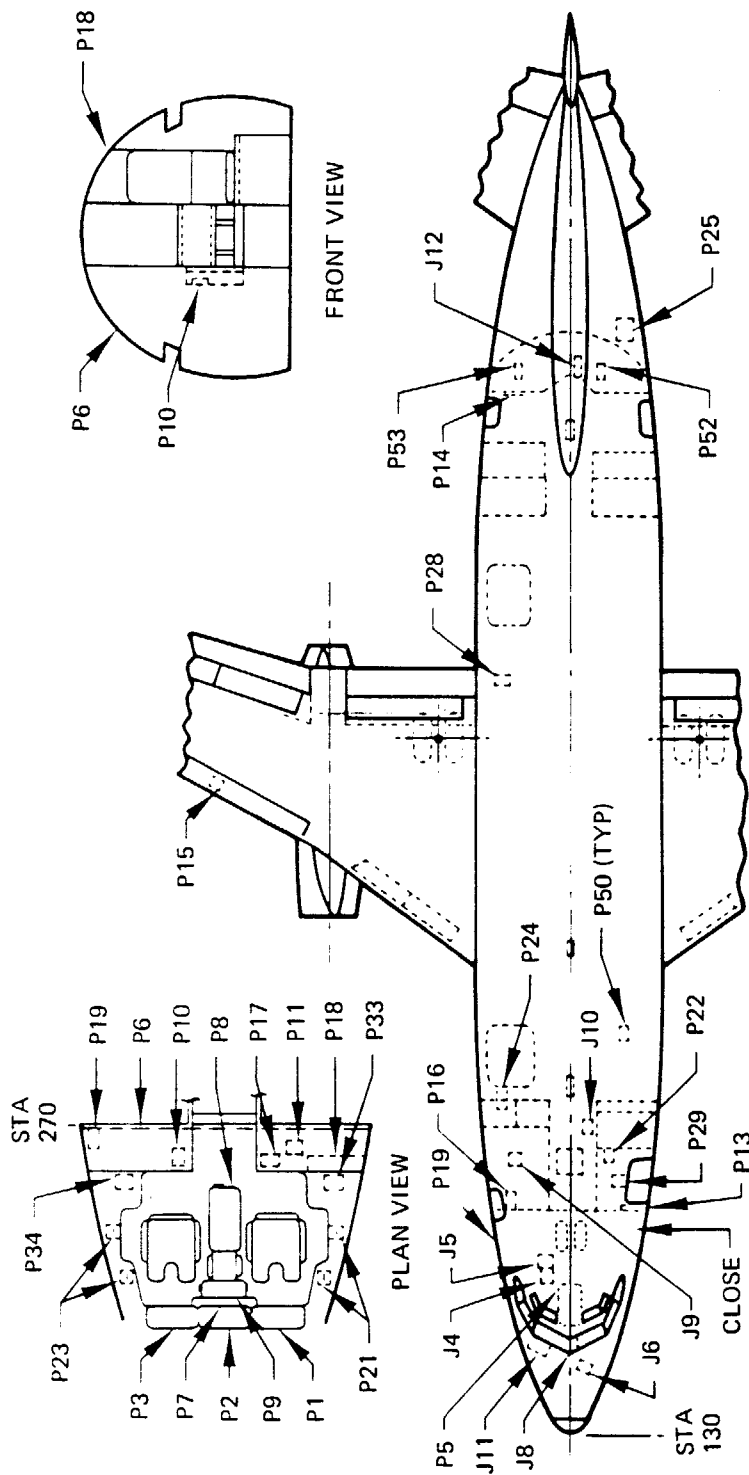


# PANEL AND EQUIPMENT SHIELD LOCATIONS -SIDE VIEW

P.  
L.

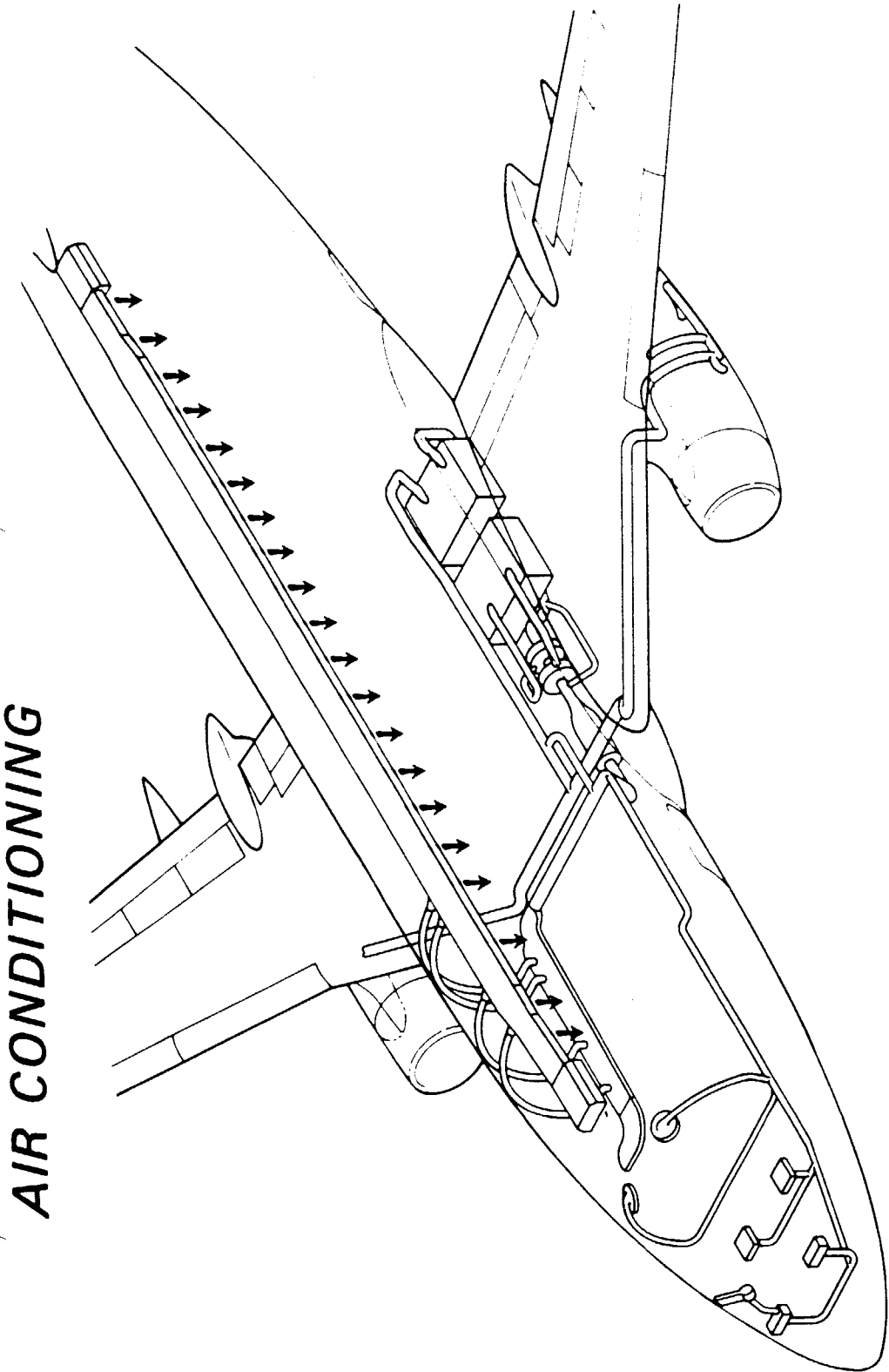


# PANEL AND EQUIPMENT SHIELD LOCATIONS - PLAN VIEW



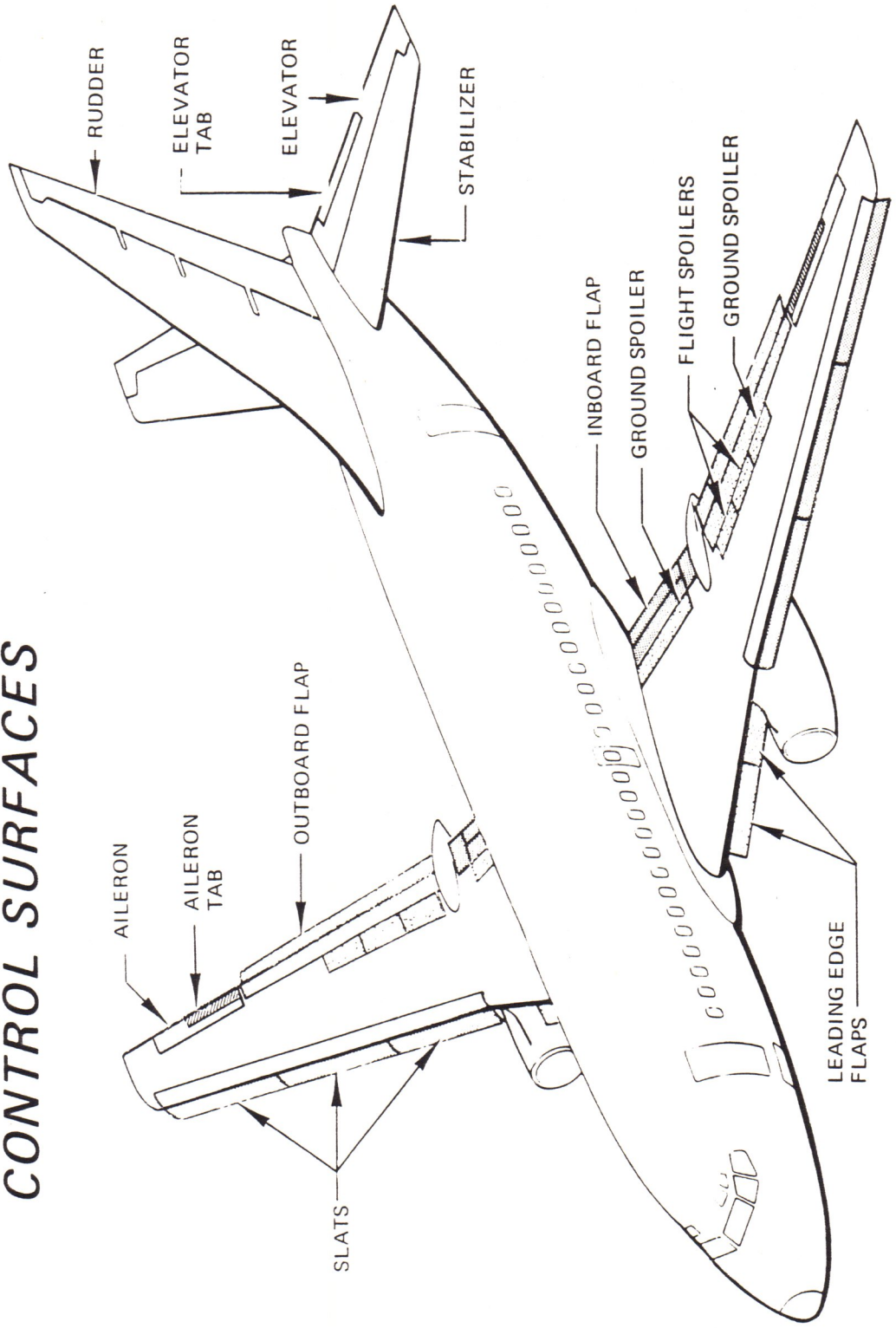
C

SLATS—



AIR CONDITIONING

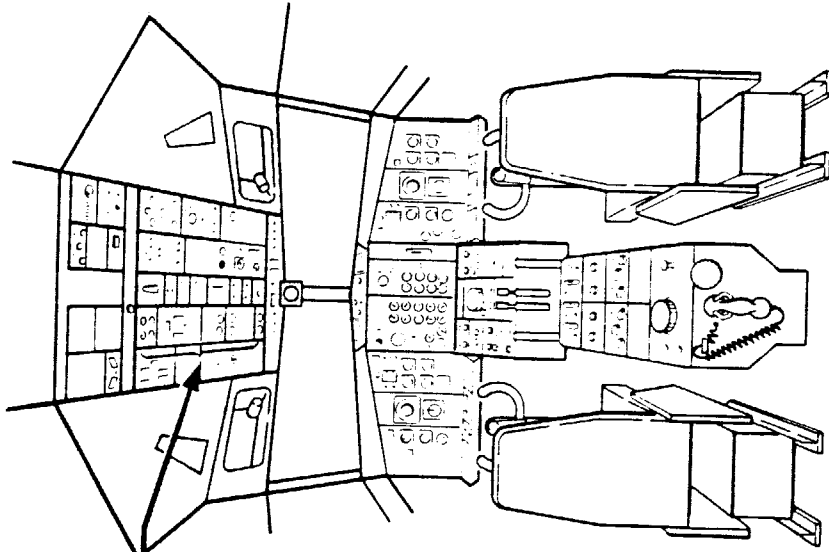
# CONTROL SURFACES



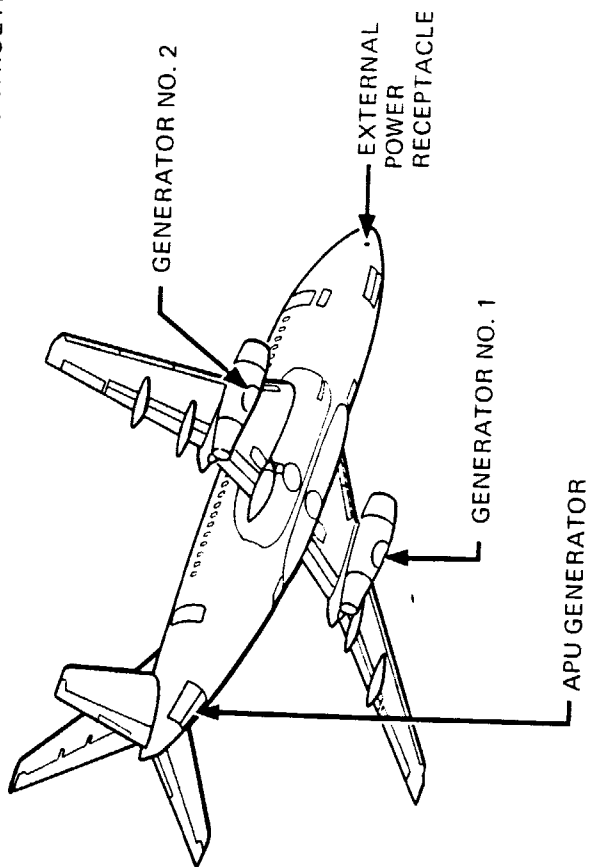


# ELECTRICAL POWER

VE  
TA



ELECTRICAL SYSTEM  
CONTROL PANEL



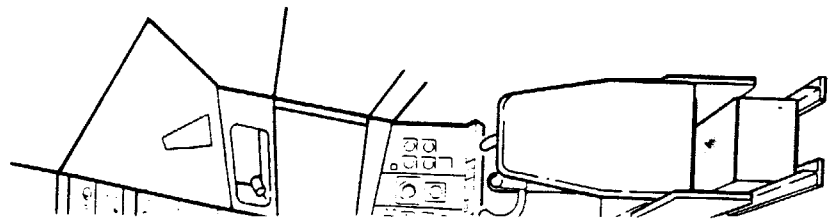
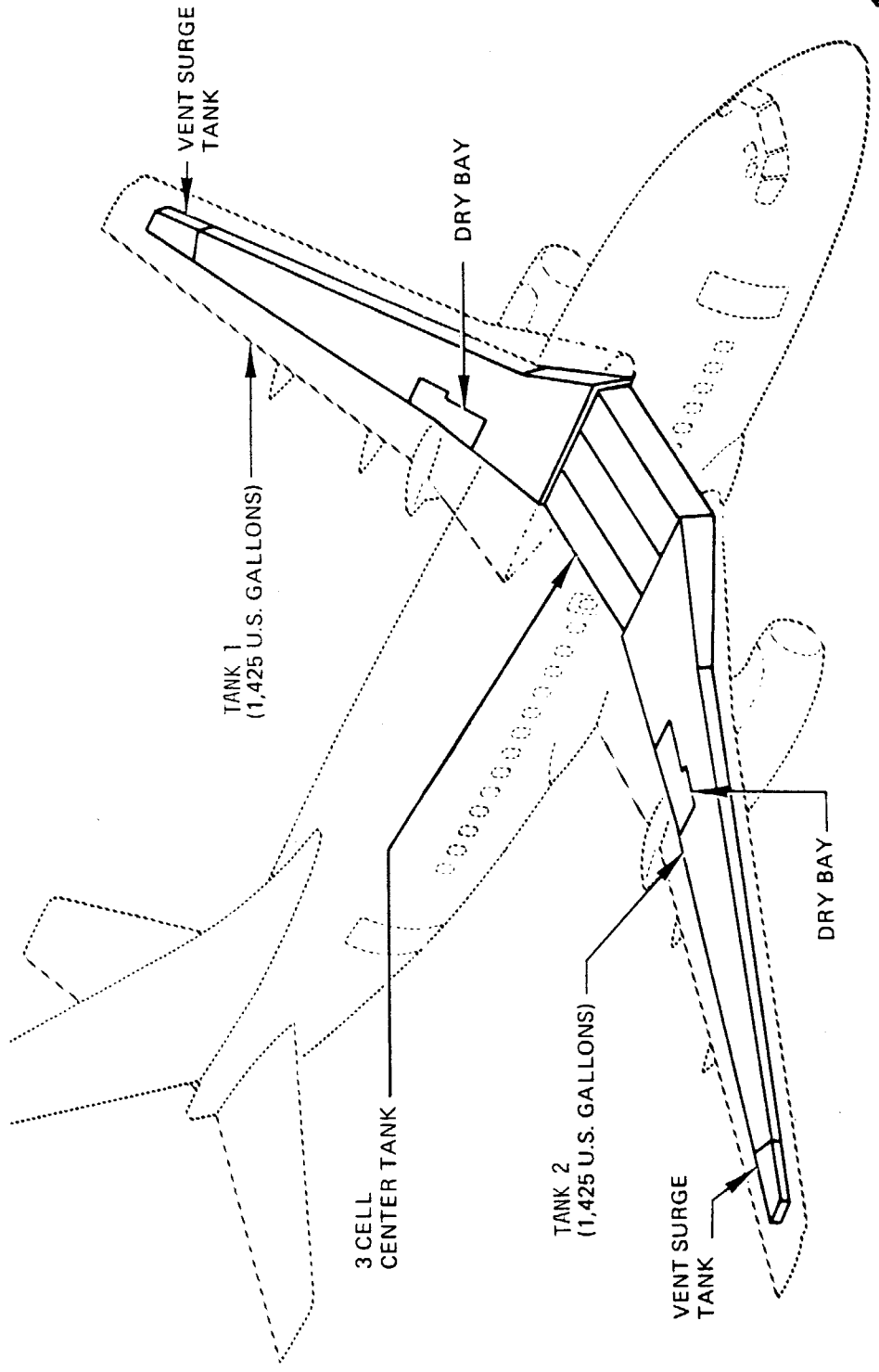
GENERATOR NO. 2

EXTERNAL  
POWER  
RECEPTACLE

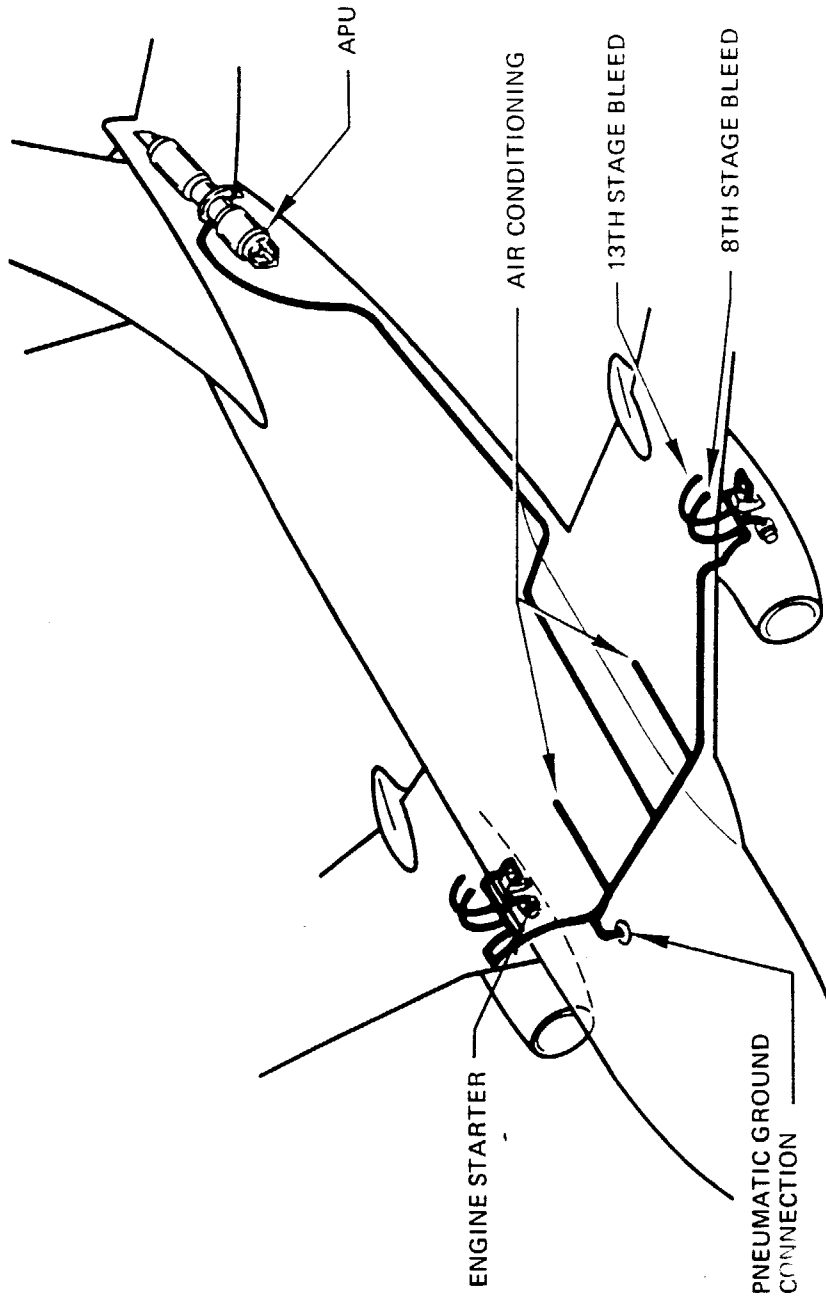
GENERATOR NO. 1

APU GENERATOR

# FUEL TANK ARRANGEMENT



# PNEUMATIC SYSTEMS



NOTES

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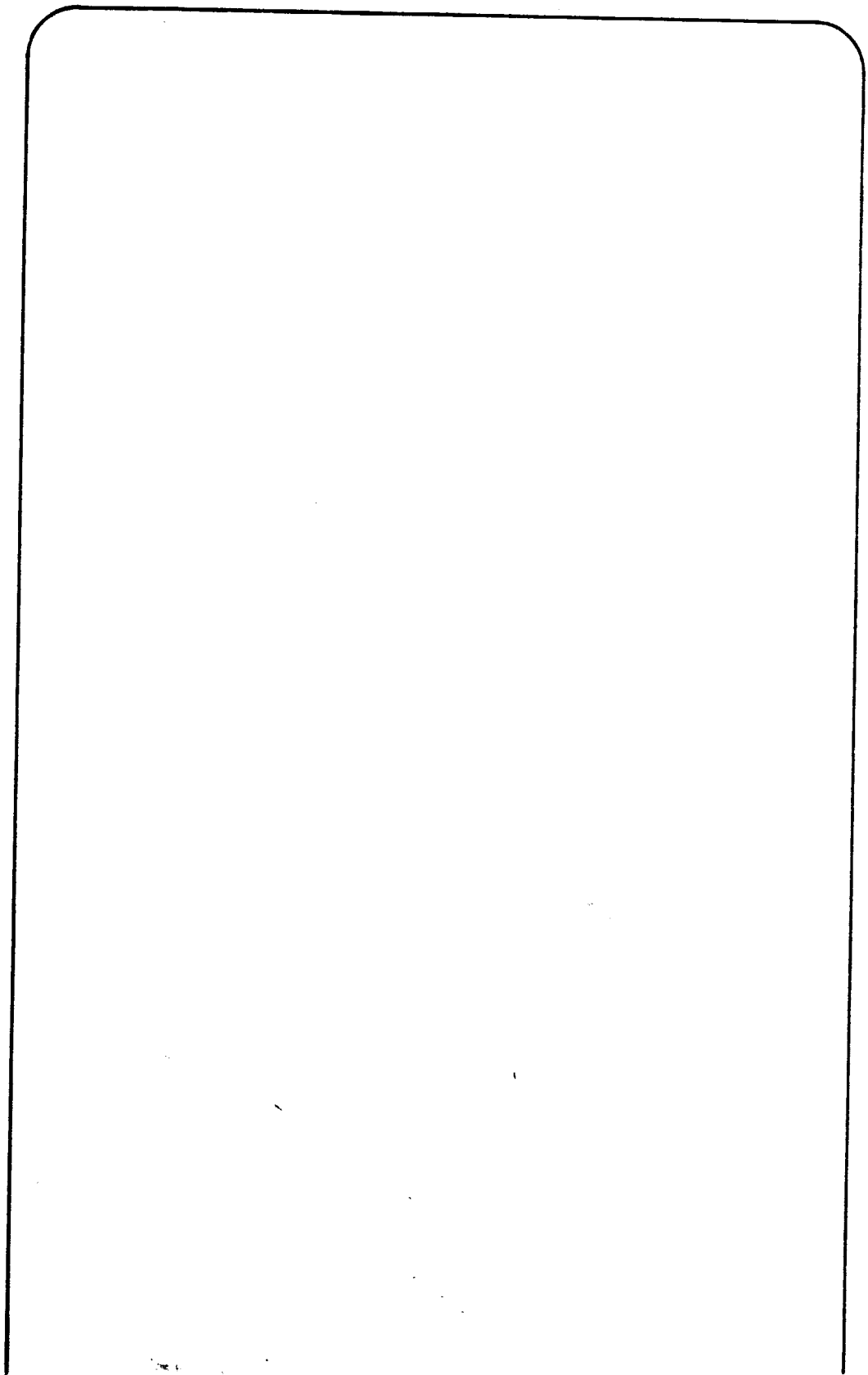
-

- APU

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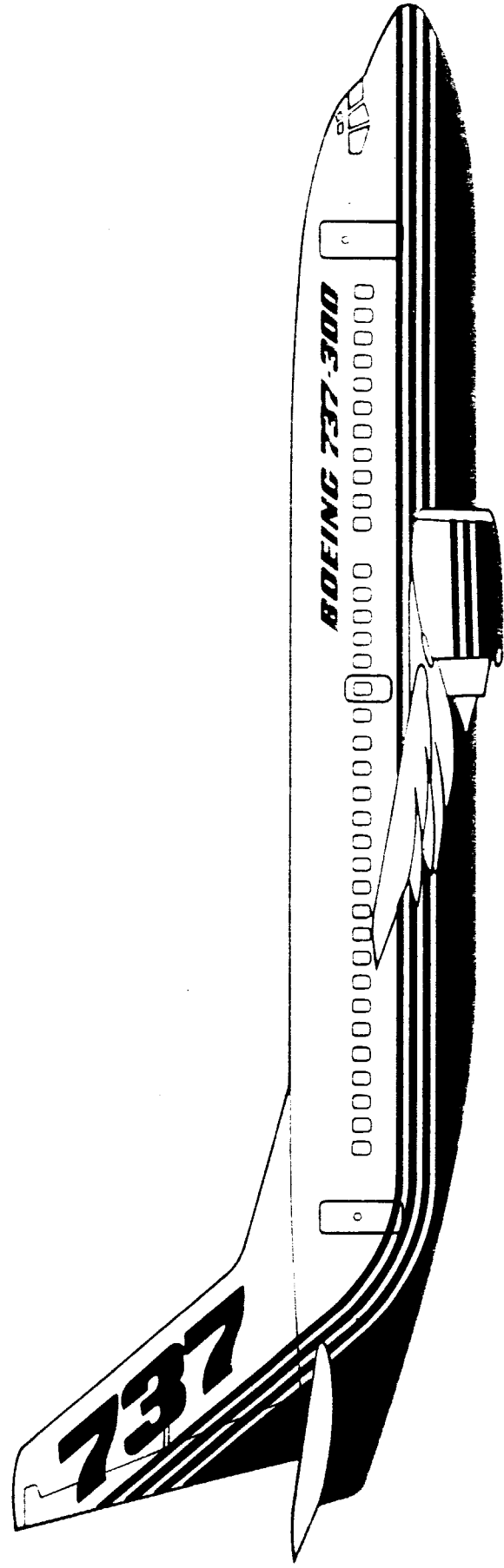
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737

-300/-400/-500



# Reference Guide

Bob Hodges

**BOEING**  
**737**  
**-300 -400 -500**

**REFERENCE GUIDE**

D6-38561

**FEBRUARY 1990**



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**OUR THANKS TO THE MANY BOEING MECHANICS, ELECTRICIANS, INSPECTORS, AND THEIR SUPERVISION FOR CONTRIBUTING SUGGESTIONS AND INFORMATION REGARDING THE CONTENT AND STRUCTURE OF THIS DOCUMENT.**

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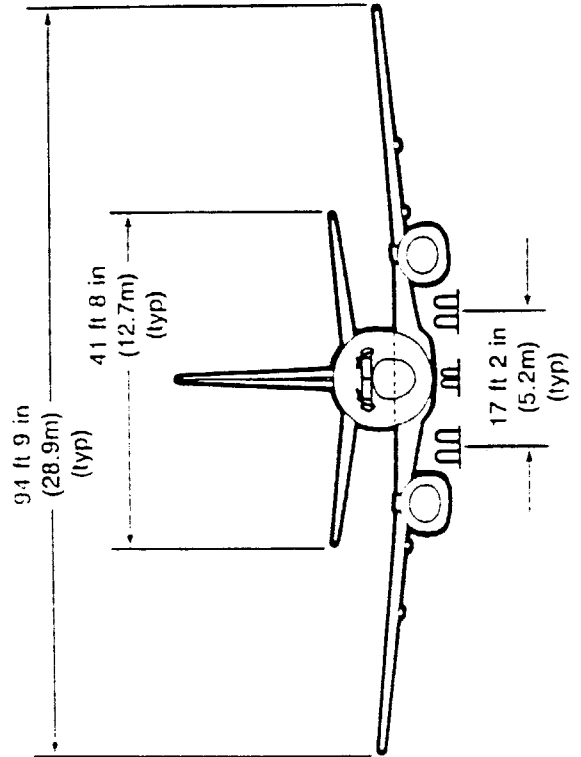
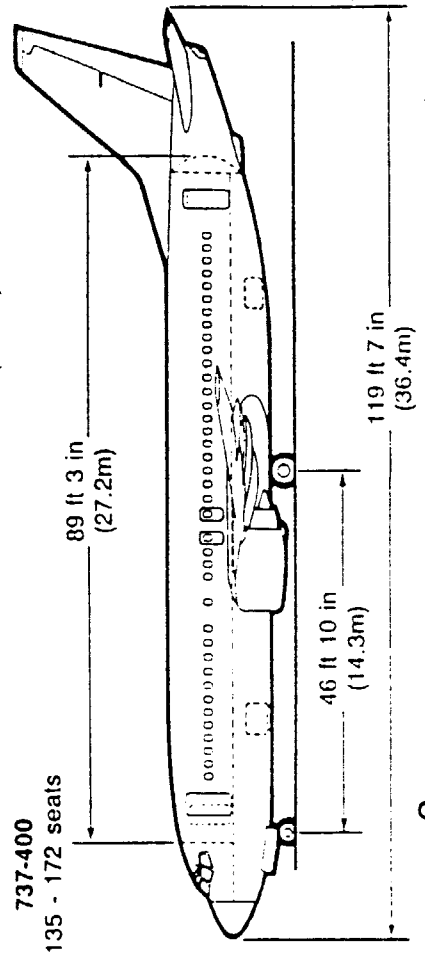
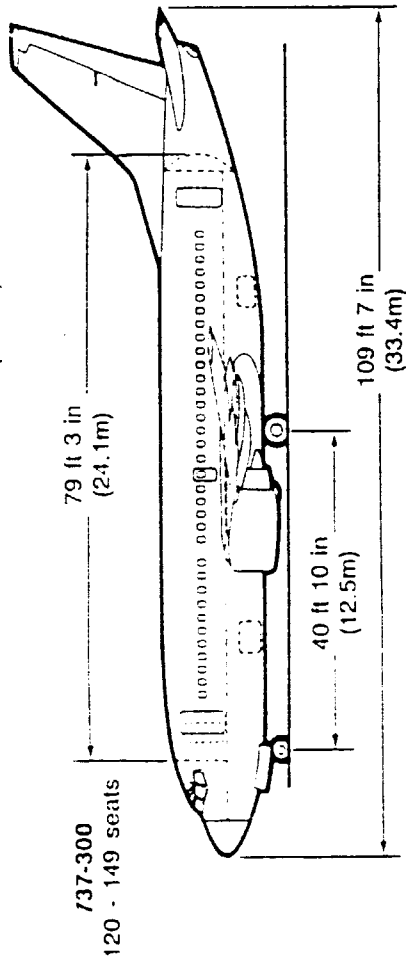
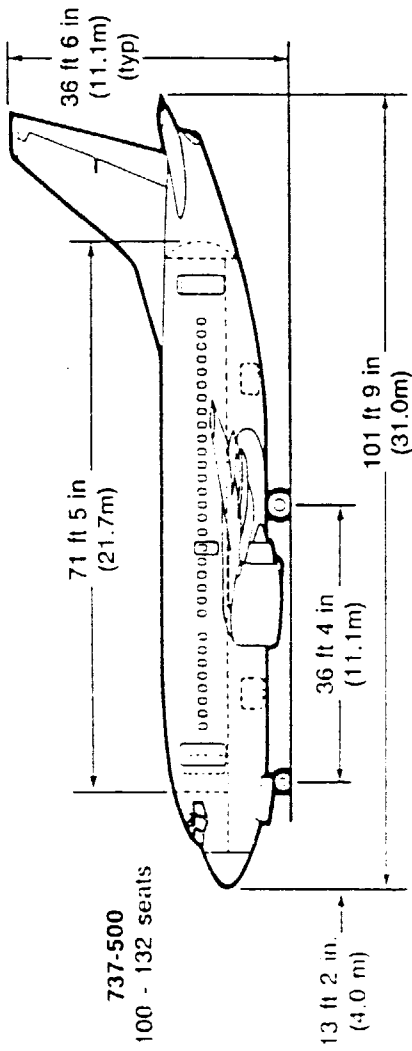
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# Principle Characteristics

	737-300		737-400		737-500	
Maximum gross weight pounds (kilograms)						
Taxi	125 000 (56 700)	to 140 000 (63 500)	Basic 139 000 (63 050)	HGW to 150 500 (68 260)	116 000 (52 610)	to 139 000 (63 050)
Brake release	124 500 (56 470)	139 500 (63 280)	138 500 (62 820)	150 000 (68 040)	115 500 (52 390)	138 500 (62 820)
Landing	114 000 (51 710)	115 800 (52 530)	121 000 (54 880)	124 000 (56 240)	110 000 (49 890)	
Zero fuel	105 000 (47 620)	106 500 (48 300)	113 000 (51 250)	117 000 (53 070)	102 500 (46 490)	
Engines (thrust, lb)						
Basic		CFM56-3-B1 (20 000)	CFM56-3B-2 (22 000)		CFM56-3-B1 (18 500)	
Option		CFM56-3B-2 (22 000)	CFM56-3C (23 500)		CFM56-3-B1 (20 000)	
Fuel capacity, U.S. gal (L)	5 311 (20 105)	5 811 (21 995)	6 311 (23 890)	5 311 (20 105)	5 811 (21 995)	6 311 (23 890)
Passengers						
Mixed class		128		146		108
All tourist, 32-in pitch		140		159		122
All tourist, 30-in pitch		149		168		132
Lower hold volume, ft <sup>3</sup> (m <sup>3</sup> )	1 068 (30.2)	904 (25.6)	783 (22.2)	1 373 (38.9)	1 213 (34.4)	1 088 (30.8)
Speed capacity						
Maximum operating airspeed, knots (kcas)					822 (23.3)	660 (18.7)
Maximum operating Mach number						562 (15.9)

NO PAGE 2

# Dimensions



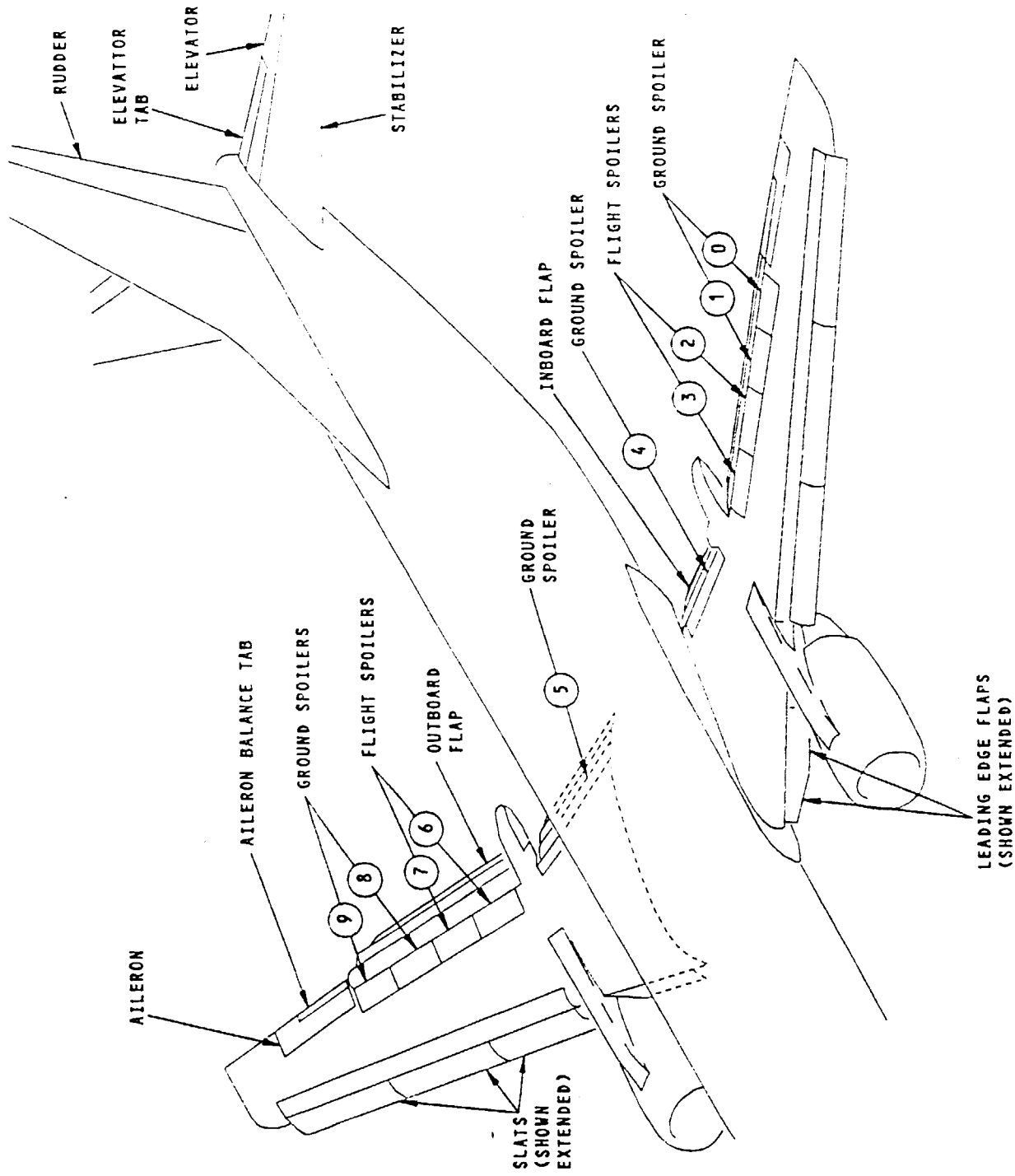


# Drawing Reference Breakdown

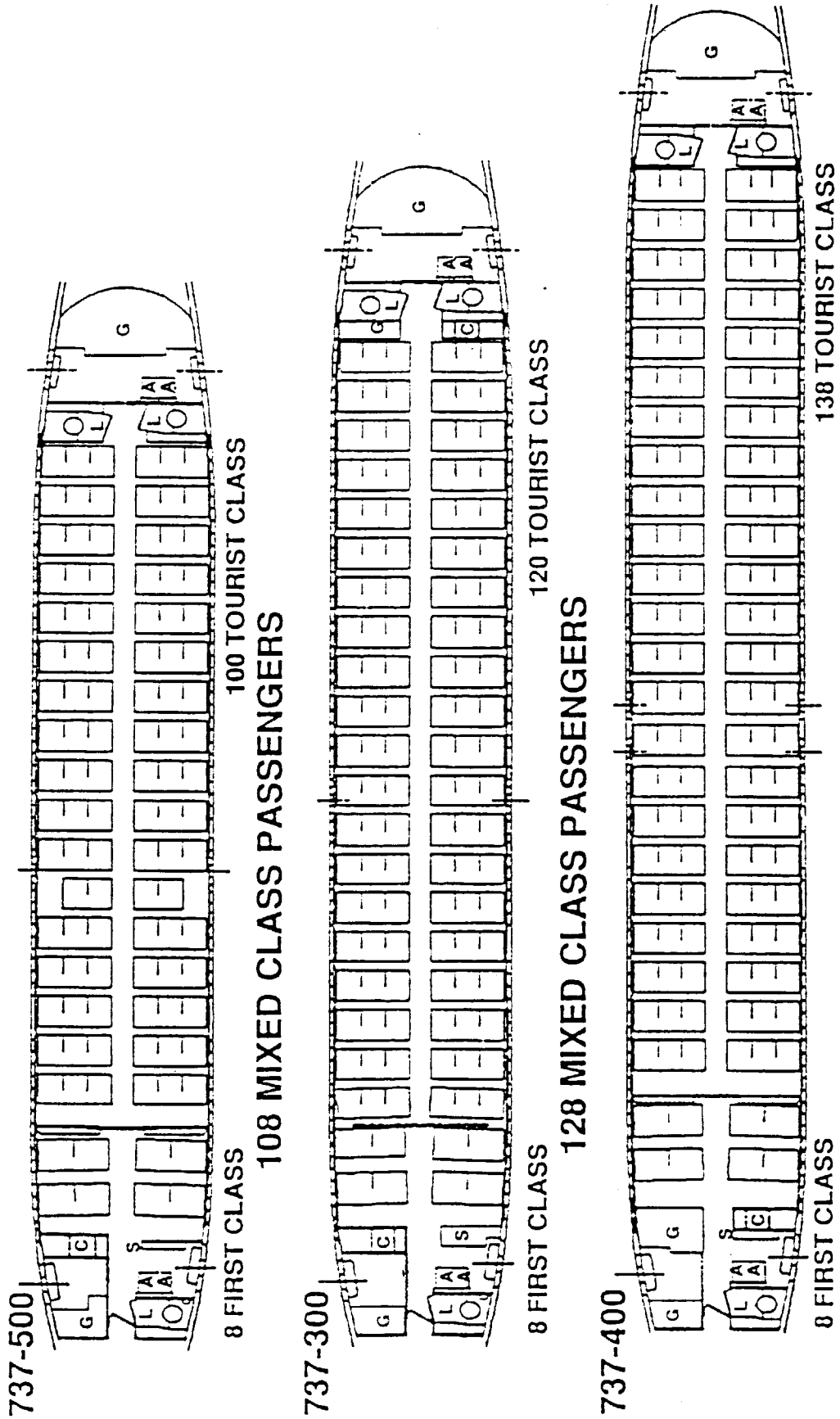
IDENTIFICATION	DRAWING TITLE	DRAWING NUMBER
11	WING CENTER SECTION ASSY	65-45411
12	WING ASSY	65-73712
14	LEADING EDGE FLAPS AND SLATS INSTL	65-73714
18	MAIN LANDING GEAR DOOR INSTL	65-73718
19	WING TIP INSTL	65-73719
30	OUTBOARD SPOILER	65-73730
31	INBOARD TRAILING EDGE FLAP INSTL	65-73731
32	OUTBOARD TRAILING EDGE FLAP INSTL	65-73732
34	AILERON INSTL	65C25910
35	INBOARD SPOILER INSTL	65-73735
41	BODY INSTL - SECTION 41	65-73741
43	BODY INSTL - SECTION 43	65-73743
46	BODY INSTL - SECTION 46	65-73746
48	BODY INSTL - SECTION 48	65-73748
61	MAIN LANDING GEAR INSTL	65-73761
62	NOSE LANDING GEAR INSTL	65-73762
70	STRUT INSTL - CFM56-3 ENGINE	310A1050
71	POWER PLANT INSTL	310A1000
78	FAN DUCT COWL AND THRUST REVERSER	315A1000
79	TAIL CONE INSTL	65-56670
82	HORIZONTAL STABILIZER ASSY	65-73782
84	ELEVATOR INSTL	65C25745
85	DORSAL FIN ASSY	65C25812
86	VERTICAL FIN ASSY	65-73786
88	RUDDER INSTL	65C25840
89	VERTICAL FIN TIP ASSY	65-73789
93	HORIZONTAL STABILIZER TIP INSTL	65-73793
41	NOSE LANDING GEAR DOOR INSTL	65C28111
43/46	WING/BODY FAIRING INSTL	65-48699
71	INLET COWL ASSY	330A1010
71	FAN COWL ASSY	310A1080
71	PRIMARY EXHAUST INSTL	333A1000
48	APU DOOR INSTL	65-50904



# Flight Control Surfaces

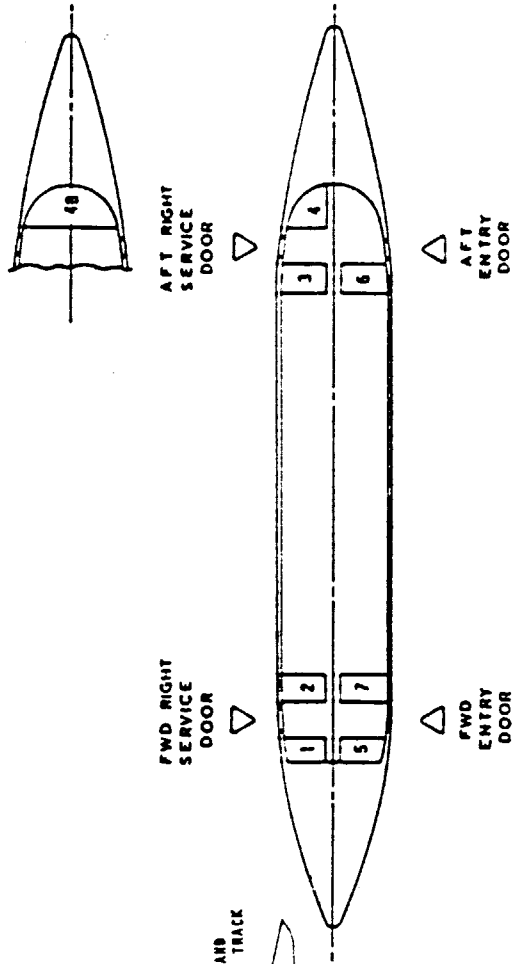


# Sample Interior Options

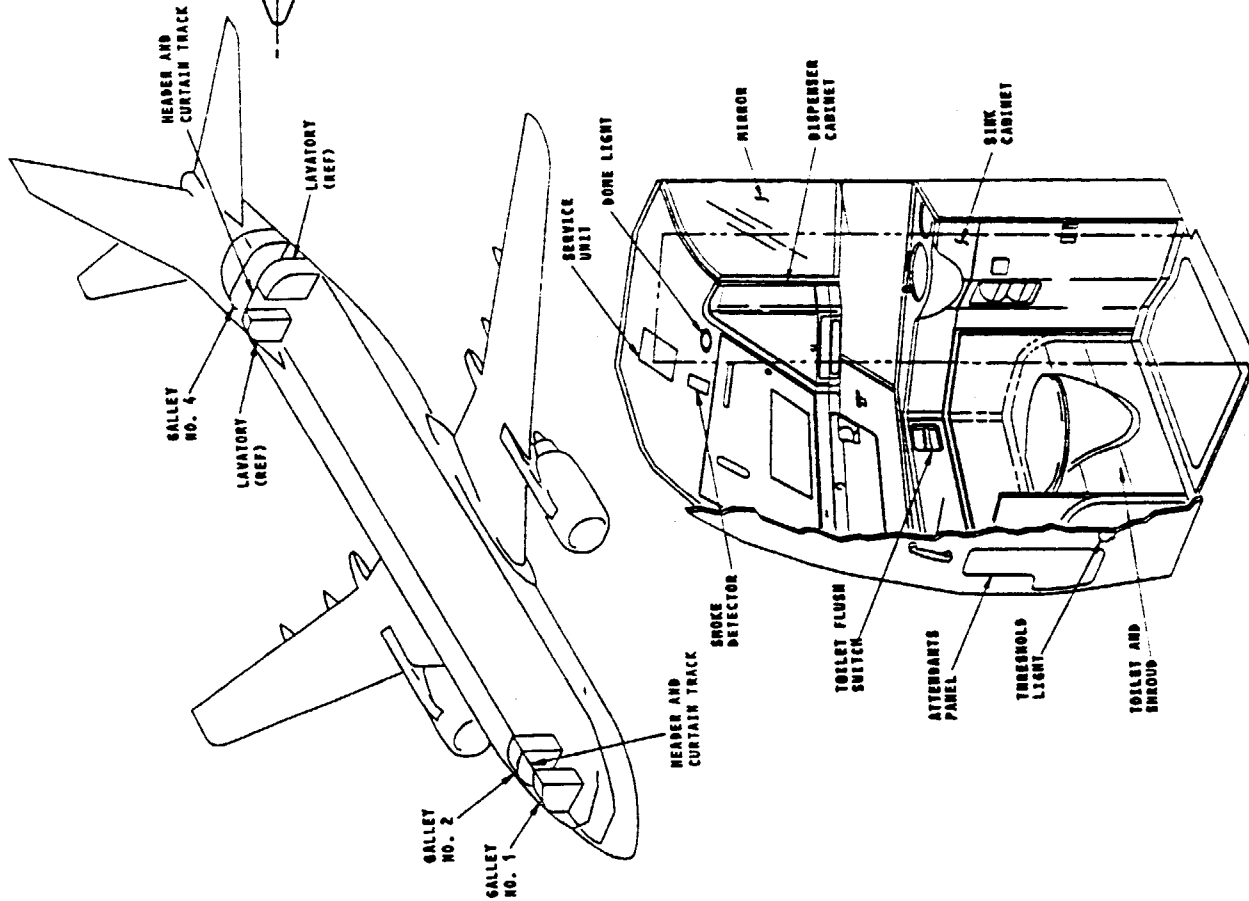
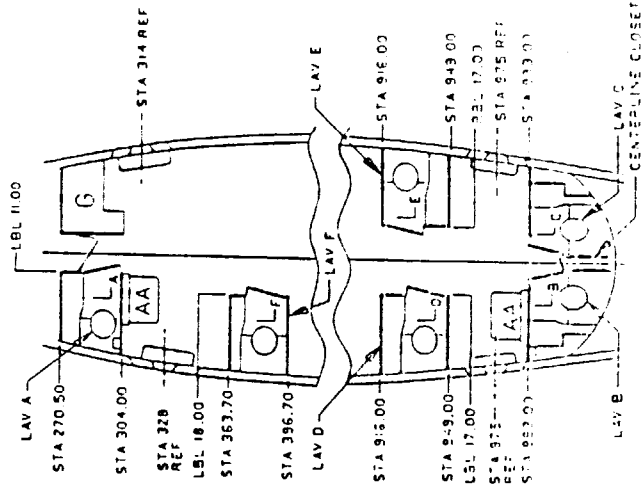


A = ATTENDANT  
 C = CLOSET  
 G = GALLEY PCD-375-5000  
 L = LAVATORY PCD-373-5000  
 S = STOWAGE PCD-374-5000

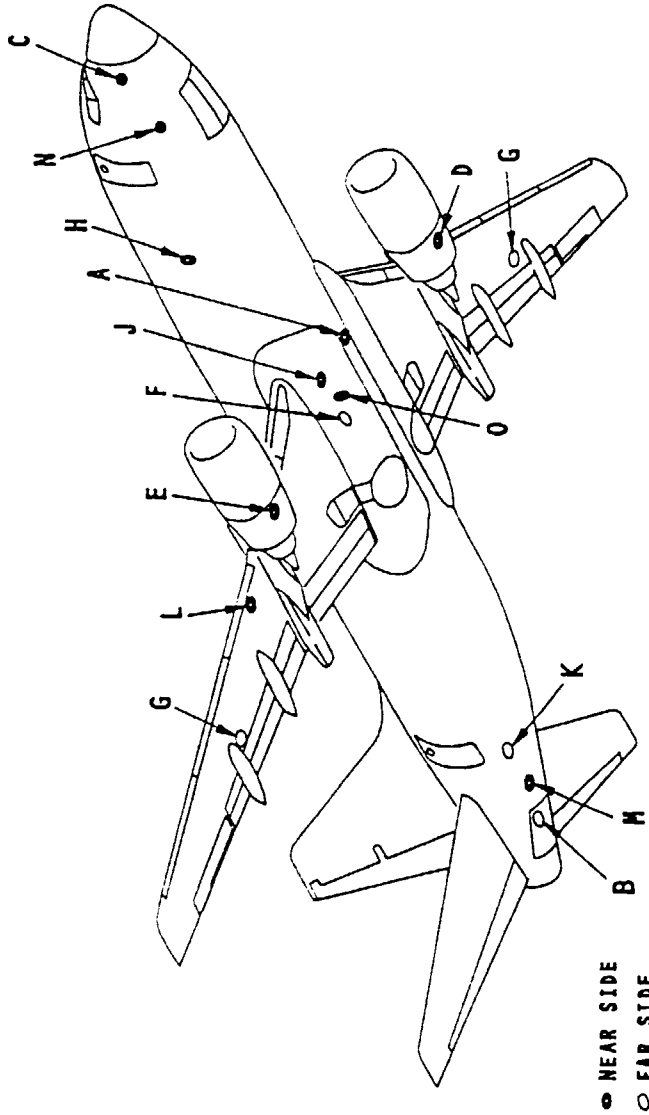
# Base Line Galley and Lavatory



SHOWN ABOVE ARE EIGHT POSSIBLE GALLEY LOCATIONS. BASIC FEATURES FOR THE STANDARD AIRPLANE ARE: GALLEY UNITS NO. 1 & 4 SEAT TRACK MOUNTED FOR 737-200 GALLEY UNITS NO. 1 & 4B HARD POINT MOUNTED\* FOR 737-300, 400 AND 500.



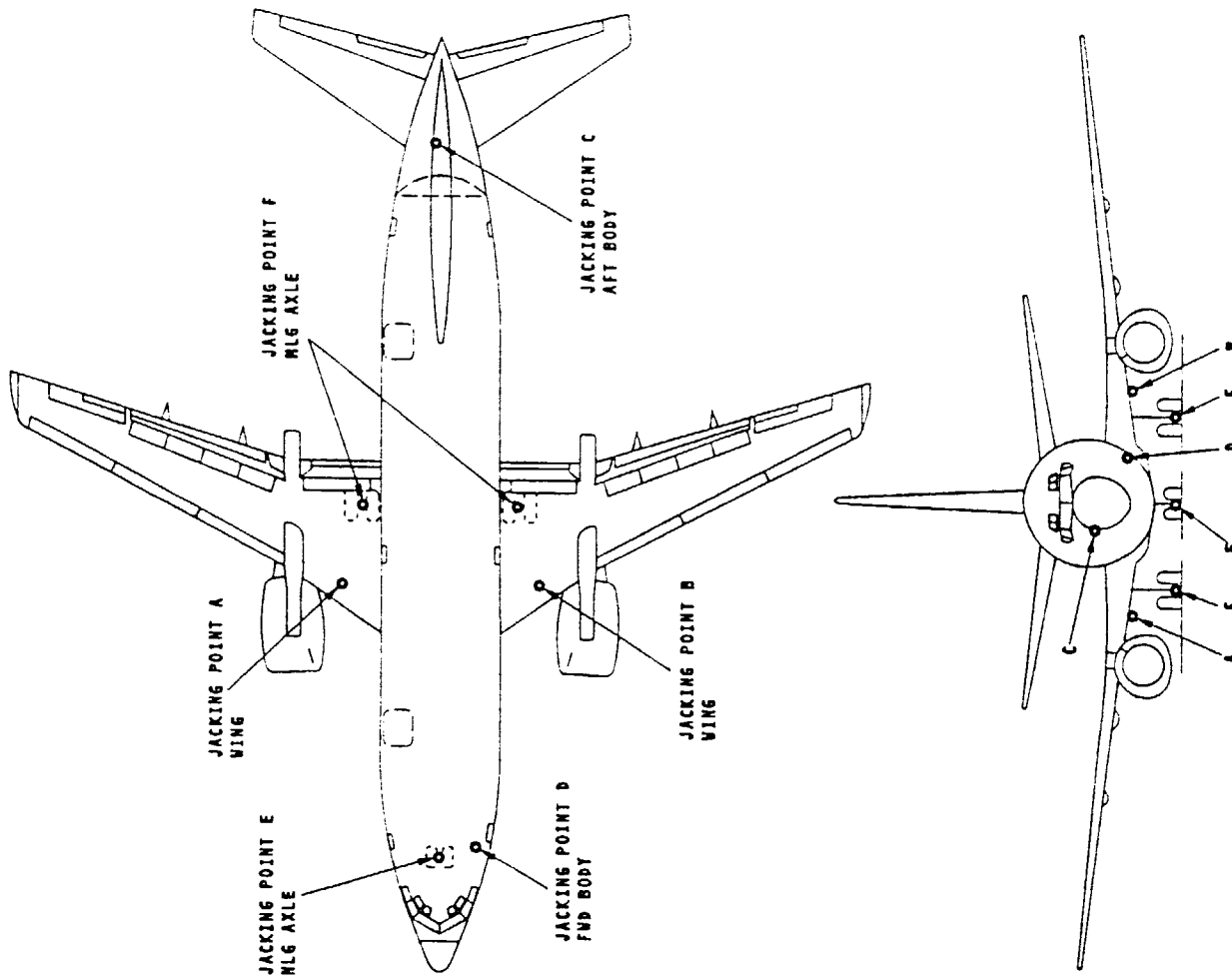
# Service Points



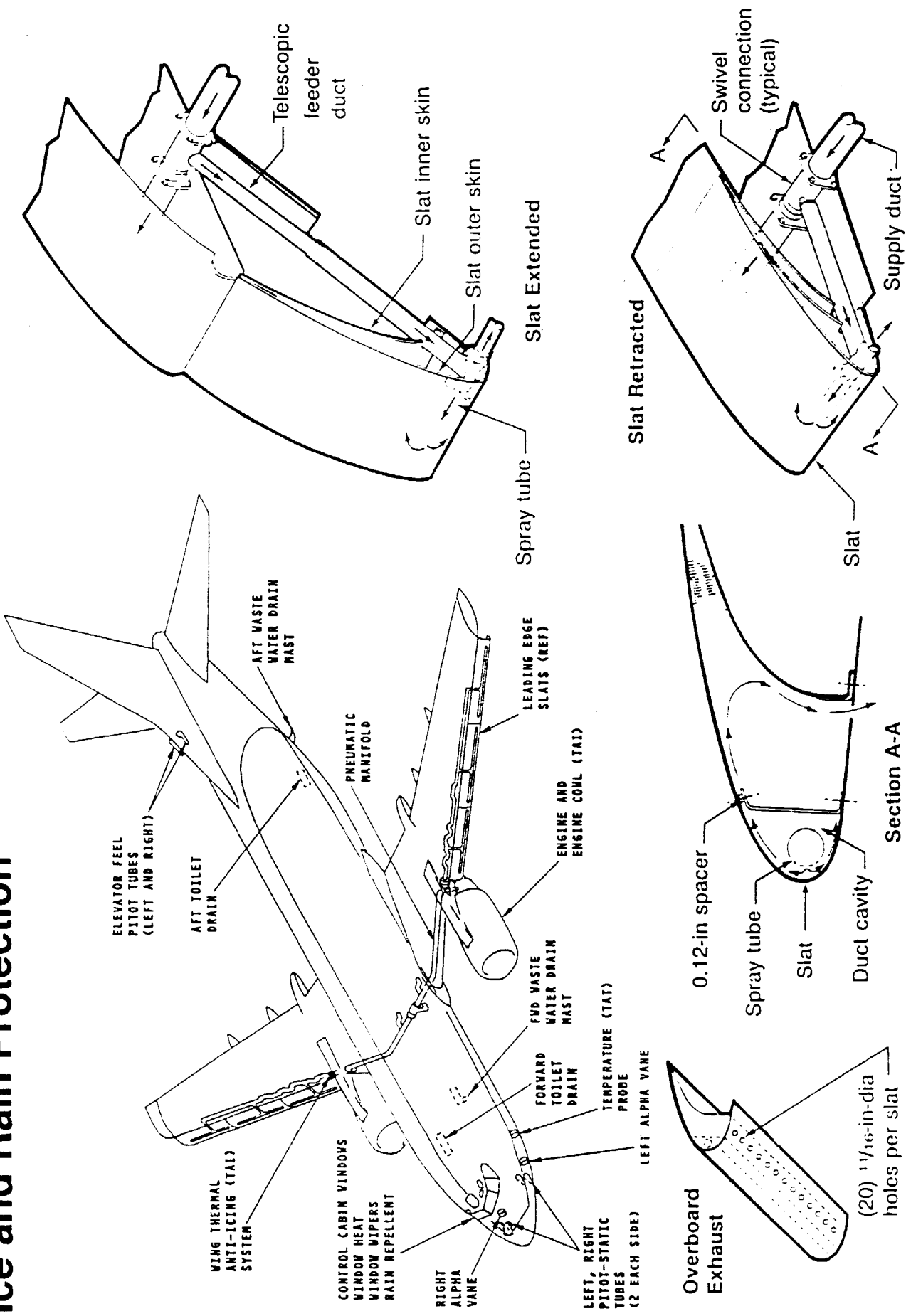
	BODY STATION	BODY BUTTOCK LINE	APPROXIMATE HEIGHT FROM GROUND
A AIR CONDITIONING	528	0	3'-4"
B AUX POWER UNIT OIL TANK	1121	L13	12'-0"
C ELEC RECEPTACLE - AC	232	R35	5'-4"
D ENGINE NO. 1 OIL TANK	616	L213	3'-5"
E ENGINE NO. 2 OIL TANK	616	R178	3'-1"
F HYDRAULIC OIL RESERVOIR	664	R53	4'-5"
G OVERWING FUEL FILLER	755	R & L 362	9'-4"
H OXYGEN PANEL	390	R64	6'-3"
J PNEUMATIC CONNECTION	540	R36	3'-8"
K POTABLE WATER	957	L18	6'-4"
L PRESSURE FUELING AND DEFUELING	659	R265	8'-0"
M TOILET PANEL	996	R10	7'-0"
N TOILET PANEL, FWD	270	R44	5'-10"
O AIR CYCLE MACHINE OIL FILL	575	R & L 21	4'-2"

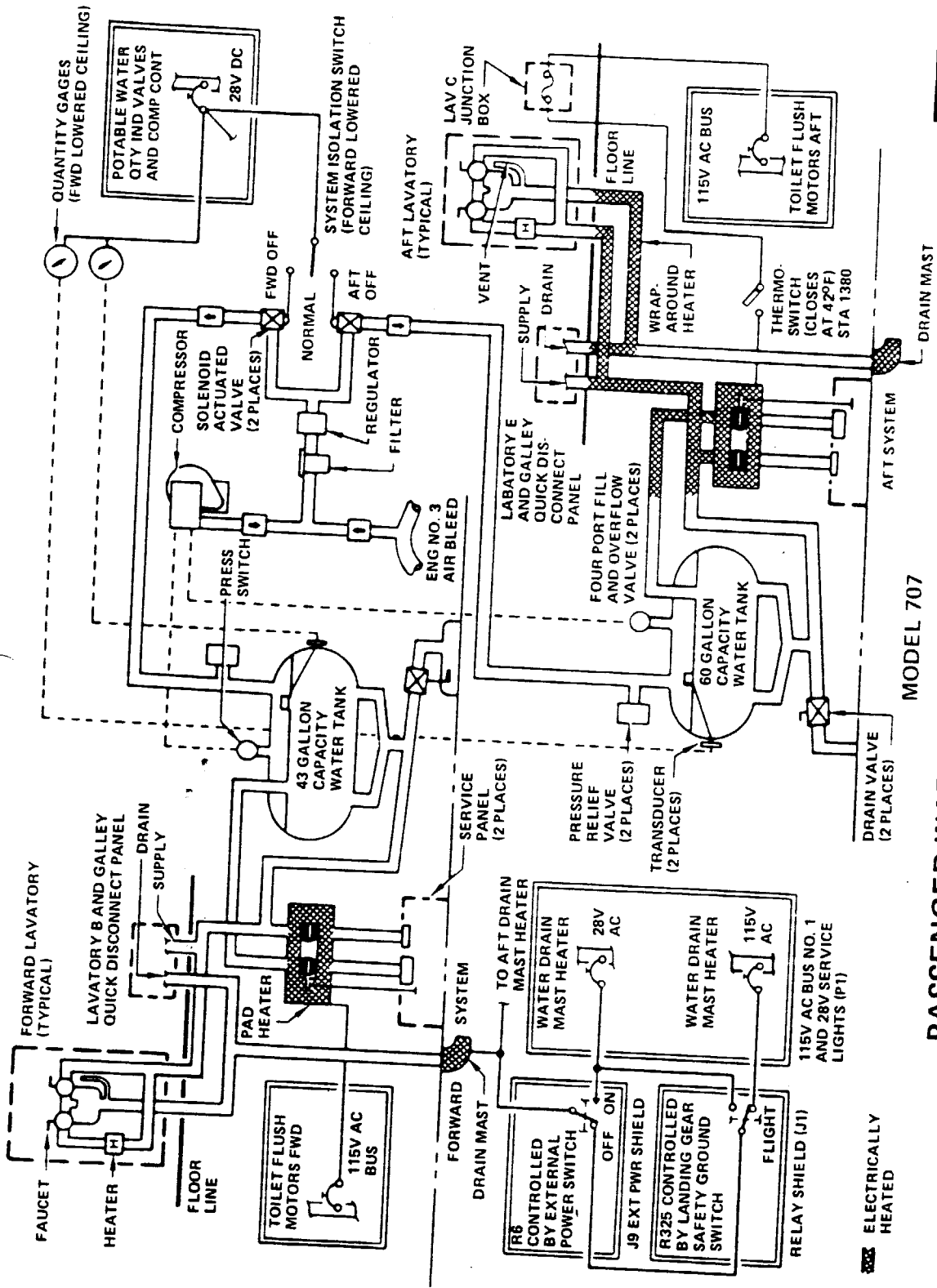
# Jack Points

SAFETY AND SERVICES



# Ice and Rain Protection





MODEL 707

# PASSENGER WATER SYSTEM SCHEMATIC

**WARNING**  
this is uncontrolled data

# ABBREVIATIONS

ADCN	ADVANCE DRAWING CHANGE NOTICE
ADF	AUTOMATIC DIRECTION FINDER
AL	ALUMINUM
ALT	ALTITUDE
ALTM	ALTIMETER
AN	AIR FORCE - NAVY STANDARDS
AND	AIR FORCE AND NAVY DESIGN STANDARDS
ANT	ANTENNA
A/P	AIRPLANE
APU	AUXILIARY POWER UNIT
ASSY	ASSEMBLY
AUX	AUXILIARY
B/A	BUNDLE ASSEMBLY
B&C	THE BOEING COMPANY STANDARD
BBL	BODY BUTTOCK LINE
BFE	BUYER FURNISHED EQUIPMENT
BL	BUTTOCK LINE
B/L	BLUE LINE
BLKD	BULKHEAD
BMS	BOEING MATERIAL SPECIFICATIONS
B/OUT	BREAKOUT
CFA	COMBINATION FABRICATION AND ASSEMBLY
CL	CENTERLINE
CONN	CONNECTOR
COORD	COORDINATE OR COORDINATION
CORR	CORROSION
CRES	CORROSION RESISTANT STEEL
CRS	COLD ROLLED STEEL
CSTG	COUNTERSINK
CSTG	CASTING
C/T	COMMON TO
CTR	CENTER
3CM	THIRD CREWMAN
DCN	DRAWING CHANGE NOTICE
DDA	DRAWING DEPARTURE AUTHORIZATION
DEV	DEVIATION
DIA	DIAMETER
DISC	DISCONNECT
DME	DISTANCE MEASURING EQUIPMENT
DWIG	DRAWING
ECP	ENGINEERING CHANGE PROPOSAL
EFF	EFFECTIVITY
ELEC	ELECTRICAL

ELEX	ELECTRONIC ENGINEERING LIAISON
ELR/	REQUEST/ADVANCE DRAWING CHANGE NOTICE
ADCN	FEDERAL AVIATION ADMINISTRATION
F/A	FABRICATION
FAA	FORM BOARD
FAB	FLANGE
F/B	FIRST OFFICER
FLG	FULL SIZE
F/O	FUNCTION TEST
F/S	FITTING
F/T	FORWARD
FTG	GENERATOR
FWD	GROUND (ELECTRICAL)
GEN	HEAT TREAT
GRD	HOOK UP
H/T	HYDRAULIC
H/U	INSIDE DIAMETER
HYD	IDENTIFICATION, IDENTIFY
ID	INSIDE MOLD LINE
IDENT	INBOARD
INL	INTERPHONE
INBD	INSPECTION
INPH	INSTALLATION
INSP	INSTRUMENT
INSTL	INTERCHANGEABLE
INSTR	JUNCTION BOX
INTCHG	JUMPER (WIRING)
J/BOX	THOUSAND POUNDS PER SQUARE INCH
JPR	LEADING EDGE
KSI	LEFT HAND
LE	LOCATING, LOCATE, LOCATION
LH	LOWER
LOC	LAYOUT
LWR	MACHINE PLANNING
L/O	METAL BOND
M/P	MAXIMUM
M/B	MASTER CHANGE
MAX	MASTER CONTROL
MC	DRAWING
MCD	MASTER CHANGE RECORD, MASTER CHG. REQUEST
MCR	INDEX
MDI	MANUFACTURING
MFI	MILITARY SPECIFICATIONS
MFG	MINIMUM
MIL	MAKE ON ASSEMBLY
MIN	MODIFICATION, MODEL
MOA	MANUFACTURING
MOD	TECHNICAL DIRECTIVE
MTD	MOUNTING
MTG	NUMERICAL CONTROL
N/C	

N/P	NUT PLATE
NAS	NATIONAL AIRCRAFT STANDARDS
NT	NO TOOL (TOOL CODE)
O/S	OVERSIZE
O&IR	OPERATION AND INSPECTION RECORD
OD	OUTSIDE DIAMETER
ODL	OUTSIDE MOLD LINE
OPP	OPPOSITE
OUTBD	OUTBOARD
OVHT	OVERHEAT
OXY	OXYGEN
PCA	PARTS CONTROL AREA
PCM	PHOTO CONTACT MASTER
PED	PRODUCTION ENGINEERING DOCUMENT
PI	PRODUCTION ILLUSTRATION
PLAC	PLACARD
P/N	PART NUMBER
PNEU	PNEUMATIC
POA	PURCHASED ON ASSEMBLY
POP	PURCHASED OUTSIDE PRODUCTION
POS	POSITION
PRR	PRODUCTION REVISION RECORD
PS	PART STORE
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAGE
PSU	PASSENGER SERVICE UNIT
PURCH	PURCHASE
PWR	POWER
QTY	QUANTITY
RCVR	RECEIVER
RCVR/	RECEIVER
XMTR	TRANSMITTER
REF	REFERENCE
REG	REGULATOR
REPL	REPLACEABLE
REPT	REFERENCE PHOTO TEMPLATE
RH	RIGHT HAND
RIV	RIVET
RES	RESISTANCE
RSC	RESIDENT SHOP CONTROL
RUB	RUBBER (STAMP)
STRN	STRAIGHTEN
SEC	SECTION
SW	SWITCH
STAN	STANCHION
S/F	SPOT FACE
S/N	SERIAL NUMBER
SDS	SHOP DISTRIBUTION STANDARDS
SEQ	SEQUENCE
SHT	SHEET

SPEC	SPECIFICATION
SRF	SPECIAL CHEMICAL AND SOLVENT RESISTANT FINISH
STA	STATION
STD	STANDARD
STIFF	STIFFENER
STL	STEEL
STP	STAMP
STR	STRINGER
SUPT	SUPPORT
SPKR	SPEAKER
SHLD	SHIELD
SPL	SPLICE
SYM	SYMMETRICAL
TE	TRAILING EDGE
T/H	THROUGH HOLE
THRU	THROUGH
TAI	THERMAL ANTLICE
T/S	TERMINAL STRIP
U/O	USED ON
UA	UNIT ASSEMBLY
UB	UNIT BOND
UI	UNIT ISSUE
UM	UNIT MANUFACTURE
UPR	UPPER
UT	UNIT TIME
UHF	ULTRA HIGH FREQUENCY
VERT	VERTICAL
VOL	VOLUME
VHF	VERY HIGH FREQUENCY
VOR	VHF OMNI RANGE
W/B	WIRE BUNDLE
WS	WING STATION
WBL	WING BUTTOCK LINE
WCP	WING CHORD PLANE
WL	WATER LINE
WTR	WATER
XMTR	TRANSMITTER
XFMR	TRANSFORMER
ZN	ZONE

## IDENTIFICATION CODES

### BLOCKS

FB	FORM BLOCK
HB	HYDRORESS BLOCK
RB	ROUTER BOARD
SB	SPINNING BLOCK
STFB	STRETCH BLOCK
WAFB	WATER FORM BLOCK
DIES	
BD	BLANKING DIE
BFD	BLANK AND FORM DIE
BPFD	BLANK, PIERCE AND FORM DIE



CFD CUTOFF AND FORM DIE  
 CND COINING DIE  
 COD CUTOFF DIE  
 CPD CUTOFF AND PIERCE DIE  
 CPFD CUTOFF, PIERCE AND FORM DIE  
 DD DINKING DIE  
 DRD DRAW DIE  
 FD FORM DIE  
 HBFD HYDRAULIC BULGE FORM DIE  
 HD HAMMER DIE  
 HSP HYDRO SHEAR PLATE  
 JD JOGGLE DIE  
 MD MOLD DIE  
 ND NOTCHING DIE  
 PBD PIERCE BLANK DIE  
 PD PIERCE DIE  
 PFD PIERCE AND FORM DIE  
 PRP PRESS PLATE  
 PTD PUSH THRU DIE  
 SD SHAVING DIE  
 SLD SLOTTING DIE  
 SRD STEEL RULE DIE  
 SWD SWAGING DIE  
 TD TRIMMING DIE  
 TFD "T" CODED FD  
 TJD "T" CODED JD

FIXTURES

BF BROACHING FIXTURE  
 BOF BORING FIXTURE  
 CF CHECKING FIXTURE  
 DF DRILL FIXTURE  
 ECF ENVELOPE CHECK FIXTURE  
 GF GRINDING FIXTURE  
 GGF GEAR GRINDING FIXTURE  
 GHF GEAR HOBBING FIXTURE  
 CSF GEAR SHAPING FIXTURE  
 GSHF GEAR SHAPING FIXTURE  
 HRF GEAR TESTING FIXTURE  
 HTF HAND ROUTER FIXTURE  
 ICF INTERFACE CHECK FIXTURE  
 LF LATHE FIXTURE  
 MF MILL FIXTURE  
 PFF PREFORM FIXTURE  
 RF ROUTER FIXTURE  
 SF SAW FIXTURE  
 SHF SHAPER FIXTURE  
 SPF SHOT PEENING FIXTURE  
 THF THREADING FIXTURE  
 JIGS

AJ ASSEMBLY JIG  
 DJ DRILL JIG  
 LJ LOCATING JIG

RJ RIVETING JIG  
 RWJ RESISTANCE WELD JIG  
 TJ TRIM JIG  
 TSJ TEST JIG  
 WJ WELD JIG  
 MASTER TOOLING  
 FG FACILITY GAGE  
 MCG MASTER CONTROL GAGE  
 MDG MASTER DRILL GAGE  
 MG MASTER GAGE  
 MM MASTER MODEL  
 MTT MASTER TOOLING TEMPLATE  
 SDG SECONDARY DRILL GAGE  
 SEG SECONDARY GAGE  
 MECHANICAL EQUIPMENT  
 FME FLOOR MOUNTED EQUIPMENT  
 ME MECHANICAL EQUIPMENT  
 OHME OVERHEAD EQUIPMENT  
 PME PORTABLE MECH. EQUIPMENT  
 SME SHIPPING MECH. EQUIPMENT  
 TME TRANSPORTATION MECH. EQUIPMENT

MISCELLANEOUS

AM ASSEMBLY MODEL  
 CB CORE BOX  
 DFT DESIGNED FACILITY TOOL  
 DM DRAW AND BENDING  
 MANDEL  
 DT DRILL TOOL  
 FCT FORM CUTTING TOOL  
 FR FORMING ROLL  
 LM LAYUP MANDREL  
 MA MACHINE EQUIPMENT  
 MC MILL CUTTER  
 MIT MISCELLANEOUS TOOL  
 MOLD  
 OT OPTICAL TOOL  
 PATTERN  
 PAT PART MODEL  
 PM PROTECTIVE EQUIPMENT  
 PRE RIVETING TOOL  
 RIT SAMPLE PART  
 SP STANDARD TOOL  
 STE SPECIAL TEST EQUIPMENT  
 TB TEST BENCH  
 TE TEST EQUIPMENT  
 TH TEST HARNESS  
 TSB TOOL SUB BASE  
 TST "T" CODED STANDARD TOOL  
 UT UTILITY TOOL  
 VFM VACUUM FORMING MOLD  
 WFB WIRE FORM BOARD

TEMPLATES

ATT APPLY TRIM TEMPLATE  
 BSST BONDING STOCK SIZE TEMPLATE  
 CAM CAM TEMPLATE  
 CMT CHEM-MILL TEMPLATE  
 CST CROSS SECTION TEMPLATE  
 CT CONTOUR TEMPLATE  
 DBT DEVELOPED BLANK TEMPLATE  
 DCT DIE CONSTRUCTION TEMPLATE  
 DLT DEVELOPED LAYOUT TEMPLATE  
 DLT DEVELOPED LAYOUT TEMPLATE  
 FBT FORM BLOCK TEMPLATE  
 HCT HOLE CHECKING TEMP.  
 HLT HOLE LOCATING TEMP.  
 JDT JIG DRILL TEMPLATE  
 PATT PLASTIC APPLY TRIM TEMPLATE  
 PFT PROFILE TEMPLATE  
 RDT ROUTER DRILL TEMP.  
 RLT REFERENCE LAYOUT TEMPLATE  
 SPT SAMPLE PART TEMPLATE  
 SUT SETUP TEMPLATE

CODED TOOLING INFO

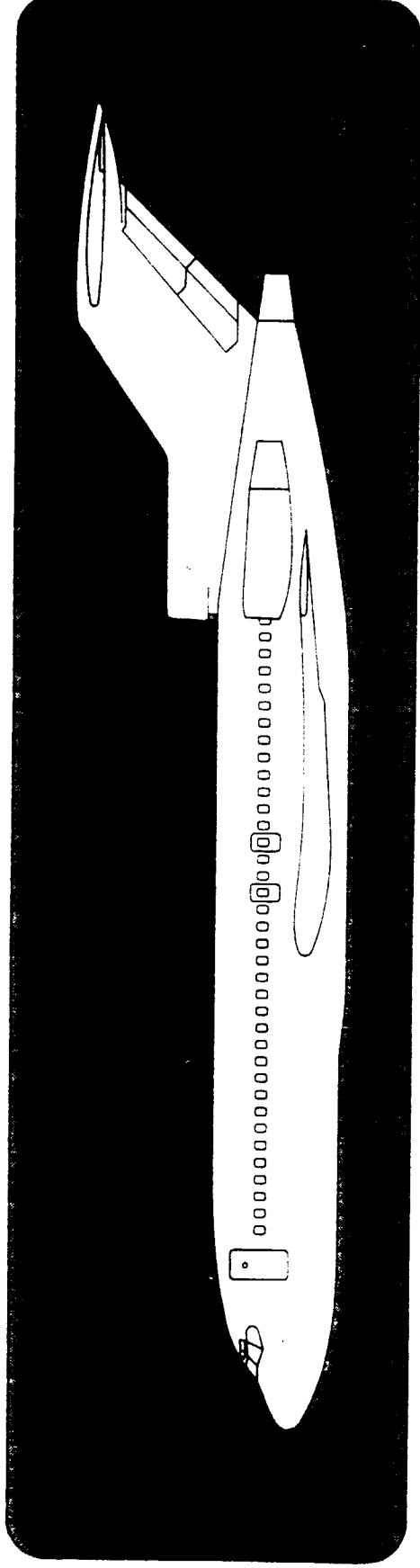
MCD MASTER CONTROL  
 DRAWING  
 PI PRODUCTION ILLUSTRATION  
 PS PROCESS SHEET  
 REPT REFERENCE PHOTO  
 TMLD TOOLING MASTER LAYOUT  
 TMLO TOOLING MASTER LAYOUT  
 PREFIXES  
 B METAL BONDING TOOLS (ASSY TOOLS ONLY)  
 E DEVELOPMENT (RESEARCH) TOOLS  
 F FLOOR MOUNTED TOOLS  
 K ANY TOOLS ON WHICH KIRKSITE IS USED  
 P PERISHABLE TOOLS (DT, FCT, MC CODES ONLY)  
 NC NUMERICALLY CONTROLLED TOOLS  
 (S) SHRINK SCALE TOOL FOR 17.7 CRES. RENE' 41, ETC.  
 SY PERIODIC PROOF-LOAD TEST-WICHITA ME SLINGS  
 O QUALITY CONTROL DEVELOPMENT TOOLS  
 X TOOLS THAT ARE OF AN EXPERIMENTAL CATEGORY

**BOEING**

**737**

**REFERENCE GUIDE**

D6-60109



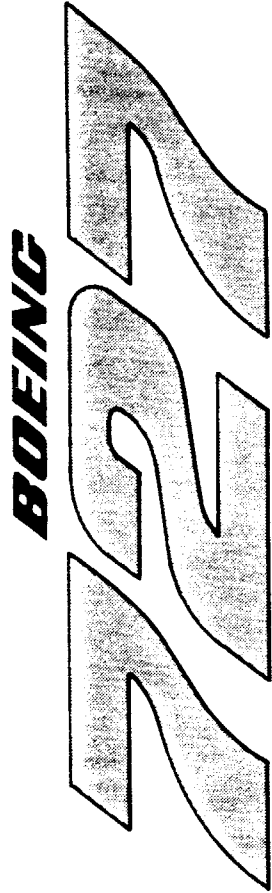
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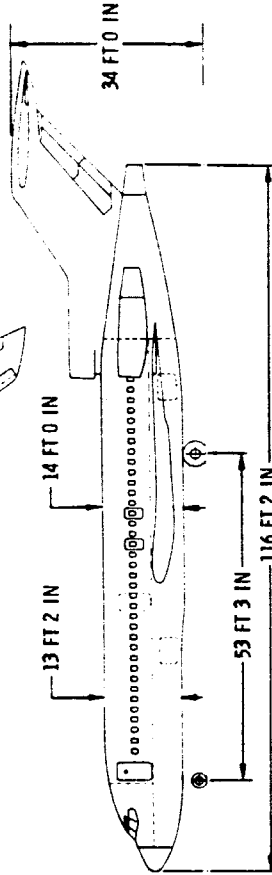
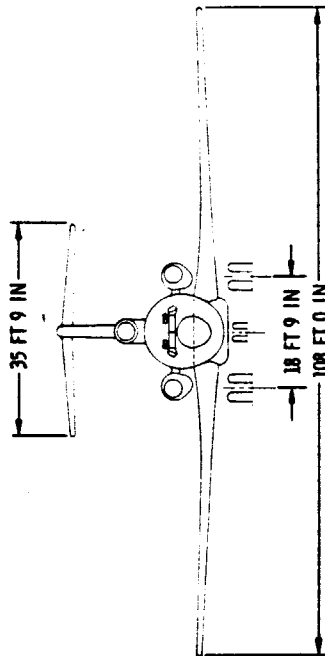
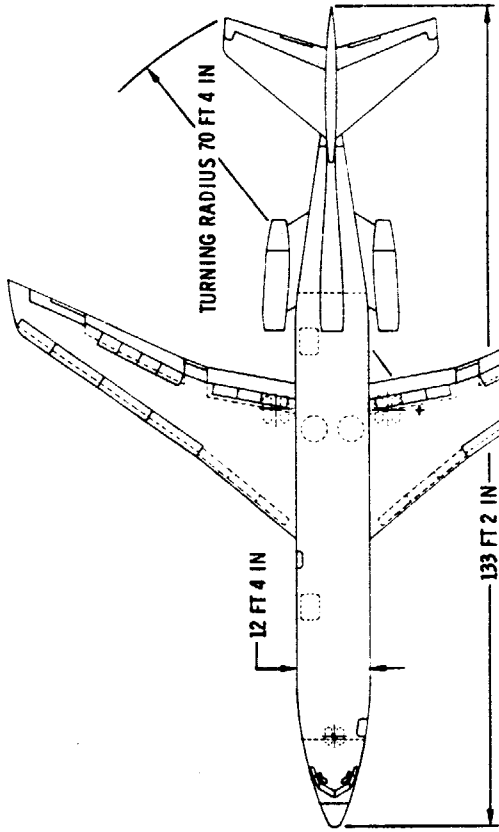
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SECTION BREAKDOWN . . . . .	10	OXYGEN SYSTEM . . . . .	21
CONTROL SURFACES . . . . .	11	WATER SYSTEM . . . . .	22
ANTENNA LOCATIONS . . . . .	12	MAJOR DRAWING NUMBER INDEX 65-72700 . . . . .	23
FUEL SYSTEM . . . . .	13		

BASIC		OPTIONAL CONFIGURATIONS			
MAX TAXI WEIGHT	143,000	153,000	161,000	170,000	
MAX FLIGHT WEIGHT	142,000	152,000	160,000	169,000	
MAX LANDING WEIGHT	135,000	135,000	142,500*	142,500*	
ZERO FUEL WEIGHT	111,000	114,000	118,000	123,500	
SPEC (OEW)	85,943	86,304	86,329	86,376	
MAX SPEED, KTS (IAS)	390				
POWER PLANT	TAKEOFF THRUST AT 84°F SEA LEVEL	JTB-D-7	JTB-D-9	JTB-D-11	14,000 LBS 14,500 LBS 15,000 LBS
FUEL CAPACITY, US GAL	7174				7680

\* 30° LANDING FLAPS ABOVE 137,500 LB

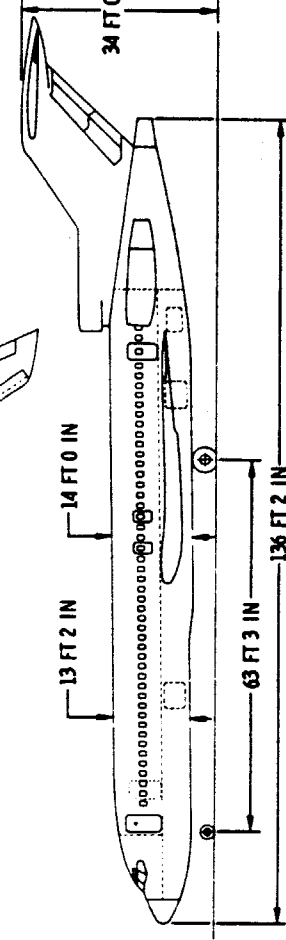
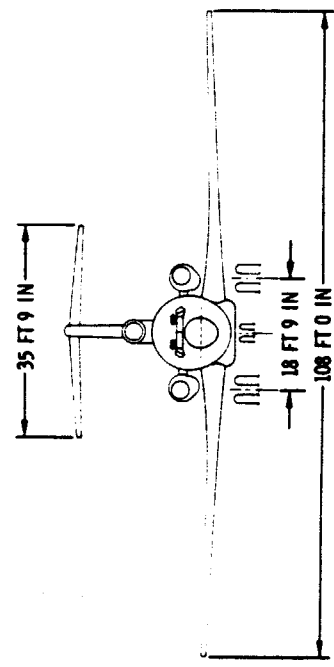
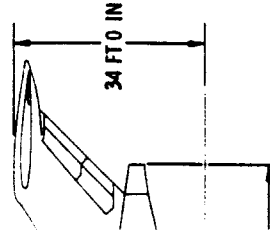
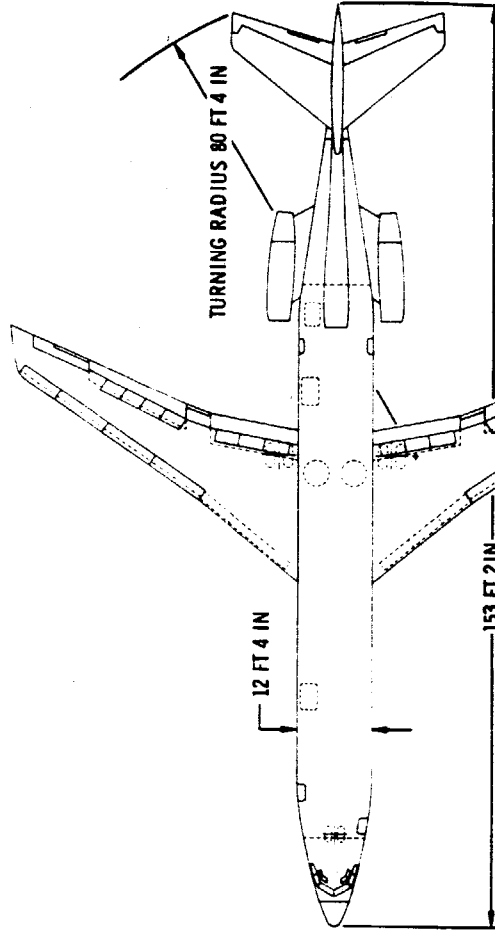
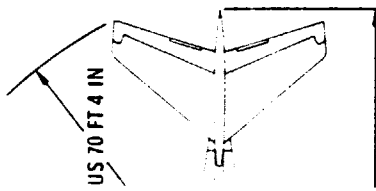
MAX TAXI WEIGHT  
MAX FLIGHT WEIGHT  
MAX LANDING WEIG  
ZERO FUEL WEIGHT  
SPEC (OEW)

MAX SPEED (V<sub>MO</sub>),  
POWER PLANT  
FUEL CAPACITY, US



WARNING  
this is uncontrolled data

# GENERAL ARRANGEMENT 727-100



	BASIC		OPTIONAL CONFIGURATIONS	
MAX TAXI WEIGHT	170,000	173,000	170,000	173,000
MAX FLIGHT WEIGHT	169,000	172,000	169,000	172,000
MAX LANDING WEIGHT	150,000	150,000	150,000	150,000
ZERO FUEL WEIGHT	136,000	136,000	136,000	136,000
SPEC (OEW)	94,407			
MAX SPEED (V <sub>MO</sub> ), KTS	390	350	390	350
POWER PLANT	TAKEOFF THRUST AT 84°F SEA LEVEL		JT8D-7	14,000 LBS
			JT8D-9	14,500 LBS
			JT8D-11	15,000 LBS
FUEL CAPACITY, US GAL	7174		7680	

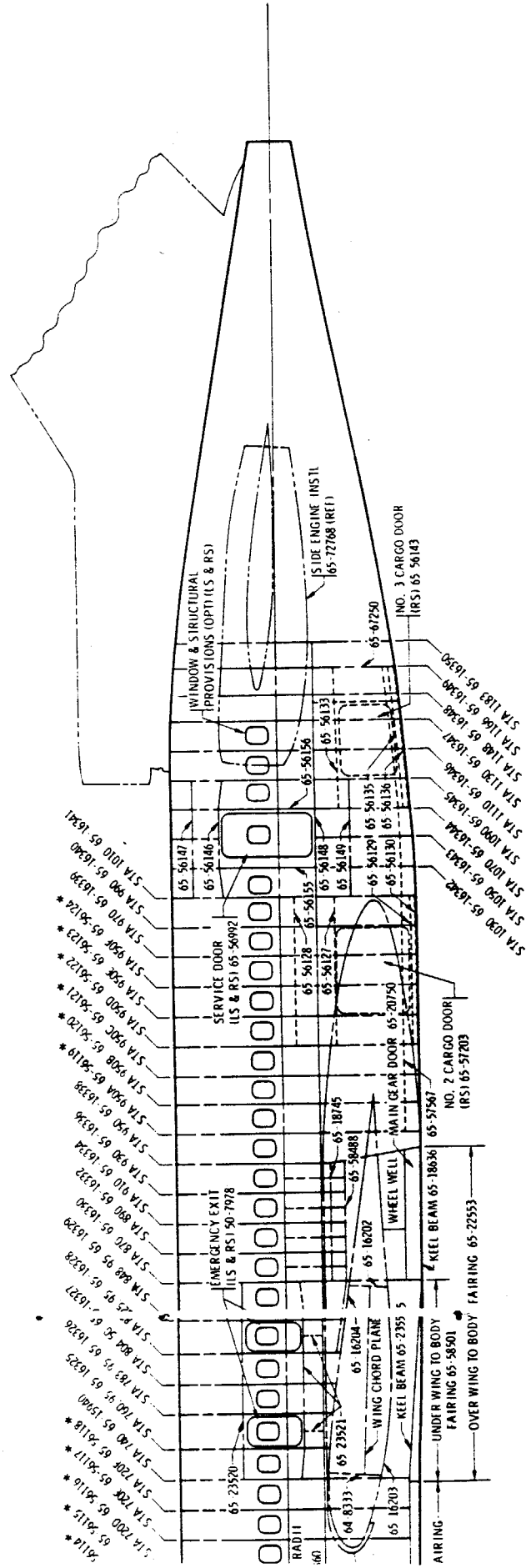
WARNING  
this is uncontrolled data

# GENERAL ARRANGEMENT 727-200

WARNING  
this is uncontrolled data





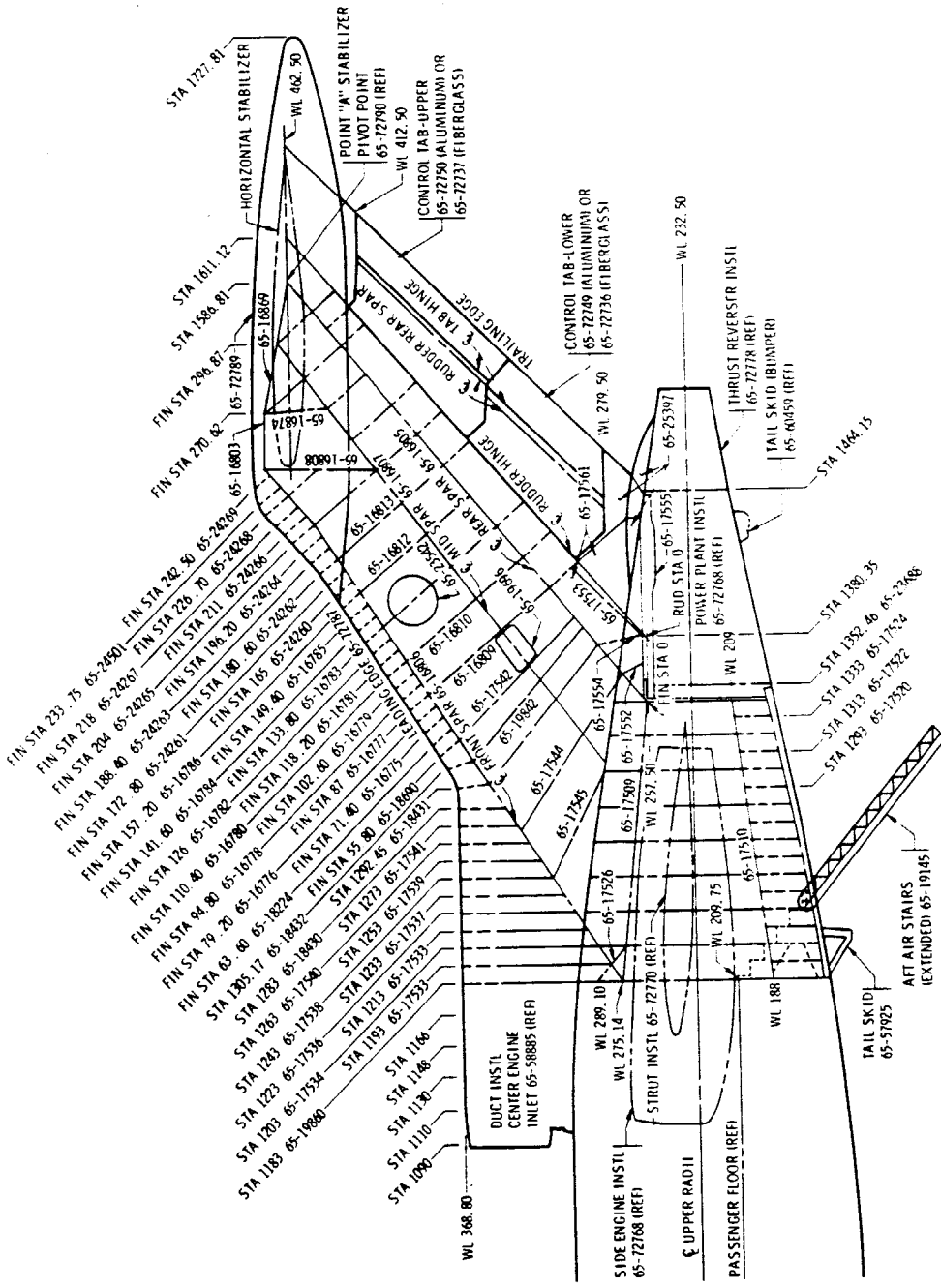


\* 727-200 ONLY





WARNING  
this is uncontrolled data

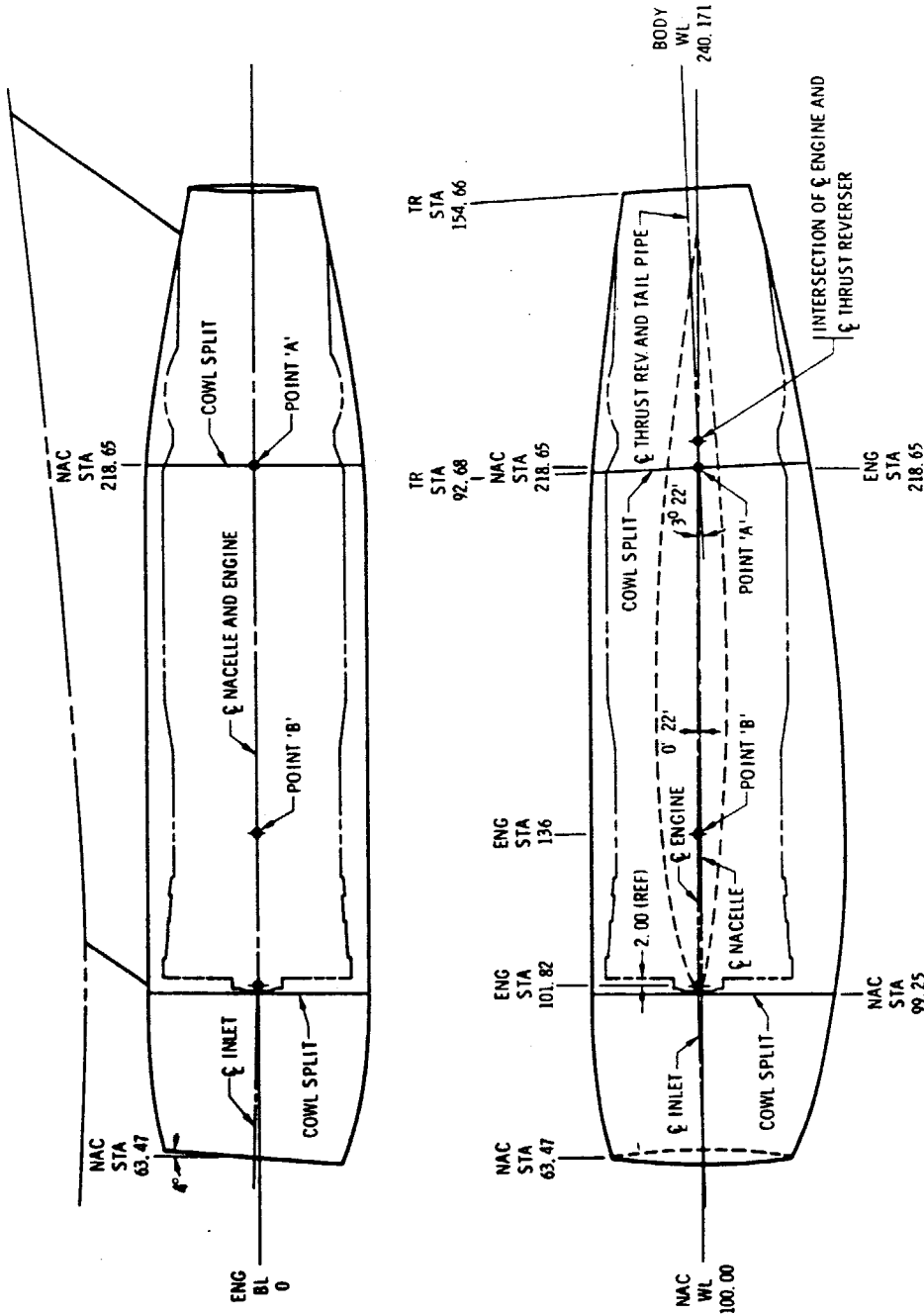


# C/L DIAGRAM EMPENNAGE



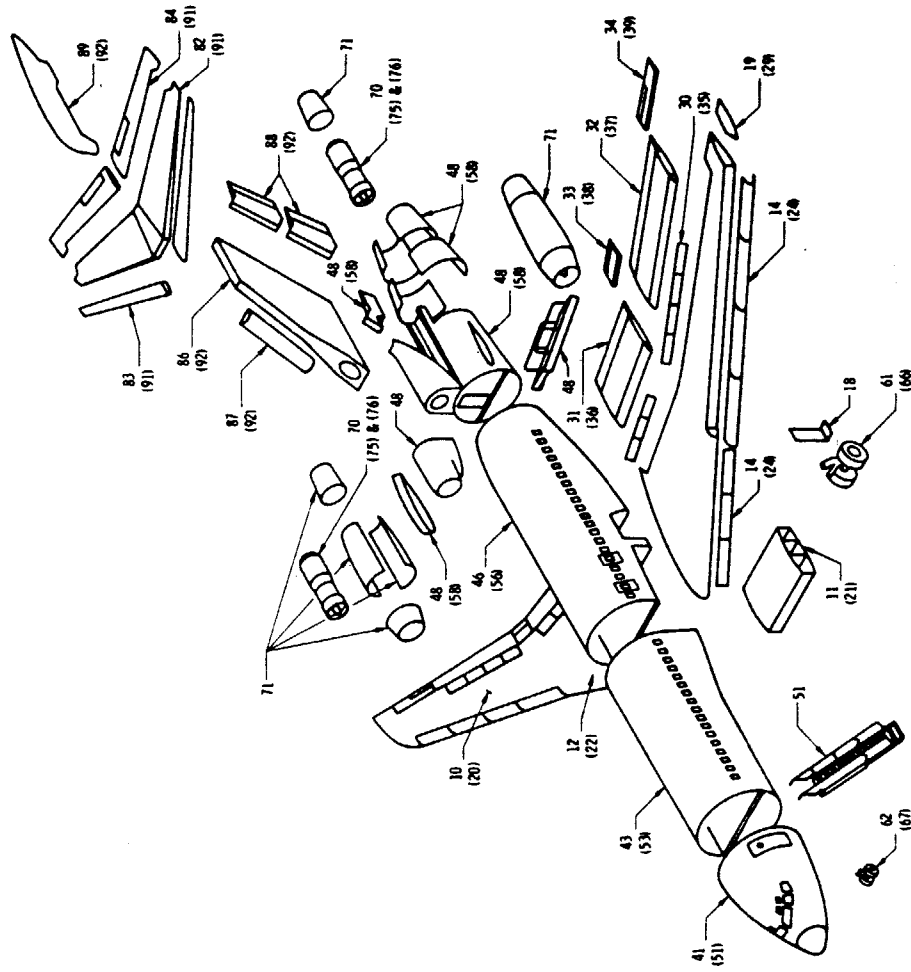
STRUCTURAL

- 10 TOTAL AIRPLA
- 11 WING CENTER
- 12 BASIC WING I
- 14 LEADING EDGE
- 18 WING TIP
- 19 WING TIP
- 30 SPOILERS
- 31 INBOARD FLA
- 32 OUTBOARD FL
- 33 INBOARD ALL
- 34 OUTBOARD A1
- 40 BODY
- 41 FIRST BODY S
- 43 SECOND BODY
- 46 THIRD BODY S
- 48 FOURTH BODY
- 60 LANDING GRAI
- 61 MAIN LANDING
- 62 WOSE LANDING
- 70 POWER PLANT
- 71 COWLING\*
- 80 EMPEINAGE
- 82 STABILIZER
- 83 STABILIZER I
- 84 ELEVATOR
- 86 FIN
- 87 FIN LEADING
- 88 RUDDER
- 89 FIN TIP



WARNING  
this is uncontrolled data

C/L DIAGRAM NACELLE



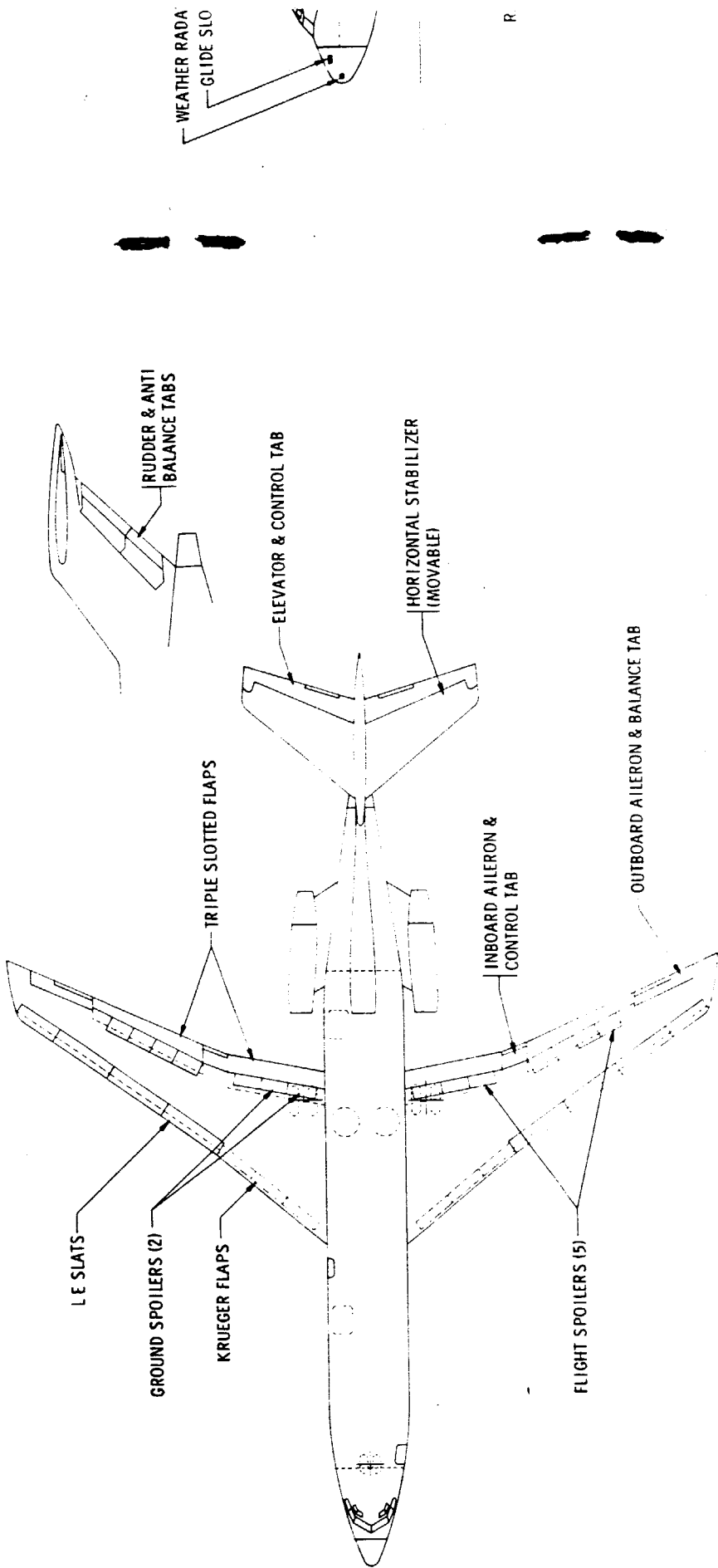
STRUCTURAL		NON-STRUCTURAL	
10	TOTAL AIRPLANE	(09)	
11	WING	(20)	
12	WING CENTER SECTION	(21)	
14	BASIC WING BOX OUTBD OF BODY	(22)	
18	LEADING EDGE FLAPS AND SLATS	(24)	
19	LANDING GEAR DOOR	(29)	
30	WING TIP	(35)	
31	SPOILERS	(36)	
32	INBOARD FLAPS	(37)	
33	OUTBOARD FLAPS	(38)	
34	INBOARD ALLERON	(39)	
40	OUTBOARD ALLERON	(50)	
41	BODY	(51)	
43	FIRST BODY SECTION	(53)	
46	SECOND BODY SECTION	(56)	
48	THIRD BODY SECTION	(58)	
60	FOURTH BODY SECTION	(65)	
61	LANDING GEAR	(66)	
62	MAIN LANDING GEAR	(67)	
70	NOSE LANDING GEAR	(75) & (76)	
71	POWER PLANT		
80	COWLING*	(90)	
82	EMPELLAGE	(91)	
83	STABILIZER	(91)	
84	STABILIZER LEADING EDGE	(91)	
86	ELEVATOR	(92)	
87	FIN	(92)	
88	FIN LEADING EDGE	(92)	
89	RUDDER	(92)	
90	FIN TIP	(92)	

\* OUTBOARD ENGINES ONLY

BODY  
WL  
240.171

IND





R

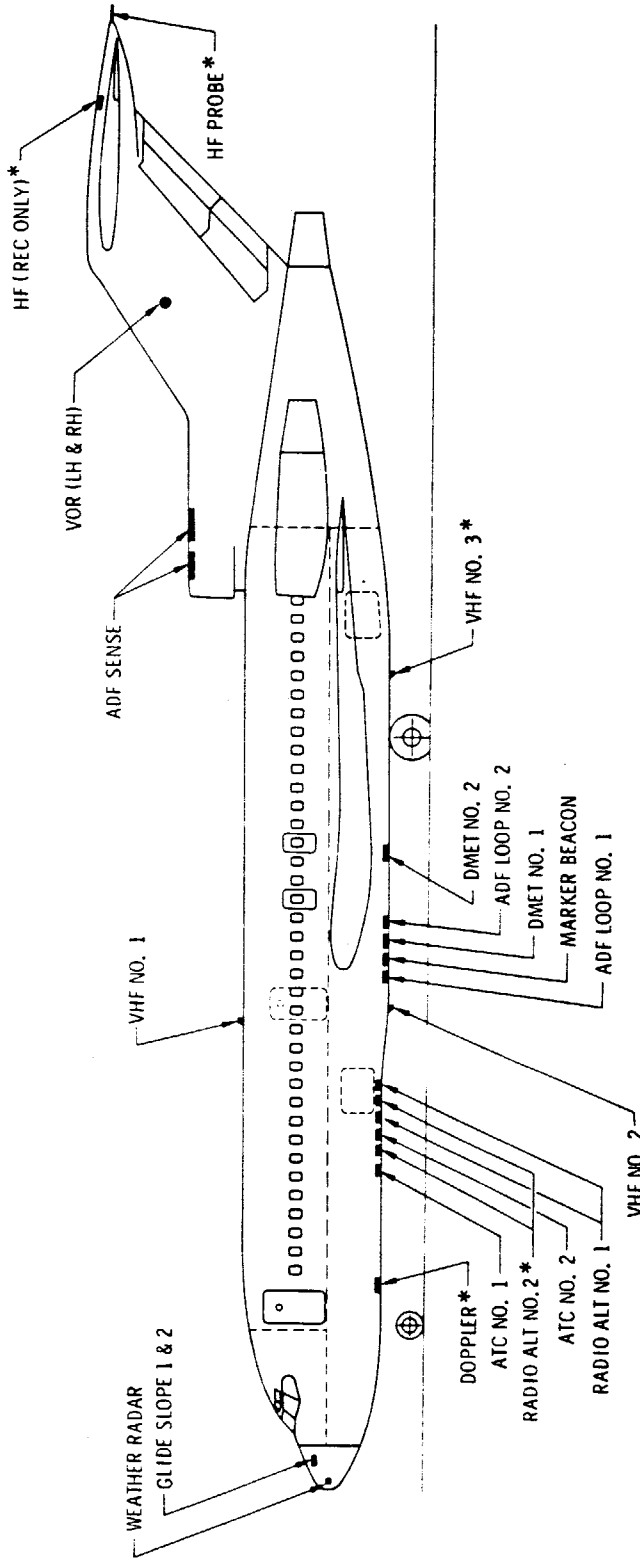
WARNING  
this is uncontrolled data

# CONTROL SURFACES

RUDDER & ANTI  
BALANCE TABS

COL TAB

STABILIZER



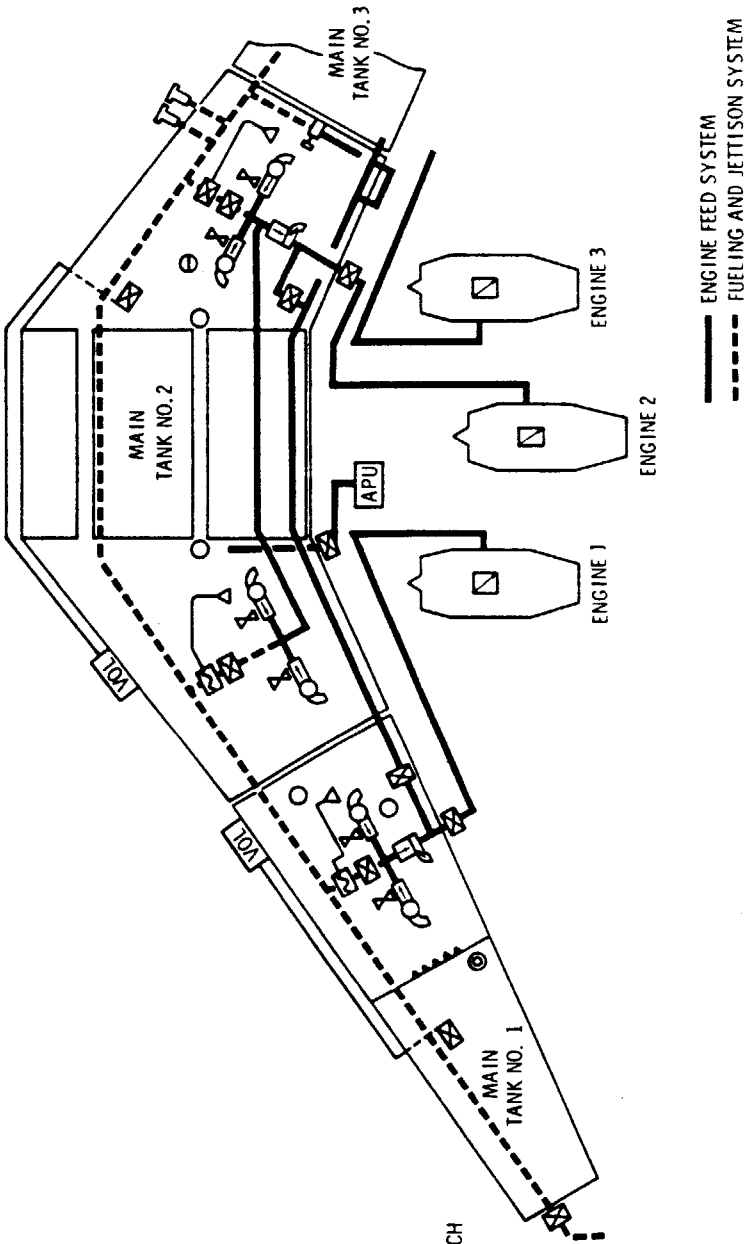
\* CUSTOMER OPTION

WARNING  
this is uncontrolled data

# ANTENNA LOCATIONS

WARNING  
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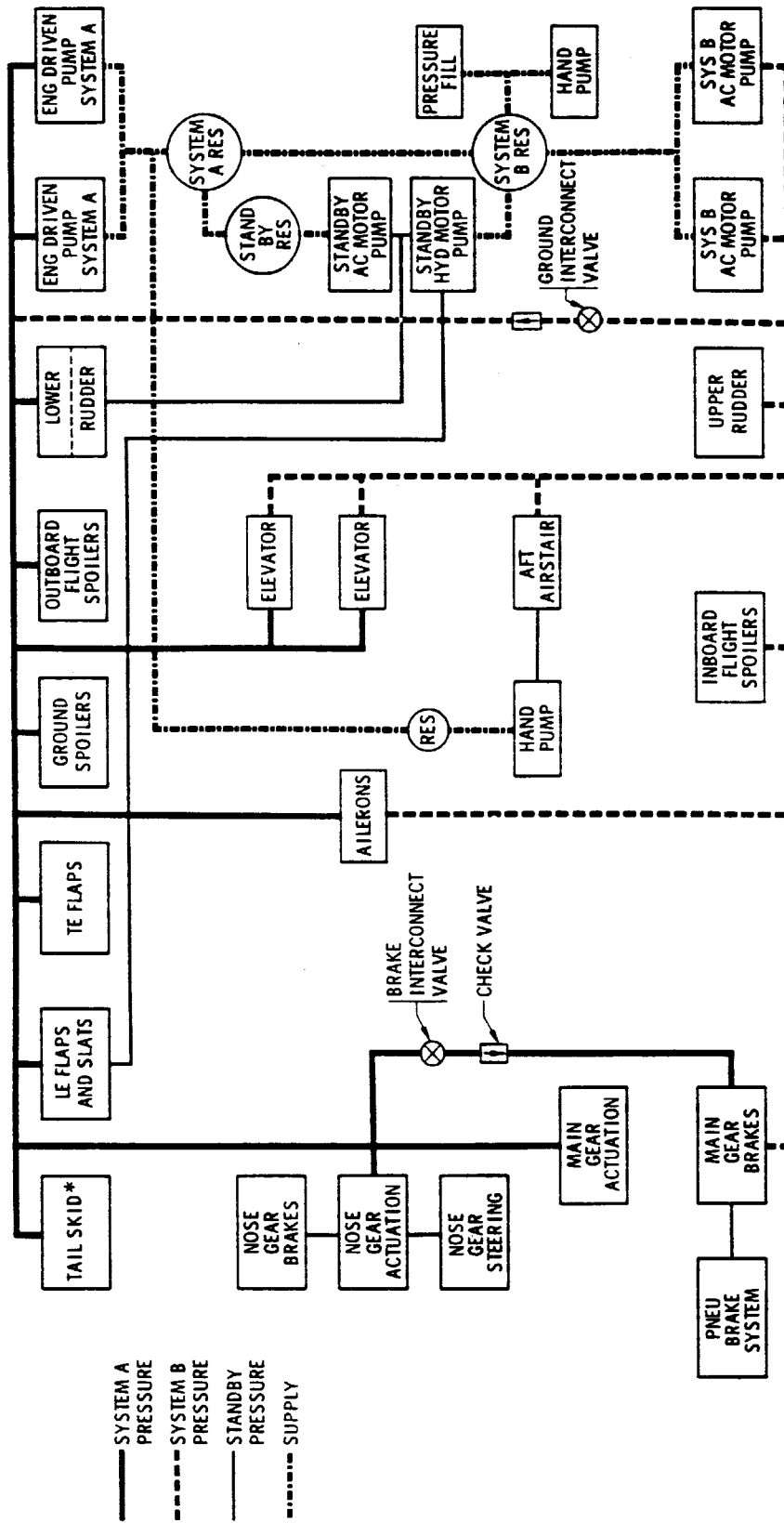
- ☐ DEFUEL VALVE-MANUALLY OPERATED
- ☒ SHUTOFF VALVE-DC ELECTRICALLY OPERATED
- ☑ JETTISON LEVEL CONTROL VALVE
- ☐ CHECK VALVE
- △ JETTISON LEVEL SENSOR
- ⊗ BOOST PUMP-AC ELECTRICALLY DRIVEN
- ☐ VOL TANK FULL VOLUME CONTROL
- ≡ BAFFLE CHECK VALVES
- ☐ GRAVIMETRIC RATE FLOWMETER
- ☐ BYPASS VALVE
- ⊗ LOW PRESSURE WARNING SWITCH
- ☐ PRESSURE FUELING ADAPTER
- ⊙ GRAVITY FILLER
- SUMP DRAIN VALVE
- ⊙ MEASURING STICK



**WARNING**  
this is uncontrolled data

# FUEL SYSTEM

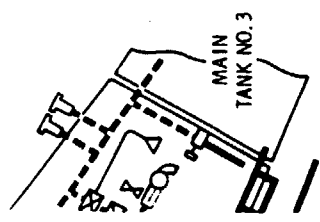
13



\*727-200 ONLY

**WARNING**  
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# HYDRAULIC SYSTEM

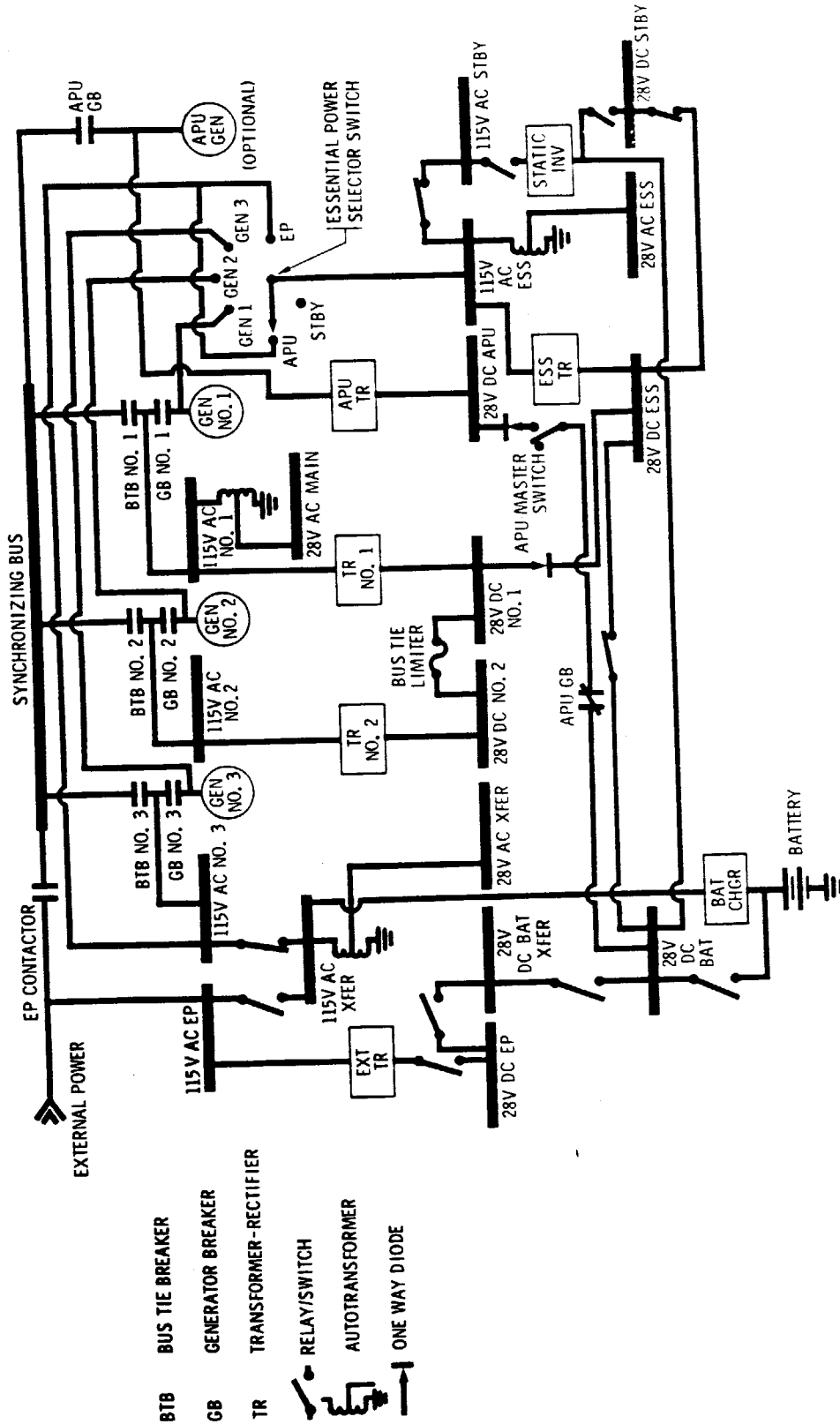


D SYSTEM  
ND JETTISON SYSTEM

**WARNING**  
this is uncontrolled data

- MACH/AIF INDICATO
- INSTANTA SPEED INI
- ALTIMETE
- CABIN AL AND DIFF PRESSUR
- MACH/SP SWITCH 1
- MACH/SP SWITCH 1
- AIR DAT/
- CABIN P CONTROL
- FLIGHT REC'D
- PROVIS AIR DAT

- MA
- VS
- ALT
- CA
- MS NO. 2
- MS NO. 1
- AD
- CP
- FL
- 

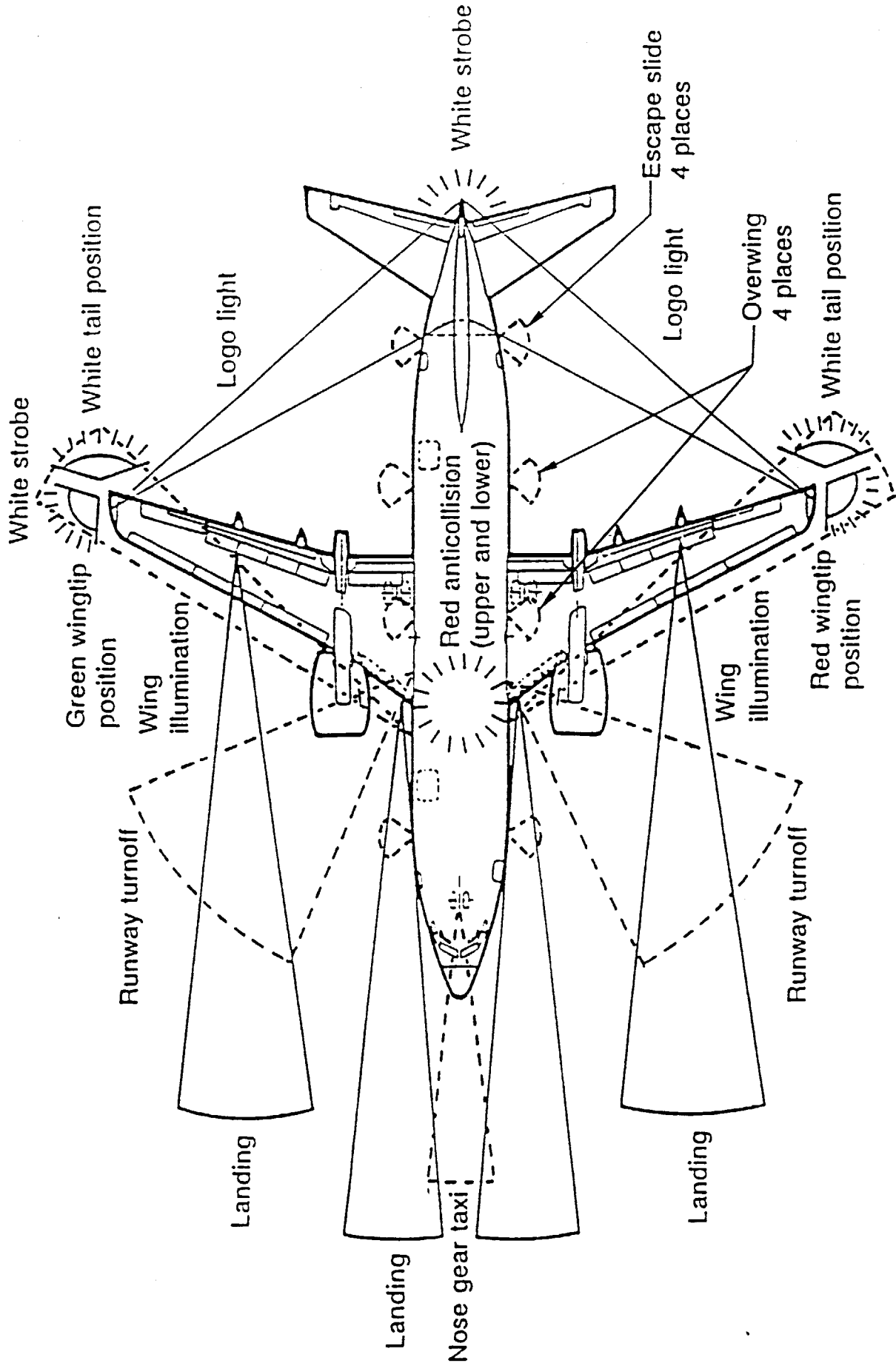


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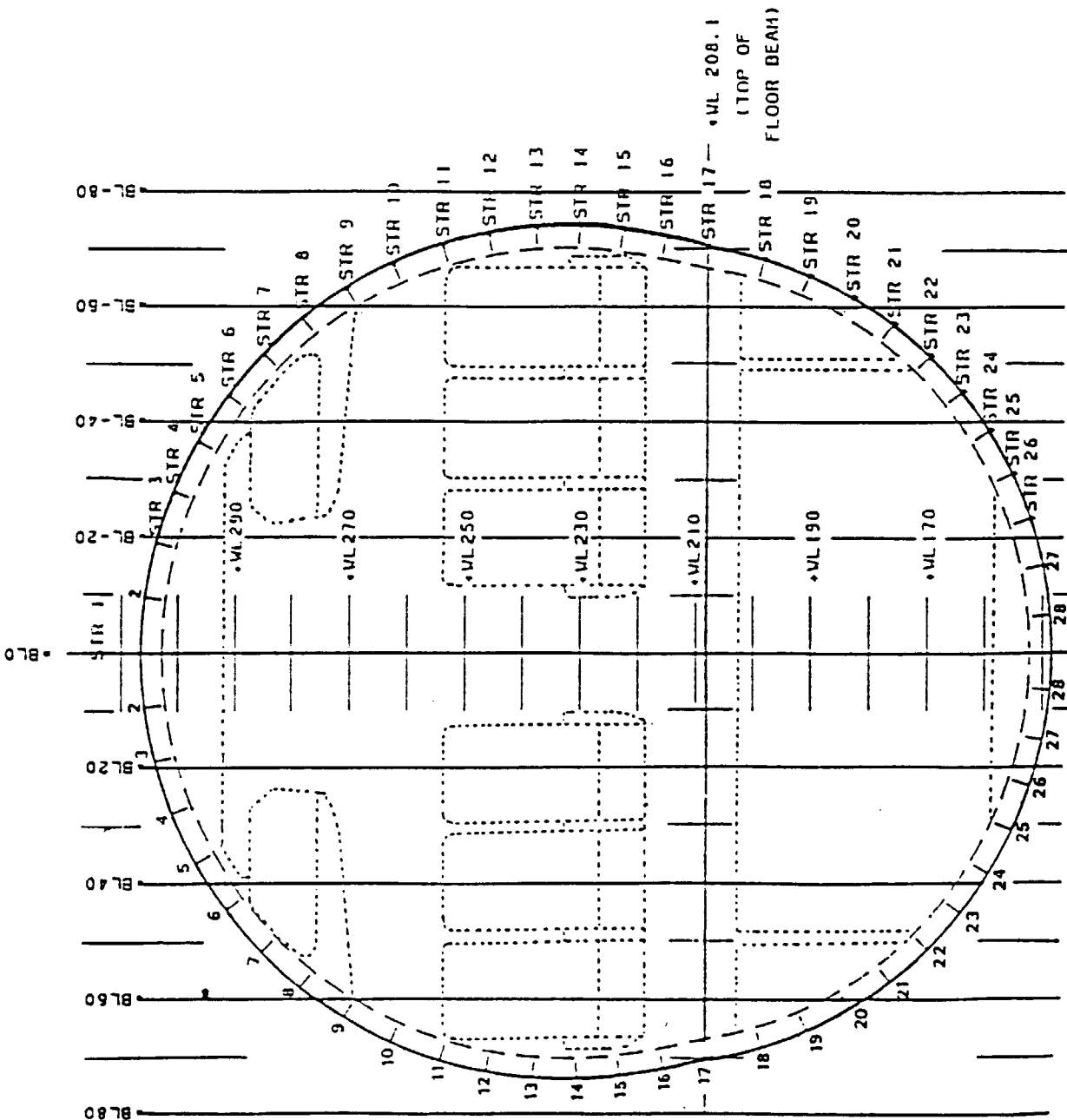
# ELECTRICAL SYSTEM

15

# Exterior Lighting



# Body Cross Section



## 737 STRINGER LOCATIONS

Drawing Ref.: 65C25124

Section 43 (BSTA 360 - 540) is shown with 28 stringers.

Section 46 (BSTA 727-1016) has 27 stringers. The lower lobe locations of Sec. 46 are in parenthesis ( ).

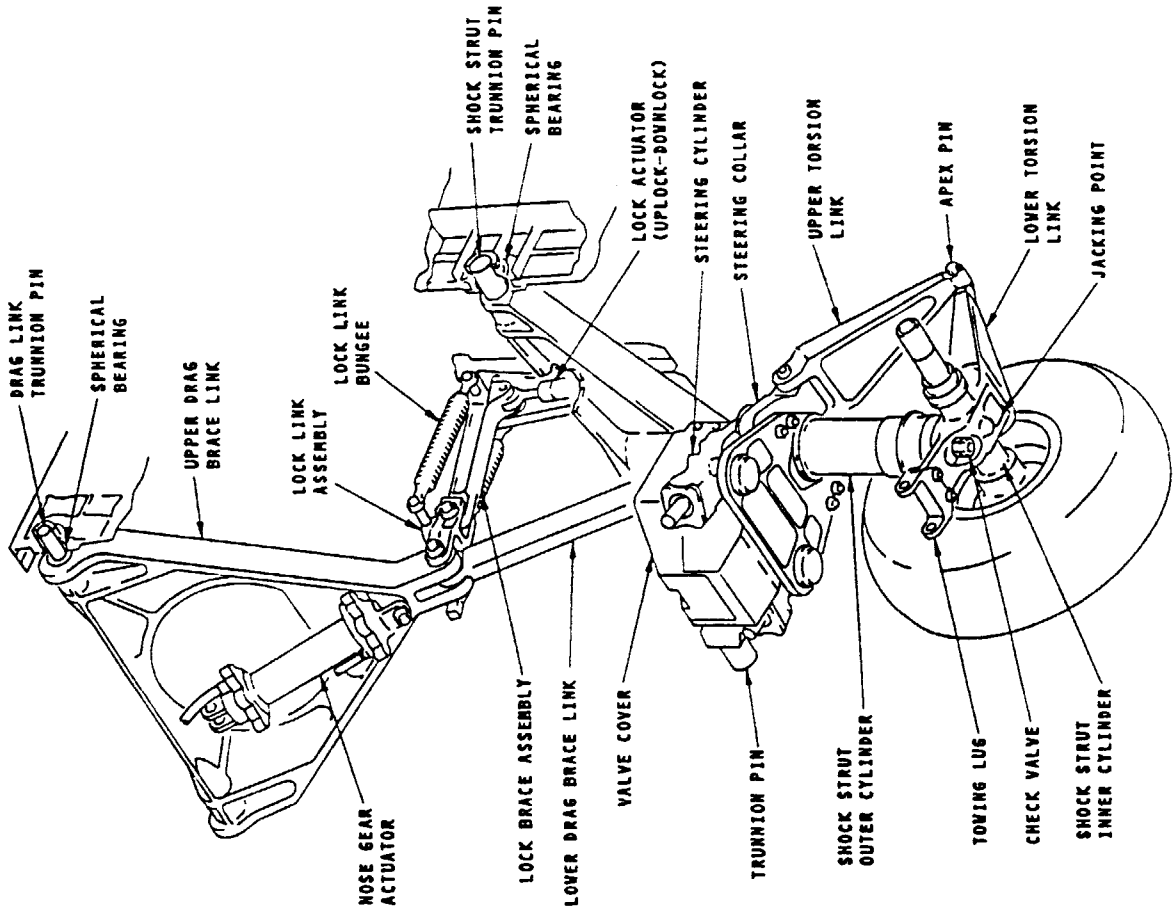
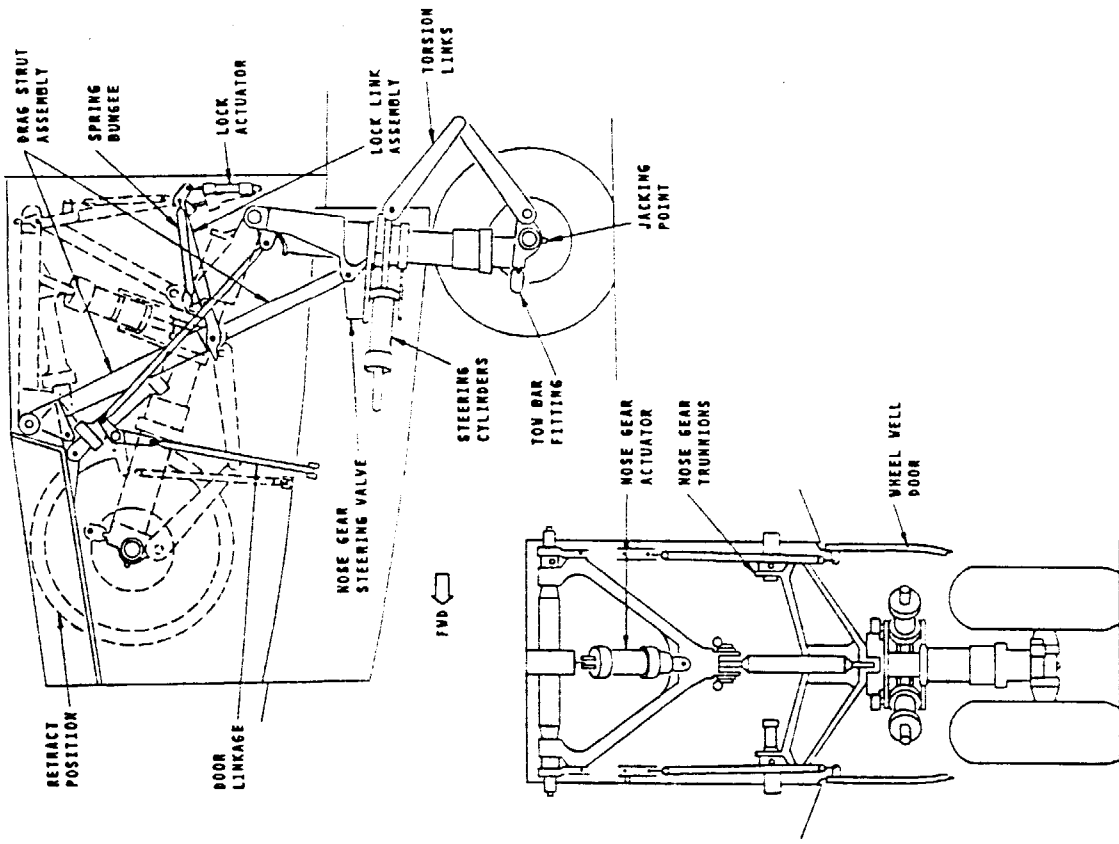
STR	WL	BL
1	306.5"	0.0"
2	305.9	9.6
3	304.0	19.0
4	301.0	28.1
5	296.8	36.7
6	291.5	44.7
7	285.2	52.0
8	278.4	58.1
9	270.8	63.3
10	262.7	67.6
11	245.1	70.8
12	246.1	72.2
13	238.0	73.8
14	230.3	74.0
15	222.8	73.4
16	215.3	72.1
17	188.8	68.6
18	198.2	68.4
19	(198.8)	(68.4)
20	190.3	65.5
21	(190.0)	(65.4)
22	182.9	61.7
23	(181.7)	(61.0)
24	175.9	57.0
25	(174.0)	(55.5)
26	169.6	51.5
27	(167.2)	(49.0)
28	164.1	45.3
	(161.3)	(41.6)
	159.2	38.5
	(156.4)	(33.5)
	155.3	31.1
	(152.7)	(24.9)
	152.2	23.3
	(150.2)	(15.8)
	150.1	15.3
	(148.8)	(6.5)
	148.8	6.5







# Nose Gear



## DRAWING REFERENCE:

Nose Land. Gear Instl

Nose L.G. Door Instl

65-73762

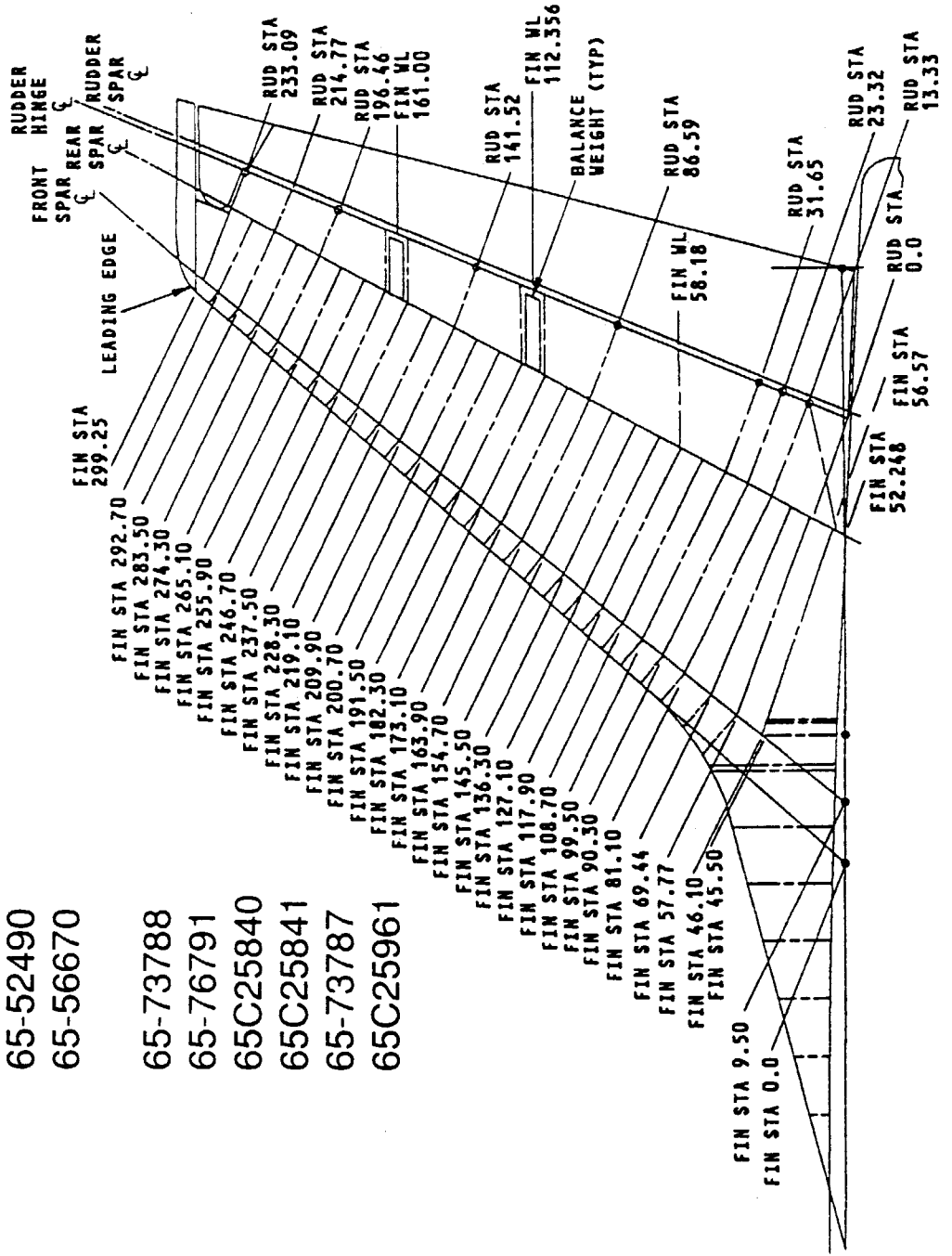
65C28111



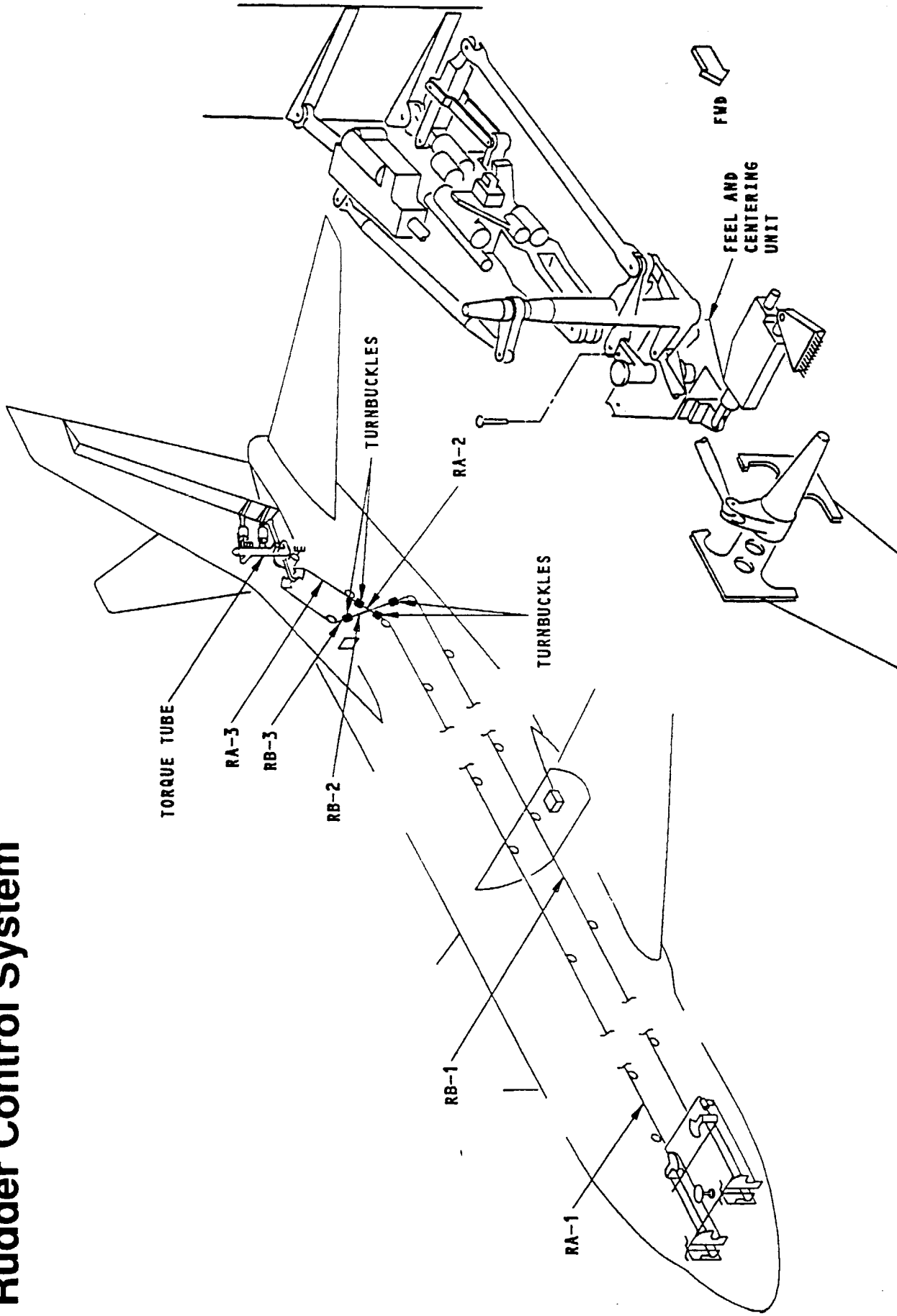
# Vertical Tail

**DRAWING REFERENCE:**

- 65C25812 Dorsel Fin Assembly
- 65-73713 V. Fin Center Line Dia.
- 65-73716 Vertical Fin Instl
- 65-73786 Vertical Fin Assembly
- 65-52490 Vert. Fin T.E. Beam
- 65-56670 Cone Installation
  
- 65-73788 Rudder Assembly
- 65-76791 Rudder Installation
- " "
- 65C25840 Ruder Structure
- 65C25841 Rudder Ribs
- 65-73787 Rudder Skin
- 65C25961



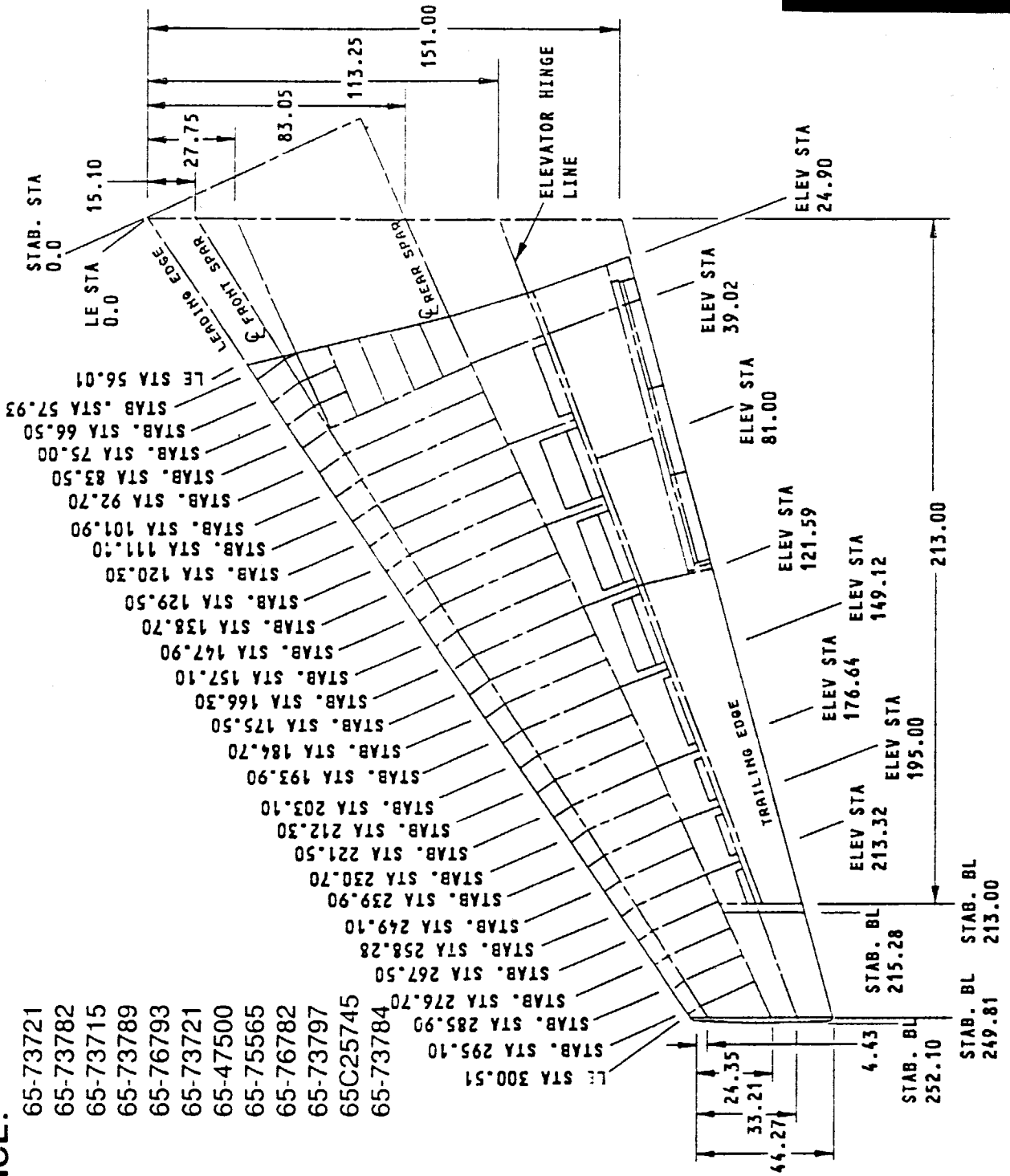
# Rudder Control System



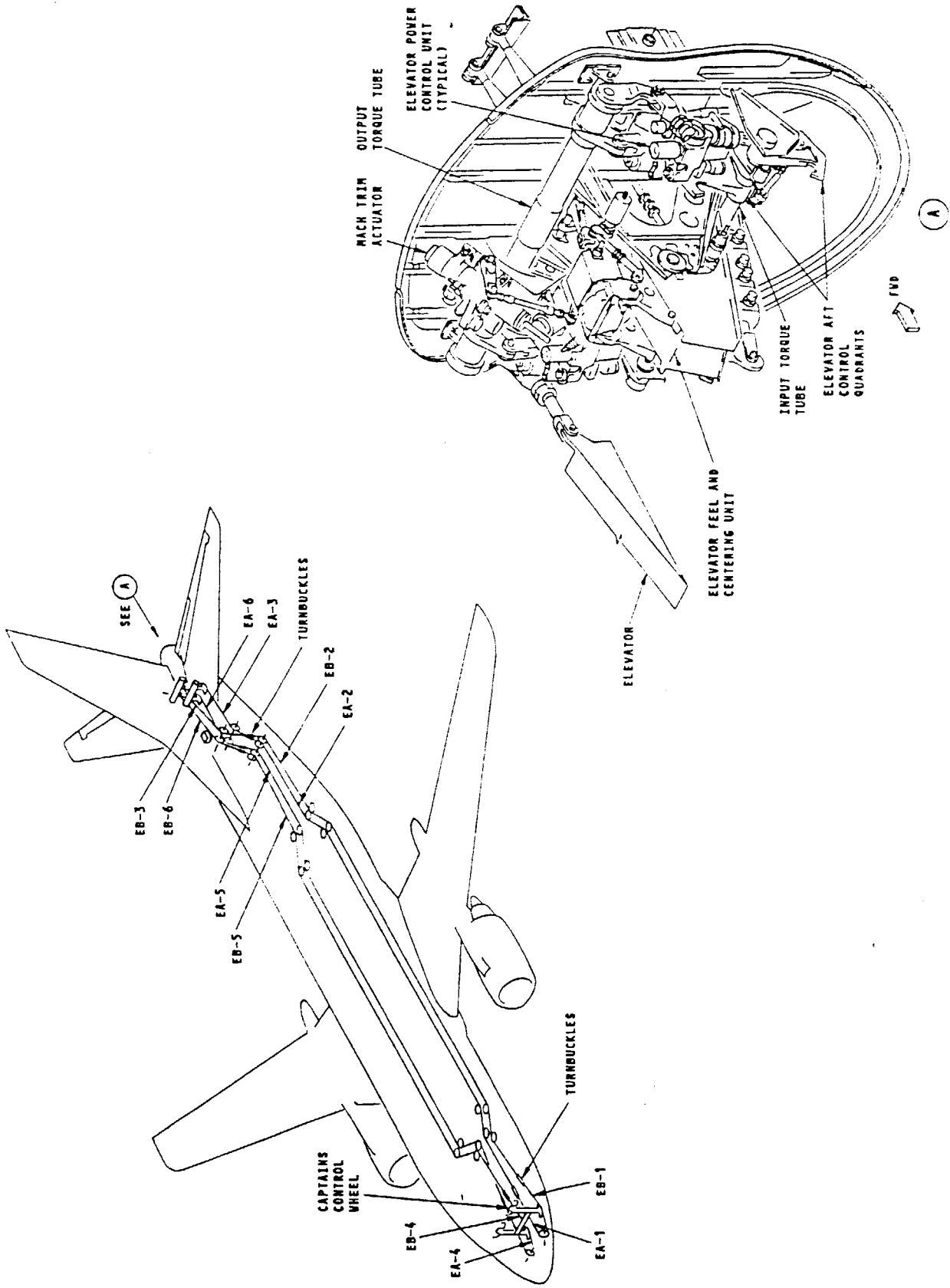
# Stabilizer

## DRAWING REFERENCE:

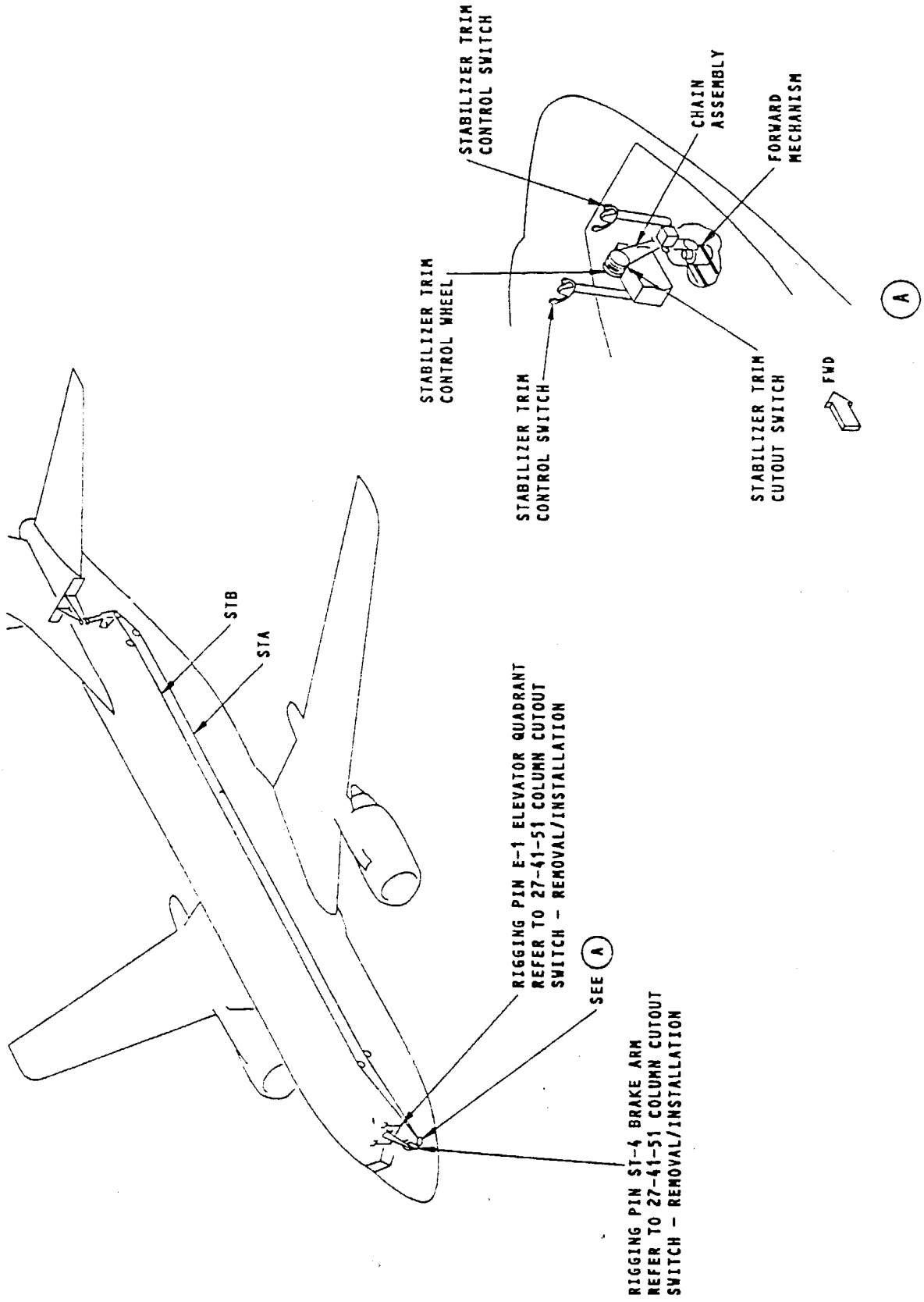
- 65-73721 Horiz. Stab Center Line
- 65-73782 Horizontal Stab Assy
- 65-73715 " "
- 65-73789 Horiz. Stab Tip Assy
- 65-76793 Horiz. Stab Tip Instl
- 65-73721 Horiz. Stab Ribs
- 65-47500 Horiz. Stab Spar
- 65-75565 Horiz. Stab T.E. Beam
- 65-76782 Horiz. Stab Skin
- 65-73797 Elevator Installation
- 65C25745 Elevator Installation
- 65-73784 Elevator Assembly



# Elevator Control System



# Stabilizer Trim System





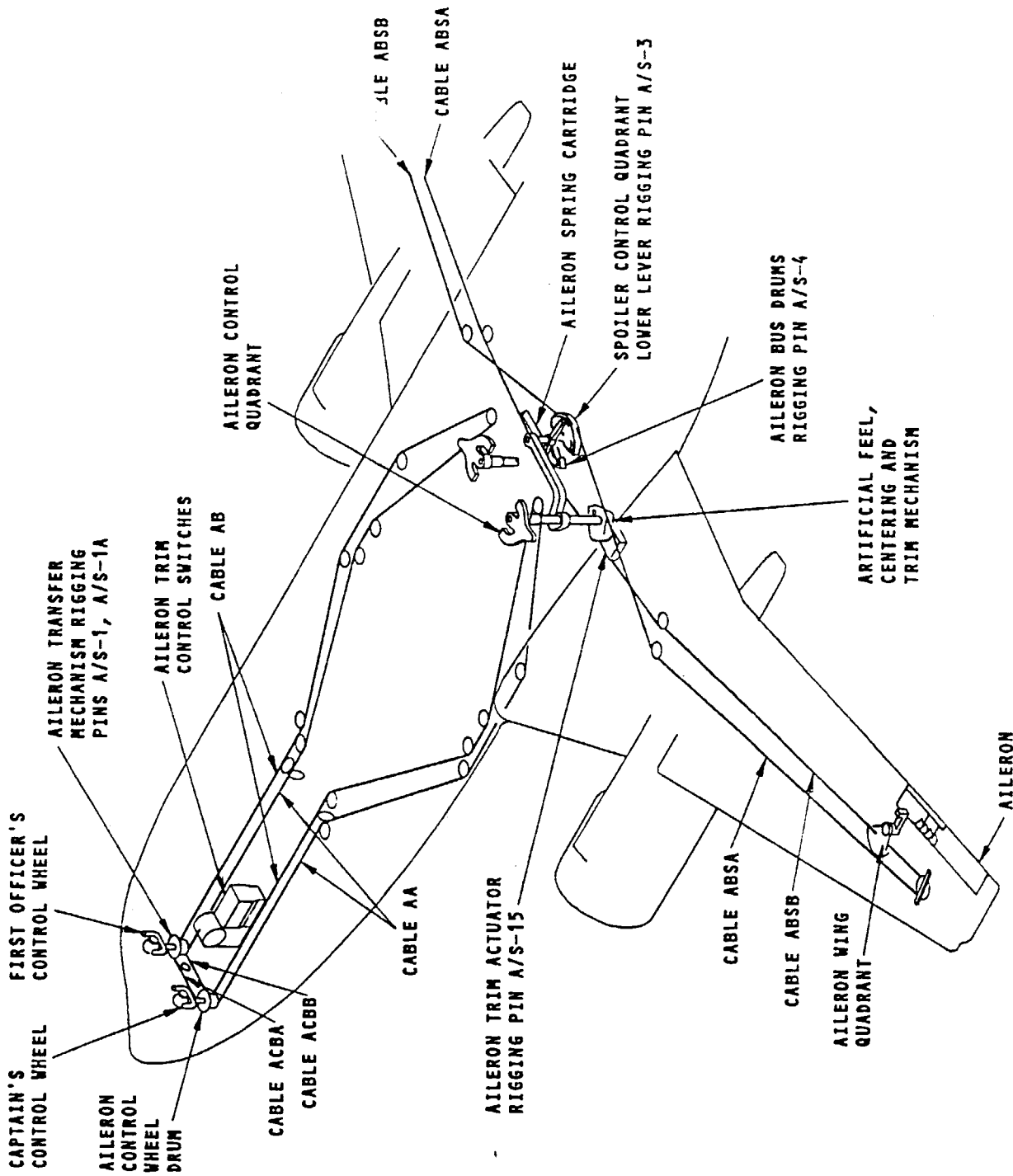


## Wing Structure Drawing

### DRAWING REFERENCE:

Wing Cntr Sec. Assembly	65-45411	Main Lnd. Gear Instl.	65-73761
Cntr Sec Struct Assy	65-45411	Main Lnd. Gear Door Instl	65-73718
Wing Station Diagram	65-45499		
Wing Assembly	65-73712	Inbd. T.E. Flap Struct	65-46430
Wing Tip Installation	65-73719	Inbd. T.E. Flap Instl	65-73731
Inbd Wing Struct Assy	65-45412	Otbd. T.E. Flap Instl	65-73732
Inbd Upper Panel	65-45407	T.E. Flap Track Fairing	65-49509
Inbd Lower Panel	65-45408		
Inbd Front Spar	65-45320	Aileron Structure	65C25914
Inbd Rear Spar	65-45321	Aileron Installation	65C25910
Inbd L.E. Fixed Struct	65C26700	Otbd Aileron Instl	65-73734
Otbd L.E. Fixed Struct	65C26200	Aileron Skin	65C25911
L.E. Flap Structure	65C30462	Inbd Spoiler Instl	65-73735
L.E. Slats	65C26600	Otbd Spoiler Instl	65-73730
L.E. Flap & Slat Instl	65-73714		
Wing Tip Installation	65-73719		

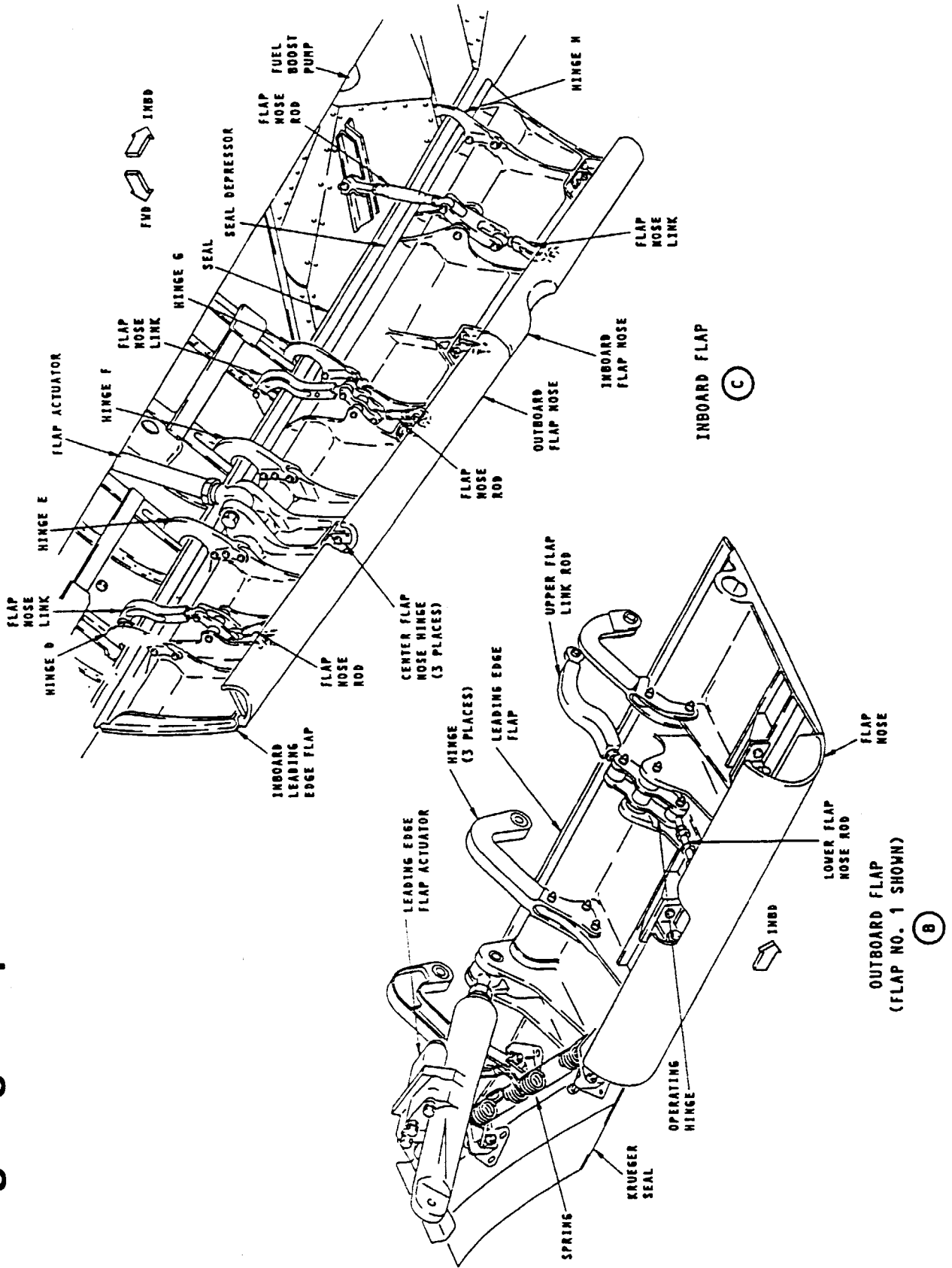
# Aileron Control System



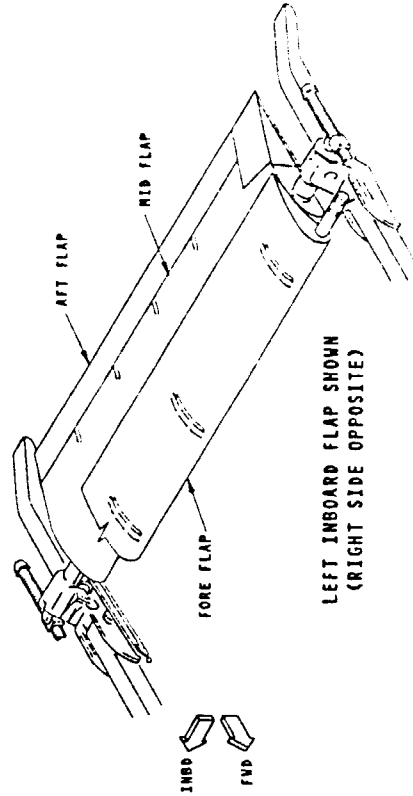
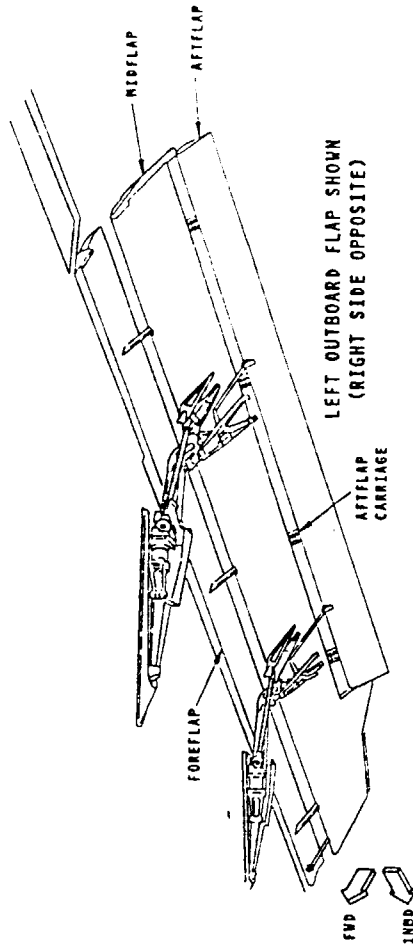
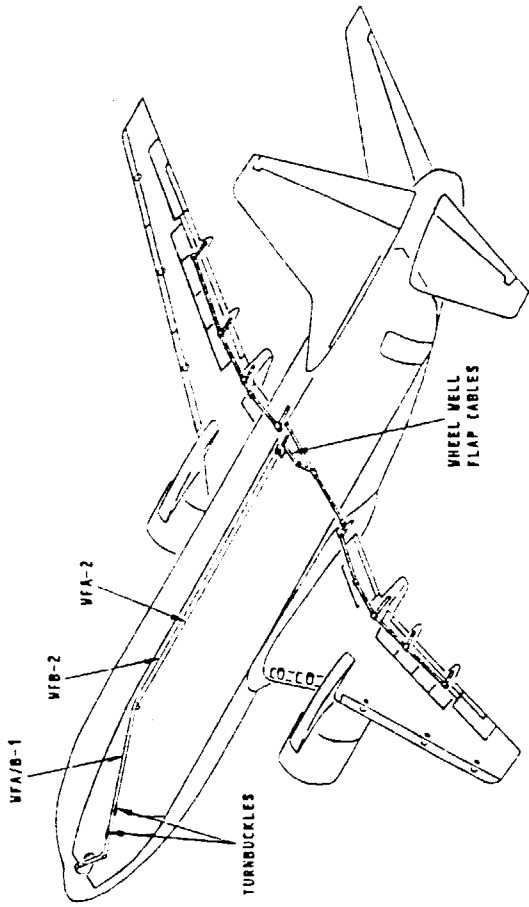




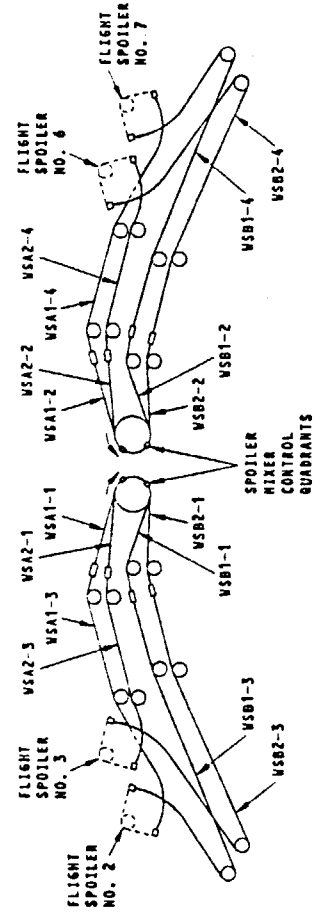
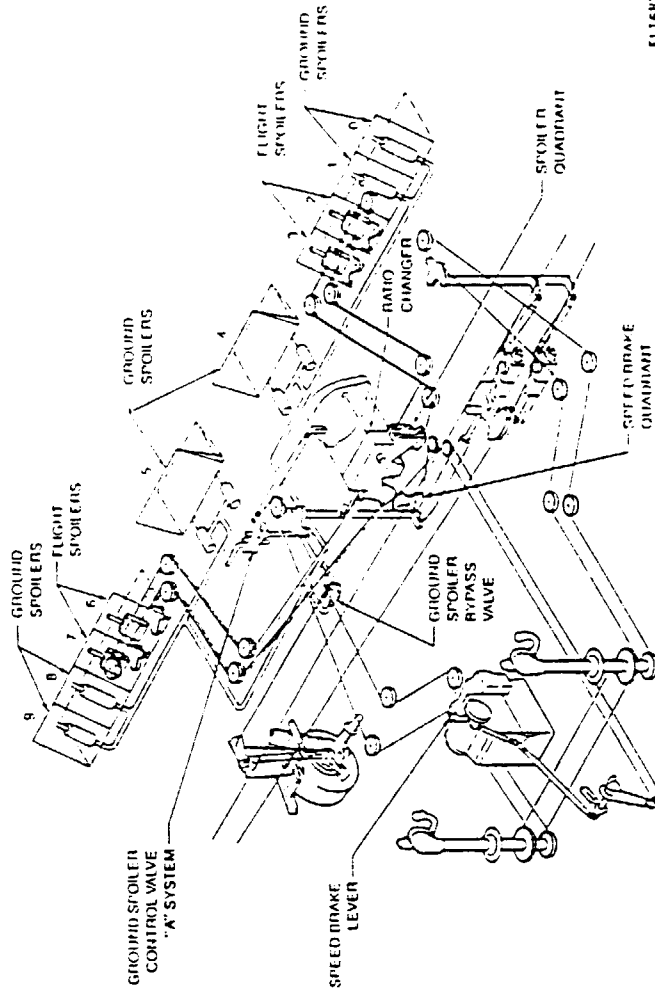
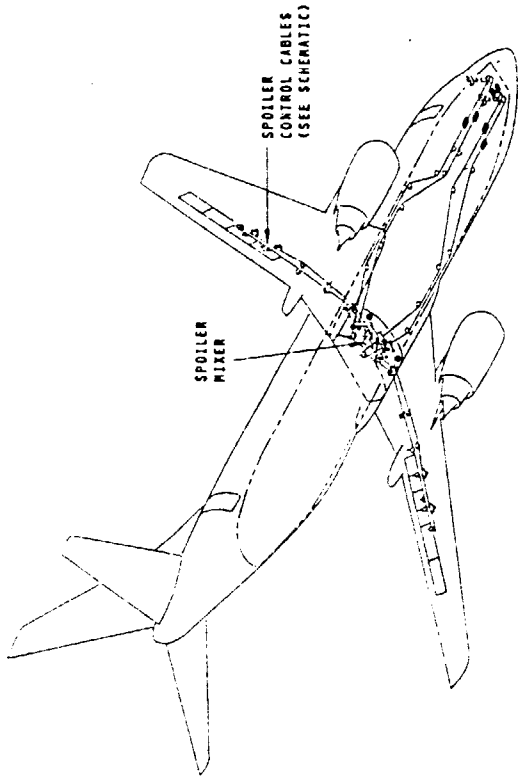
# Leading Edge Flaps



# Trailing Edge Flaps

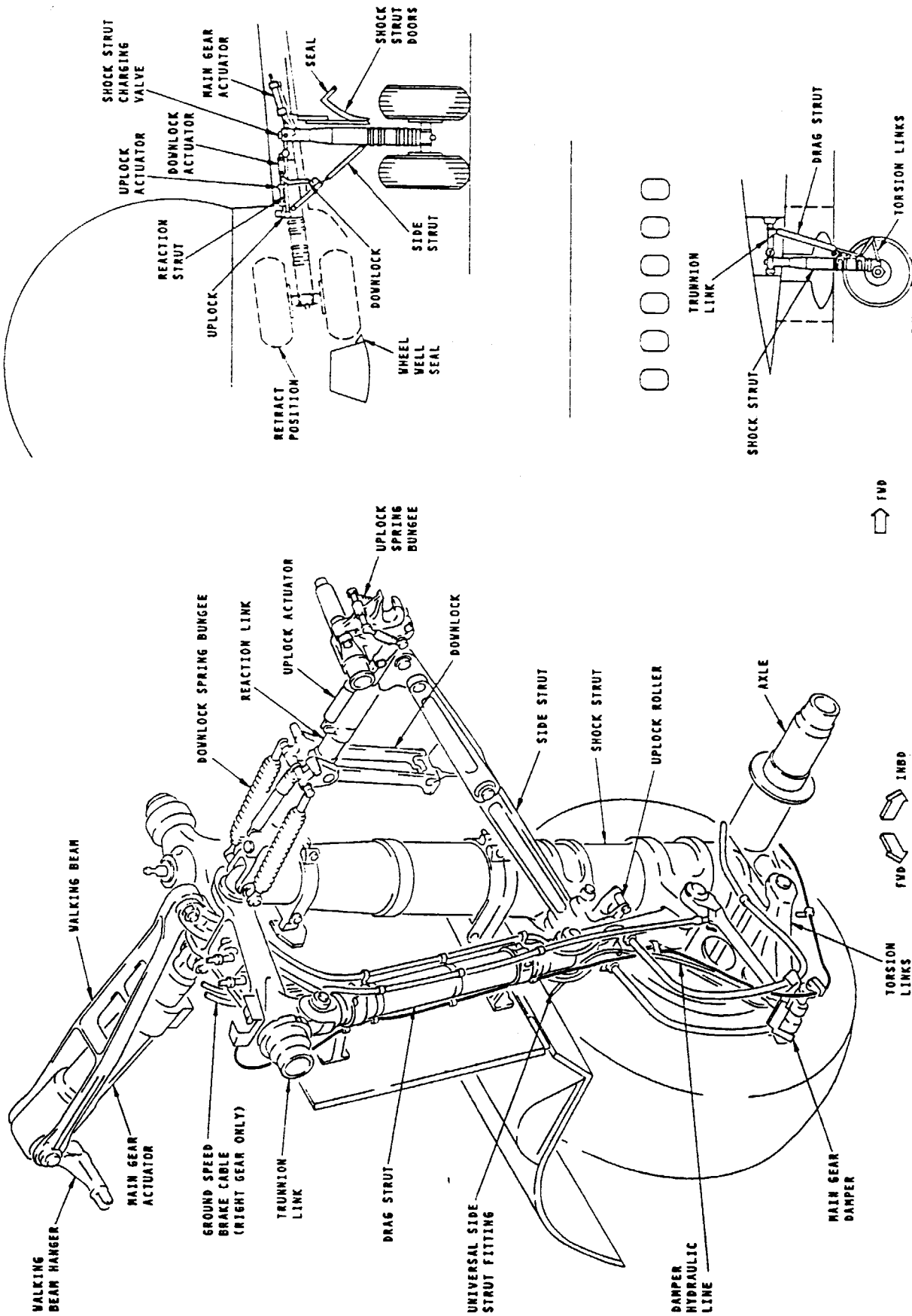


# Spoiler Control System



FLIGHT SPOILER CABLE SCHEMATIC

# Wing Main Gear

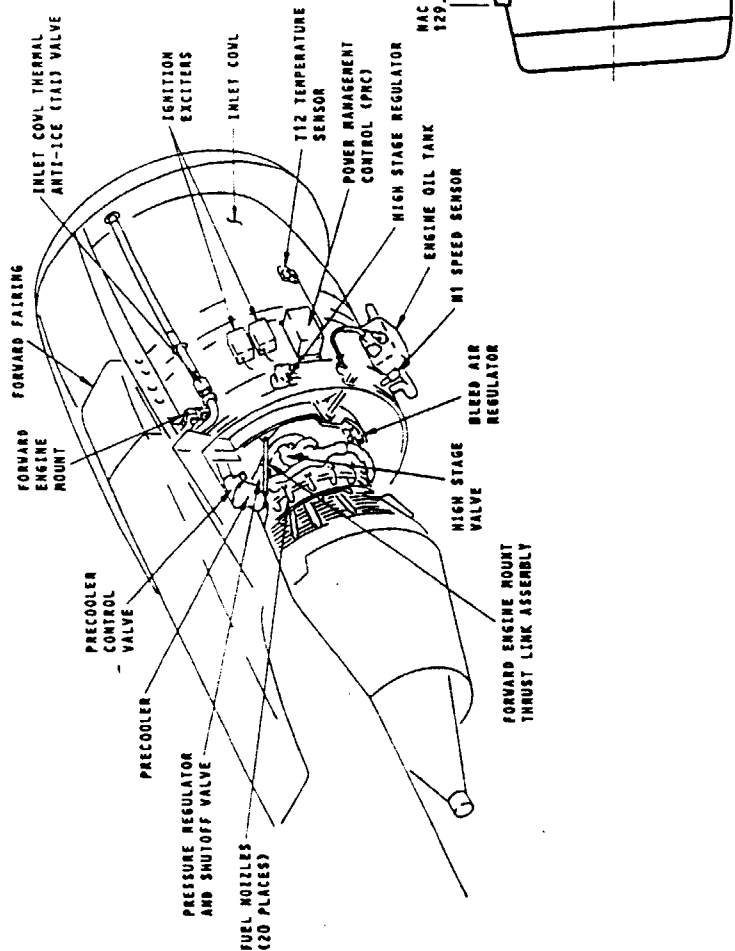
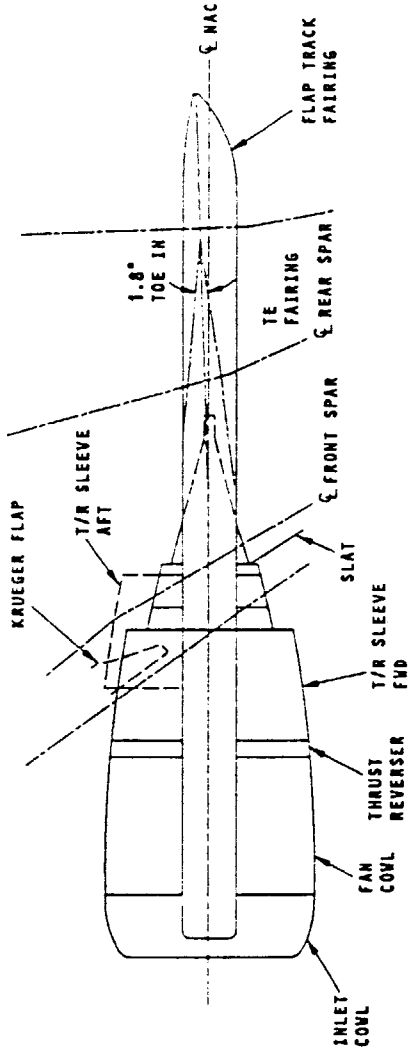




# Engine and Strut

## DRAWING REFERENCE:

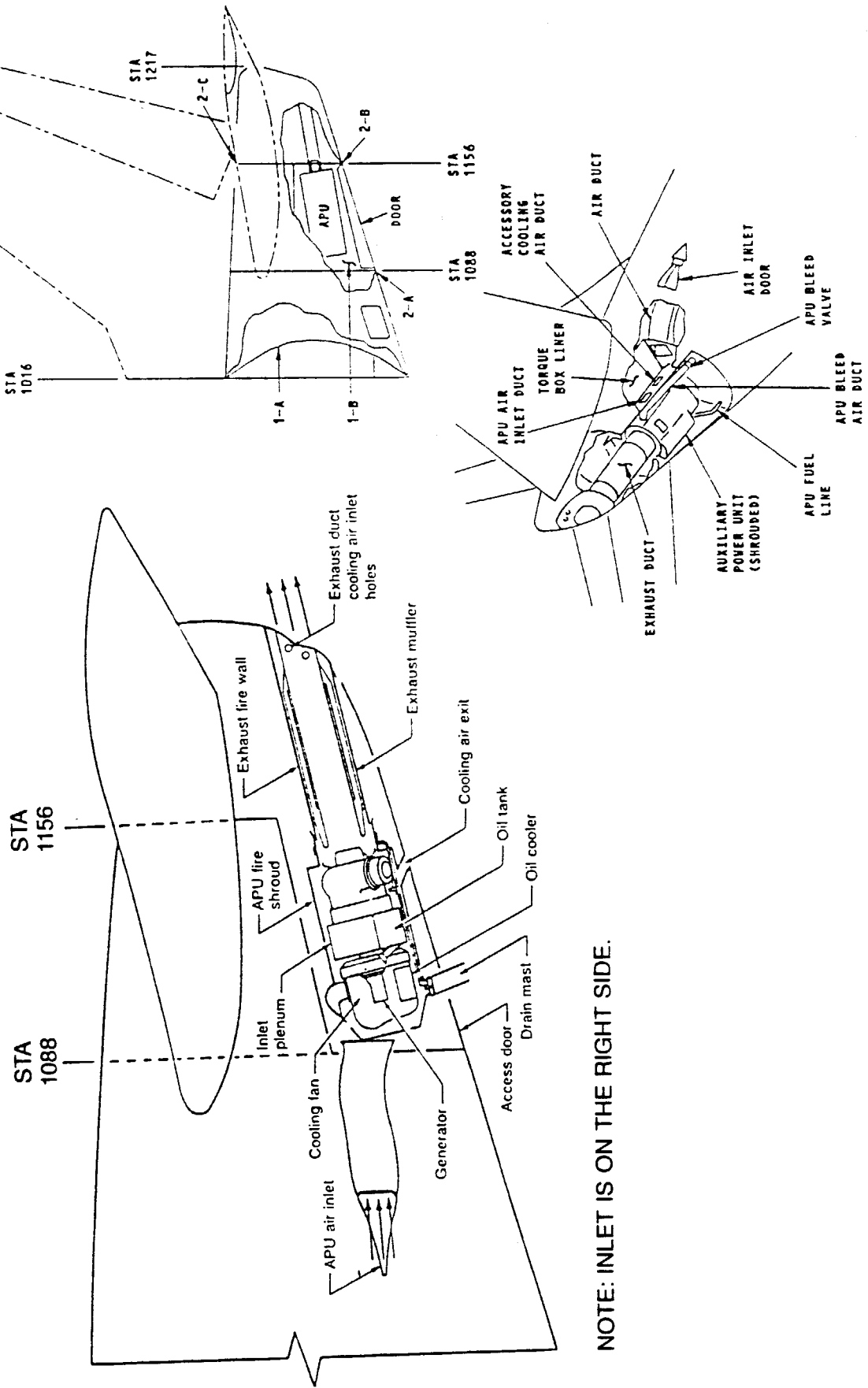
- 310A1050 Strut Insl - CFM56-3
- 311A1000 Strut Skin
- 310A1000 Power Plant Installation
- 65-73768
- 65-73769 Power Plant Assembly
- 315A1000 Fan, Duct, Cowl, Thrust
- 315A1500 Fan Duct Cowl
- 330A1010 Inlet Cowl Assembly
- 314A1110 Fan Cowl Structure
- 310A1080 Fan Cowl Assembly
- 333A1000 Primary Exhaust Insl
- 65-50904 APU Door Insl



FWD ←

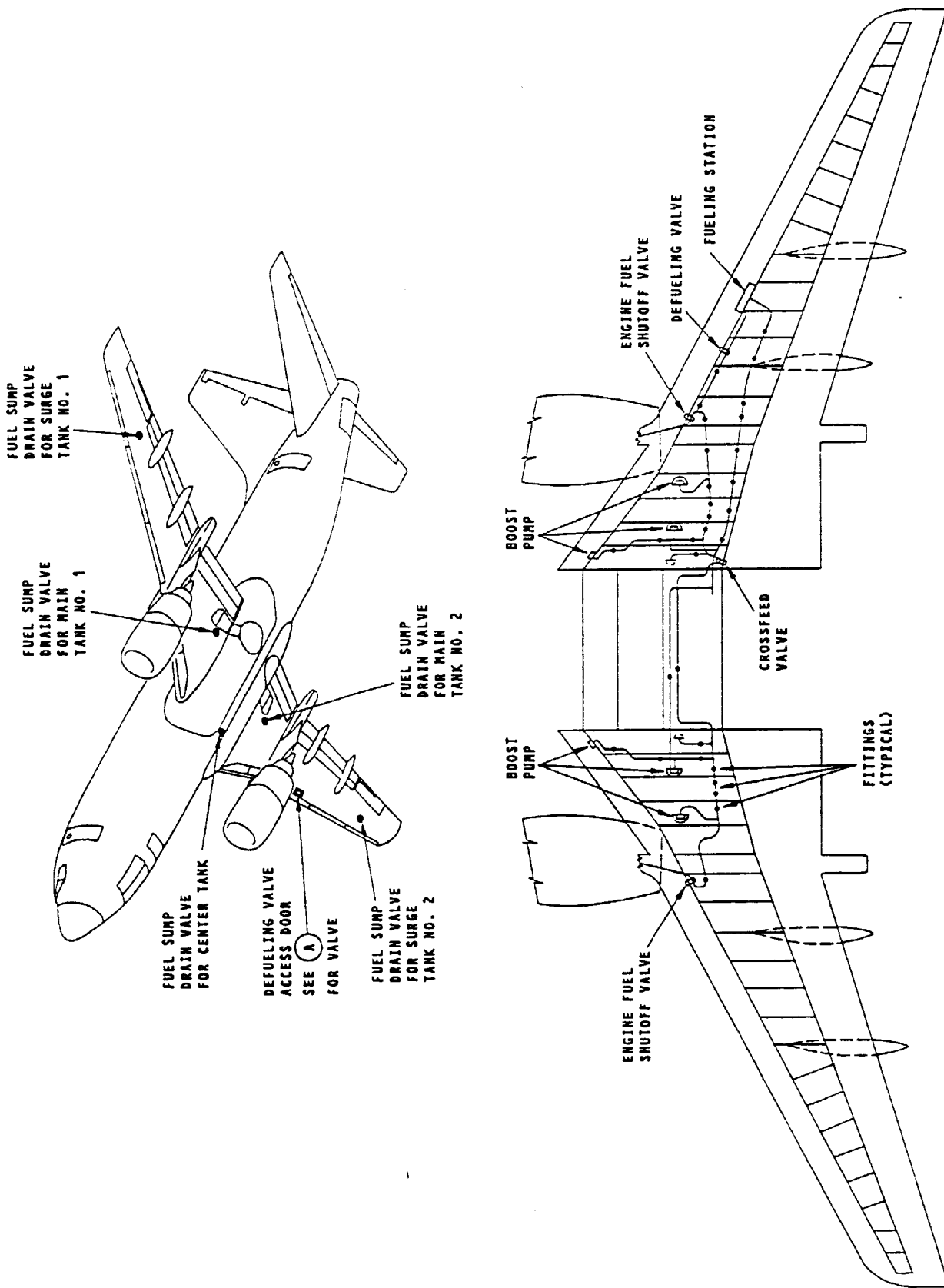
# APU Components

ENGINES AND FUEL STRUTS AND FUEL

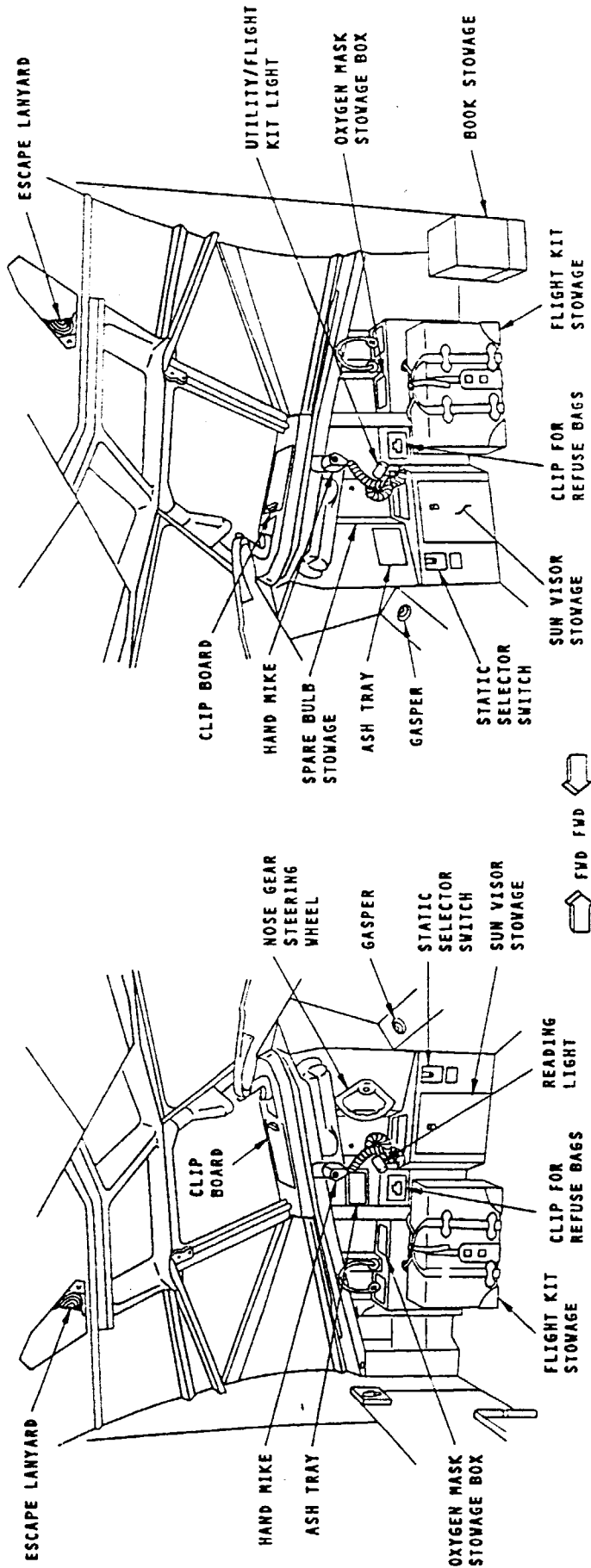


NOTE: INLET IS ON THE RIGHT SIDE.

# Fuel Tank Arrangement



# Flight Deck Sidewalls

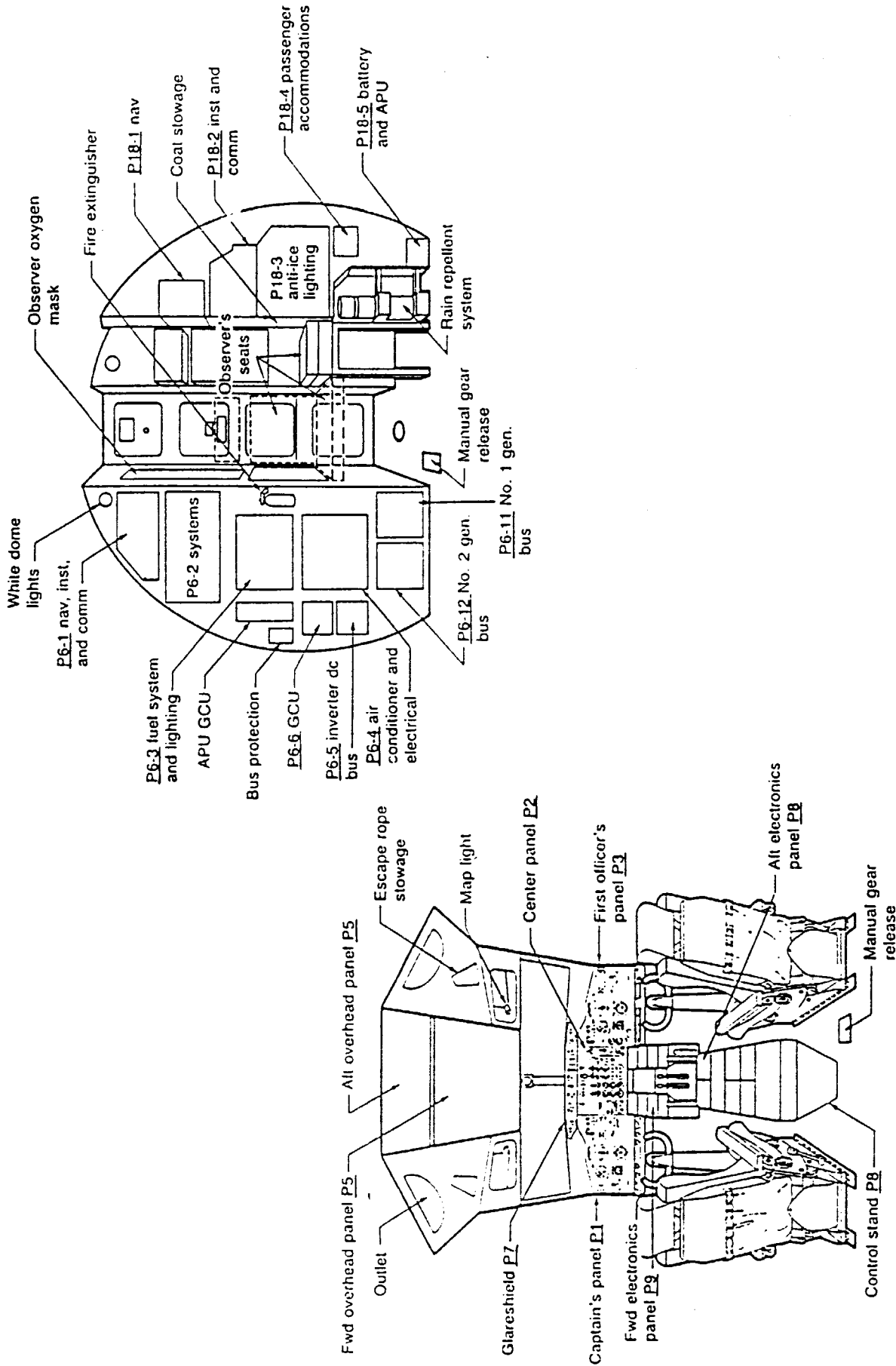


FIRST OFFICER'S SIDEWALL

CAPTAIN'S SIDEWALL

FLIGHT DECK  
AID ELECTRONICS

# FWD & AFT Flight Deck P-Panel Arrangement



NO PAGE 36

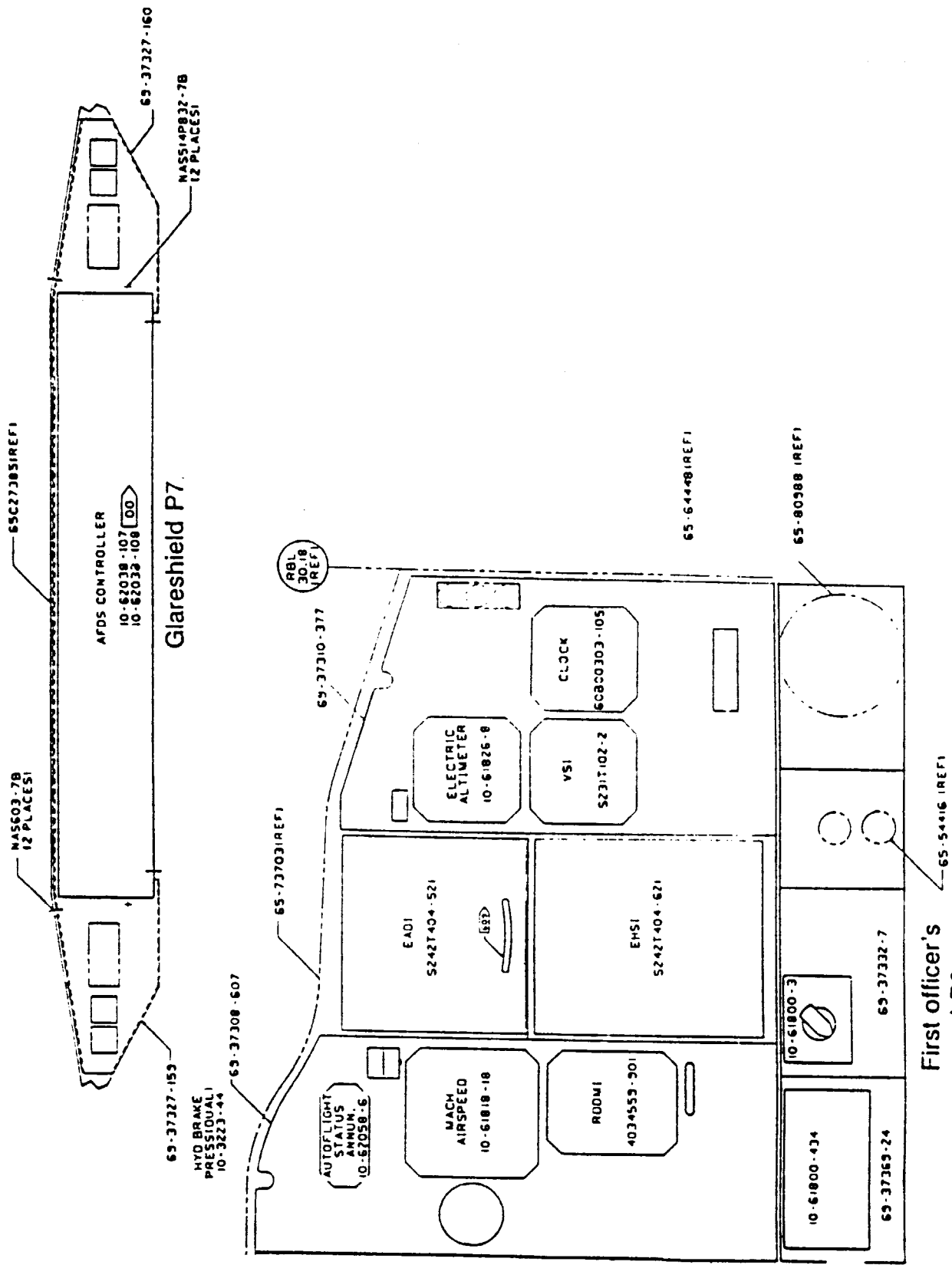
# Instrument Module Location

Part Number	Module Name	Location	Part Number	Module Name	Location	Part Number	Module Name	Location
10-3223-44	HYD BRAKE PRESS.	P3	69-37321-57	EL.METR,BAT.GALLEY	P5-13			
10-60775-6	YAW DAMPER	P2	69-37324-18	CABIN TEMP	P5-17			
10-61209-15	CABIN PRESSURE	P5	69-37325-129	FLT REC/MACH WARN	P5-19			
10-61219-93	FUEL QUANTITY	P2	69-37334-12	CABIN ALT/RATE CLMB	P5-16			
10-61826-8	EL.ALTIMETER	P1, P3	69-37335-129	FUEL SYSTEM	P5-2			
10-61818-18	MACH AIRSPEED	P1, P3	69-37344-30	VHF NAV.	P5-28			
10-61926-4	FLAP POSITION	P2	69-37346-123	WNDW/PITOT ST.HEAT	P5-9			
10-62042-101	IRS-CDU	P5	69-37352-30	DOOR WARNING	P5-20			
10-62044-001	FMCS-CDU	P9	69-61800-1456	OXYGEN SYSTEM	P5-14			
10-62058-6	AUTOFLIGHT ST.	P1, P3	96-73703-5	RUDDER TRIM	P8-43			
10-62090-60	AUDIO SELECTOR	P8-6	69-73713-12	IRS MODE SELECTOR	P5-69			
"	"	P8-7	69-73614-47	POWER MANG.CONTROL	P5-68			
"	"	P5-15	69-75978-1	STALL WARNING	P5-18			
10-62178-101	PRIM.ENG.DISP.	P2	69-76346-7	STAB TRIM,DR.UNL.	P8-47			
105	"		69-76435-5	FLOOD LIGHT PNL	P8-50			
201	SEC. ENG.HYDR.	P2	H341BAM	STNDBY HORIZON	P2			
202	"		POO507	MIC/MONITOR PANEL	P5			
162BL903	CABIN TEMP	P5-17	P00802	VHF-COMM-1	P8			
4034559-901	RDMI	P1, P3	P00803	VHF-COMM-2	P8			
607400-1-1	CABIN TEMP SELECT(2)	P5-17	P00804	ADF-1	P8			
60800303-105	CLOCK	P1, P3	P00825	VHF NAV-1	P8			
69-37307-145	ENG./APU FIRE	P8	P00826	VHF NAV-2	P8			
69-37313-104	FLT CONTROL	P5-3	P00829	DUAL ATC	P8			
69-37314-41	AC SYS.GEN. & APU	P5-4	P10-0090002	FLAP SLATS ANNUN.	P5-12			
69-37315-75	GEN./STNDBY POWER	P5-5	S242T404-310	EFIS CONTROL	P8-48			
69-37317-64	HYD. PUMPS	P5-8	"	"	P8-49			
69-37319-122	AIR CONDITION	P5-10	S231T102-2	VSI	P1, P3			
69-37320-104	ENG./WING ANTI-ICE	P5-11	S242T404-521	EADI	P1, P3			
			S242T404-621	EHSI	P1, P3			
			WL102AMS3	STNDBY ALTIMTR	P2			

FLIGHT DECK  
AND ELECTRONICS



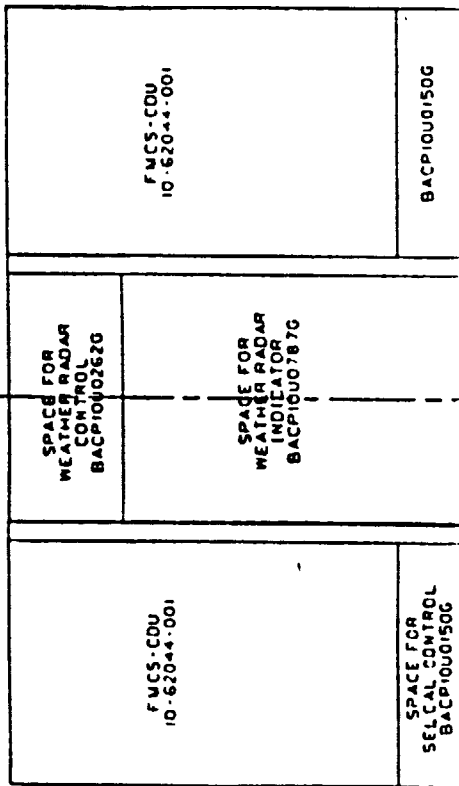




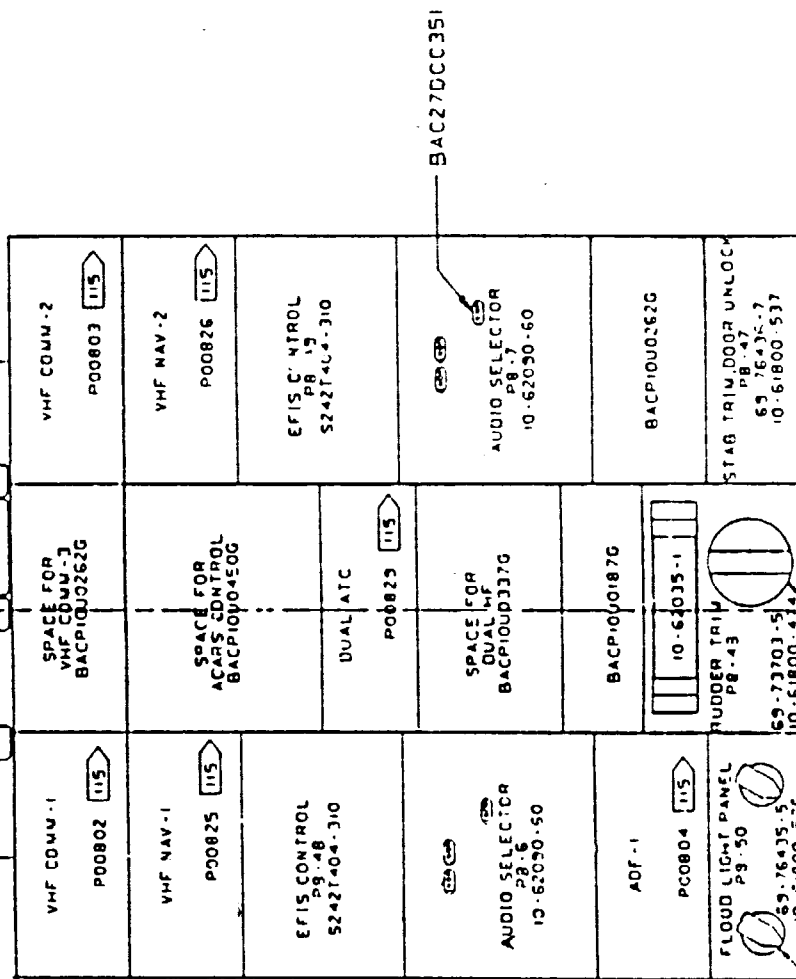
# Flight Deck Center Console

69-37307-145  
10-61800-480  
10-61800-481

ENGINE & APU FIRE CONTROLS, PB-1  
BAC270CC344



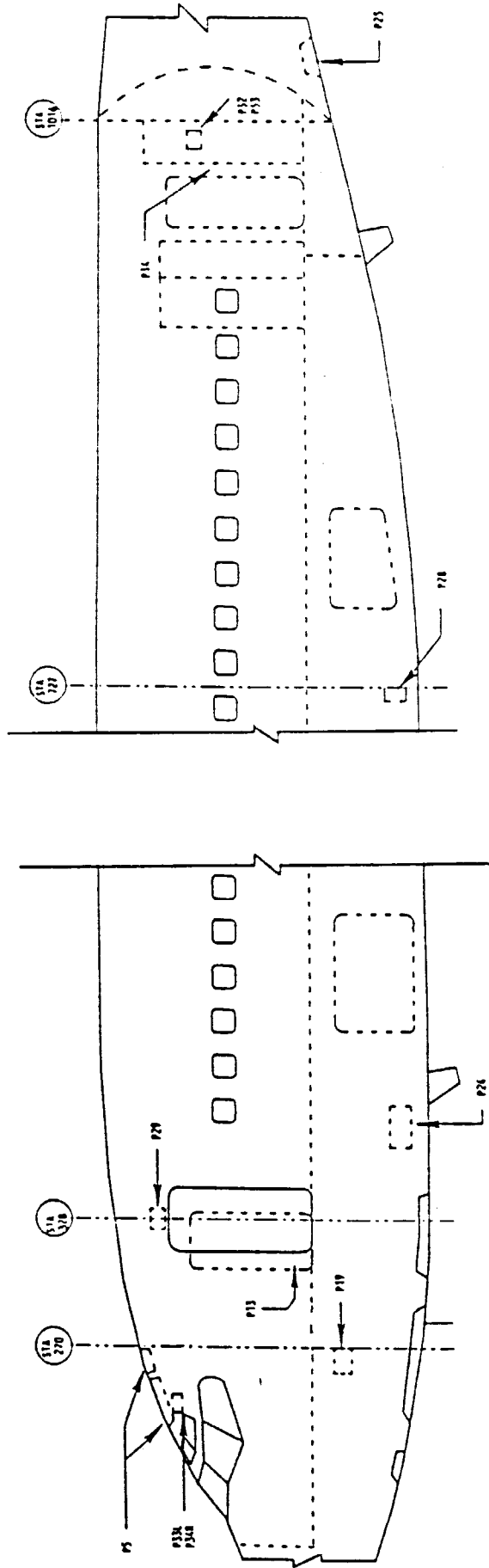
FWD ELECTRONICS PANEL, P9



AFT ELECTRONICS PANEL, P8

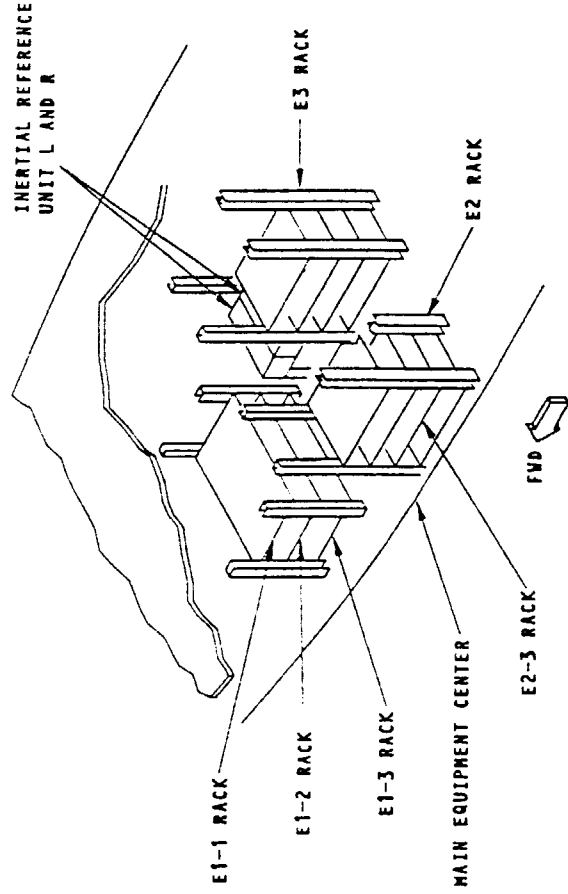
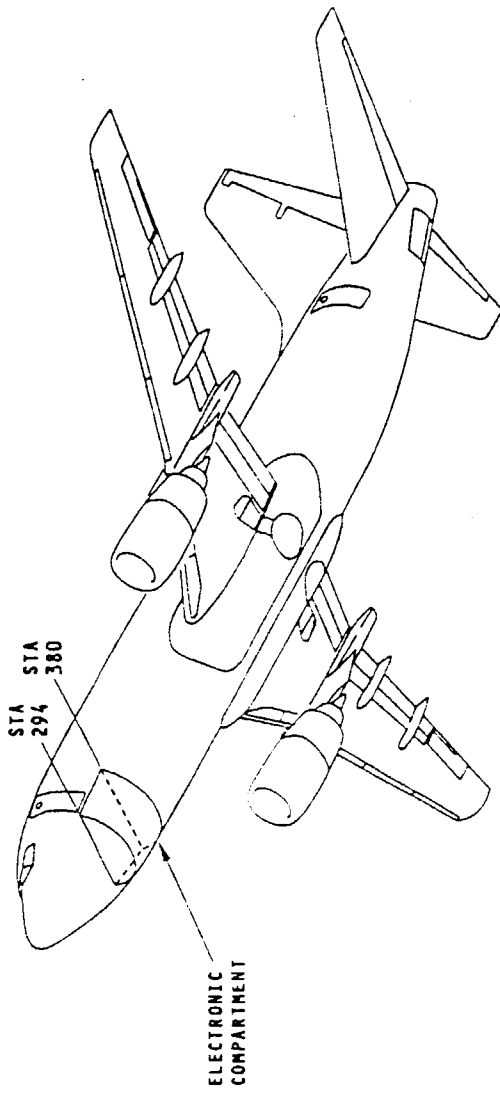


# Airplane Panel Location



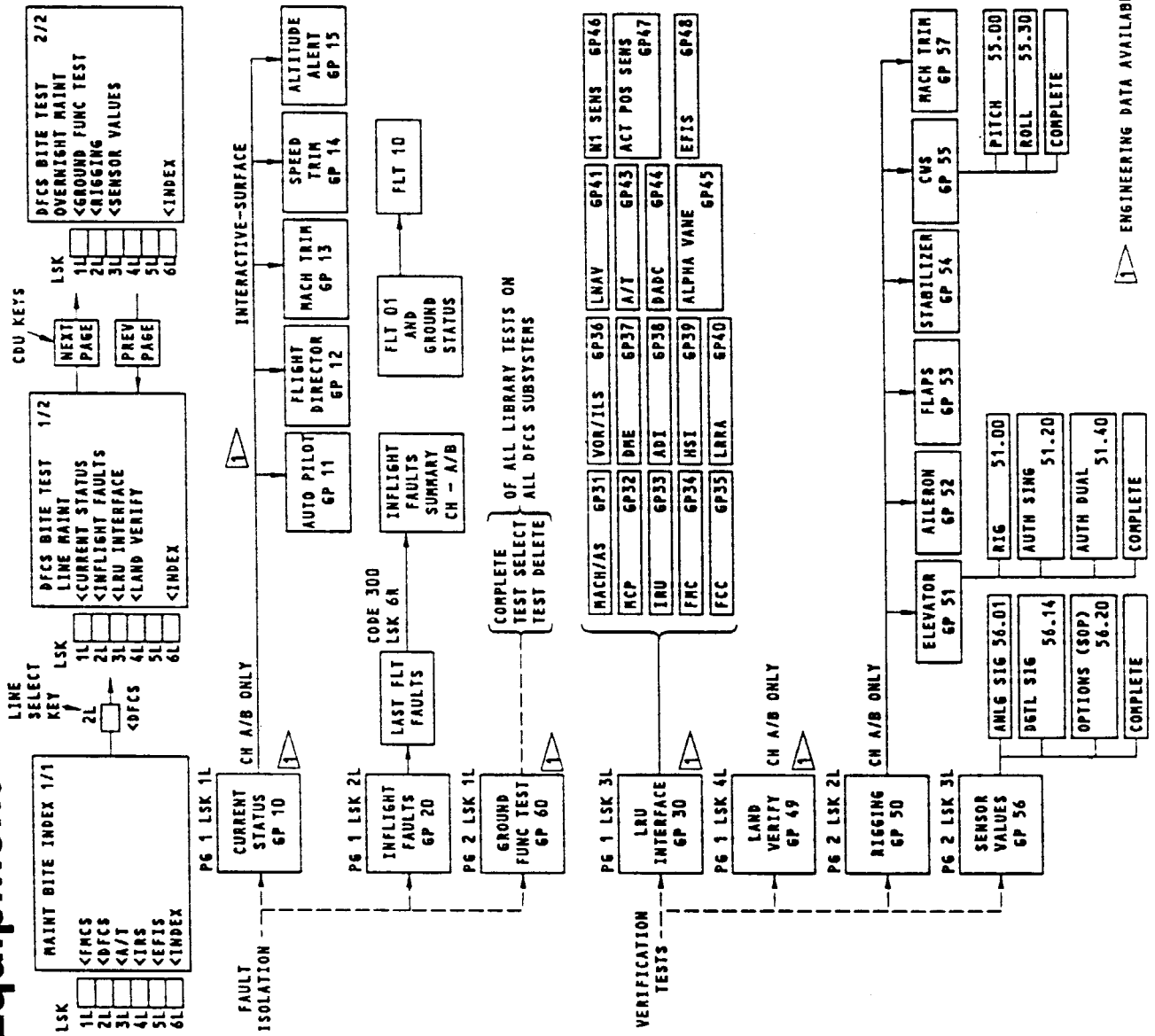
FLIGHT DECK  
AND ELECTRONICS

# E/E Equipment Center



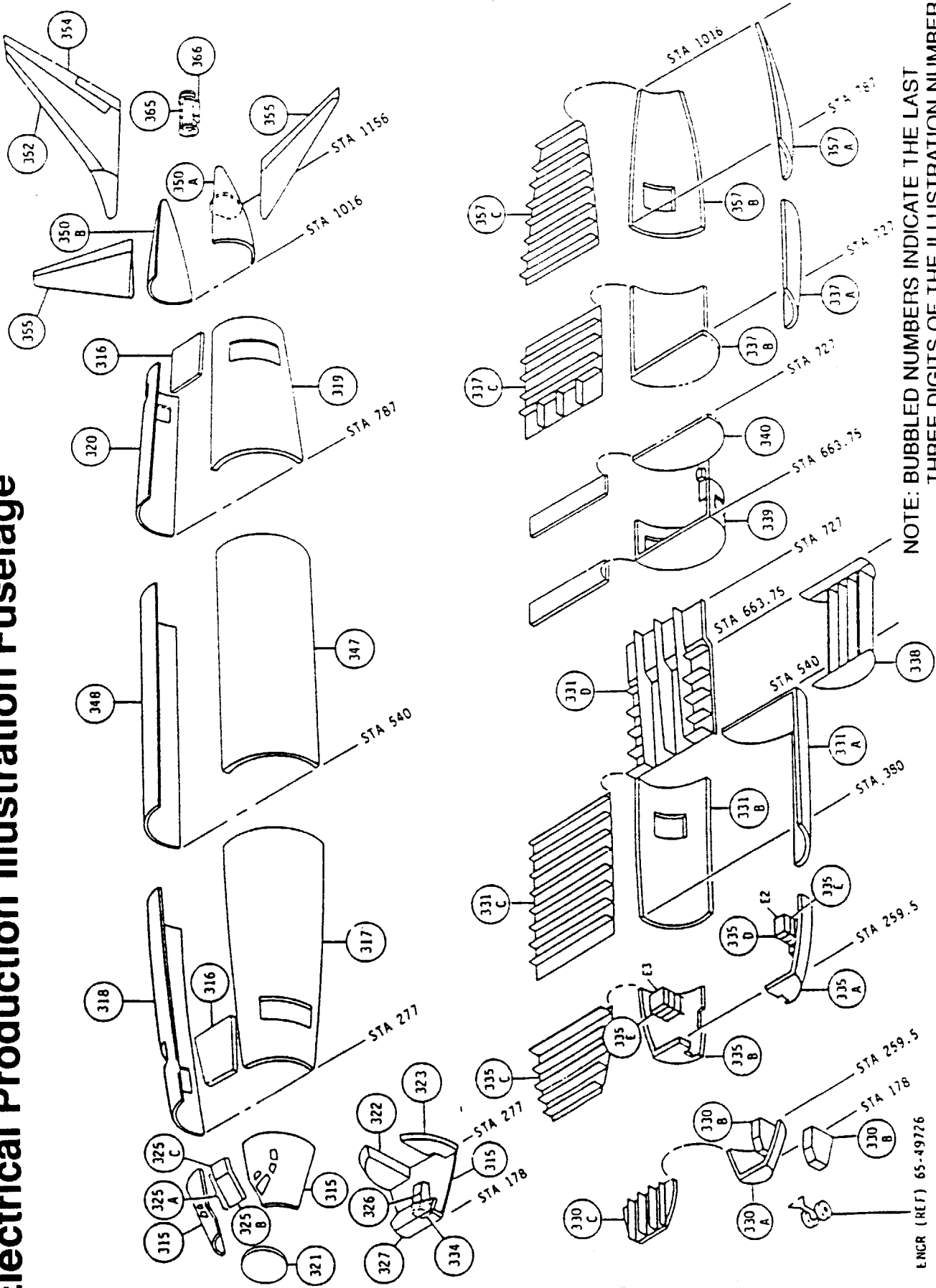
NO PAGE 44

# Built In Test Equipment



ENGINEERING DATA AVAILABLE BY ACCESS CODES 100

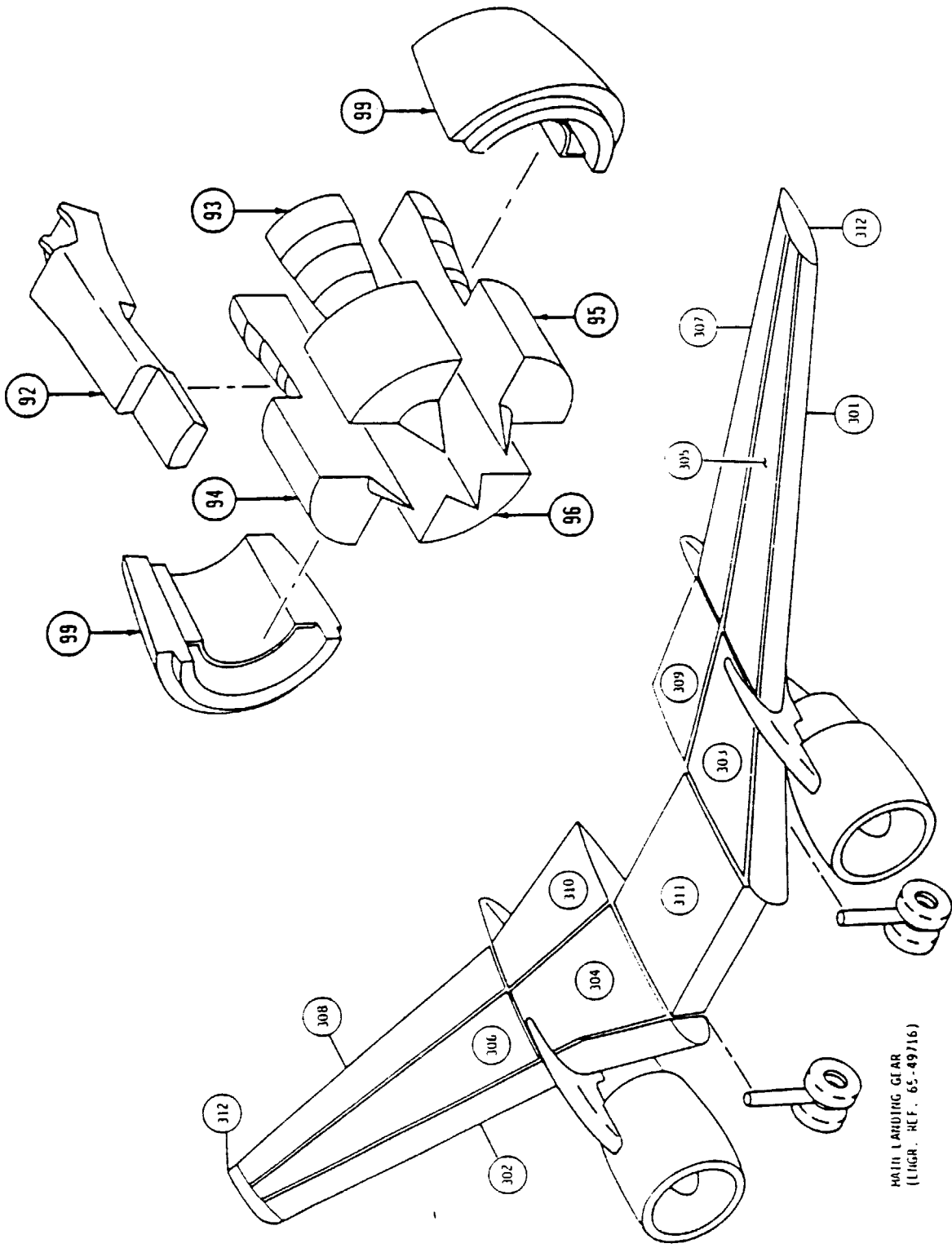
# Electrical Production Illustration Fuselage



NOTE: BUBBLED NUMBERS INDICATE THE LAST THREE DIGITS OF THE ILLUSTRATION NUMBER.



# Wing/Power Plant

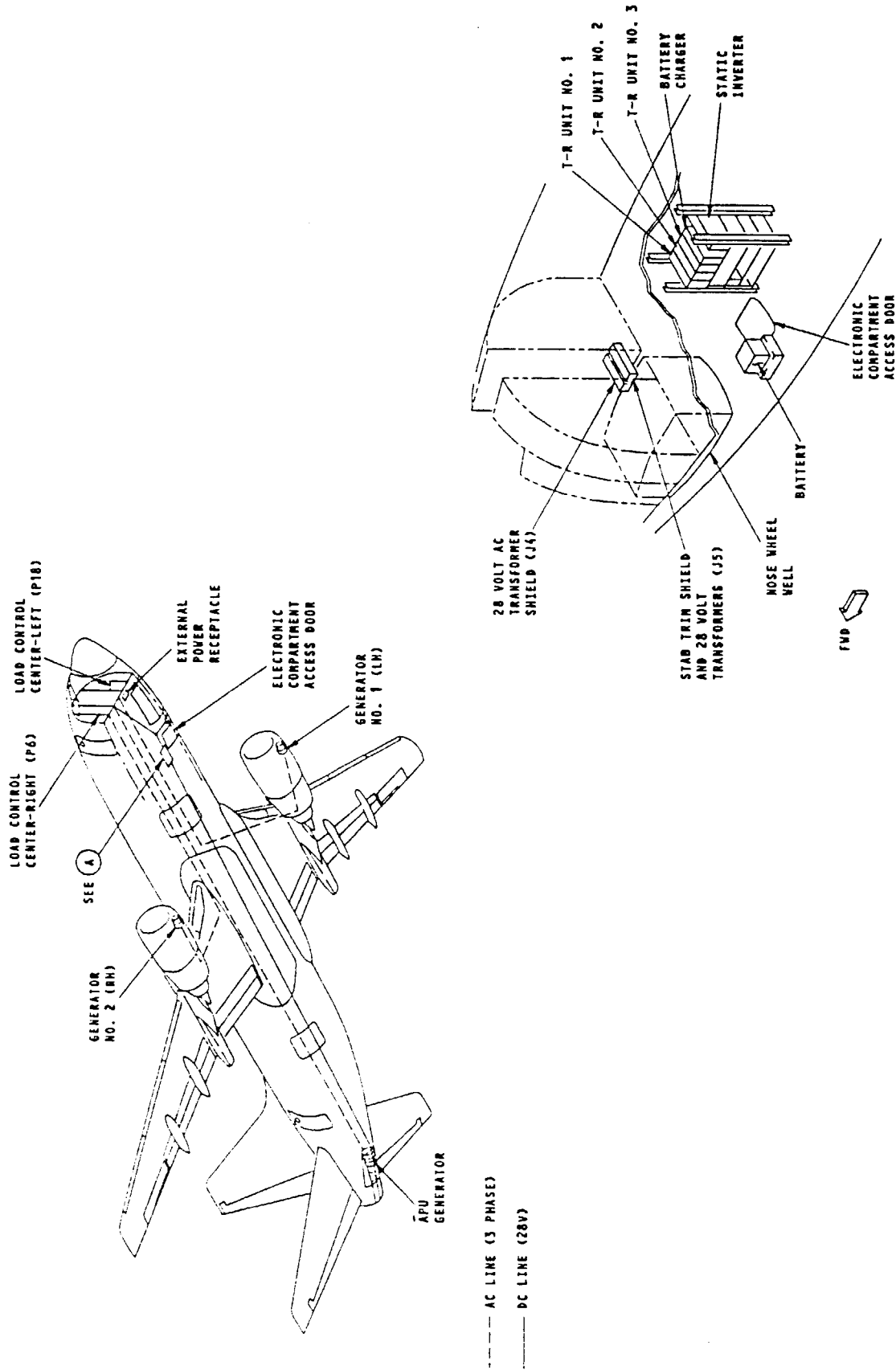


MAIN LANDING GEAR  
(LICR. REF. 65-49716)

# Major Module Wire Bundles

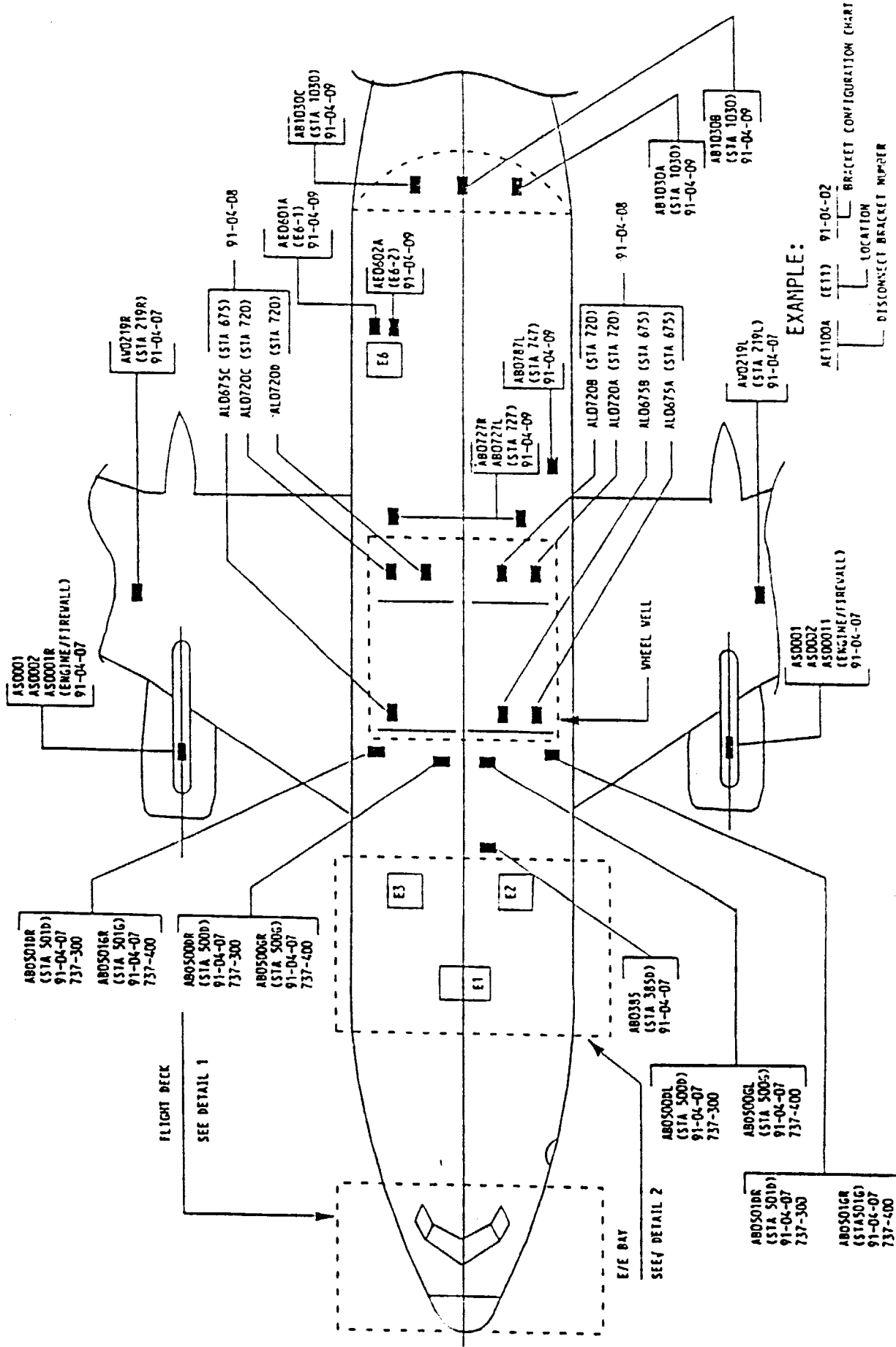
MODULES (NOT SHOWN IN AREA BREAKDOWN)	
61-30005	E1-1 ELEX SHELF (SEE 69-36803)
61-30006	LANDING GEAR LEVER SWITCHES
61-30007	E1-2 ELEX SHELF (SEE 69-36804)
61-30009	E1-2 ELEX SHELF (SEE 69-36804)
61-30010	M402 AISLE LIGHTS (PASS. CABIN)
61-30011	E1-3 ELEX SHELF (SEE 69-36807)
61-30012	P13 FWD AUX ATTENDANT PNL
61-30014	P14 AFT AUX ATTENDANT PNL
61-30015	E2-1 ELEX SHELF
61-30017	E2-2 ELEX SHELF
61-30019	E2-3 ELEX SHELF
61-30019	E1-3 ELEX SHELF (SEE 69-36830)
61-30021	E2-4 ELEX SHELF (SEE 69-36808)
61-30024	P15 WING FUELING PNL
61-30025	E3-4 ELEX SHELF (SEE 69-36809)
61-30026	FWD LEFT WINDSCREEN
61-30028	P28 APJ REMOTE CONTROL PNL
61-30048	P19 EXTERNAL POWER RECP PNL
61-30058	J16 RELAY PANEL, CARGO LOADER, FWD
61-30059	E3-4 ELEX SHELF (SEE 69-36809)
61-30062	J17 RELAY PANEL, CARGO LOADER, AFT
61-30069	E1-3 ELEX SHELF (SEE 69-36807)
61-30070	P29 FWD AIRSTAIRS CONTROL PNL
61-30075	E1-1 ELEX SHELF (SEE 69-36803)
61-30077	E4-1 ELEX SHELF
61-30081	E2-3 ELEX SHELF (SEE 69-36830)
61-30082	E3-1 ELEX EQUIP SHELF
61-30083	E1-3 ELEX SHELF (SEE 69-36830)
61-30084	E3-2 ELEX EQUIP SHELF
61-30085	E4-2 ELEX SHELF (SEE 69-36833)
61-30086	E3-3 ELEX EQUIP SHELF
61-30087	E2-4 ELEX SHELF (SEE 69-36808)
61-30088	J10 CEILING LIGHTS EQUIP SHIELD
61-30090	E1-1 ELEX SHELF (SEE 69-36803)
61-30093	E6-2 ELEX SHELF
61-30094	J4 - 28 VAC TRANSFORMER SHIELD
61-30095	E6-1 ELEX SHELF
61-30096	J5 STABILIZER TRIH SHIELD
61-30097	036 FWD ATTENDANT'S PANEL
61-30646	FWD WINDSCREEN (RIGHT)
61-30686	AFT WINDSCREEN (LEFT)
61-30833	E3-5 ELEX SHELF (SEE 69-36831)
61-30835	E3-5 ELEX SHELF (SEE 69-36831)
61-31010	M402 AISLE LIGHTS (PASS-CABIN)
61-31030	M1475 AISLE LIGHTS (PASS-CABIN)
61-31074	M1281 FWD ENTRY LIGHT
61-31138	E4-2 ELEX SHELF (SEE 69-36833)
61-31230	E2-3 ELEX SHELF (SEE 69-36830)
61-31414	P39 AFT AUX ATTENDANT PANEL
61-33500	PSU UNDERBTH (FULL RIGHT)
61-33510	PSU SIGN ONLY (LEFT SIDE)
61-33510	PSU SIGN ONLY (RIGHT SIDE)
61-33520	PSU OXYGEN & SPEAKER (LEFT SIDE)
61-33520	PSU OXYGEN & SPEAKER (RIGHT SIDE)
61-33530	PSU WITH EMERGENCY BELL FOR ATI
61-33540	ATTENDANT SERVICE UNIT
61-33550	PSU (PARTIAL)
61-35007	P10 FIRST OBSERVER'S STATION
69-36801	P8 CAPT M7 F/O CONTROL STAND
69-36802	P7 FIRE WARNING & J11 MASTER CAUTION LIGHT SHIELD
69-36803	E1-1 ELEX SHELF (61-30005, 61-30075, 61-30090 REF)
69-36804	E1-2 ELEX SHELF (61-30007, 61-30009 REF)
69-36807	E1-3 ELEX SHELF (61-30011, 61-30069 REF)
69-36808	E2-4 ELEX SHELF (61-30021, 61-30087 REF)
69-36809	E3-4 ELEX SHELF (61-30025, 61-30059 REF)
69-36830	E2-3 ELEX SHELF (61-30019, 61-30081, 61-30083, 61-31230 REF.)
69-36831	E3-5 ELEX SHELF (61-30833, 61-30835 REF)
69-36833	E4-2 ELEX SHELF (61-30085, 61-31138 REF)

# Electrical Power

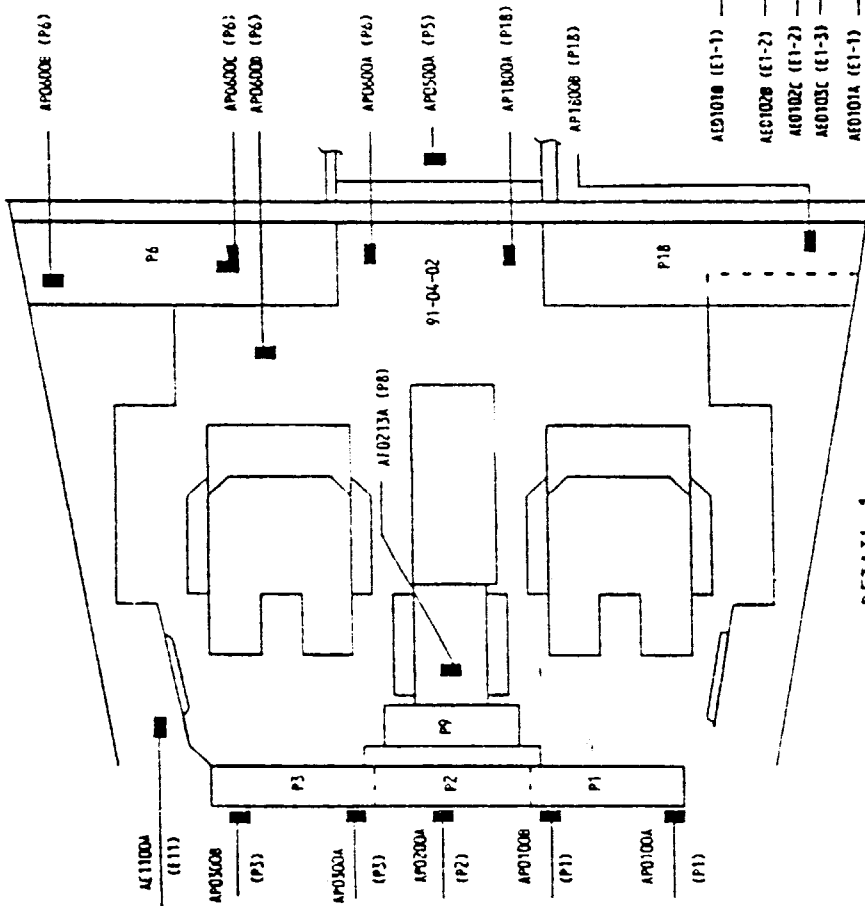


--- AC LINE (3 PHASE)  
 — DC LINE (28V)

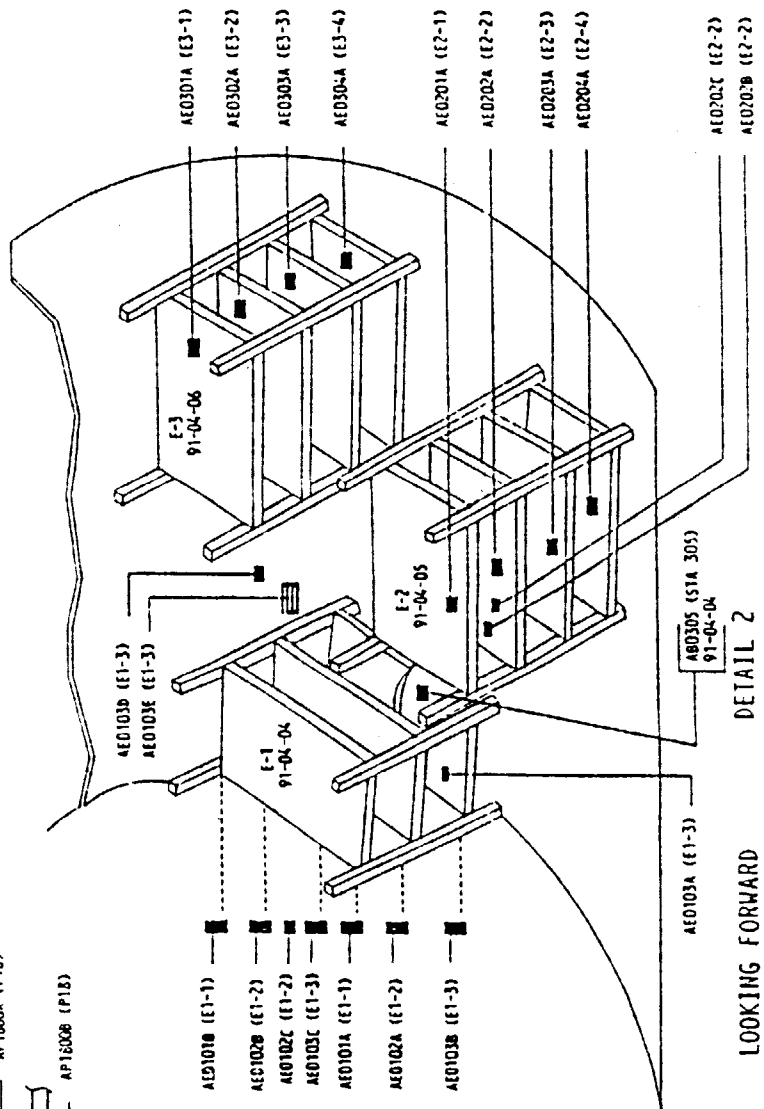
# Wire Disconnect Bracket



# Locations -300 -400 -500



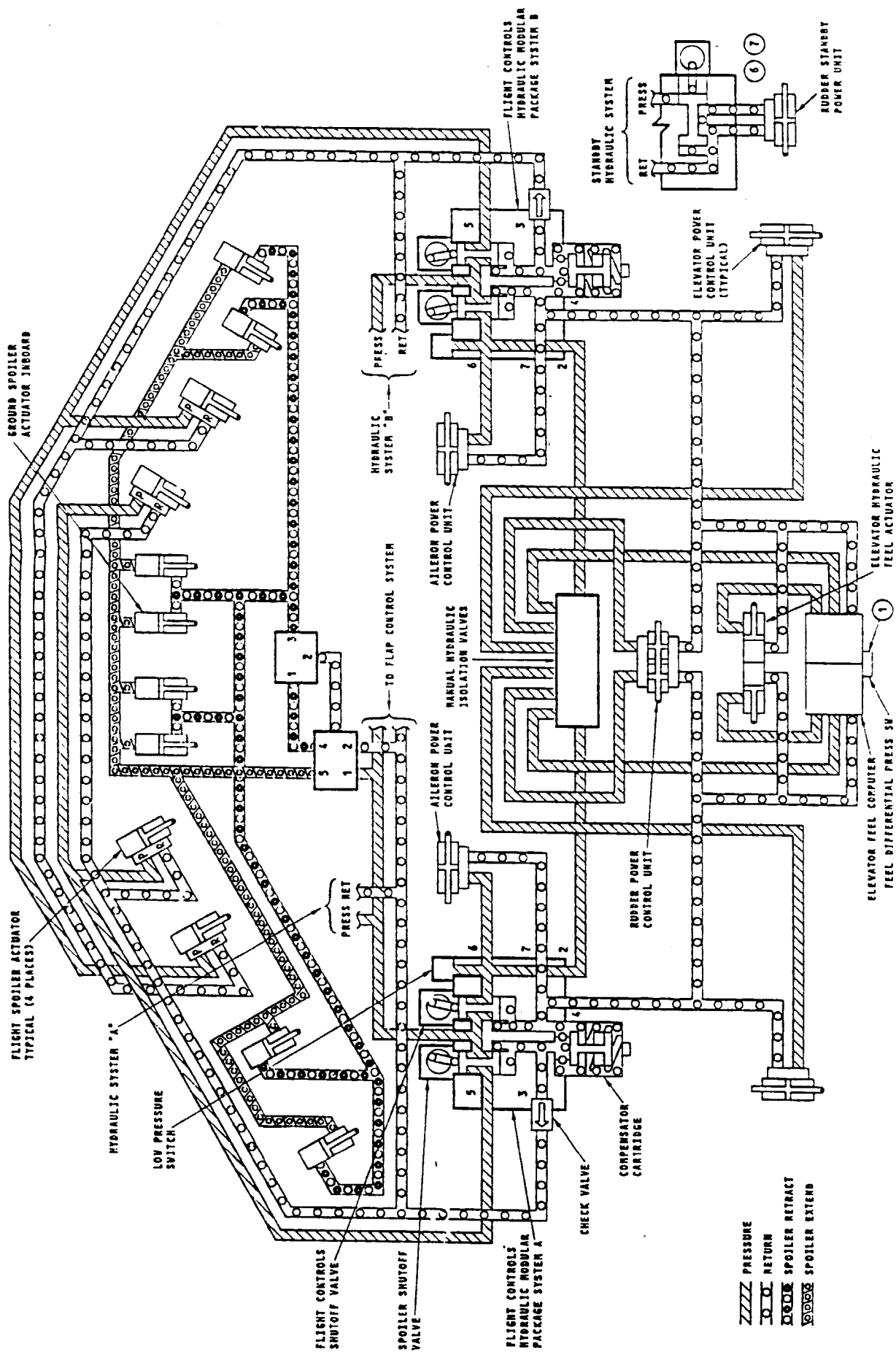
DETAIL 1



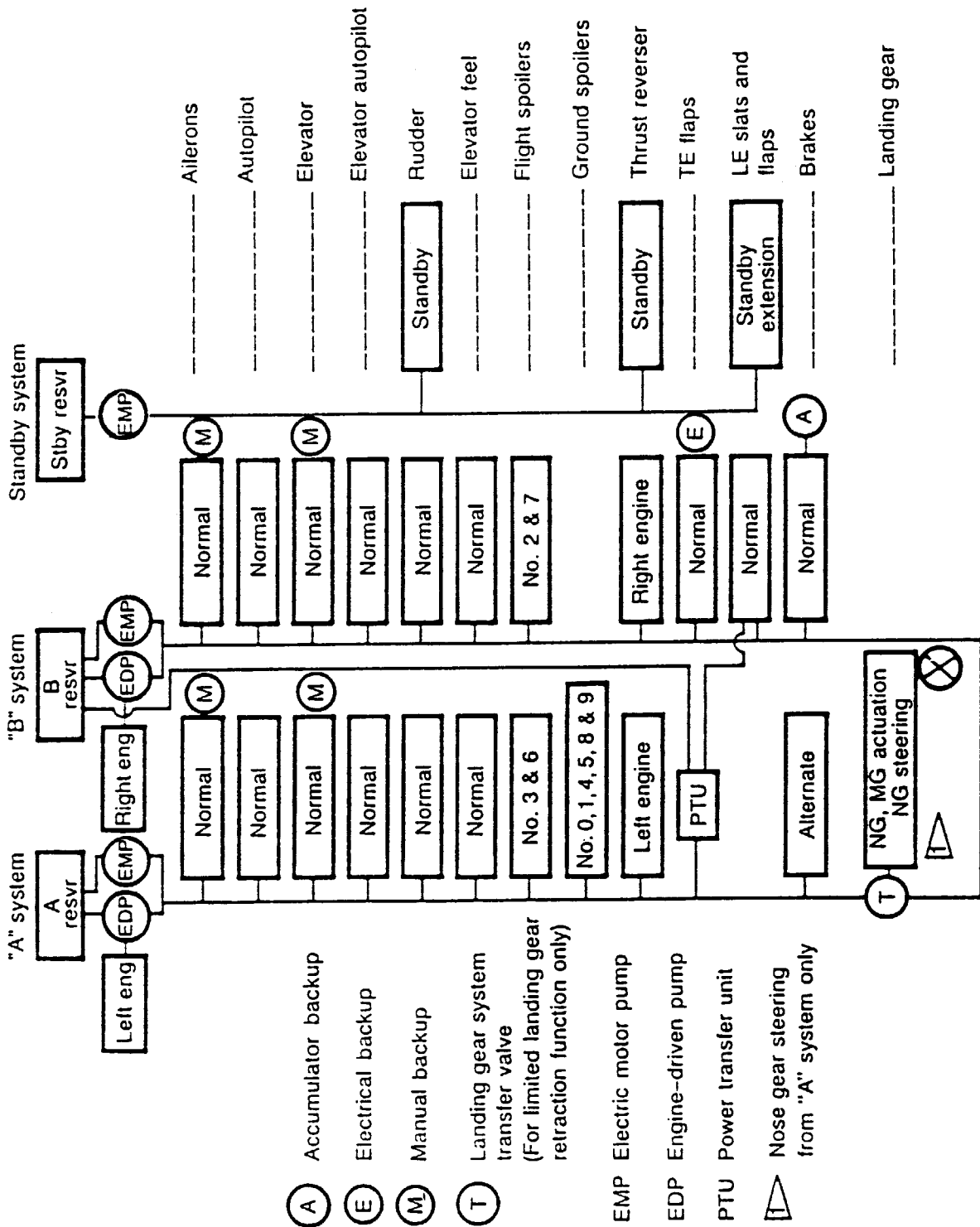
DETAIL 2

LOOKING FORWARD

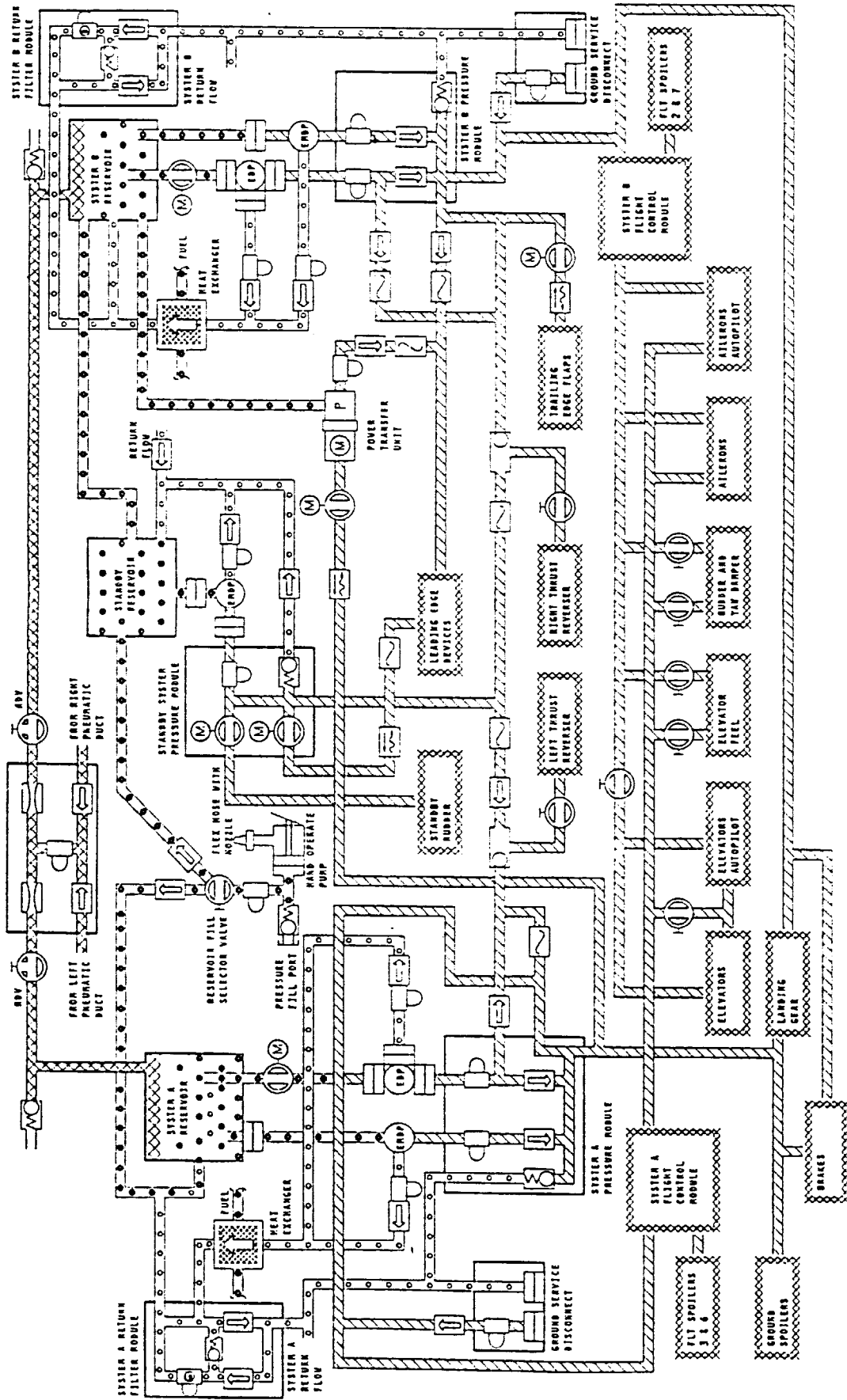
# Flight Control Hydraulics



# Hydraulic Flow & Schematic

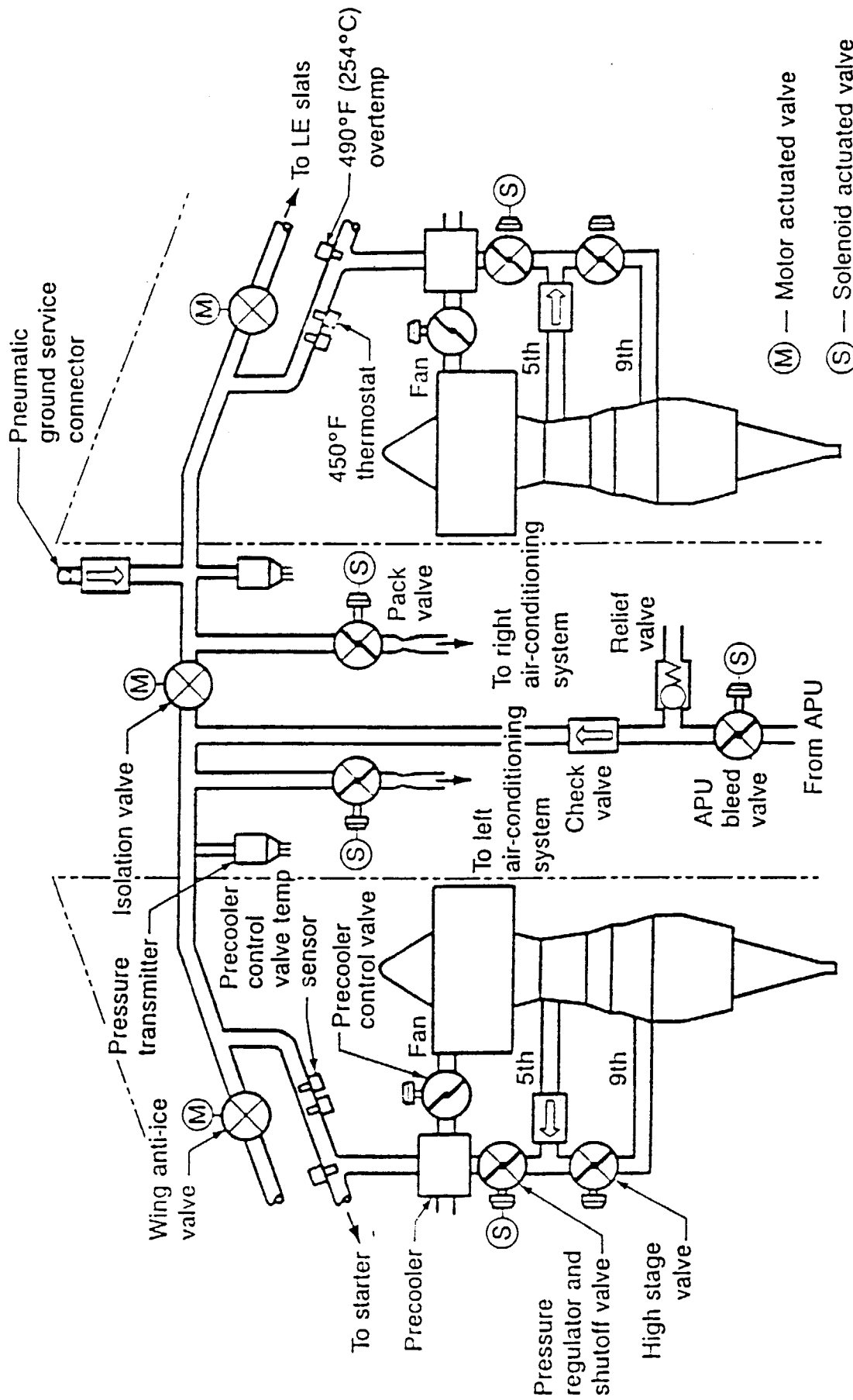


# Hydraulic Flow & Schematic





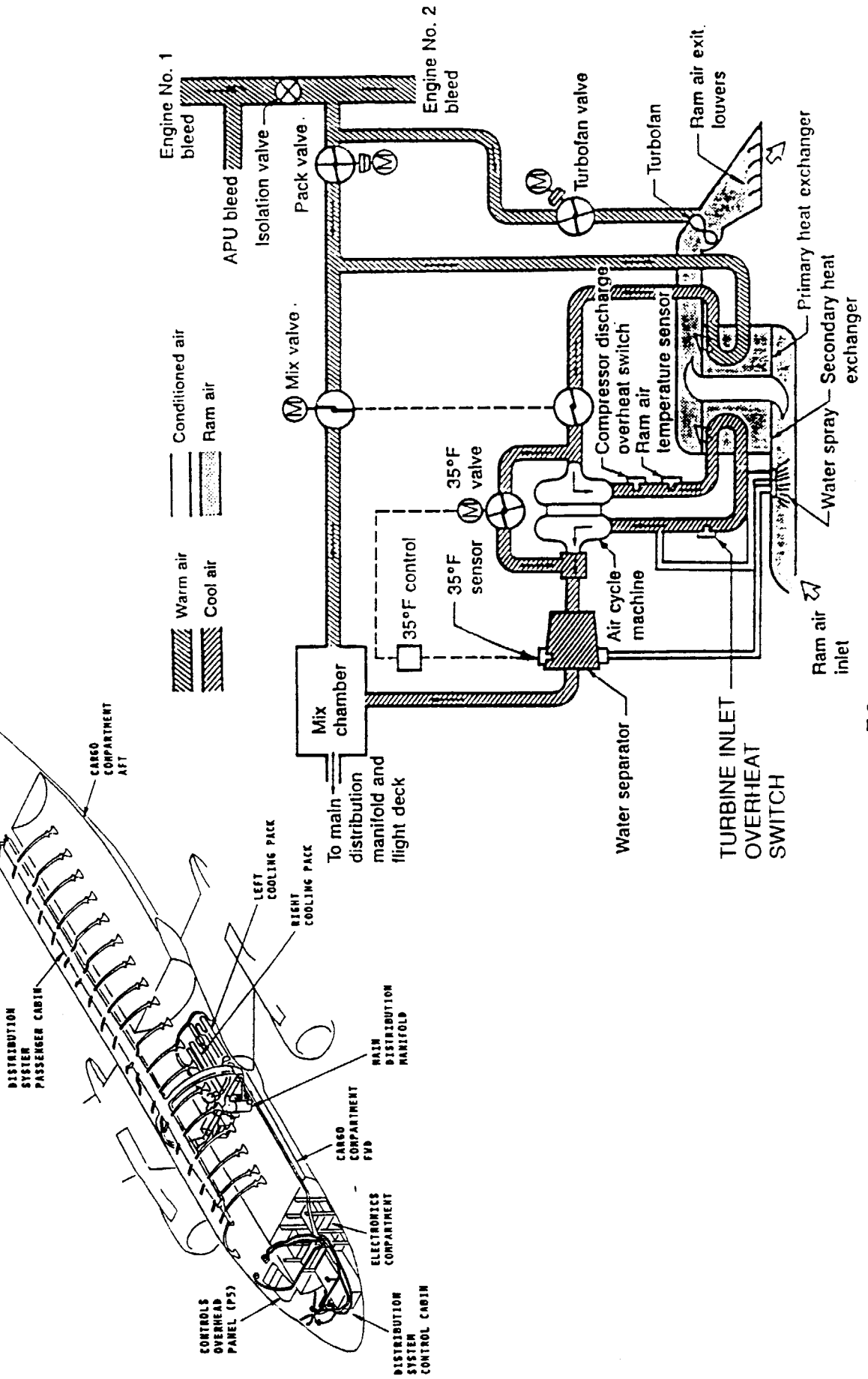
# Air Supply



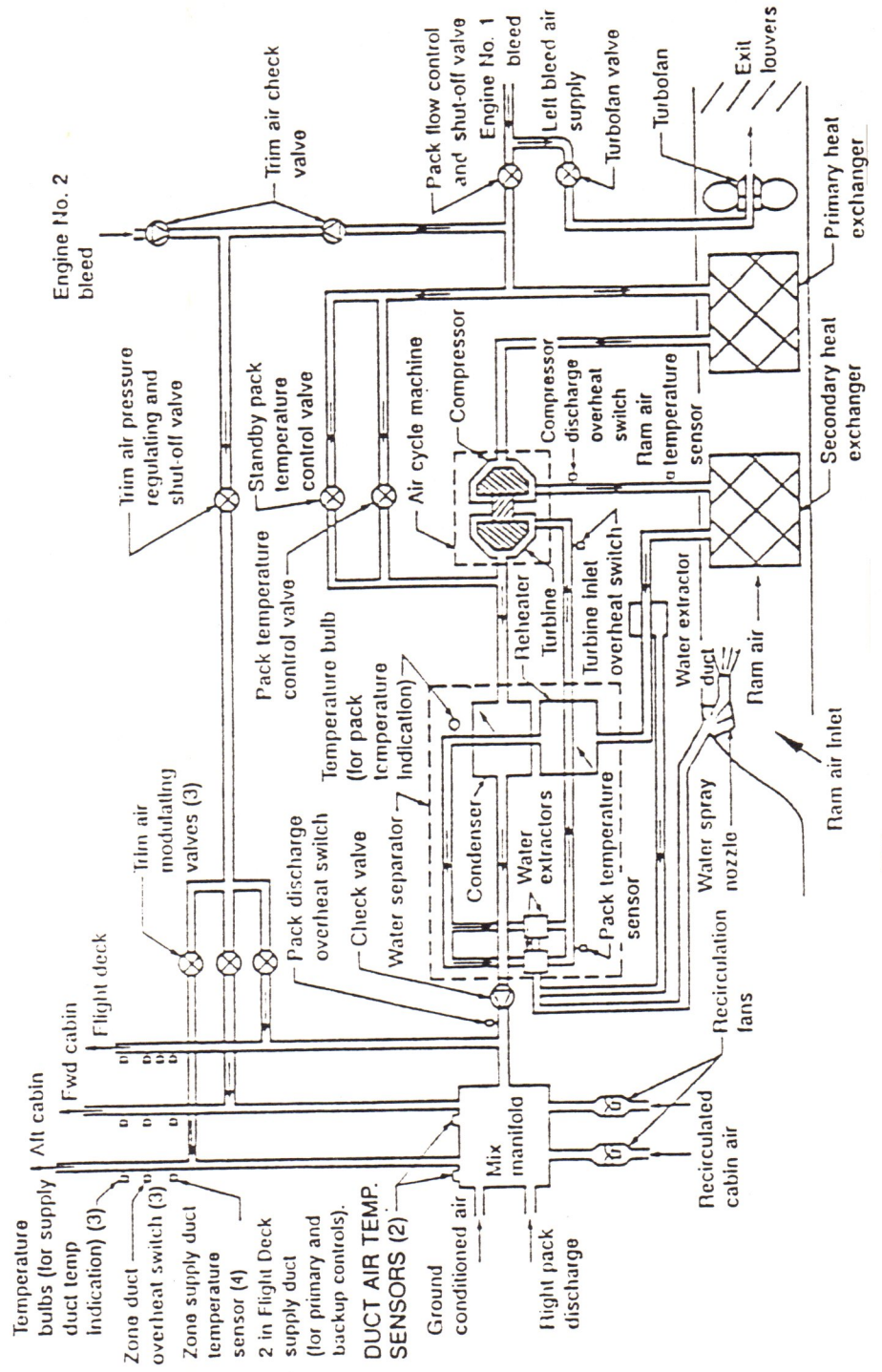
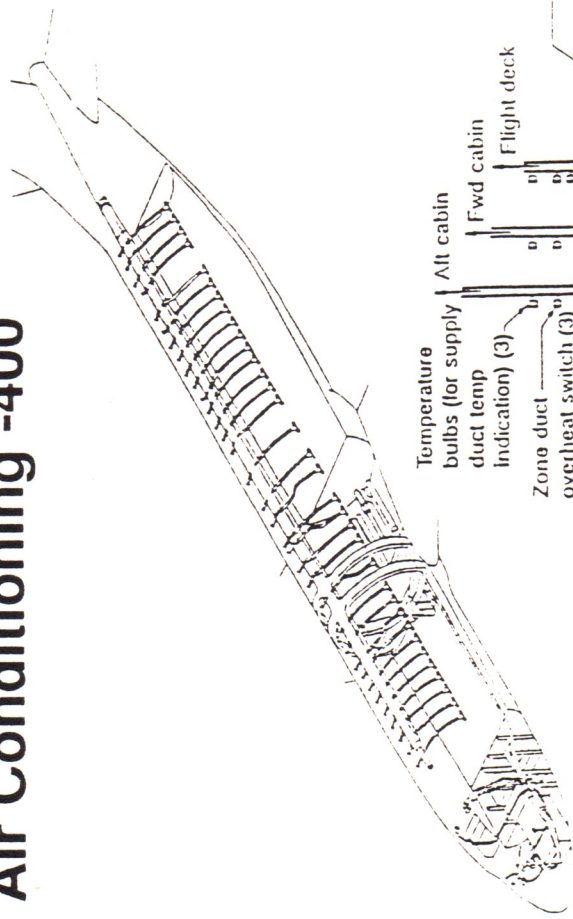
(M) — Motor actuated valve

(S) — Solenoïd actuated valve

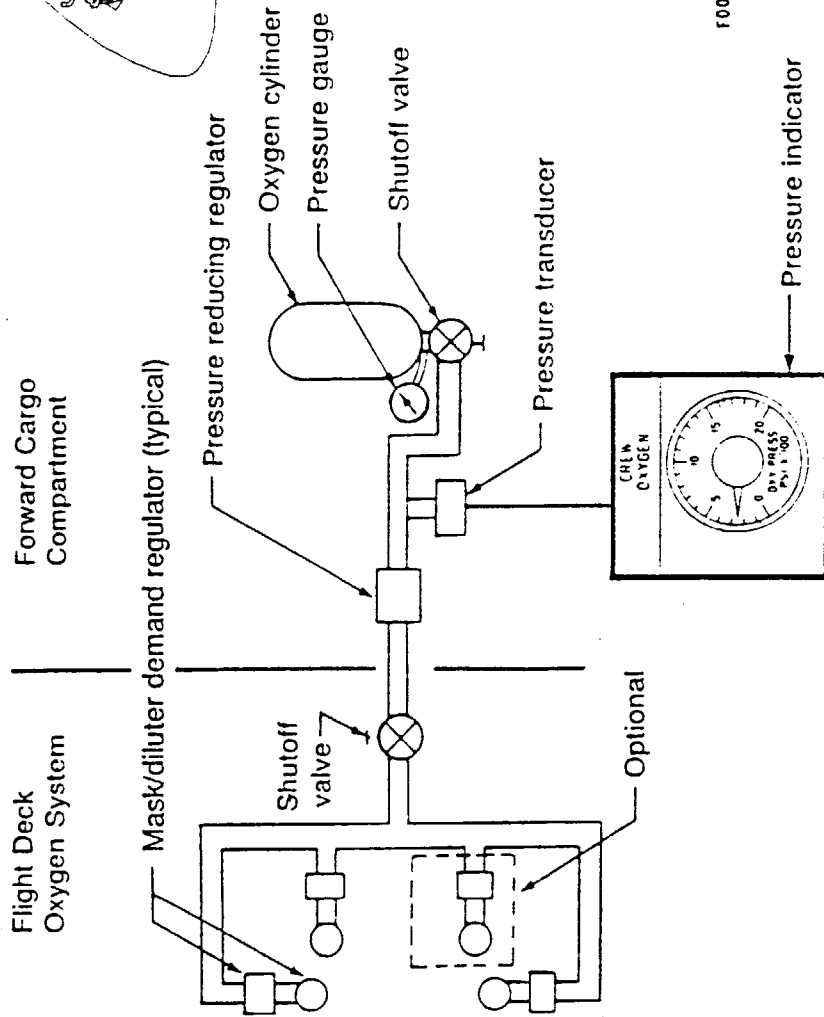
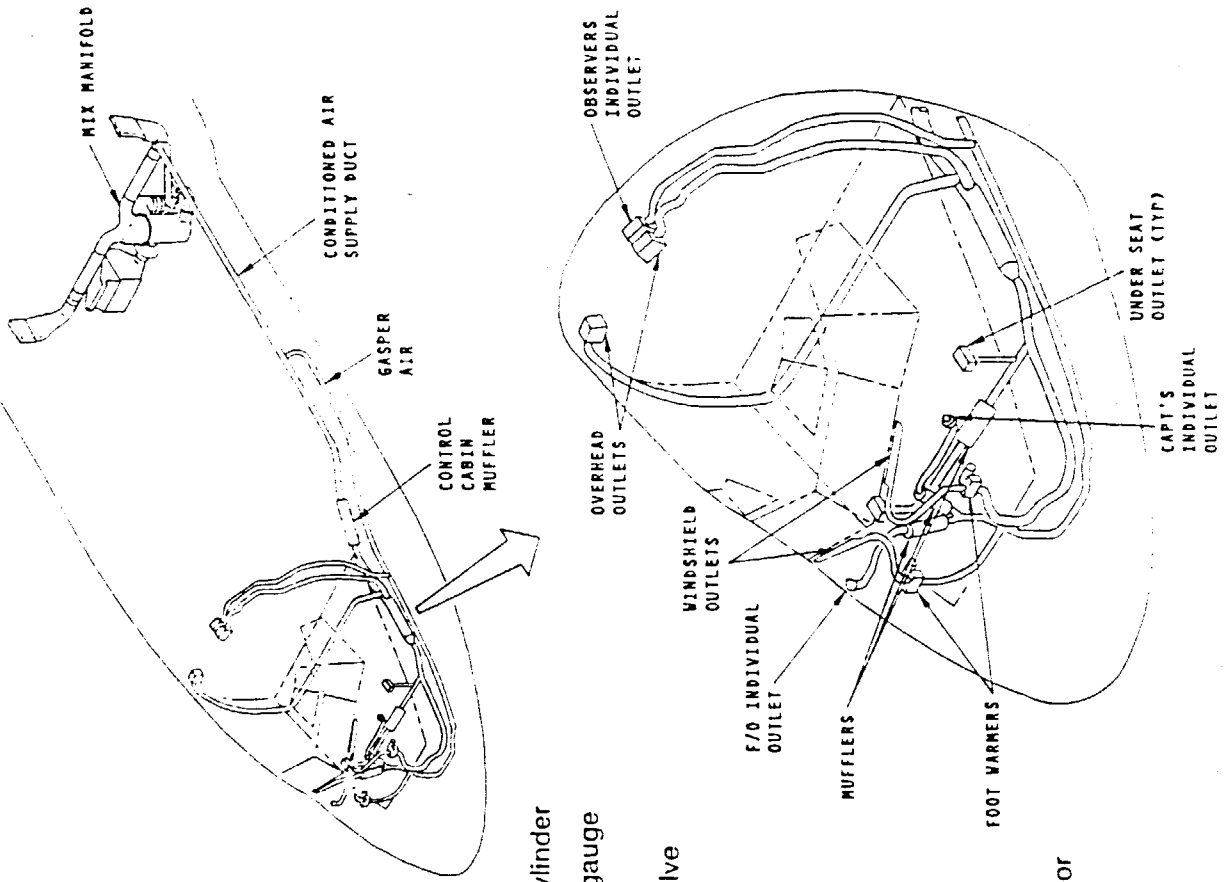
# Air Conditioning -300/-500



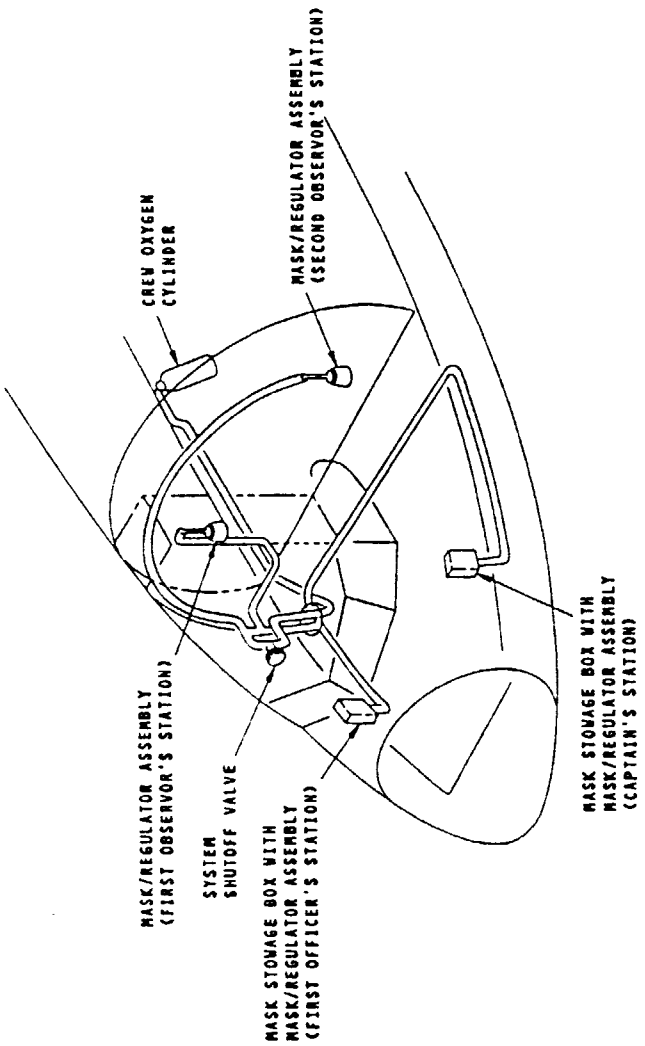
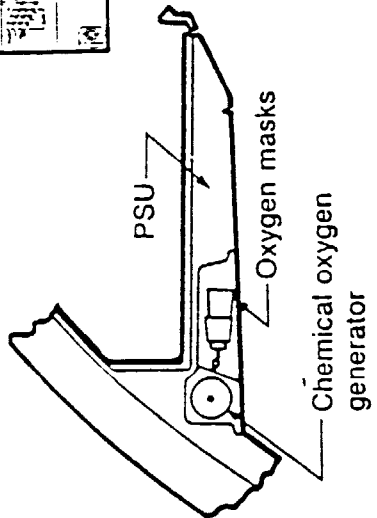
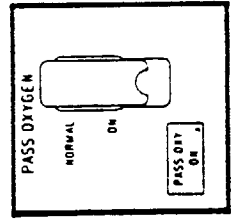
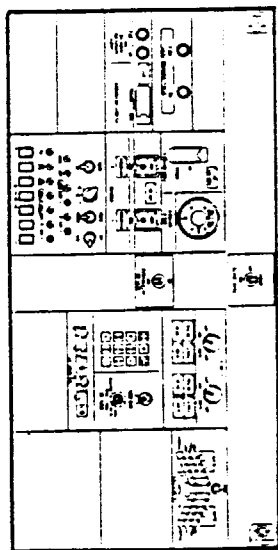
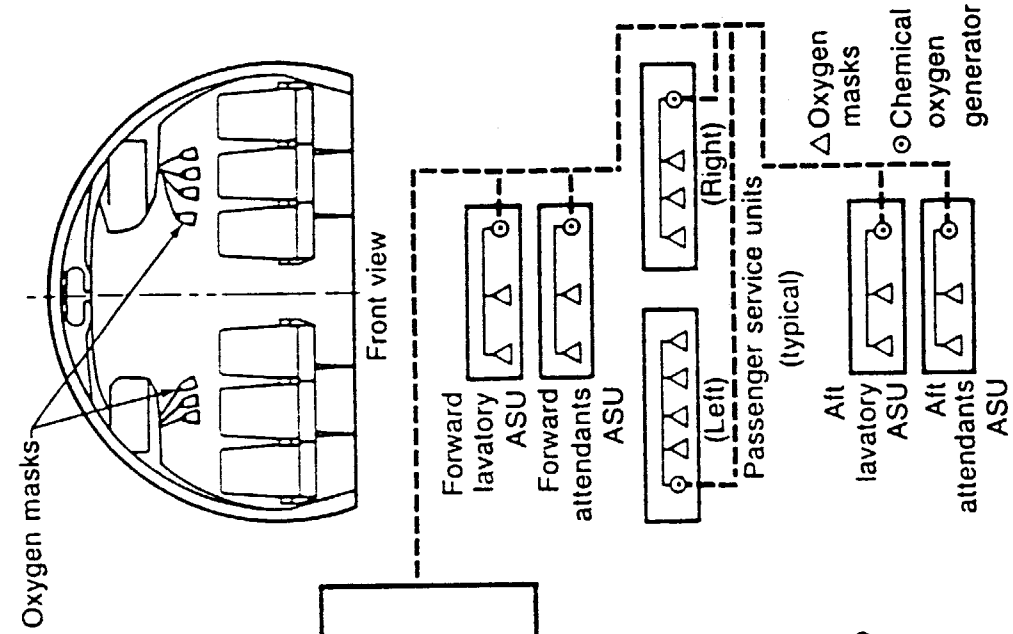
# Air Conditioning -400



# Air Conditioning Cabin



# Oxygen





# CAUTION!

## LIVE AIRPLANE! CONTROL SURFACES SHOP SAFETY PROCEDURES

1. ALWAYS check in with the supervisor in charge or his lead man before entering, operating or working on an airplane.
2. NEVER run any system on an airplane that you are not familiar with — QUALIFIED PERSONNEL ONLY!
3. Have a clear and open communication between the operator and the “clear person” on the ground. Do not operate any control surface without ground clearance.
4. Ensure area is clear (i.e., manlifts or “Tigers,” ladders, personnel, etc.) before operating any control surface.
5. AT NO TIME will repair or adjustments be made to any controls that could jeopardize the safety of personnel, the airplane or equipment.
6. If at any time there is doubt about any system or control surface, ASK FOR HELP.

ADCN	ADVANCE DRAWING CHANGE NOTICE	ADCN	ADVANCE DRAWING CHANGE NOTICE
ADF	AUTOMATIC DIRECTION FINDER	F/A	FINAL ASSEMBLY
AL	ALUMINUM	FAA	FEDERAL AVIATION AGENCY
ALT	ALTITUDE	FAB	FABRICATION
ALTM	ALTIMETER	F/B	FORM BOARD
AN	AIR FORCE - NAVY STANDARDS	FLG	FLANGE
AND	AIR FORCE AND NAVY DESIGN STANDARDS	F/O	FIRST OFFICER
ANT	ANTENNA	F/S	FULL SIZE
A P	AIRPLANE	F/T	FUNCTION TEST
APU	AUXILIARY POWER UNIT	FTG	FITTING
ASSY	ASSEMBLY	FWD	FORWARD
AUX	AUXILIARY	GEN	GENERATOR
B A	BUNDLE ASSEMBLY	GRD	GROUND (ELECTRICAL)
BAC	THE BOEING COMPANY STANDARD	H T	HEAT TREAT
BBL	BODY BUTTOCK LINE	H/U	HOOK UP
BFE	BUYER FURNISHED EQUIPMENT	HYD	HYDRAULIC
BL	BUTTOCK LINE	ID	INSIDE DIAMETER
BL L	BLUE LINE	IDENT	IDENTIFICATION, IDENTIFY
BLKD	BULKHEAD	IML	INSIDE MOLD LINE
BMS	BOEING MATERIAL SPECIFICATIONS	INBD	INBOARD
B OUT	BREAKOUT	INPH	INTERPHONE
CFA	COMBINATION FABRICATION AND ASSEMBLY	INSP	INSPECTION
CL	CENTER LINE	INSTL	INSTALLATION
CONN	CONNECTOR	INSTR	INSTRUMENT
COORD	COORDINATE OR COORDINATION	INTCHG	INTERCHANGEABLE
CORR	CORROSION	J BOX	JUNCTION BOX
CRES	CORROSION RESISTANT STEEL	JPR	JUMPER (WIRING)
CRS	COLD ROLLED STEEL	KSI	THOUSAND POUNDS PER SQUARE INCH
CSK	COUNTERSINK	LE	LEADING EDGE
CSTG	CASTING	LH	LEFT HAND
C T	COMMON TO	LOC	LOCATING, LOCATE, LOCATION
CTR	CENTER	LWR	LOWER
3CM	THIRD CREWMAN	LO	LAYOUT
DCN	DRAWING CHANGE NOTICE	MP	MACHINE PLANNING
DDA	DRAWING DEPARTURE AUTHORIZATION	M B	METAL BOND
DEV	DEVIATION	MAX	MAXIMUM
DIA	DIAMETER	MC	MASTER CHANGE
DISC	DISCONNECT	MCD	MASTER CONTROL DRAWING
DME	DISTANCE MEASURING EQUIPMENT	MCR	MASTER CHANGE RECORD, MASTER CHG. REQUEST
DWG	DRAWING	MDI	MASTER DIMENSIONING INDEX
ECP	ENGINEERING CHANGE PROPOSAL	MFG	MANUFACTURING
EFF	EFFECTIVITY	MIL	MILITARY SPECIFICATIONS
ELEC	ELECTRICAL	MIN	MINIMUM
ELEX	ELECTRONIC	MOA	MAKE ON ASSEMBLY
ELR/	ENGINEERING LIAISON REQUEST/	MOD	MODIFICATION, MODEL



MTD	MANUFACTURING TECHNICAL DIRECTIVE	STAN	STANCHION
MTG	MOUNTING	S/F	SPOT FACE
N/C	NUMERICAL CONTROL	S/N	SERIAL NUMBER
N/P	NUT PLATE	SDS	SHOP DISTRIBUTION STANDARDS
NAS	NATIONAL AIRCRAFT STANDARDS	SEQ	SEQUENCE
NT	NO TOOL (TOOL CODE)	SHT	SHEET
O/S	OVERSIZE	SPEC	SPECIFICATION
O&I	OPERATION AND INSPECTION RECORD	SRF	SPECIAL CHEMICAL AND SOLVENT RESISTANT FINISH
OD	OUTSIDE DIAMETER	STA	STATION
OML	OUTSIDE MOLD LINE	STD	STANDARD
OPP	OPPOSITE	STIFF	STIFFENER
OUTBD	OUTBOARD	STL	STEEL
OVHT	OVERHEAT	STP	STAMP
OXY	OXYGEN	STR	STRINGER
PCA	PARTS CONTROL AREA	SUPT	SUPPORT
PCM	PHOTO CONTACT MASTER	SPKR	SPEAKER
PED	PRODUCTION ENGINEERING DOCUMENT	SHLD	SHIELD
PI	PRODUCTION ILLUSTRATION	SPL	SPLICE
PLAC	PLACARD	SYM	SYMMETRICAL
P N	PART NUMBER	TE	TRAILING EDGE
PNEU	PNEUMATIC	T/H	TOOL HOLE
POA	PURCHASED ON ASSEMBLY	THRU	THROUGH
POP	PURCHASED OUTSIDE PRODUCTION	TAI	THERMAL ANTI-ICE
POS	POSITION	T/S	TERMINAL STRIP
PRR	PRODUCTION REVISION RECORD	U/O	USED ON
PS	PART STORE	UA	UNIT ASSEMBLY
PSI	POUNDS PER SQUARE INCH	UB	UNIT BOND
PSIG	POUNDS PER SQUARE INCH GAGE	UI	UNIT ISSUE
PSU	PASSENGER SERVICE UNIT	UM	UNIT MANUFACTURE
PURCH	PURCHASE	UPR	UPPER
PWR	POWER	UT	UNIT TIME
QTY	QUANTITY	UHF	ULTRA HIGH FREQUENCY
RCVR	RECEIVER	VERT	VERTICAL
RCVR-XMTR	RECEIVER-TRANSMITTER	VOL	VOLUME
REF	REFERENCE	VHF	VERY HIGH FREQUENCY
REG	REGULATOR	VOR	VHF OMNI RANGE
REPL	REPLACEABLE	W/B	WIRE BUNDLE
REPT	REFERENCE PHOTO TEMPLATE	WS	WING STATION
RH	RIGHT HAND	WBL	WING BUTTOCK LINE
RIV	RIVET	WCP	WING CHORD PLANE
RES	RESISTANCE	WL	WATER LINE
RSC	RESIDENT SHOP CONTROL	WTR	WATER
RUB	RUBBER (STAMP)	XMTR	TRANSMITTER
STRN	STRAIGHTEN	XFMR	TRANSFORMER
SEC	SECTION	ZN	ZONE
SW	SWITCH		

# AIR TRANSPORT CODE (ATA) Maintenance Manual Chapters

**Note: This Is Wallet Size.  
Copy and Cut Out.**

ATA CODE

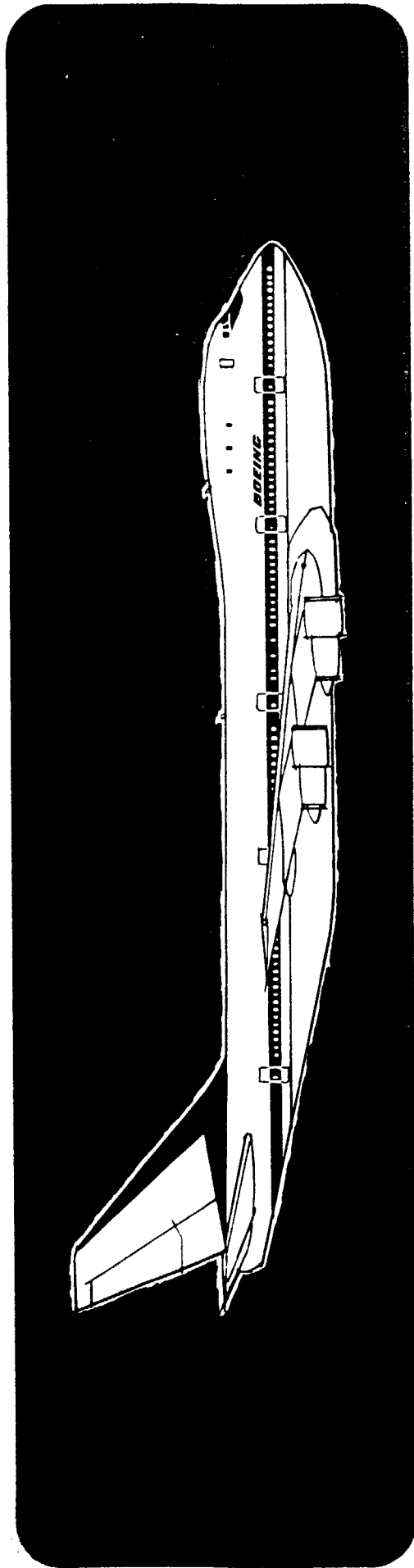
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**BOEING**

**BOEING**

# 747/747SP

*REFERENCE GUIDE D6-60093*



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P.O. Box 3707 Mail Stop 8K-54  
SEATTLE, WASHINGTON 98124

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# **747/747SP**

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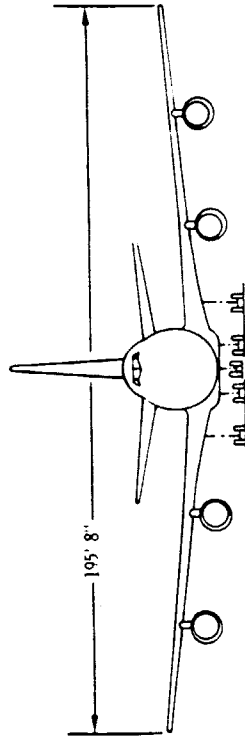
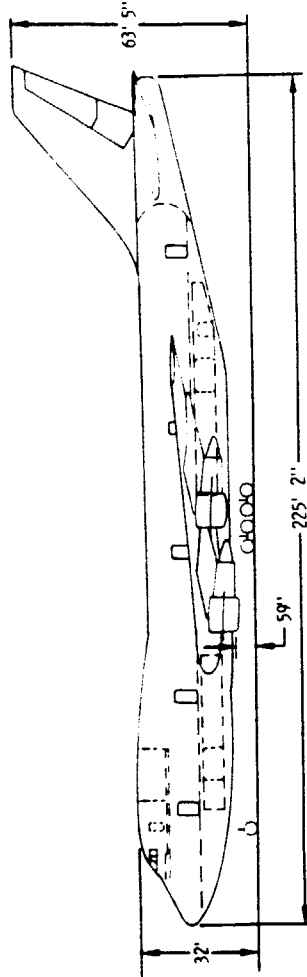
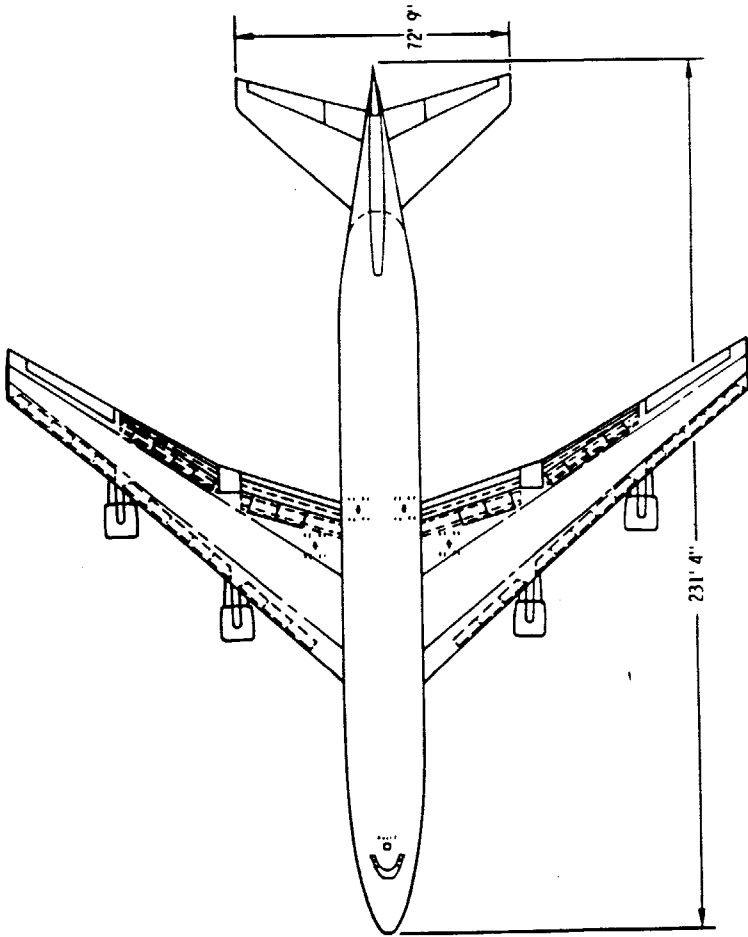
Employee Training and Development  
B-1000  
Boeing Commercial Airplane Company

THIS GUIDE HAS BEEN PREPARED AS A SOURCE OF INFORMATION FOR BOEING PERSONNEL. THIS GUIDE IS NOT TO BE USED AS AN AUTHORITY IN THE INSTALLATION OF EQUIPMENT OR SYSTEMS, AND IN NO CASE, SHOULD IT BE USED IN LIEU OF CONTROLLED ENGINEERING DOCUMENTS AND DRAWINGS.

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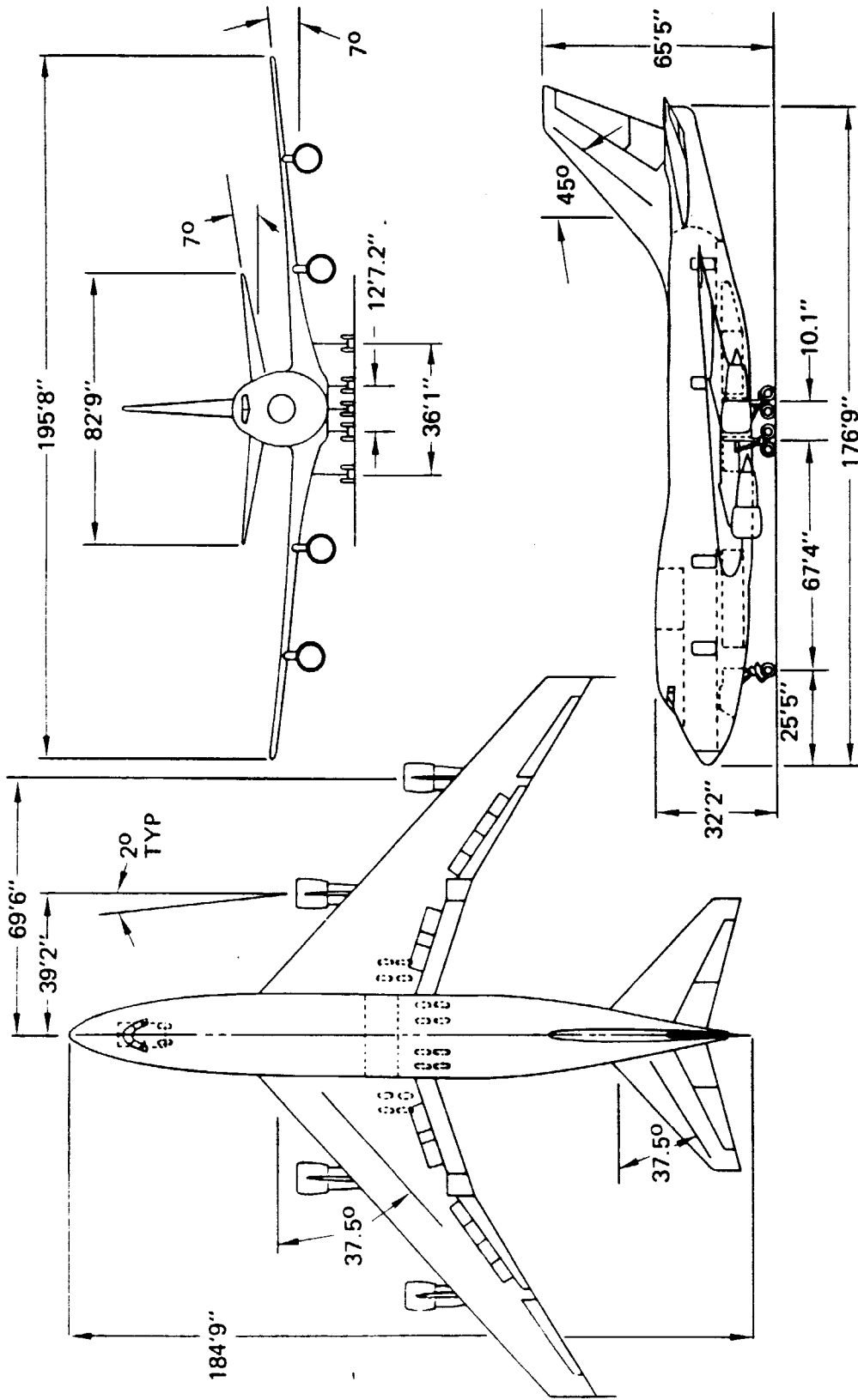


COMPARABLE FIGURES FOR		747	707 - 320B
PASSENGERS		366	139
MIXED (15% - 85%)		446/490	185
ECONOMY		6190	1770
BAGGAGE VOLUME CU FT			
MAX TAKEOFF	LB	710,000	333,600
GROSS WEIGHT	LB	336,000	144,600
OEW			
CRUISE SPEED	MACH	0.89	0.82
SEA LEVEL			
STATIC THRUST	LB	43,500	18,000

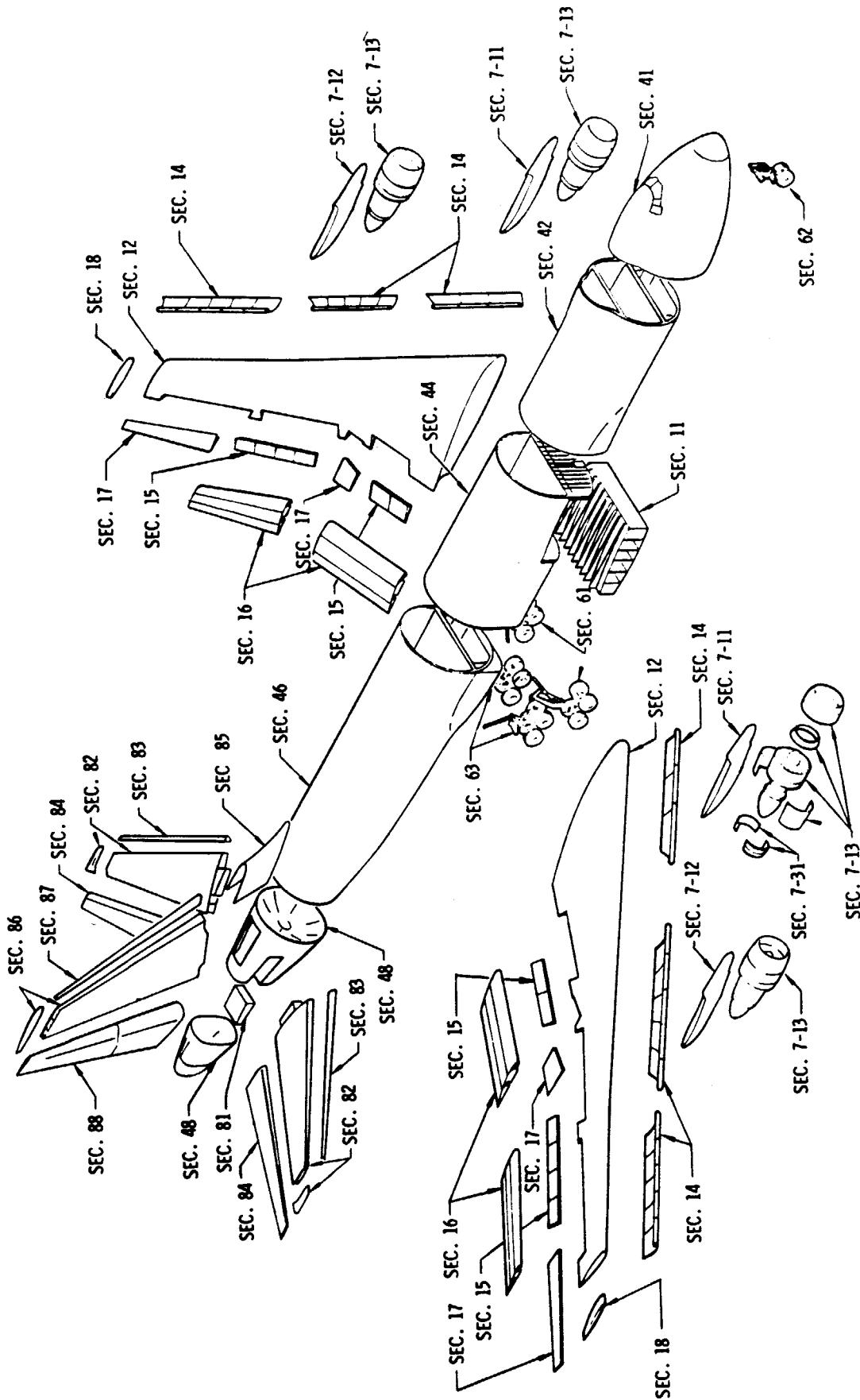
## GENERAL ARRANGEMENT 747

1

**WARNING**  
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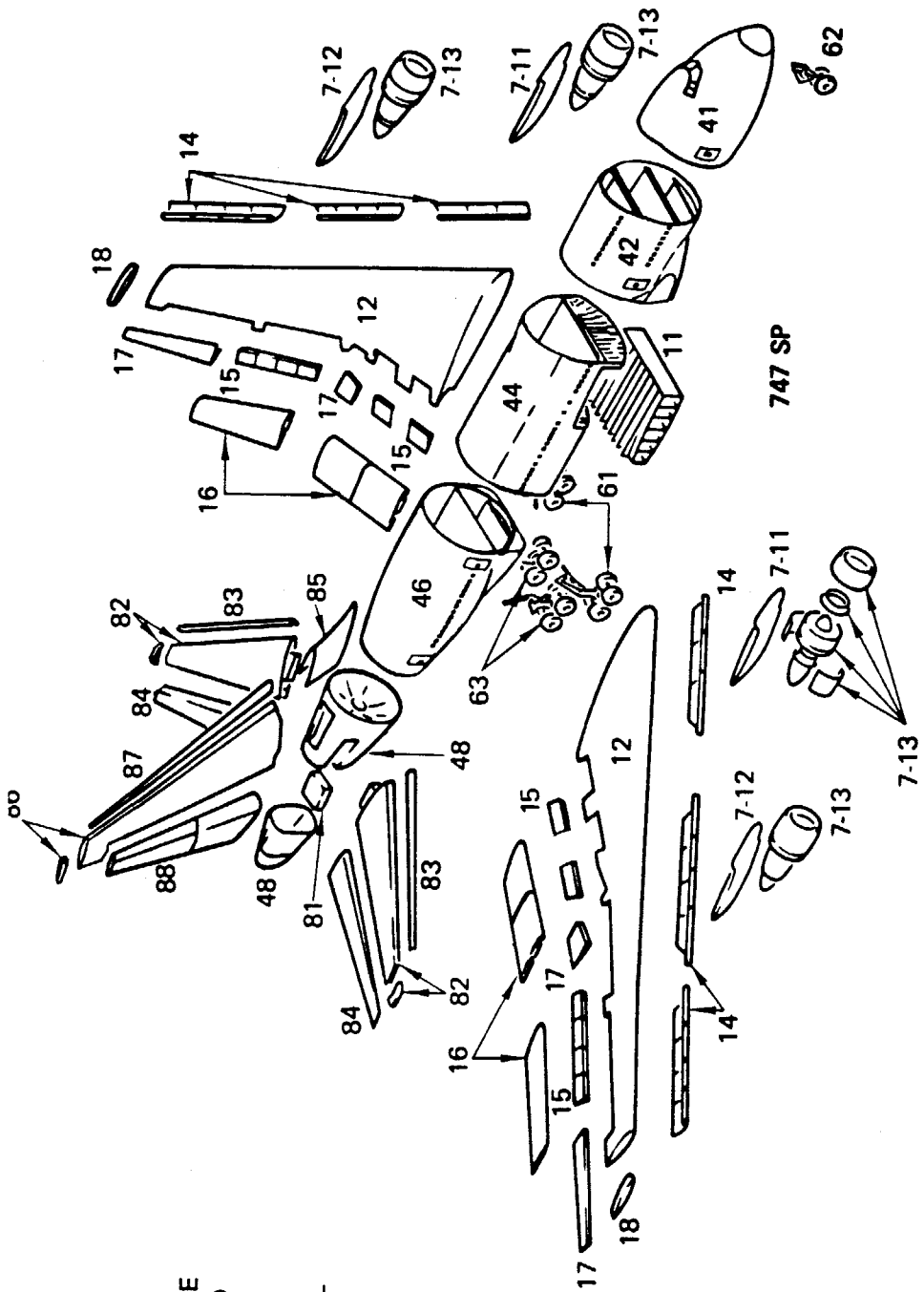


**GENERAL ARRANGEMENT 747SP**



**SECTION BREAKDOWN BY NUMBER 747**

**WARNING**  
this is uncontrolled data



- 14 WING LE
- 15 SPOILERS
- 16 FLAPS
- 17AILERONS
- 18 WING TIP
- 41 BODY SECTION-NOSE
- 42 BODY SECTION-FWD
- 44 BODY SECTION-CTR
- 46 BODY SECTION-AFT
- 48 BODY SECTION-TAIL
- 61 MAIN GEAR-OUTBD
- 62 NOSE GEAR
- 63 MAIN GEAR-INBD
- 81 STAB CTR SECTION
- 82 STABILIZER
- 83 STABILIZER L E
- 84 ELEVATORS
- 85 DORSAL FIN
- 86 FIN
- 87 FIN L E
- 88 RUDDER
- 7-11 STRUT-INBD
- 7-12 STRUT-OUTBD
- 7-13 POWER POD

**SECTIONAL BREAKDOWN 747SP**

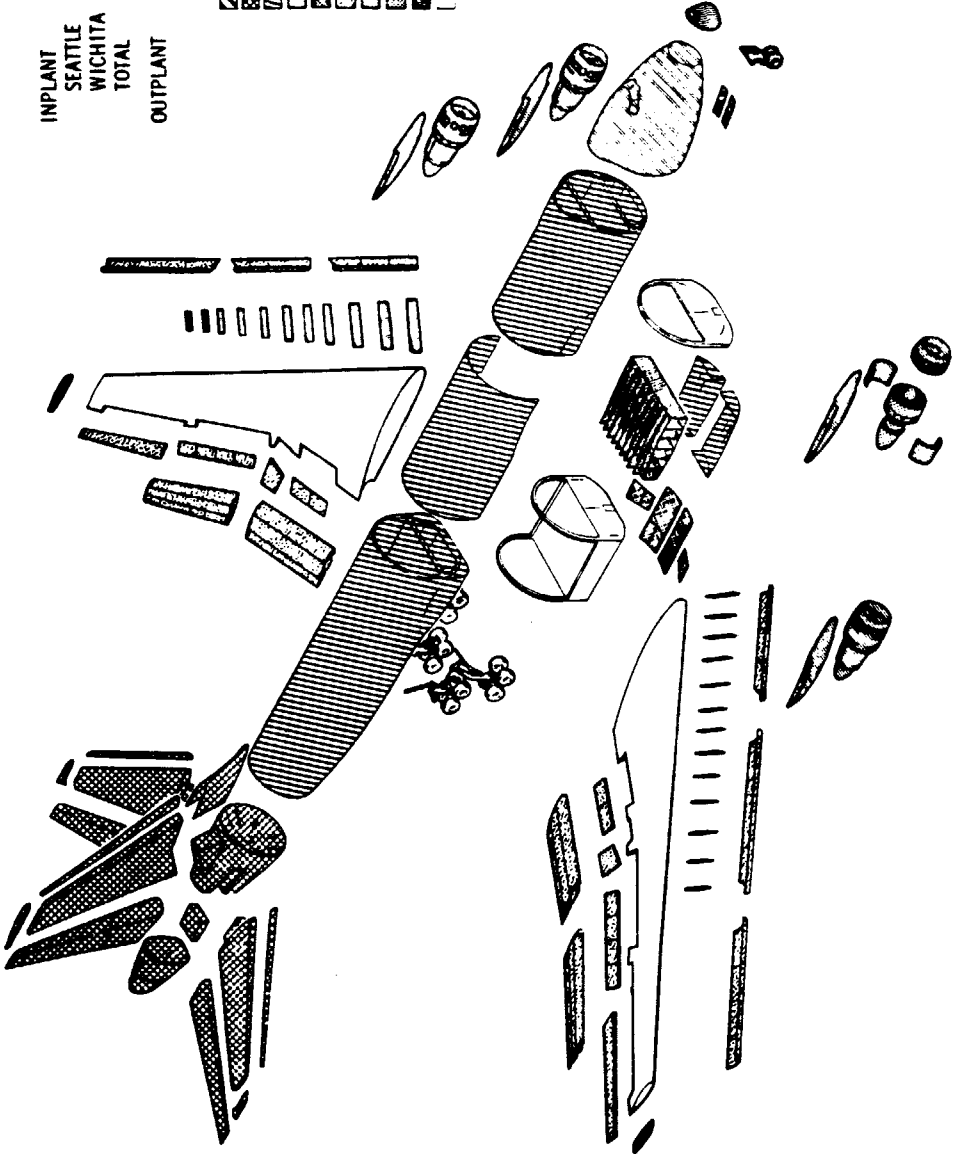
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illed data

INPLANT	WEIGHT	PRODUCTION EFFORT
SEATTLE	32.5%	54.1%
WICHITA	4.5%	5.0%
TOTAL	37.0%	59.1%
OUTPLANT	63.0%	40.9%

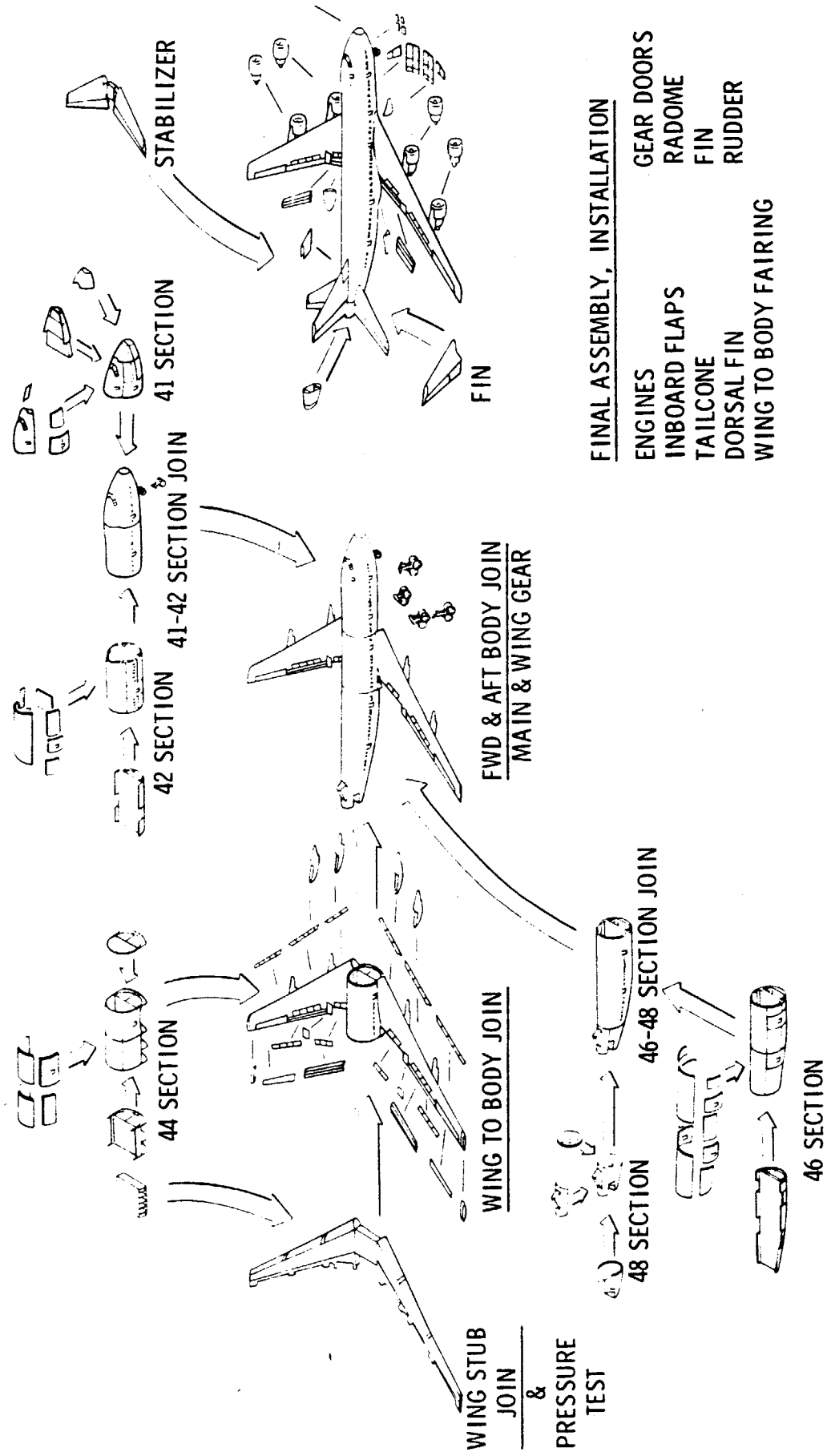
  

Legend	Supplier
[Diagonal lines /]	WICHITA
[Diagonal lines \]	LING-TEMCO-VOUGHT
[Cross-hatch]	NORTHROP-NORAIR
[Horizontal lines]	CLEVELAND PNEUMATIC TOOL CO.
[Vertical lines]	GOODYEAR
[Stippled]	FAIRCHILD-HILLER
[Dotted]	ROHR CORPORATION
[Wavy lines]	PRATT & WHITNEY
[Solid black]	OPEN
[White]	SEATTLE AREA



**SECTION BREAKDOWN BY VENDOR 747**

**WARNING**  
this is uncontrolled data



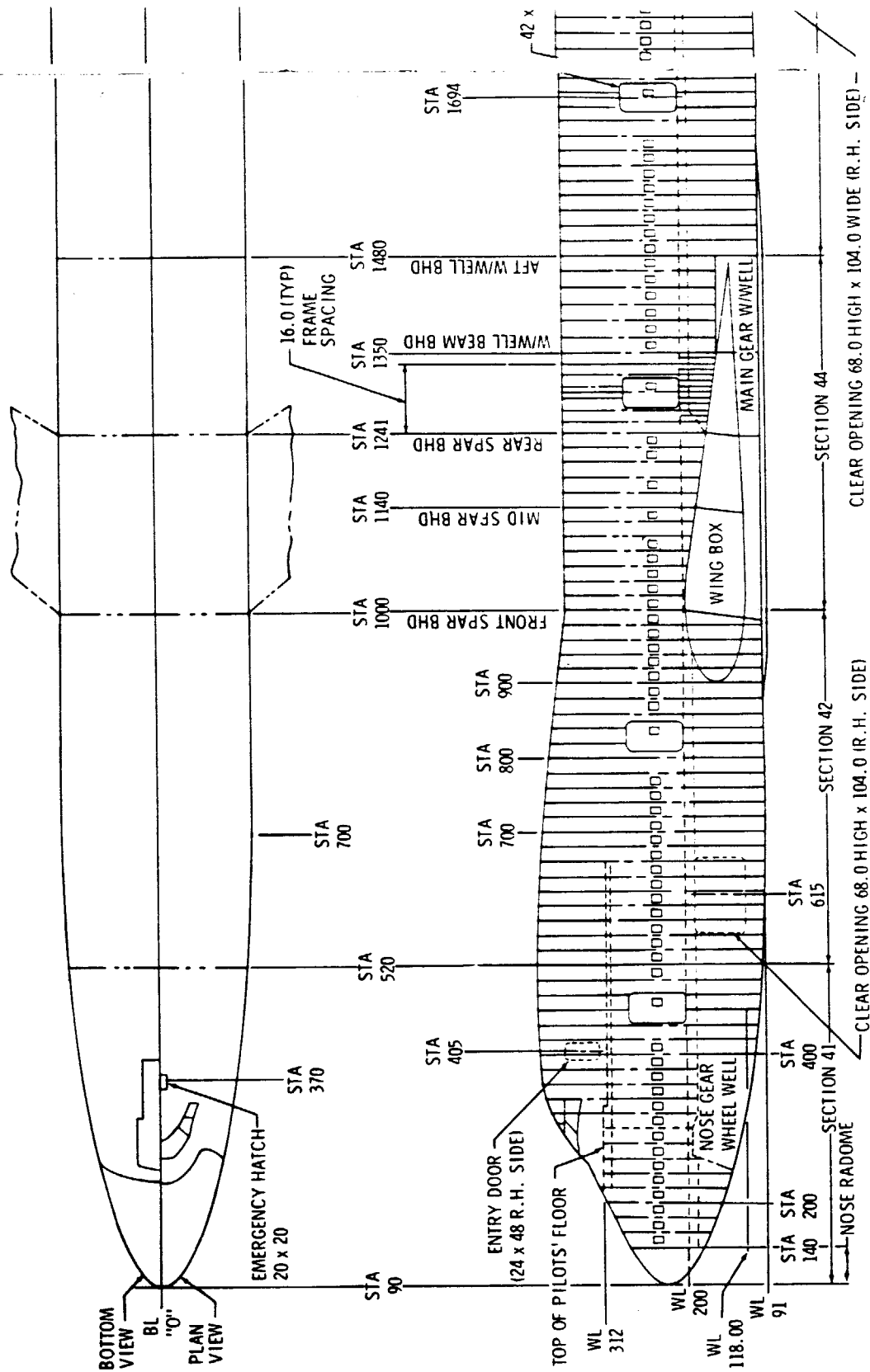
**FINAL ASSEMBLY, INSTALLATION**

- ENGINES
- INBOARD FLAPS
- TAILCONE
- DORSAL FIN
- WING TO BODY FAIRING
- GEAR DOORS
- RADOME
- FIN
- RUDDER

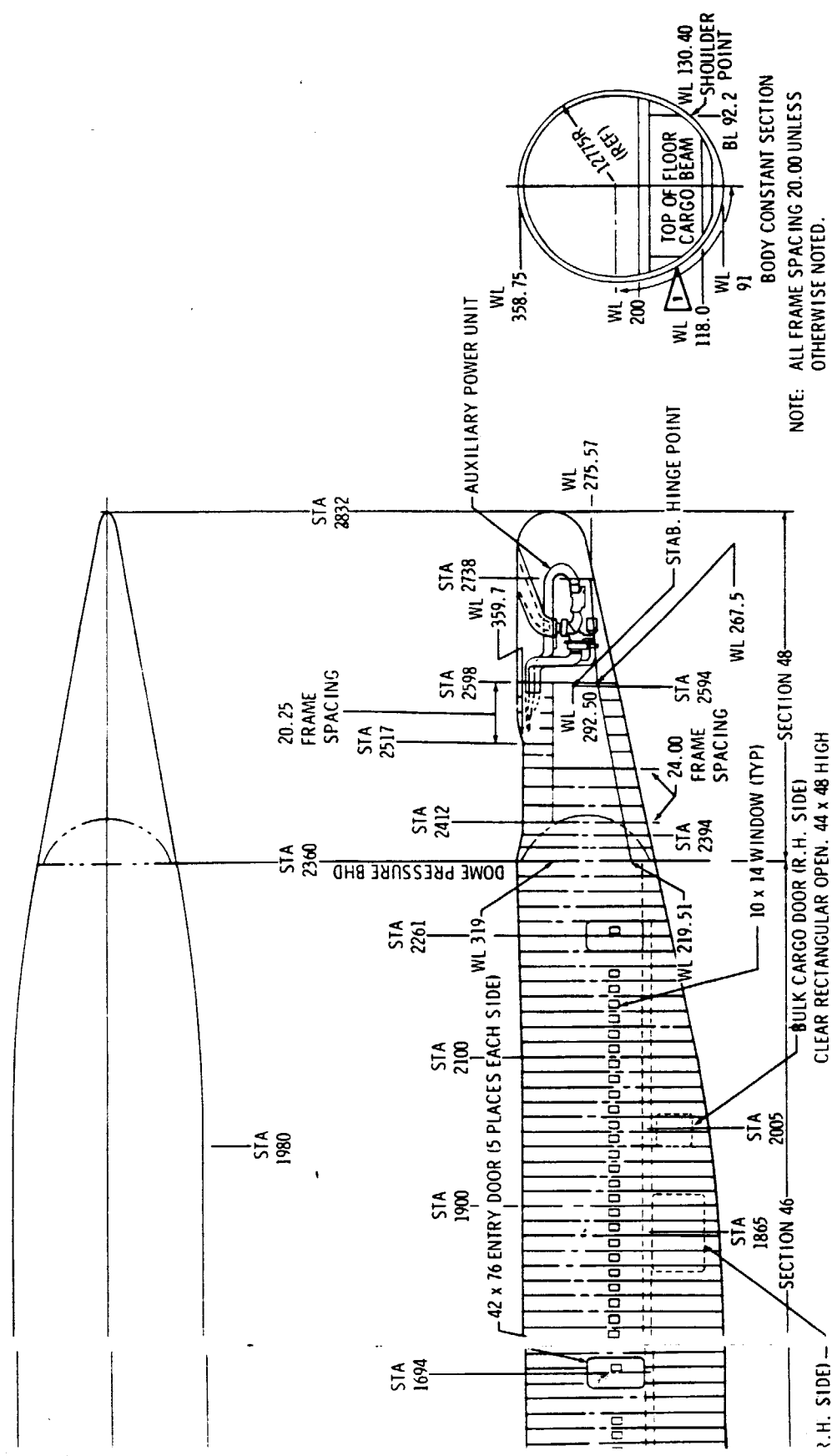
**MANUFACTURING SEQUENCE 747/747SP**

**WARNING**  
this is uncontrolled

**G**  
of data



**C/L DIAGRAM FUSELAGE 747**



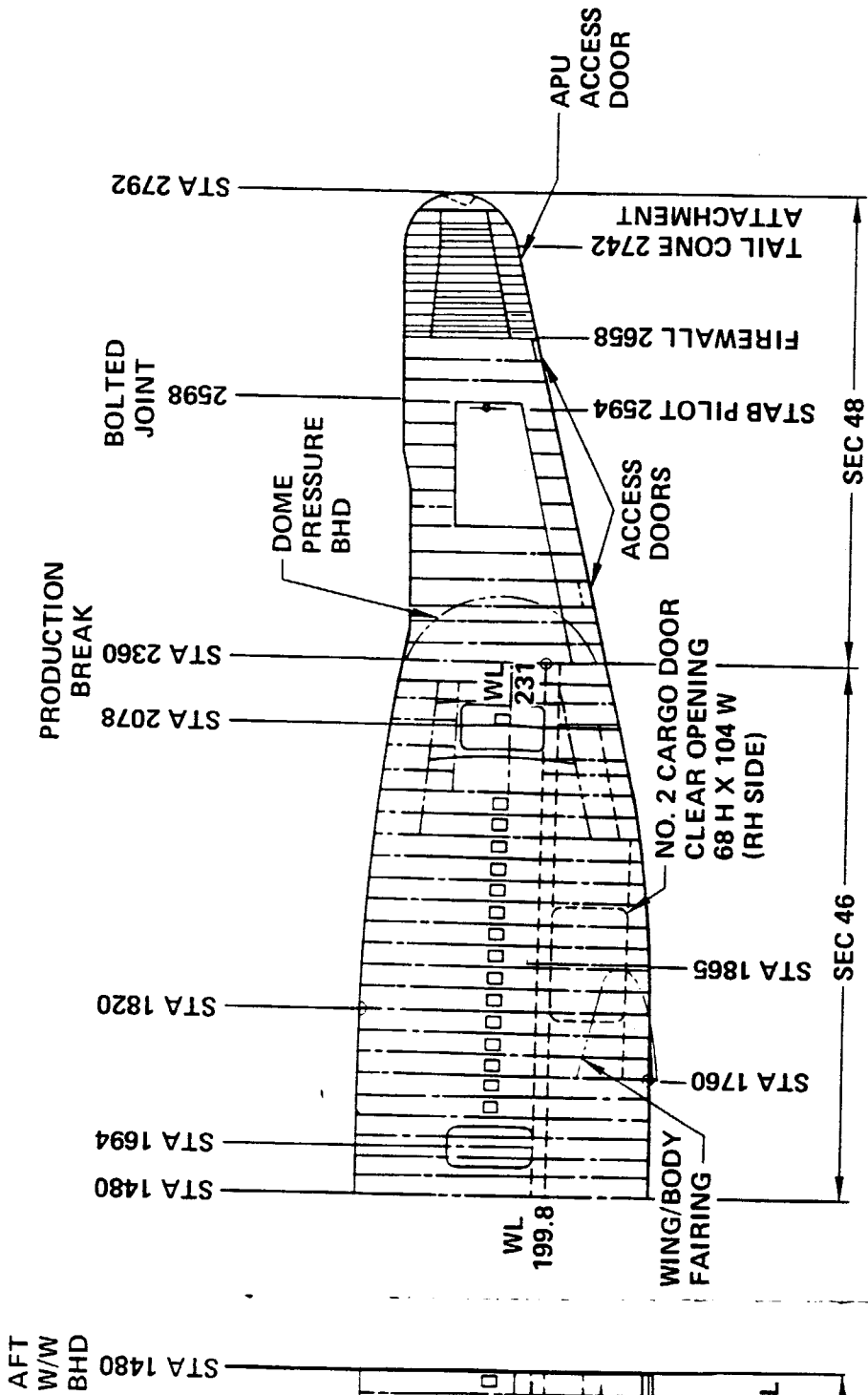
NOTE: ALL FRAME SPACING 20.00 UNLESS OTHERWISE NOTED.  
 2ND DEGREE CURVE - LOWER LOBE FROM WL 231 TO BL 0 AT WL 91.



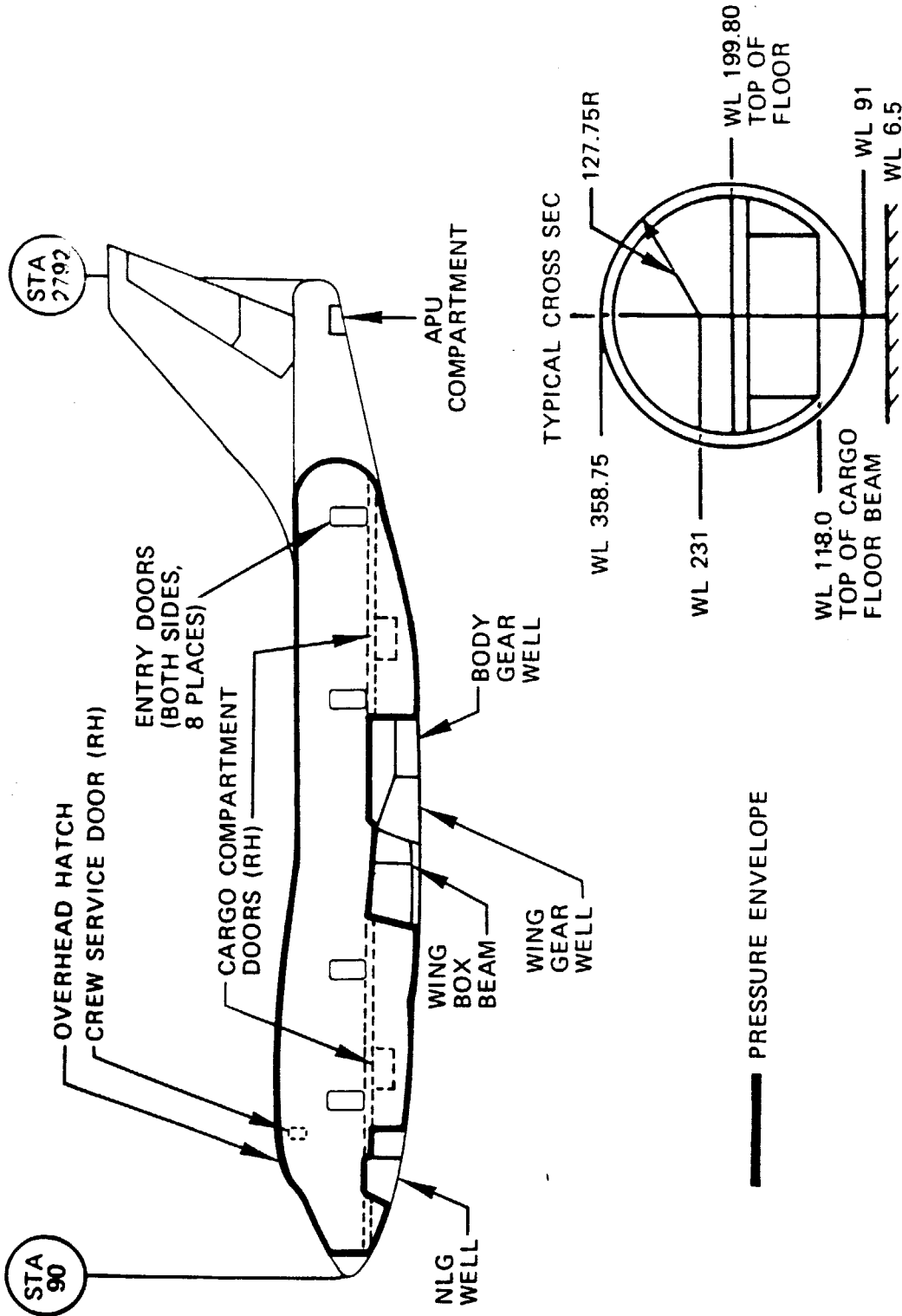
**WARN**  
 this is uncontrol







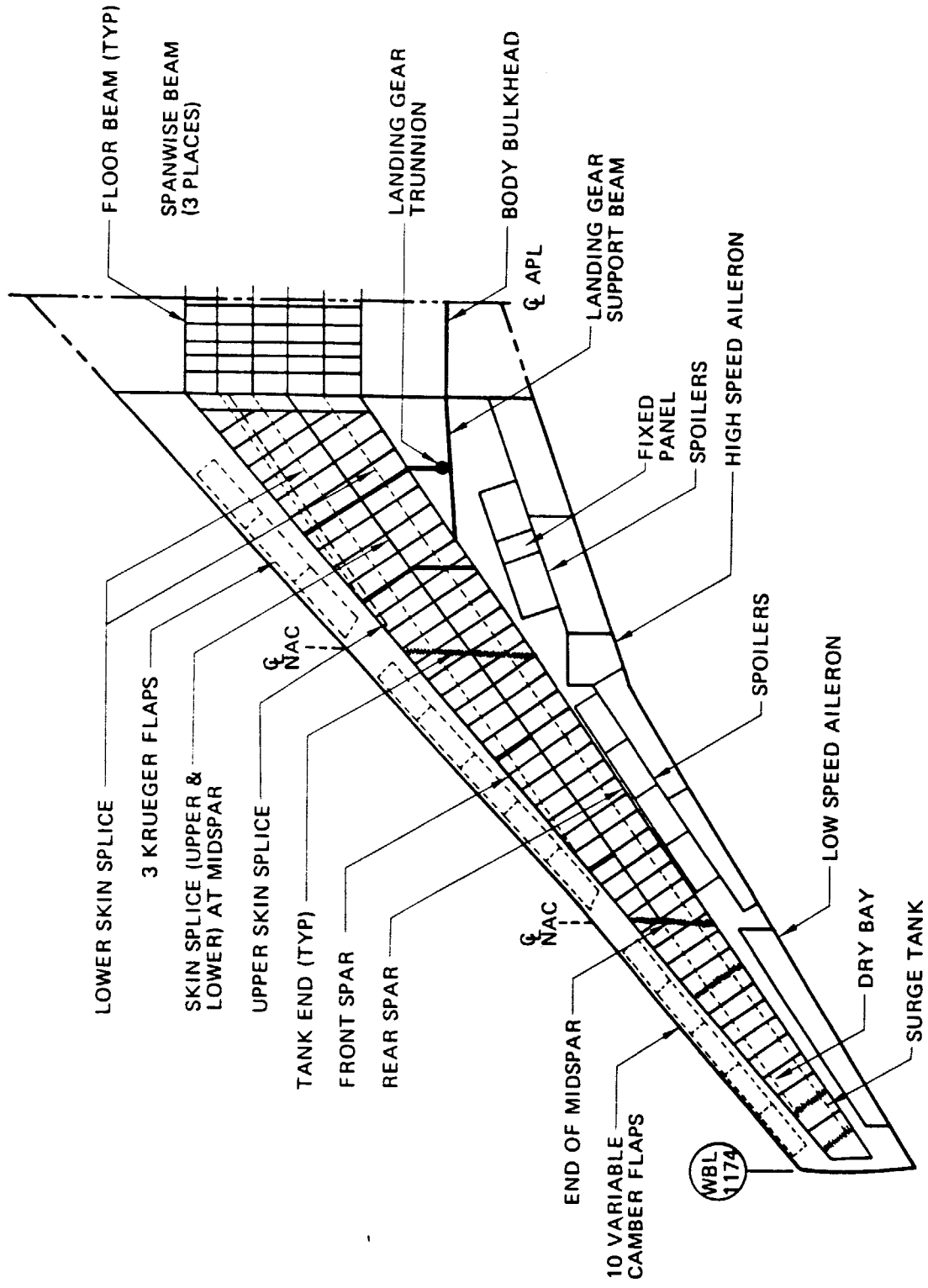
# BODY DIAGRAM-AFT 747SP



**BODY DIAGRAM 747SP**

11

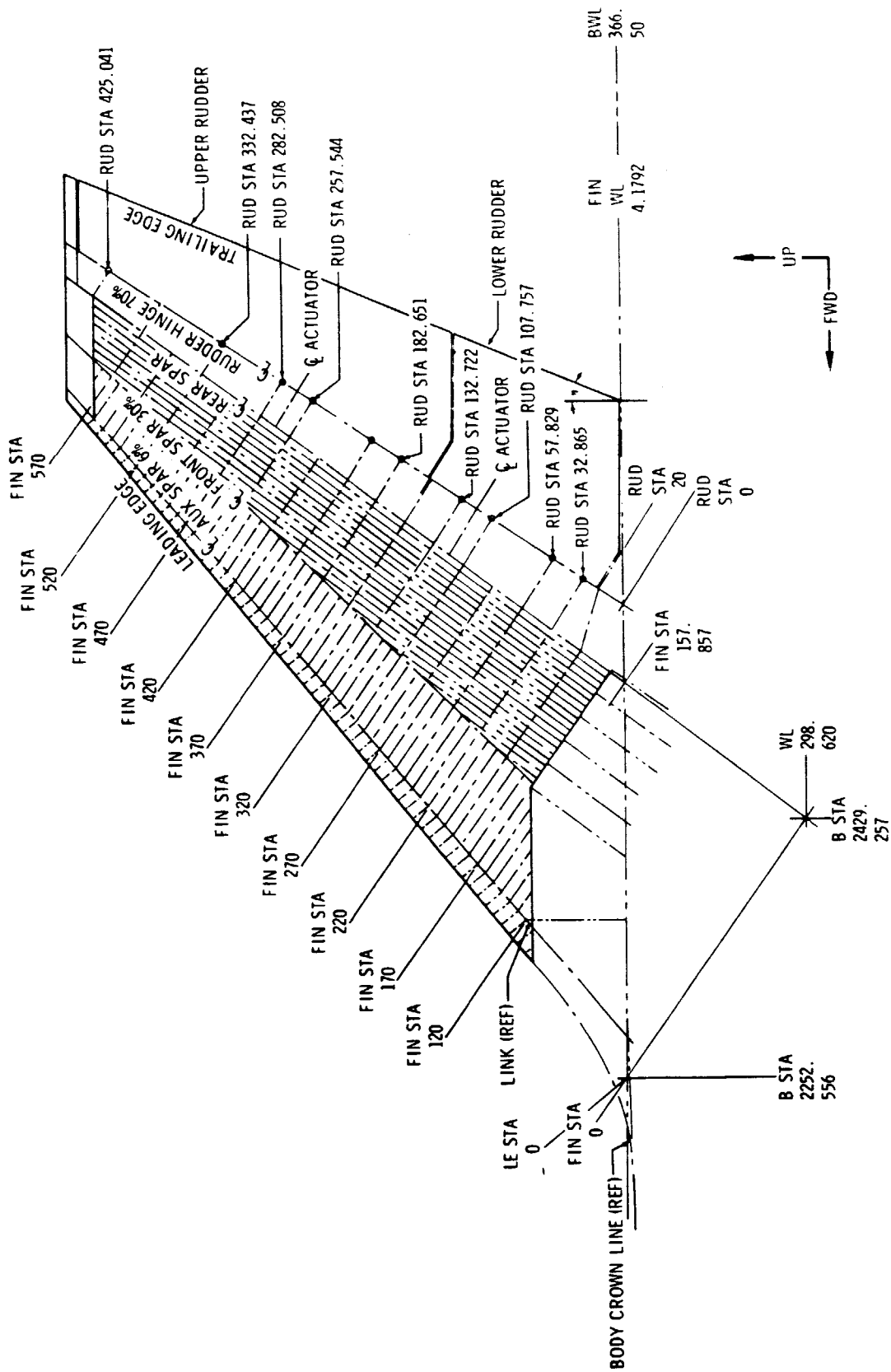
**WARNING**  
this is uncontrolled data



WING STRUCTURE DIAGRAM 747SP

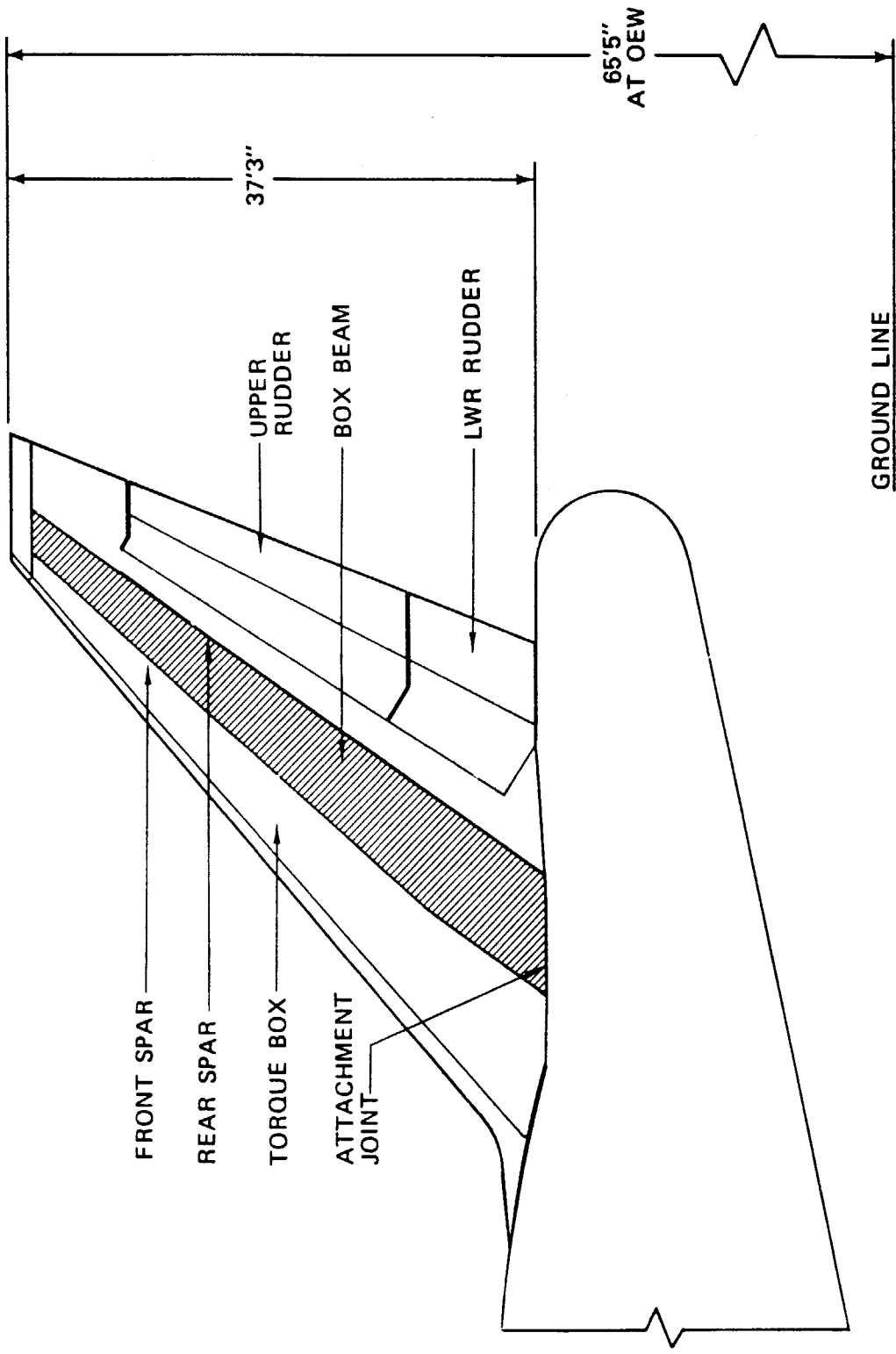






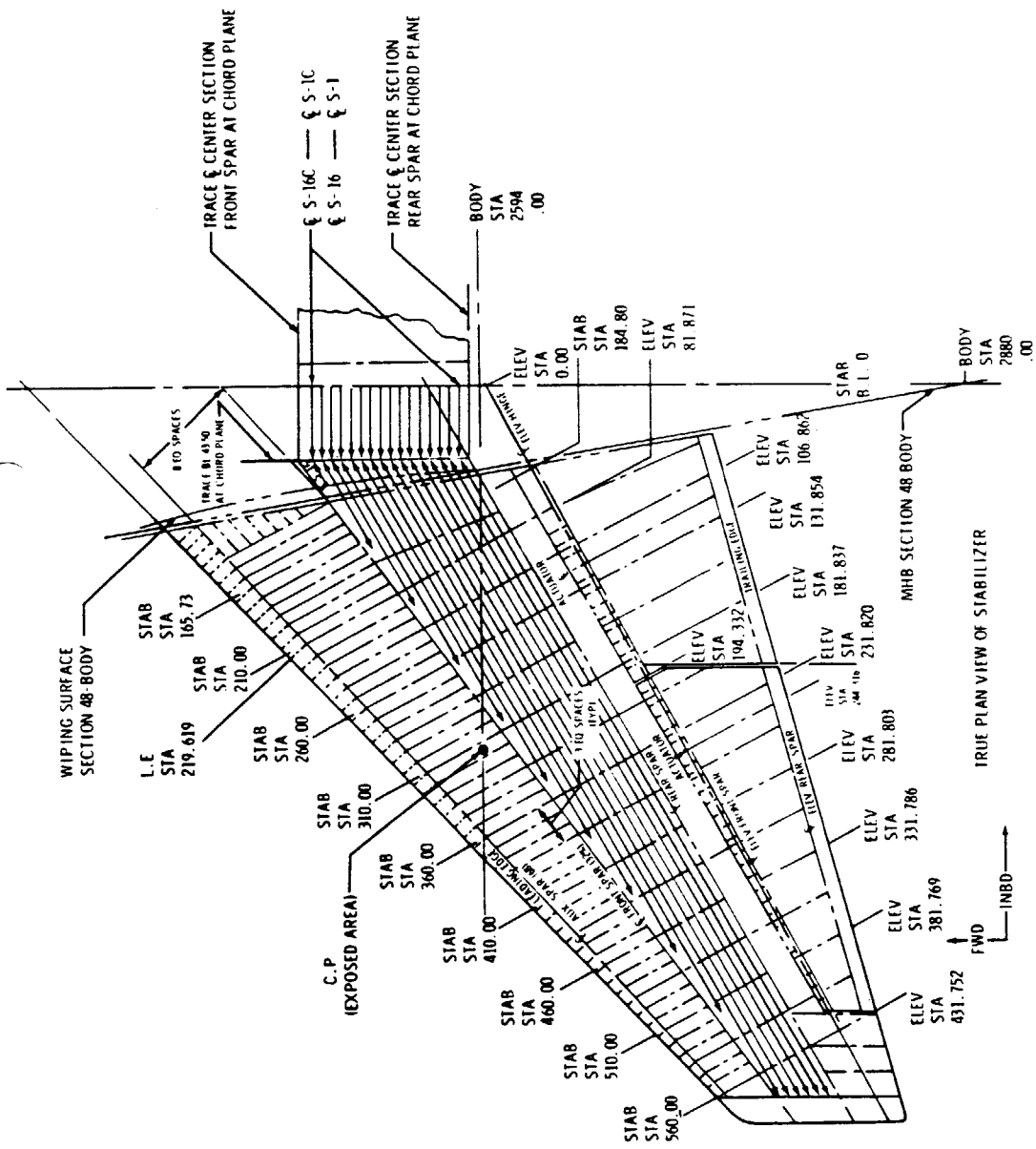
**C/L DIAGRAM VERTICAL STABILIZER 747**

**WARNING**  
this is uncontrolled data



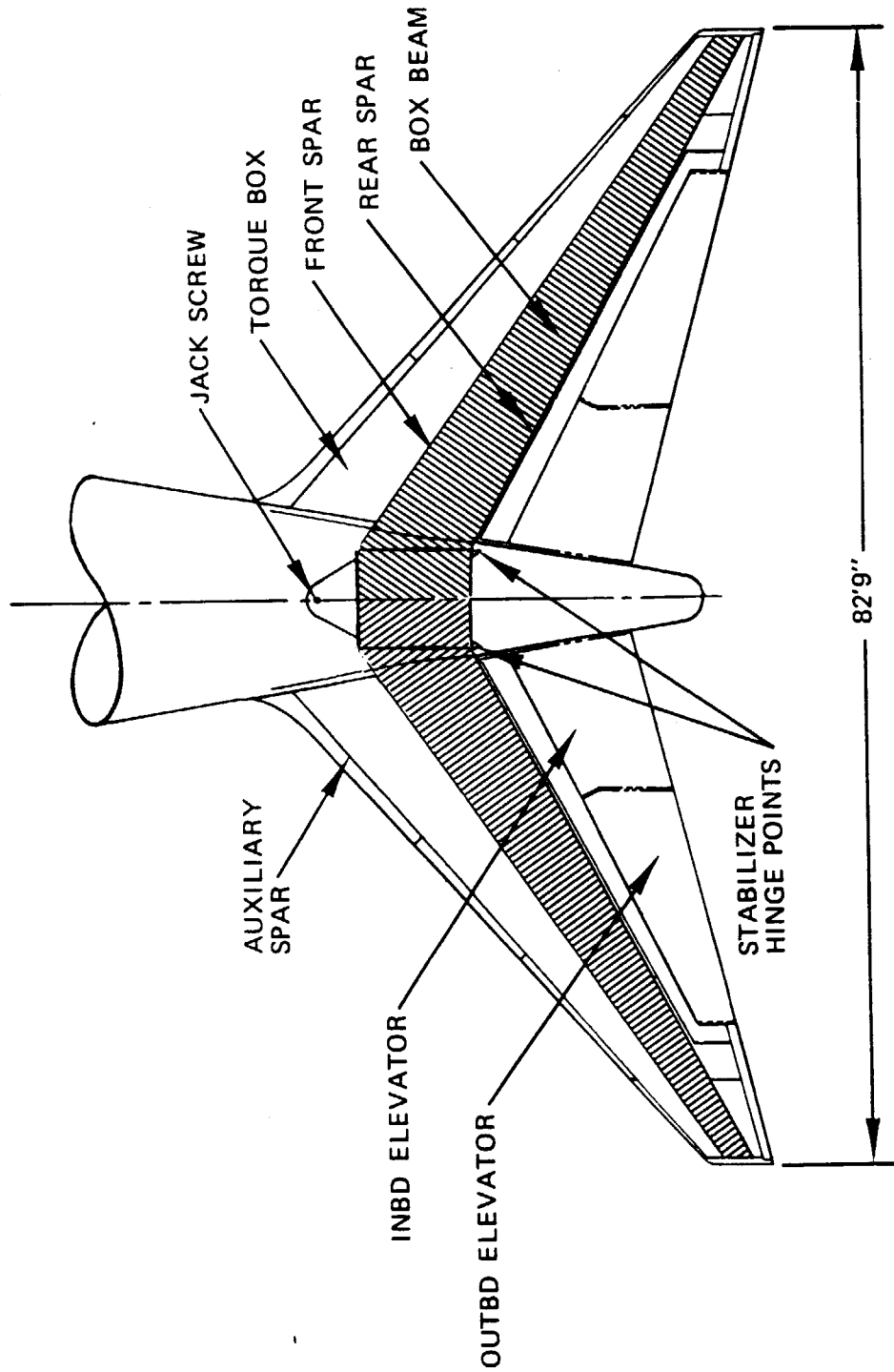
**VERTICAL FIN LAYOUT 747SP**





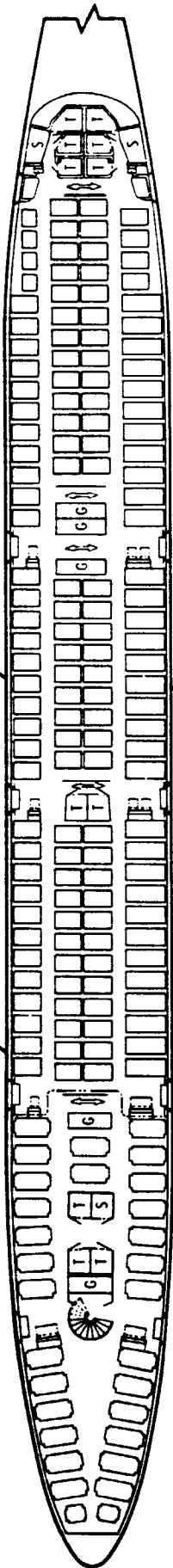
**C/L DIAGRAM HORIZONTAL STABILIZER 747**

**WARNING**  
this is uncontrolled data

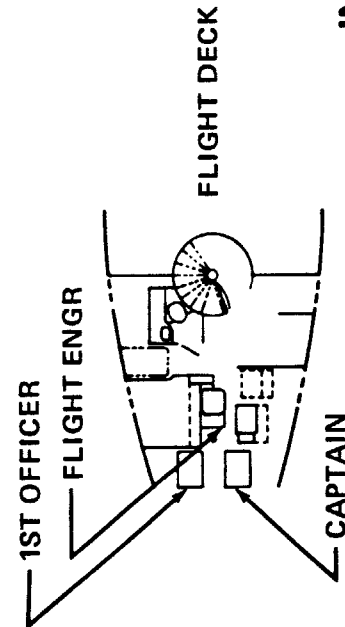
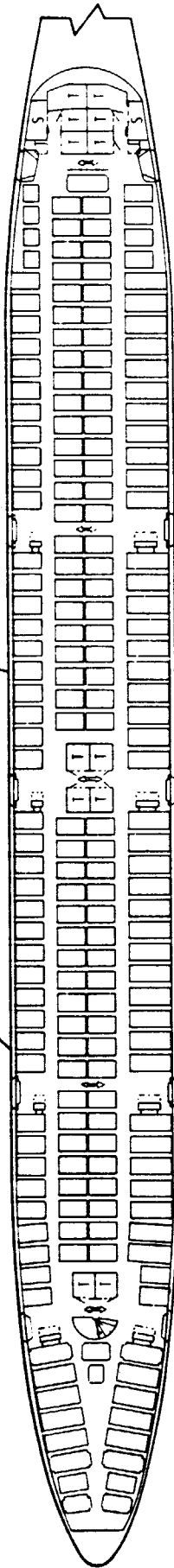


**HORIZONTAL TAIL LAYOUT 747SP**

MIXED CLASS-BASIC  
366/394 SEATS TOTAL



ALL ECONOMY-OPTION  
446 SEATS 9 ABREAST AT 34"  
490 SEATS 10 ABREAST AT 34"

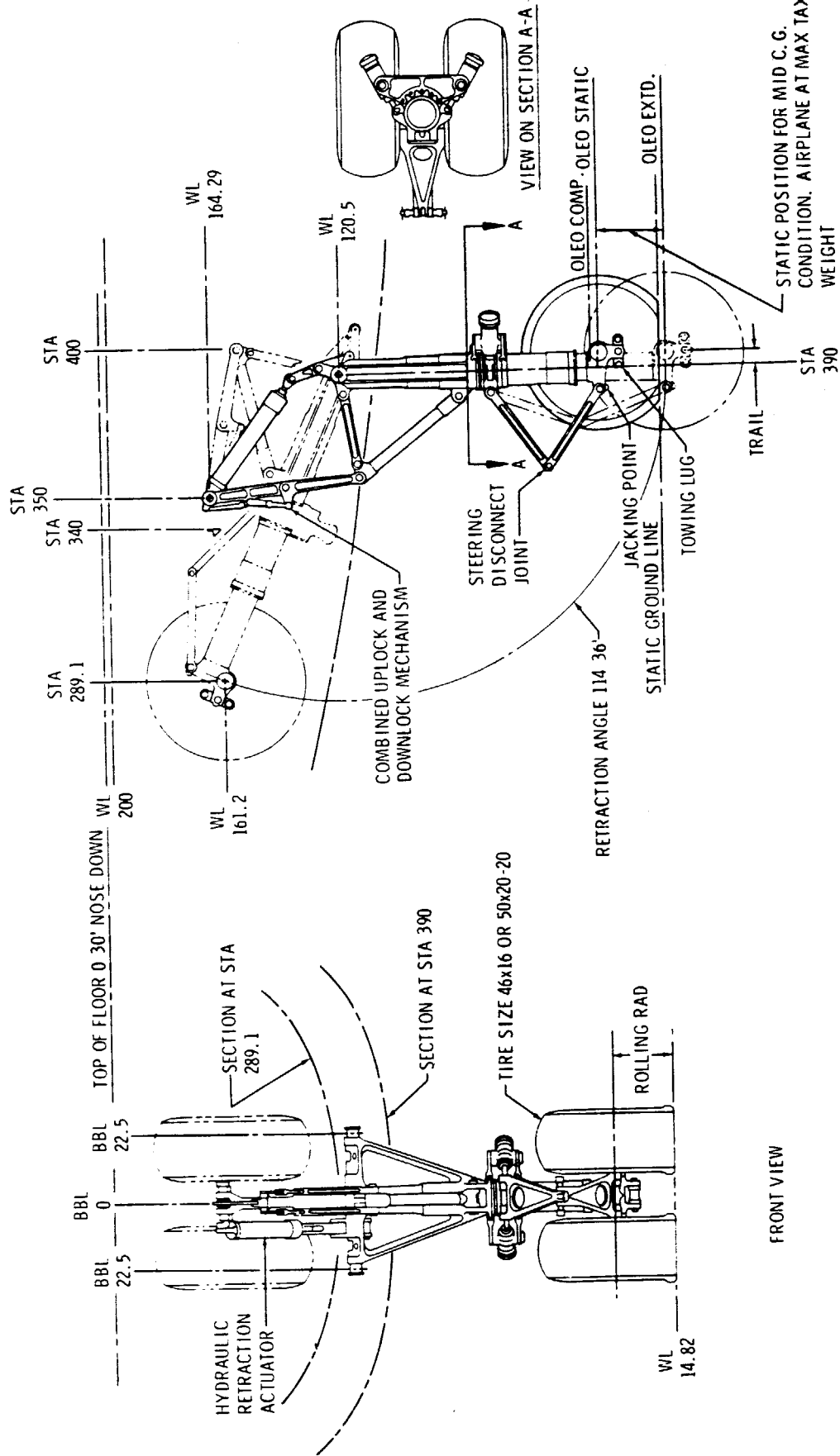


42" x 76" DOOR  
G GALLEY  
T TOILET  
S STORAGE  
CROSS AISLE

## INTERIOR ARRANGEMENT 747

19

**WARNING**  
this is uncontrolled data

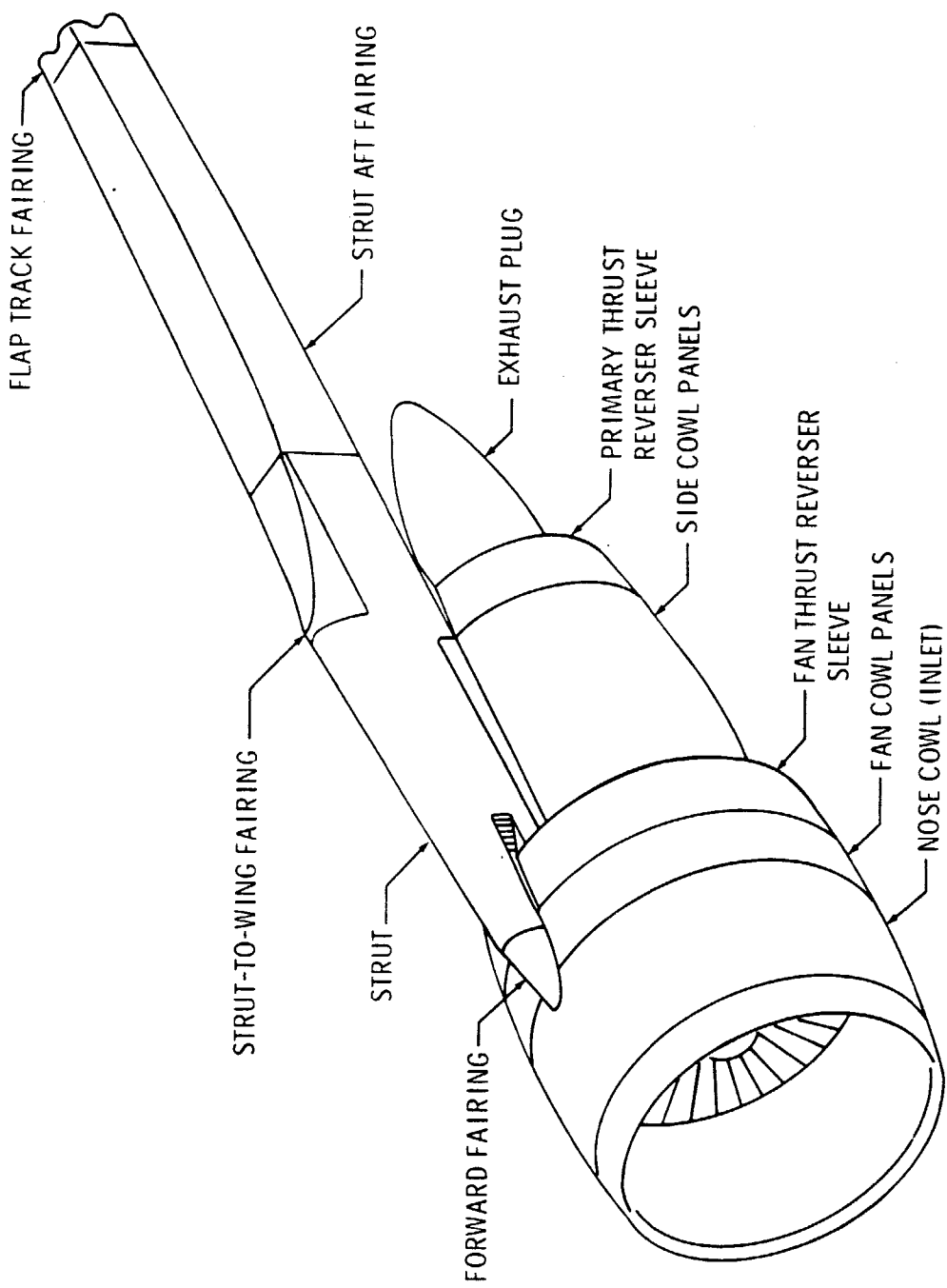


# LANDING GEAR-NOSE ARRANGEMENT 747

**WARNING**  
this is uncontrolled

G  
d data

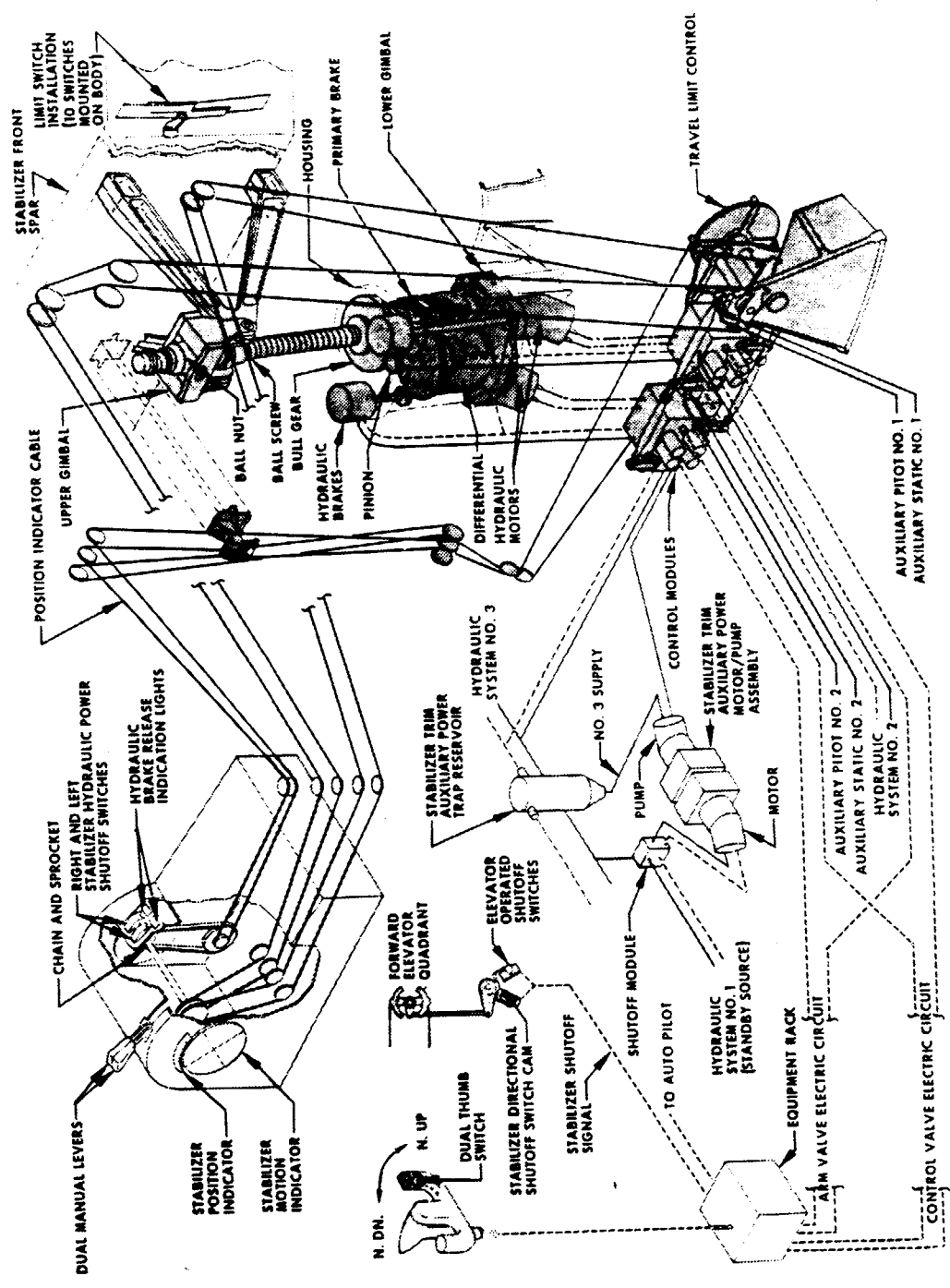




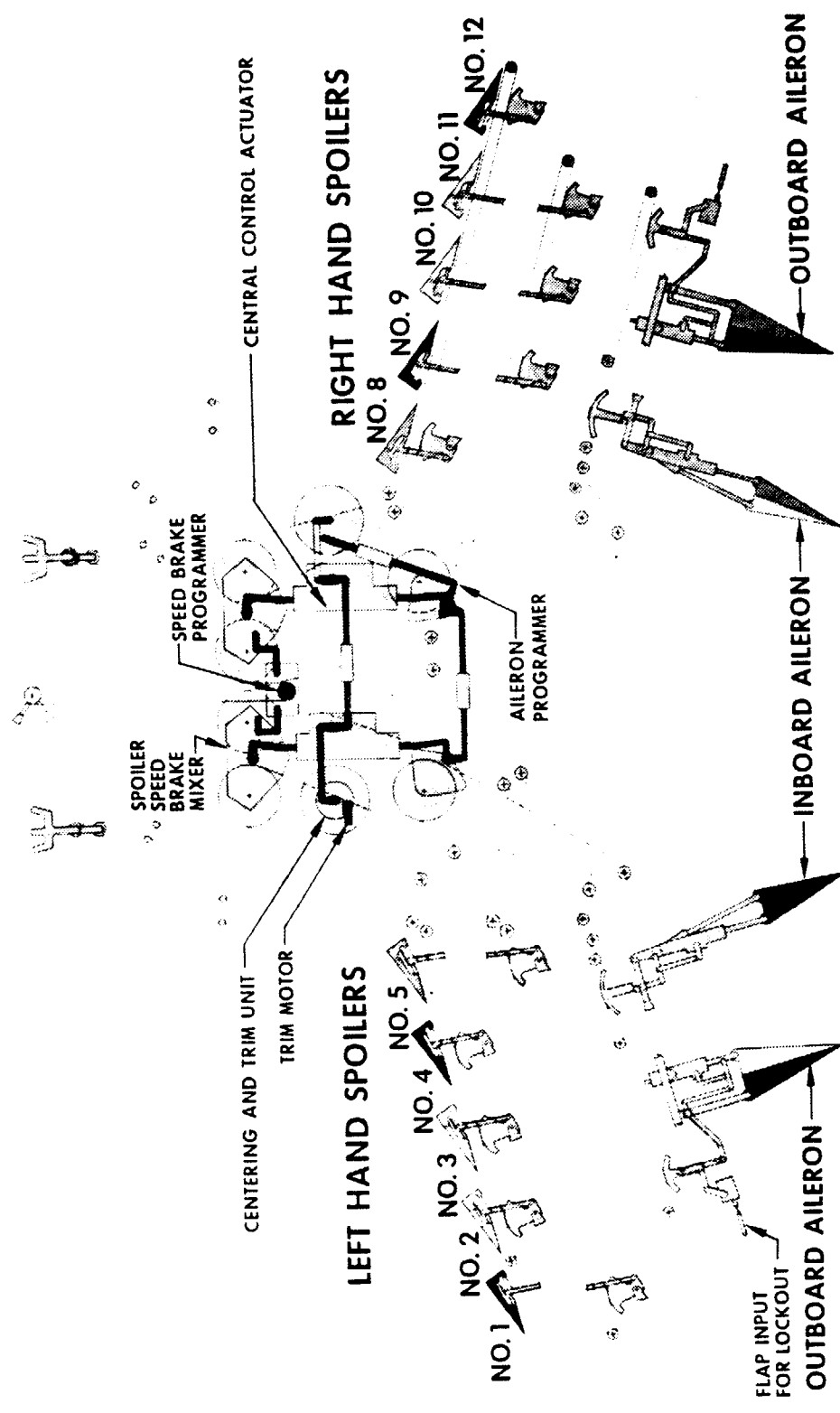
**WARNING**  
this is uncontrolled di

**POWER PLANT 747**

**WARNING**  
this is uncontrolled data



# STABILIZER TRIM SYSTEM 747

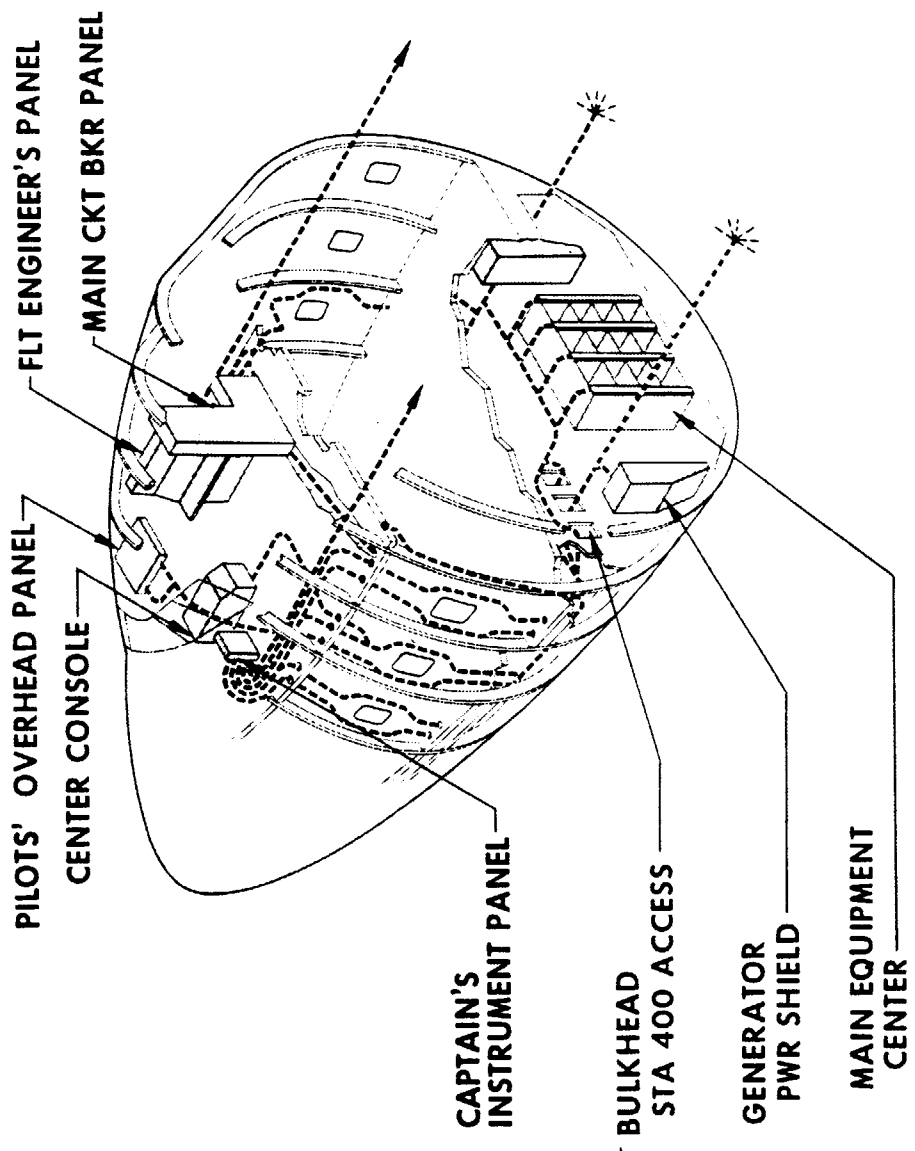


**LATERAL CONTROL SYSTEM 747**

**WARNING**  
this is uncontrol!

NG  
illeg data

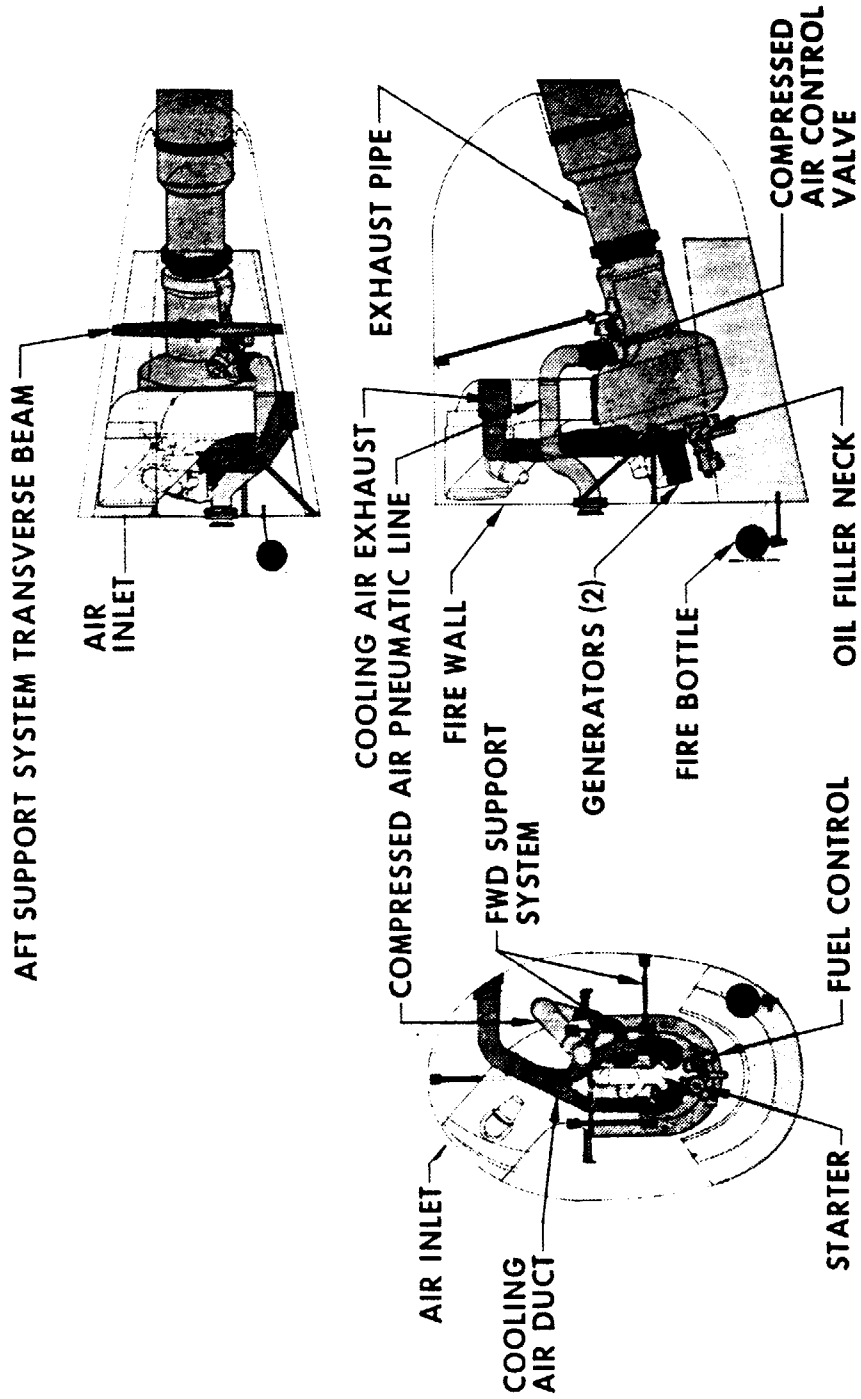




**WIRE BUNDLE ROUTING 747**

25

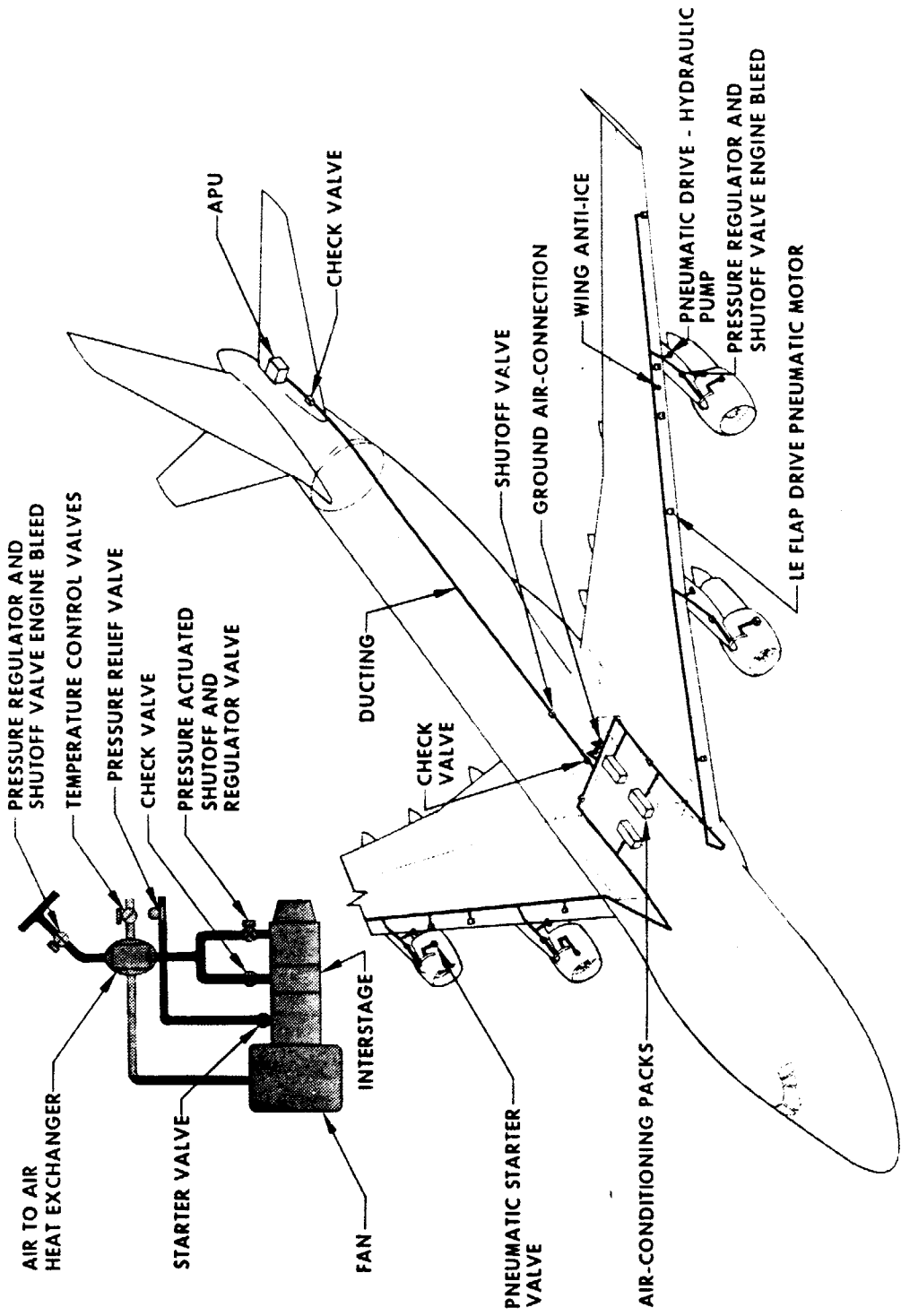
**WARNING**  
this is uncontrolled data



**APU INSTALLATION 747**

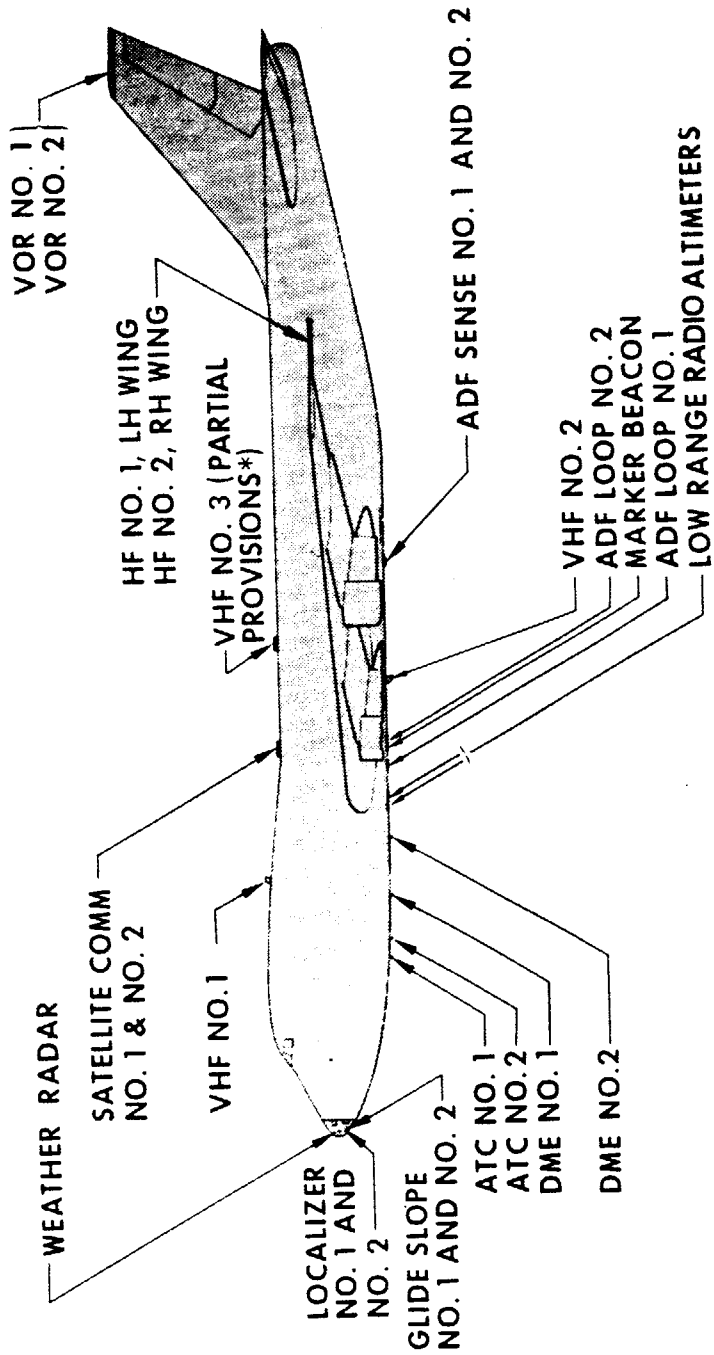
**WARNING**  
this is uncontrolled d

**G**  
ed data



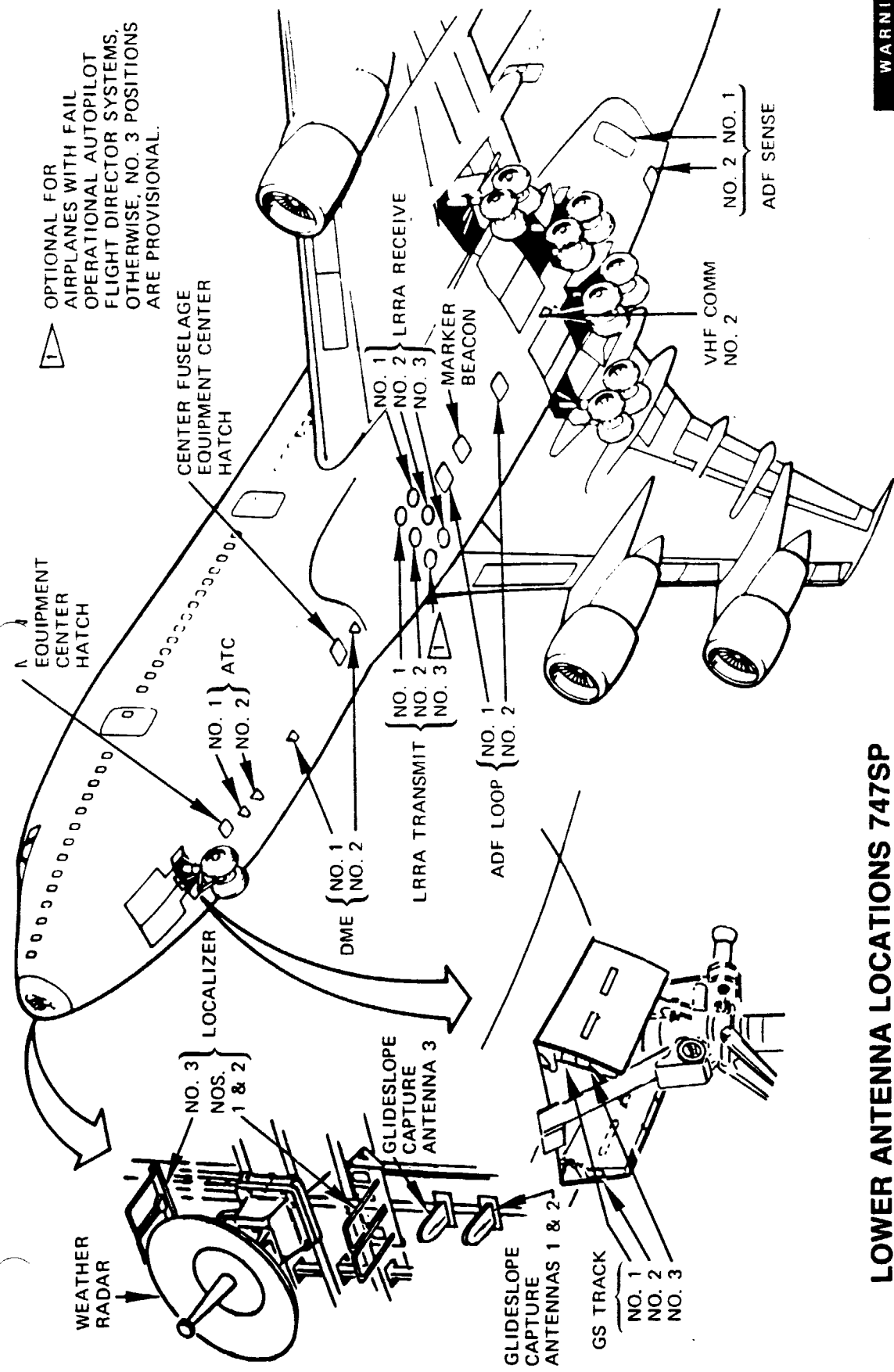
# PNEUMATIC SYSTEMS 747

**WARNING**  
this is uncontrolled data



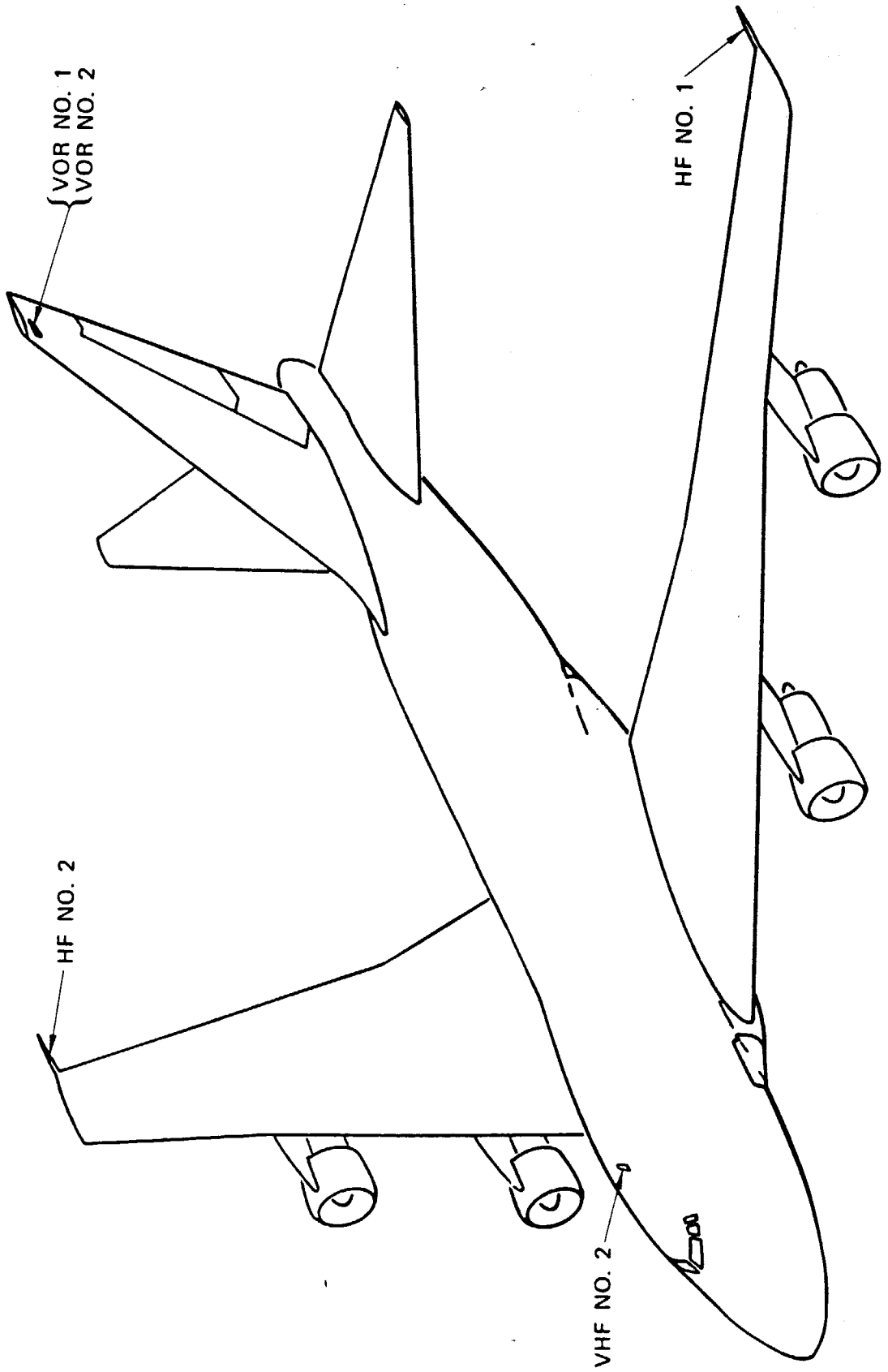
\* PARTIAL PROVISIONS CONSIST OF STRUCTURAL PROVISIONS FOR THE ANTENNA PLUS A COAXIAL CABLE BETWEEN THE ANTENNA LOCATION AND THE MAIN EQUIPMENT CENTER.

## ANTENNA LOCATIONS 747



**WARNING**  
this is uncontrolled data

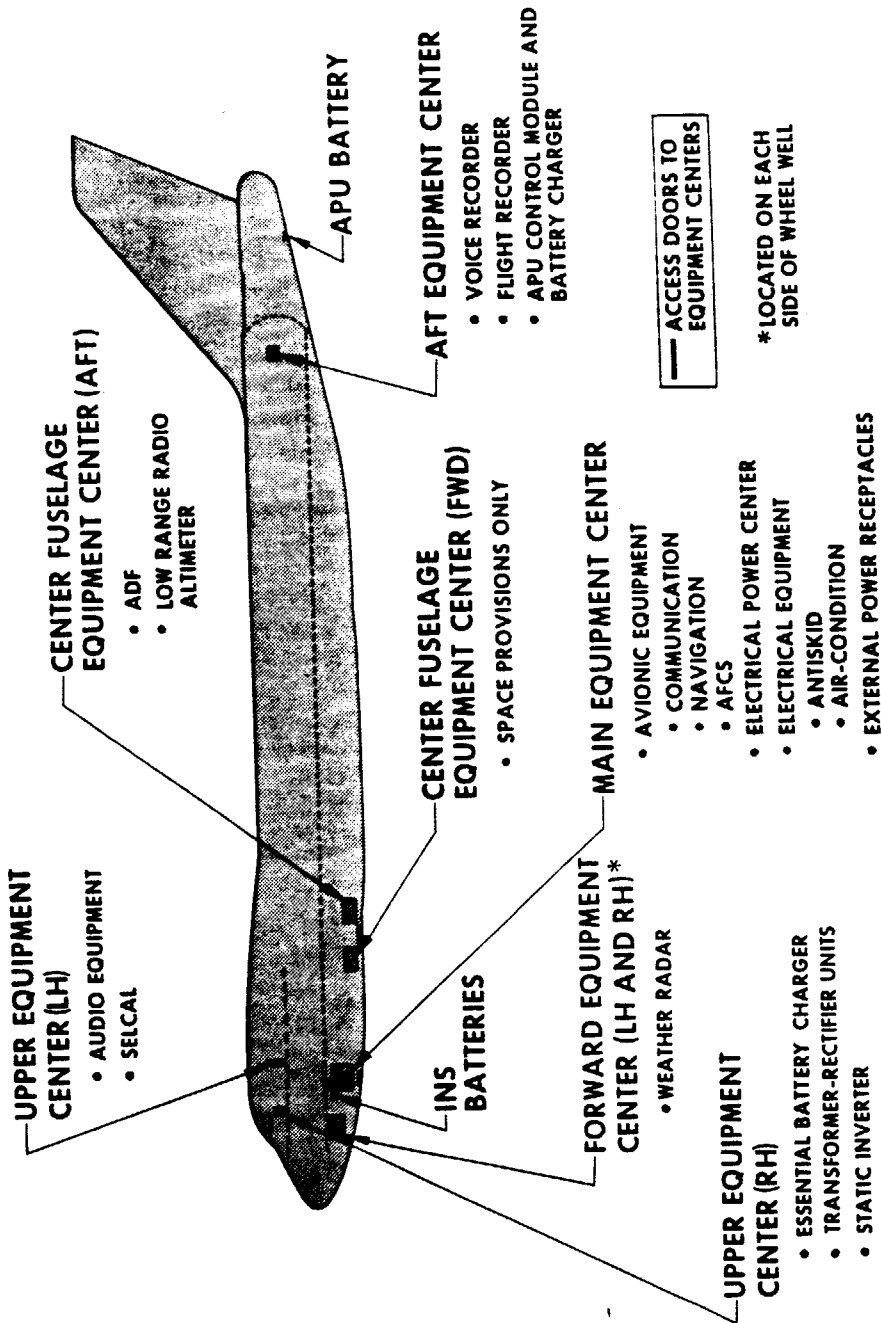
**LOWER ANTENNA LOCATIONS 747SP**



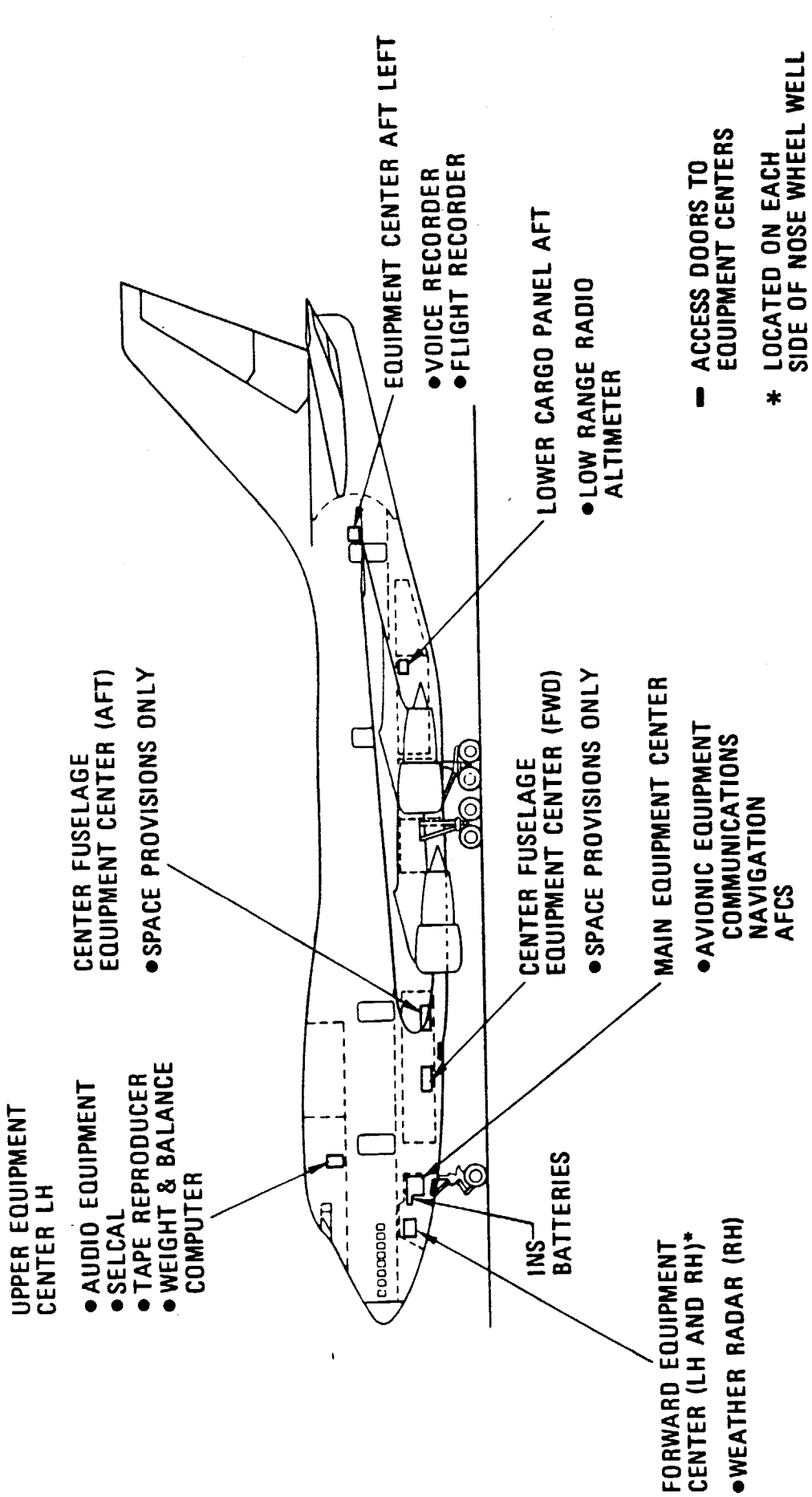
WARNING  
this is uncontrolled data

### UPPER ANTENNA LOCATIONS 747SP

NG  
led data

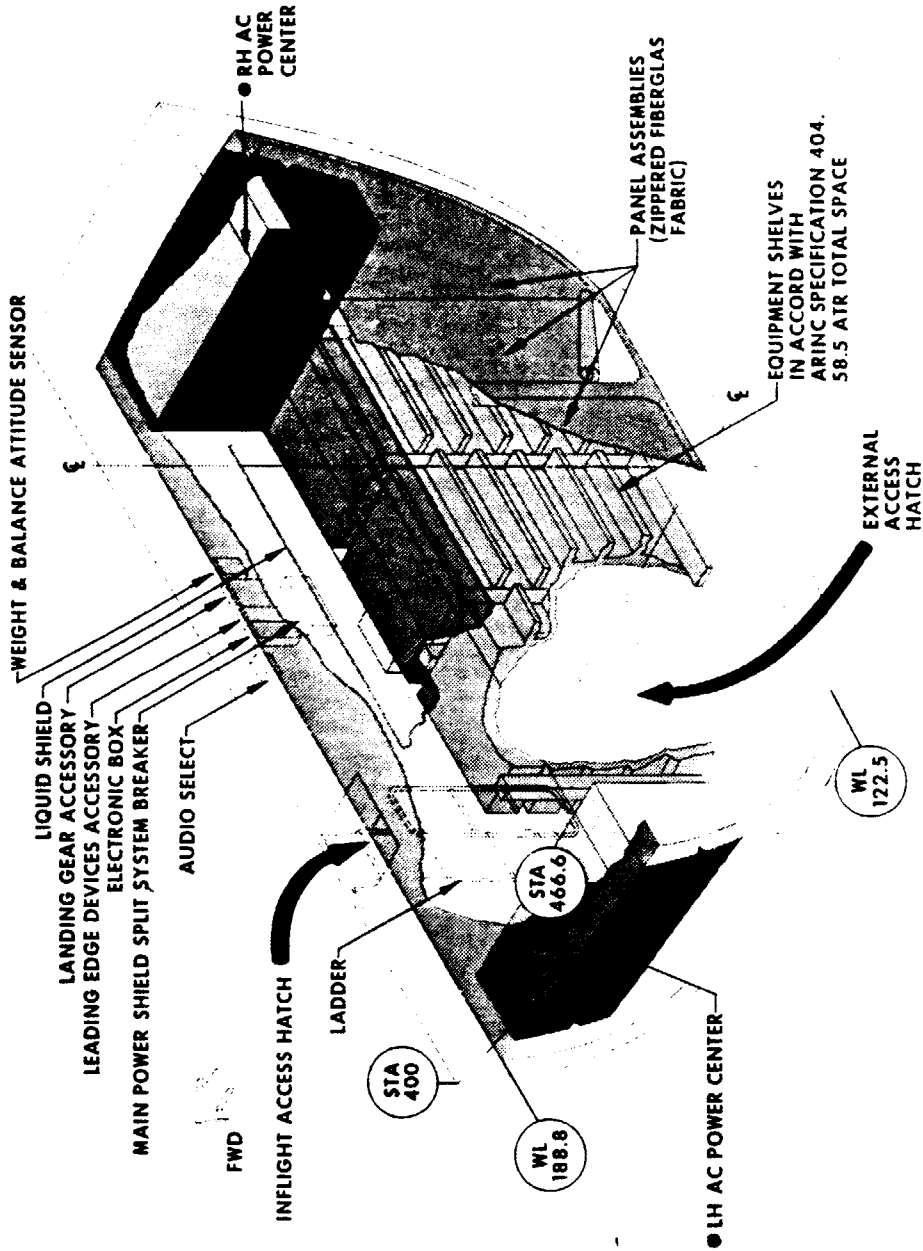


## ELECTRICAL/ELECTRONIC EQUIP. LOC. 747



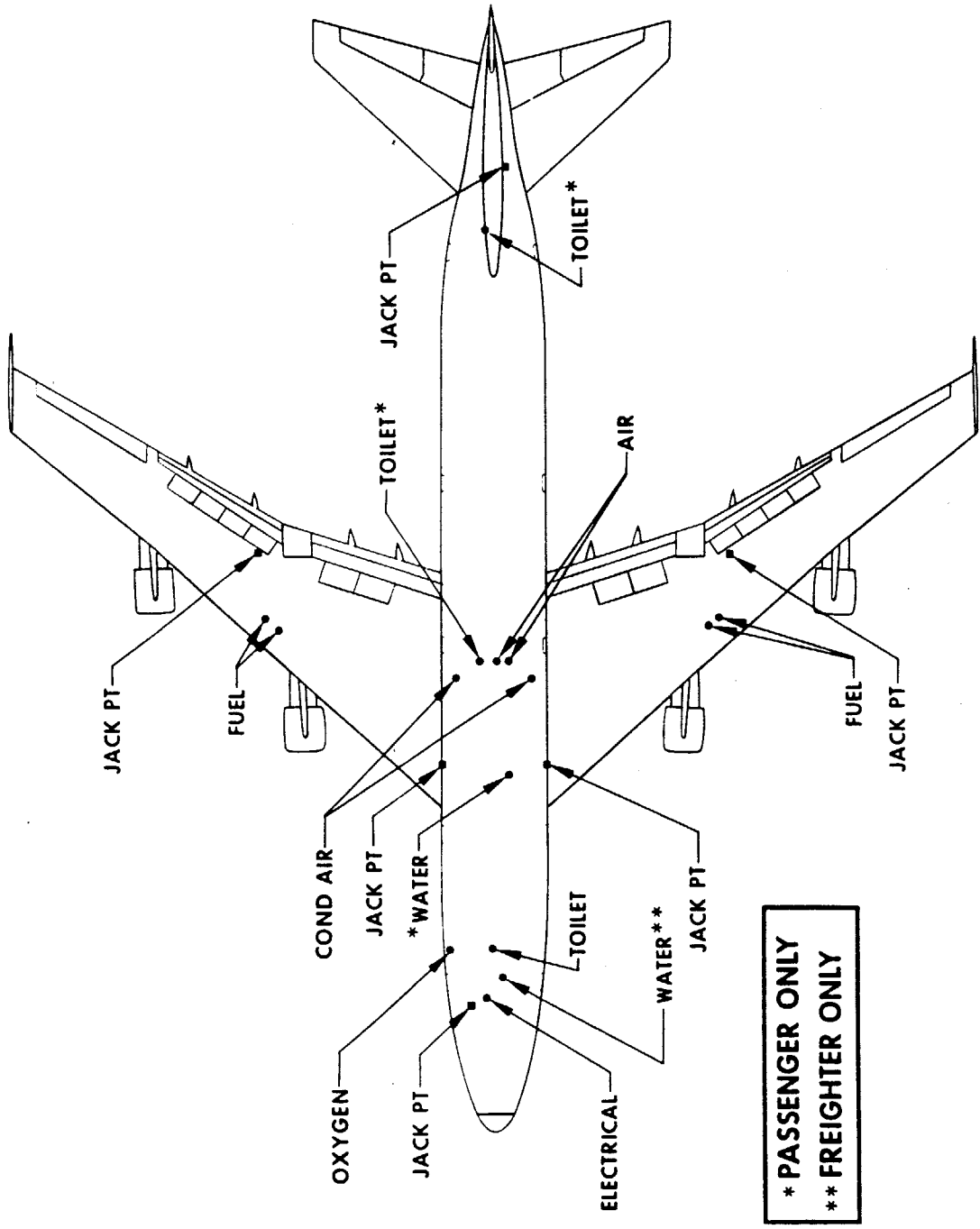
## ELECTRONIC EQUIPMENT LOCATIONS 747SP





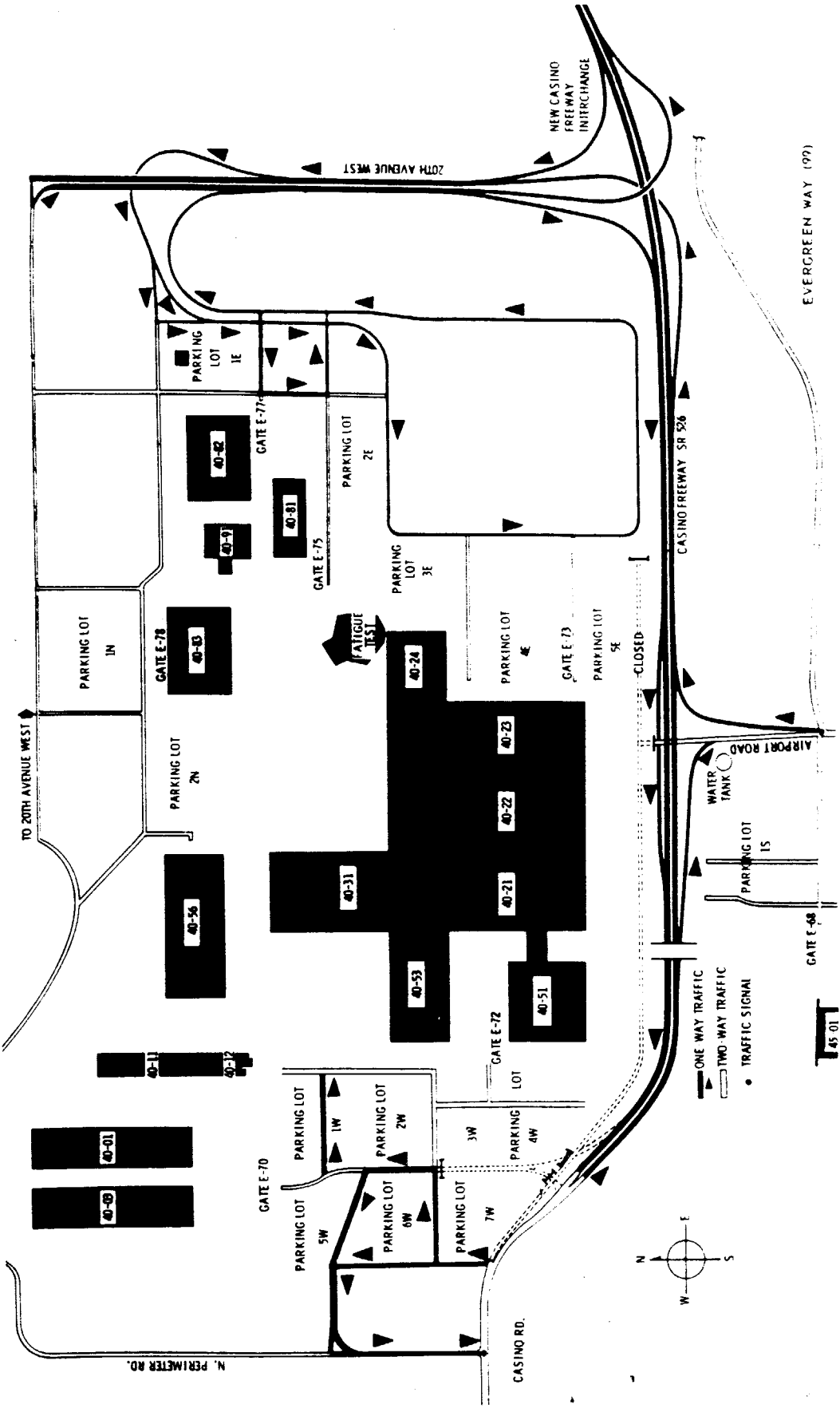
# MAIN EQUIPMENT CENTER 747

**WARNING**  
this is uncontrolled data



\* PASSENGER ONLY  
\*\* FREIGHTER ONLY

SERVICE CONNECTION LOCATIONS 747



**EVERETT FACILITY**

35

**WARNING**  
this is uncontrolled data

## ABBREVIATIONS

ADCN ADVANCE DRAWING CHANGE NOTICE  
 ADF AUTOMATIC DIRECTION FINDER  
 AL ALUMINUM  
 ALT ALTITUDE  
 ALTM ALTIMETER  
 AN AIR FORCE - NAVY STANDARDS  
 AND AIR FORCE AND NAVY DESIGN STANDARDS  
 ANT ANTENNA  
 A P AIRPLANE  
 APU AUXILIARY POWER UNIT  
 ASSY ASSEMBLY  
 AUX AUXILIARY  
 B A BUNDLE ASSEMBLY THE BOEING COMPANY STANDARD  
 BAC BUYER BUTTOK LINE EQUIPMENT  
 BBL BUYER FURNISHED EQUIPMENT  
 BL BUTTOK LINE  
 B L BLUE LINE  
 BLKD BULKHEAD  
 BMS BOEING MATERIAL SPECIFICATIONS  
 B OUT BREAKOUT  
 CFA COMBINATION FABRICATION AND ASSEMBLY  
 CL CENTER LINE  
 CONN CONNECTOR  
 COORD COORDINATE OR COORDINATION  
 CORR CORROSION  
 CRES CORROSION RESISTANT STEEL  
 CRS COLD ROLLED STEEL  
 CSK COUNTERSINK  
 CSTG CASTING  
 C/T COMMON TO  
 CTR CENTER  
 JCM THIRD CREWMAN DRAWING CHANGE NOTICE  
 DCN DRAWING DEPARTMENT AUTHORIZATION  
 DDA DEVIATION  
 DEV DEVIATION  
 DIA DIAMETER  
 DISC DISCONNECT  
 DME DISTANCE MEASURING EQUIPMENT  
 DWG DRAWING  
 ECP ENGINEERING CHANGE PROPOSAL  
 EFF EFFECTIVITY  
 ELEC ELECTRICAL

ELECTRONIC  
 ENGINEERING LIAISON  
 REQUEST/ADVANCE DRAWING CHANGE NOTICE  
 FINAL ASSEMBLY FEDERAL AVIATION AGENCY  
 FAB FABRICATION  
 F/B FORM BOARD  
 FLG FLANGE  
 F/O FIRST OFFICER  
 F S FULL SIZE  
 F/T FUNCTION TEST  
 FITTING  
 FWD FORWARD  
 GEN GENERATOR  
 GND GROUND (ELECTRICAL)  
 H T HEAT TREAT  
 H U HOOK UP  
 HYD HYDRAULIC  
 ID INSIDE DIAMETER  
 IDENTIFICATION, IDENTIFY  
 IML INSIDE MOLD LINE  
 INBD INBOARD  
 INPH INTERPHONE  
 INSP INSPECTION  
 INSTL INSTALLATION  
 INSTR INSTRUMENT  
 INTCHG INTERCHANGEABLE  
 J BOX JUNCTION BOX  
 JPR JUMPER (WIRING)  
 KSI THOUSAND POUNDS PER SQUARE INCH  
 LE LEADING EDGE  
 LH LEFT HAND  
 LOC LOCATING, LOCATE, LOCATION  
 LWR LOWER  
 L/O LAYOUT  
 M/P MACHINE PLANNING  
 M/B METAL BOND  
 MAX MAXIMUM  
 MC MASTER CHANGE  
 MCD MASTER CONTROL  
 MCR DRAWING  
 MCR MASTER CHANGE RECORD, MASTER CHG. REQUEST  
 MDI MASTER DIMENSIONING INDEX  
 MFG MANUFACTURING  
 MIL MILITARY SPECIFICATIONS  
 MIN MINIMUM  
 MOA MAKE ON ASSEMBLY  
 MOD MODIFICATION, MODEL  
 MTD MANUFACTURING TECHNICAL DIRECTIVE  
 MOUNTING  
 MTG NUMERICAL CONTROL  
 N/C

NUT PLATE  
 NATIONAL AIRCRAFT STANDARDS  
 NO TOOL (TOOL CODE)  
 O/S OVERSIZE  
 O&R OPERATION AND INSPECTION RECORD  
 OD OUTSIDE DIAMETER  
 OML OUTSIDE MOLD LINE  
 OPP OPPOSITE  
 OUTBD OUTBOARD  
 OVHT OVERHEAT  
 OXY OXYGEN  
 PCA PARTS CONTROL AREA  
 PHOTO CONTACT MASTER  
 PRODUCTION ENGINEERING DOCUMENT  
 PI PRODUCTION ILLUSTRATION  
 PLAC PLACARD  
 P.N PART NUMBER  
 PNEU PNEUMATIC  
 POA PURCHASED ON ASSEMBLY  
 POP PURCHASED OUTSIDE PRODUCTION  
 POS POSITION  
 PRR PRODUCTION REVISION RECORD  
 PS PART STORE  
 PSI POUNDS PER SQUARE INCH  
 PSIG POUNDS PER SQUARE INCH GAGE  
 PSU PASSENGER SERVICE UNIT  
 PURCH PURCHASE  
 PWR POWER  
 QTY QUANTITY  
 RCVR RECEIVER  
 RCVR/XMTR RECEIVER-TRANSMITTER  
 REF REFERENCE  
 REG REGULATOR  
 REPL REPLACEABLE  
 REPT REFERENCE PHOTO  
 TEMPLATE  
 RH RIGHT HAND  
 RIV RIVET  
 RES RESISTANCE  
 RSC RESIDENT SHOP CONTROL  
 RUB RUBBER (STAMP)  
 STRN STRAIGHTEN  
 SEC SECTION  
 SW SWITCH  
 STANCHION  
 STAN STANCHION  
 SPOT FACE  
 S/F SERIAL NUMBER  
 S/N SHOP DISTRIBUTION STANDARDS  
 SDS STANDARDS  
 SEQ SEQUENCE SHEET

SPECIFICATION  
SPECIAL CHEMICAL AND  
SOLVENT RESISTANT  
FINISH  
STATION  
STANDARD  
STIFFENER  
STEEL  
STAMP  
STRINGER  
SUPPORT  
SPEAKER  
SHIELD  
SPLICE  
SYMMETRICAL  
TRAILING EDGE  
TOOL HOLE  
THROUGH  
THERMAL ANTI-ICE  
TERMINAL STRIP  
USED ON  
UNIT ASSEMBLY  
UNIT BOND  
UNIT ISSUE  
UNIT MANUFACTURE  
UPPER  
UNIT TIME  
ULTRA HIGH FREQUENCY  
VERTICAL  
VOLUME  
VERY HIGH FREQUENCY  
VHF OMNI RANGE  
WIRE BUNDLE  
W/B  
WING STATION  
WING BUTT LOCK LINE  
WING CHORD PLANE  
WATER LINE  
WATER  
TRANSMITTER  
TRANSFORMER  
ZONE

COD  
CPD  
CPFD

CUTOFF DIE  
CUTOFF & PIERCE DIE  
CUTOFF, PIERCE & FORM  
DIE  
DINKING DIE  
DRAW DIE  
FORM DIE  
HYDRAULIC BULGE FORM  
DIE  
HAMMER DIE  
HYDRO SHEAR PLATE  
JOGGLE DIE  
MOLD DIE  
NOTCHING DIE  
PIERCE BLANK DIE  
PIERCE DIE  
PIERCE & FORM DIE  
PRESS PLATE  
PUSH THRU DIE  
SHAVING DIE  
SLOTING DIE  
STEEL RULE DIE  
SWAGING DIE  
TRIMMING DIE  
"T" CODED FD  
"T" CODED JD

DD  
DRD  
FD  
H8FD  
HD  
HSP  
JD  
MD  
ND  
PBD  
PD  
PFD  
PRP  
PTD  
SD  
SLD  
SRD  
SWD  
TD  
TFD  
TJD

BF  
BOF  
CF  
DF  
ECF  
GF  
GFF  
GHF  
GSF  
GSHF  
GTF  
HRF  
HTF  
ICF  
LF  
MF  
PEF  
RF  
SF  
SHF  
THF

ASSEMBLY JIG  
DRILL JIG  
LOCATING JIG  
RIVETING JIG  
RESISTANCE WELD JIG  
TRIM JIG  
TEST JIG  
WELD JIG

AJ  
DJ  
LJ  
RJ  
RWJ  
TJ  
TSJ  
WJ

FIXTURES  
BROACHING FIXTURE  
BORING FIXTURE  
CHECKING FIXTURE  
DRILL FIXTURE  
ENVELOPE CHECK FIXTURE  
GRINDING FIXTURE  
GEAR GRINDING FIXTURE  
GEAR HOBGING FIXTURE  
GEAR SHAVING FIXTURE  
GEAR SHAPING FIXTURE  
GEAR TESTING FIXTURE  
HAND ROUTER FIXTURE  
HEAT TREAT FIXTURE  
INTERFACE CHECK FIXTURE  
LATH FIXTURE  
MILL FIXTURE  
PREFORM FIXTURE  
ROUTER FIXTURE  
SAW FIXTURE  
SHAPER FIXTURE  
SHOT PEENING FIXTURE  
THREADING FIXTURE

JIGS  
ASSEMBLY JIG  
DRILL JIG  
LOCATING JIG  
RIVETING JIG  
RESISTANCE WELD JIG  
TRIM JIG  
TEST JIG  
WELD JIG

AM  
CB  
DFT  
DM  
DT  
FCT  
FR  
LM  
MA  
MC  
MIT  
MOLD  
MOLD  
OT  
PATTERN  
PAT  
PM  
PRE  
RIT  
SP  
STE  
TE  
TH  
TSH  
TST  
UT  
VFM  
WFB

MI SCCELLANEOUS  
ASSEMBLY MODEL  
CORE BOX  
DESIGNED FACILITY TOOL  
DRAW & BENDING MANDREL  
DRILL TOOL  
FORM CUTTING TOOL  
FORMING ROLL  
LAYOUT MANDREL  
MACHINE EQUIPMENT  
MILL CUTTER  
MISCELLANEOUS TOOL  
MOLD  
OPTICAL TOOL  
PATTERN  
PART MODEL  
PROTECTIVE EQUIPMENT  
RIVETING TOOL  
SAMPLE PART  
STANDARD TOOL  
SPECIAL TEST EQUIPMENT  
TEST BENCH  
TEST EQUIPMENT  
TEST HARNESS  
TOOL SUB BASE  
"T" CODED STANDARD  
TOOL  
UTILITY TOOL  
VACUUM FORMING MOLD  
WIRE FORM BOARD

TEMPLATES  
APPLY TRIM TEMPLATE  
BONDING STOCK SIZE  
TEMPLATE  
CAM TEMPLATE  
CHEM-MILL TEMPLATE  
CROSS SECTION TEMPLATE

ATT  
BSST  
CAM  
CMT  
CST

MASTER TOOLING  
FACILITY GAGE  
MASTER CONTROL GAGE  
MASTER DRILL GAGE  
MASTER GAGE  
MASTER MODEL  
MASTER TOOLING  
TEMPLATE  
SECONDARY DRILL GAGE  
SECONDARY GAGE  
MECHANICAL EQUIPMENT  
FLOOR MOUNTED EQUIPMENT  
MECHANICAL EQUIPMENT  
OVERHEAD EQUIPMENT  
PORTABLE MECH. EQUIP.  
SHIPPING MECH. EQUIP.  
TRANSPORTATION MECH.  
EQUIP.

FG  
MCG  
MDG  
MG  
MM  
MIT  
SDG  
SEG

MECHANICAL EQUIPMENT  
FLOOR MOUNTED EQUIPMENT  
MECHANICAL EQUIPMENT  
OVERHEAD EQUIPMENT  
PORTABLE MECH. EQUIP.  
SHIPPING MECH. EQUIP.  
TRANSPORTATION MECH.  
EQUIP.

MI SCCELLANEOUS  
ASSEMBLY MODEL  
CORE BOX  
DESIGNED FACILITY TOOL  
DRAW & BENDING MANDREL  
DRILL TOOL  
FORM CUTTING TOOL  
FORMING ROLL  
LAYOUT MANDREL  
MACHINE EQUIPMENT  
MILL CUTTER  
MISCELLANEOUS TOOL  
MOLD  
OPTICAL TOOL  
PATTERN  
PART MODEL  
PROTECTIVE EQUIPMENT  
RIVETING TOOL  
SAMPLE PART  
STANDARD TOOL  
SPECIAL TEST EQUIPMENT  
TEST BENCH  
TEST EQUIPMENT  
TEST HARNESS  
TOOL SUB BASE  
"T" CODED STANDARD  
TOOL  
UTILITY TOOL  
VACUUM FORMING MOLD  
WIRE FORM BOARD

TEMPLATES  
APPLY TRIM TEMPLATE  
BONDING STOCK SIZE  
TEMPLATE  
CAM TEMPLATE  
CHEM-MILL TEMPLATE  
CROSS SECTION TEMPLATE

ATT  
BSST  
CAM  
CMT  
CST

CONTOUR TEMPLATE  
DEVELOPED BLANK  
TEMPLATE  
DIE CONSTRUCTION  
TEMPLATE  
DEVELOPED LAYOUT  
TEMPLATE  
FORM BLOCK TEMPLATE  
HOLE CHECKING TEMP.  
HOLE LOCATING TEMP.  
JIG DRILL TEMPLATE  
PLASTIC APPLY TRIM  
TEMPLATE  
PROFILE TEMPLATE  
ROUTER DRILL TEMP.  
REFERENCE LAYOUT  
TEMPLATE  
SAMPLE PART TEMPLATE  
SETUP TEMPLATE

CT  
DBT  
DCT  
DLT  
FBT  
HCT  
HLT  
JDT  
PAT

CODED TOOLING INFO  
MASTER CONTROL  
DRAWING  
PRODUCTION ILLUSTRATION  
PROCESS SHEET  
REFERENCE PHOTO  
TEMPLATE  
TOOLING MASTER LAYOUT  
PREFIXES  
METAL BONDING TOOLS  
(ASSY TOOLS ONLY)  
DEVELOPMENT (RESEARCH) TOOLS  
FLOOR MOUNTED TOOLS  
ANY TOOLS ON WHICH KIRKSITE  
IS USED  
PERISHABLE TOOLS (DI, FCT,  
MC CODES ONLY)  
NUMERICALLY CONTROLLED  
TOOLS  
SHRINK SCALE TOOL FOR 17-7  
CRES, REIN. 41, ETC.  
PERIODIC PROOF --- LOAD TEST ---  
WICHITA ME SLINGS  
QUALITY CONTROL DEVELOPMENT  
TOOLS  
TOOLS THAT ARE OF AN EXPERIMENTAL  
CATEGORY

MCD  
PI  
PS  
REPT  
TMLO

B  
E  
F  
K  
P  
TIC  
(S)  
SY  
Q  
X

IDENTIFICATION CODES

BLOCKS

FB  
HB  
RB  
SB  
STFB  
WAFB

DIES

BD  
BFD  
BPFD  
CFD  
CND

WARNING  
this is uncontrolled data

NOTES

OTHER MANUFACTURING PROCEDURES HANDBOOKS  
 USEFUL AS STUDENT TEXTS AND ON-THE-JOB  
 REFERENCE

Taper Shank Fastener Handbook	6M54-153	Crash, Fire & Rescue(handbooks or viewfoils)	D6-7829
Fasteners and Codes	6M54-155	Geometric Dimensioning and Tolerancing	ACC 4767
Riveter's Manual	6M54-351	(True Position Dimensioning) 5½" x 3¼"	
Drill and Reamer Feeds and Speeds (Leaflet)	6M59-202	Geometric & Positional Dimensioning &	ACC 3200
Machining Titanium	6M59-553	Tolerancing 8½" x 11"	
Aircraft Tube Assembly Installation	6M60-021	Structural Adhesive Bonding Handbook	6M57-050
Aircraft Cable Fitting Installation	6M60-052	Fundamentals of Non-Structural Fiberglass	6M62-650
Sealing Handbook	6M63-453	Reinforced Plastics	
Identification Guide for Welding and		707-720 Reference Guide	D6-40942
Brazing Filler Metals	6M64-453	747 Reference Guide	D6-60093
Standard Aircraft Parts Guide Book	WD-14431-2	747 Technical Reference Data	D6-13050-1310
Torquing	ACC 3180	737 Reference Guide	D6-60094
Electronic & Electrical Guide	ACC 2441	727 Reference Guide	D6-60109
Blueprint Reading Study Guide	ACC 3100	Assembly Mechanic's Manual	6M60-056
Glossary of Aircraft Terms	ACC 4546	High Vibration Area Wire Bundle Installation	6M53-450
Crimp Connector Assembler Manual	ACC 30025	Boeing/Vendor Part Number Cross Ref Index	D6-42448
Engineering Drafting	ACC 3018		

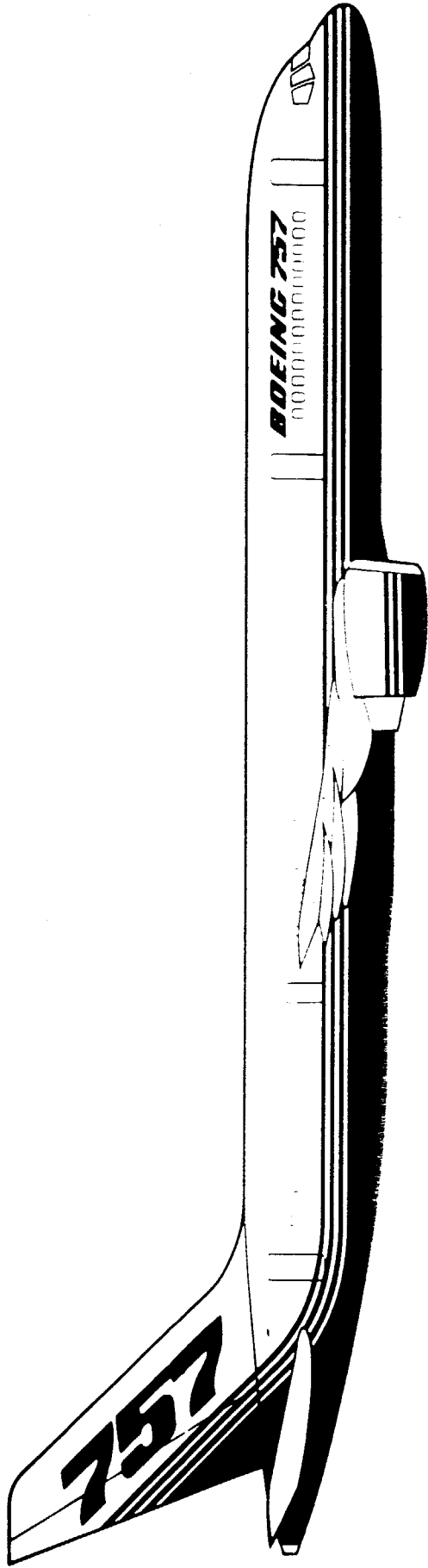




**BOEING**

1-100665

757-200



# Reference Guide

**BOEING**

**757-200**

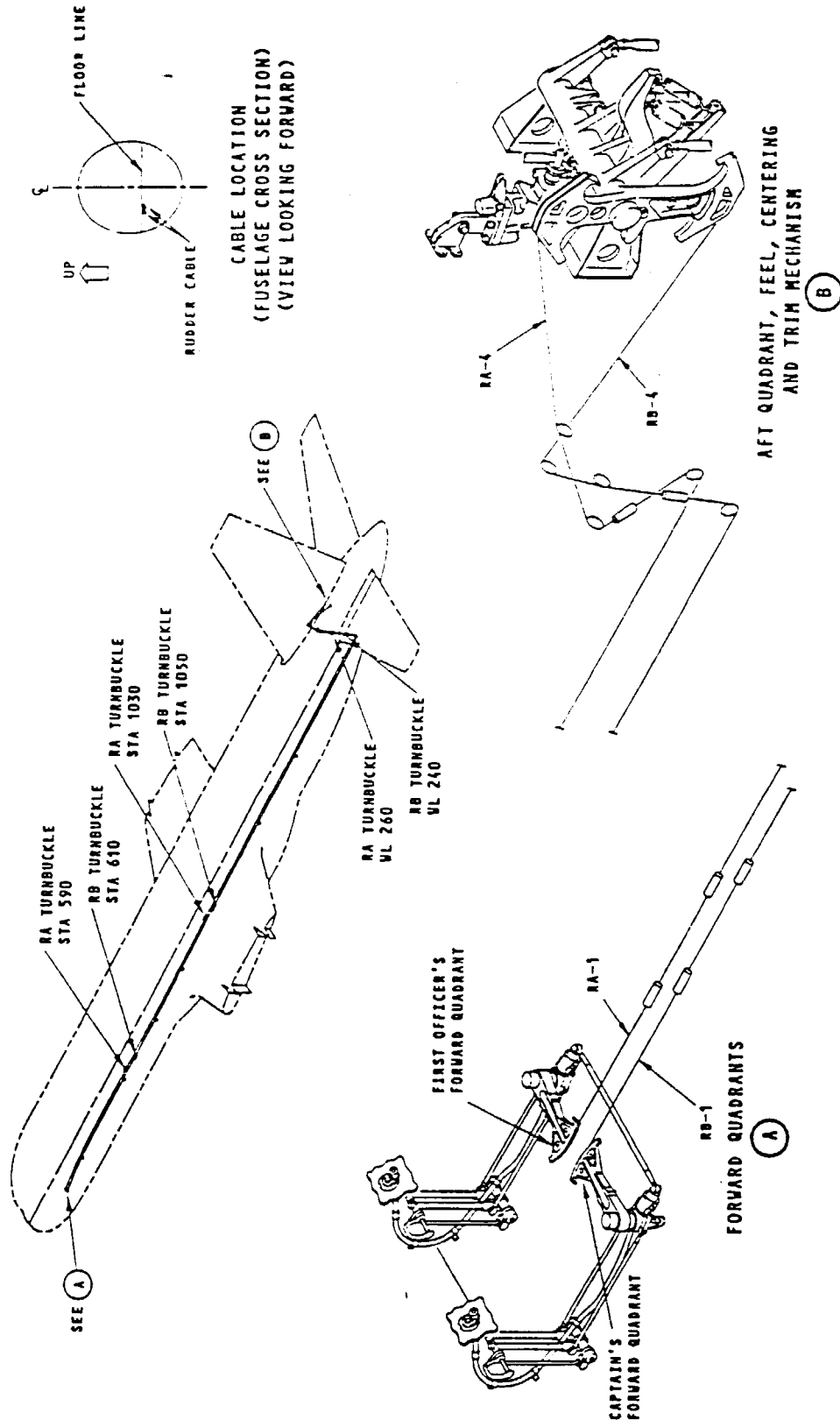
**REFERENCE GUIDE**

**D613T001**

**OCTOBER, 1989**

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# Rudder Control System

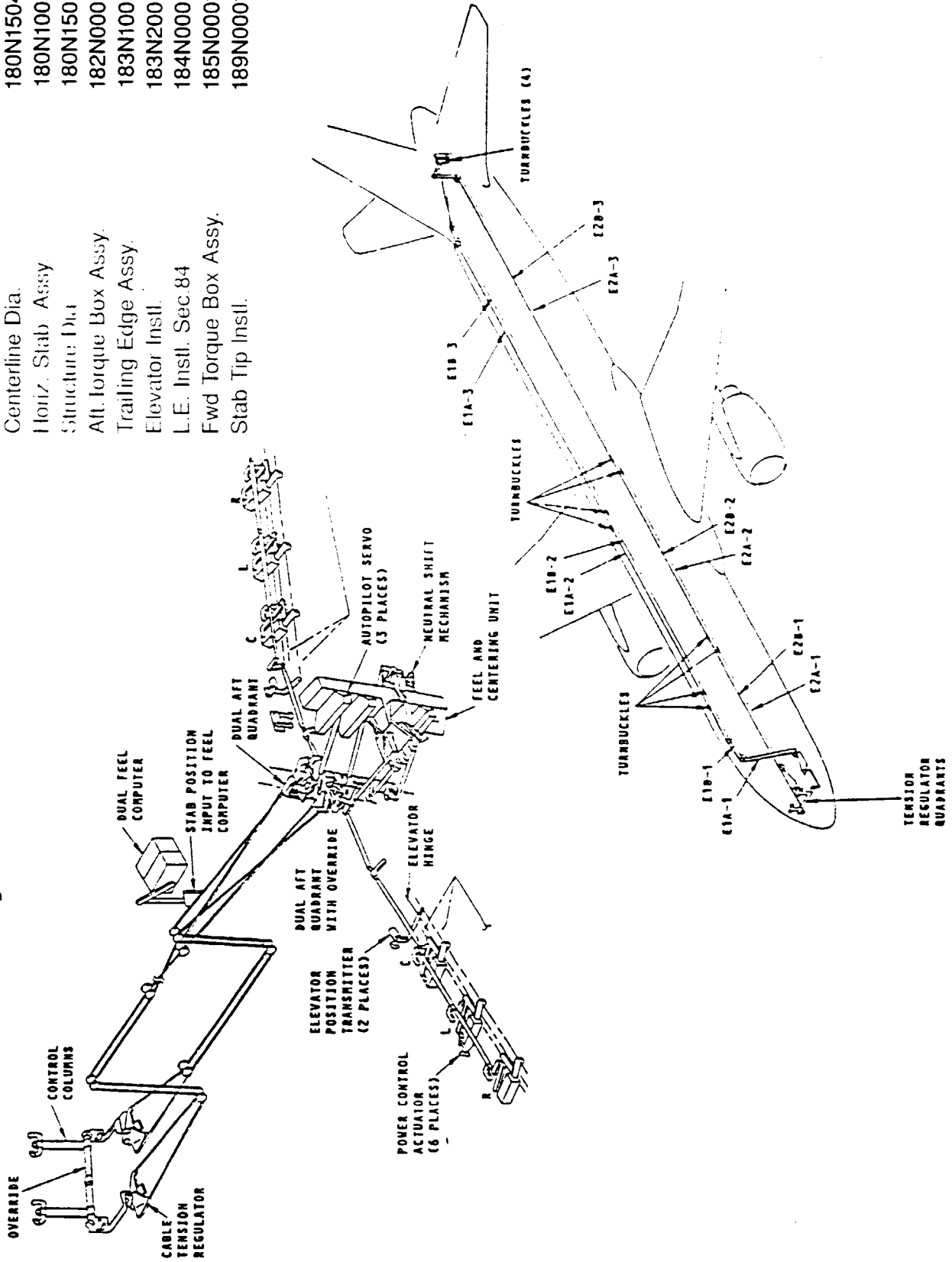




# Elevator Control System

## DRAWING REFERENCE:

- 180N0001 Horiz. Stab. Instll.
- 180N1509 Drawing Index
- 180N1504 Centerline Dia.
- 180N1001 Horiz. Stab. Assy.
- 180N1501 Structure Dia.
- 182N0001 Alt. Torque Box Assy.
- 183N1001 Trailing Edge Assy.
- 183N2001 Elevator Instll.
- 184N0001 L.E. Instll. Sec.84
- 185N0001 Fwd Torque Box Assy.
- 189N0001 Stab Tip Instll.

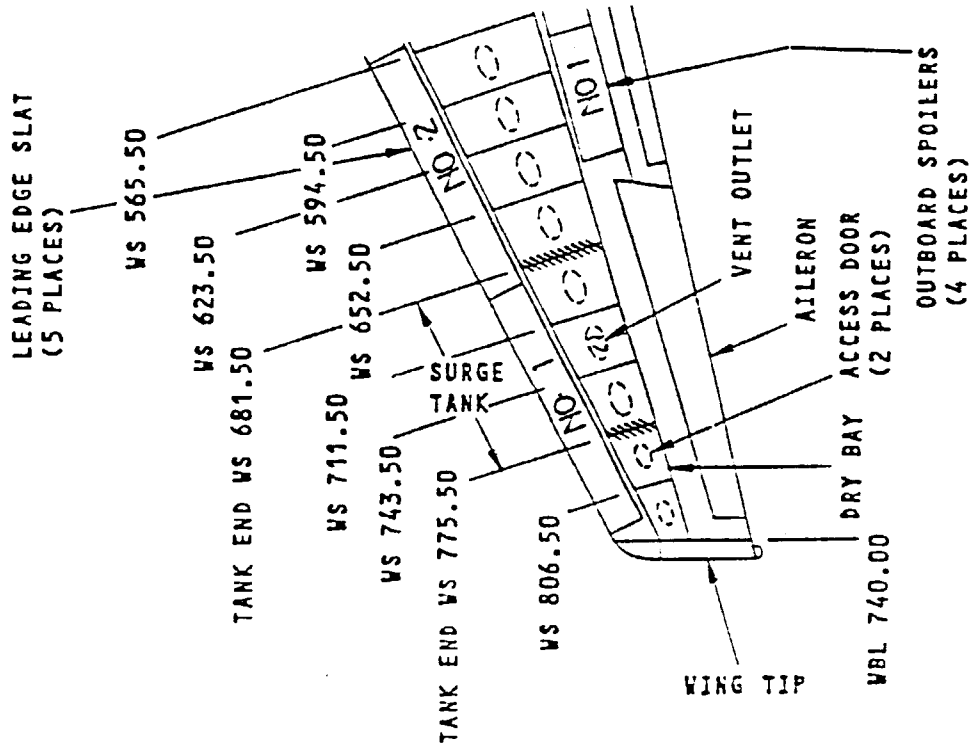


# Wing Structure Drawing

**DRAWING REFERENCE:**

- Installation
- Centerline Dia.
- Aerodyn. Smooth. Dia.
- Leading Edge Instl.
- Outboard Wing Assembly
- Outbd. L.E. Centerline
- Outbd Main Track Geo.
- Outbd Aux. Track Geo.
- Outbd Slat Struct. Dia.
- Inbd. L.E. Centerline
- LWR Surface Panel Dia.
- UPR Surface Panel Dia.
- Ctr. Sec. Struct. Assy.
- Sec. 12 Struct. Assy.
- Trailing Instl.
- Fixed T.E. Instl.
- Wing Tip Instl.

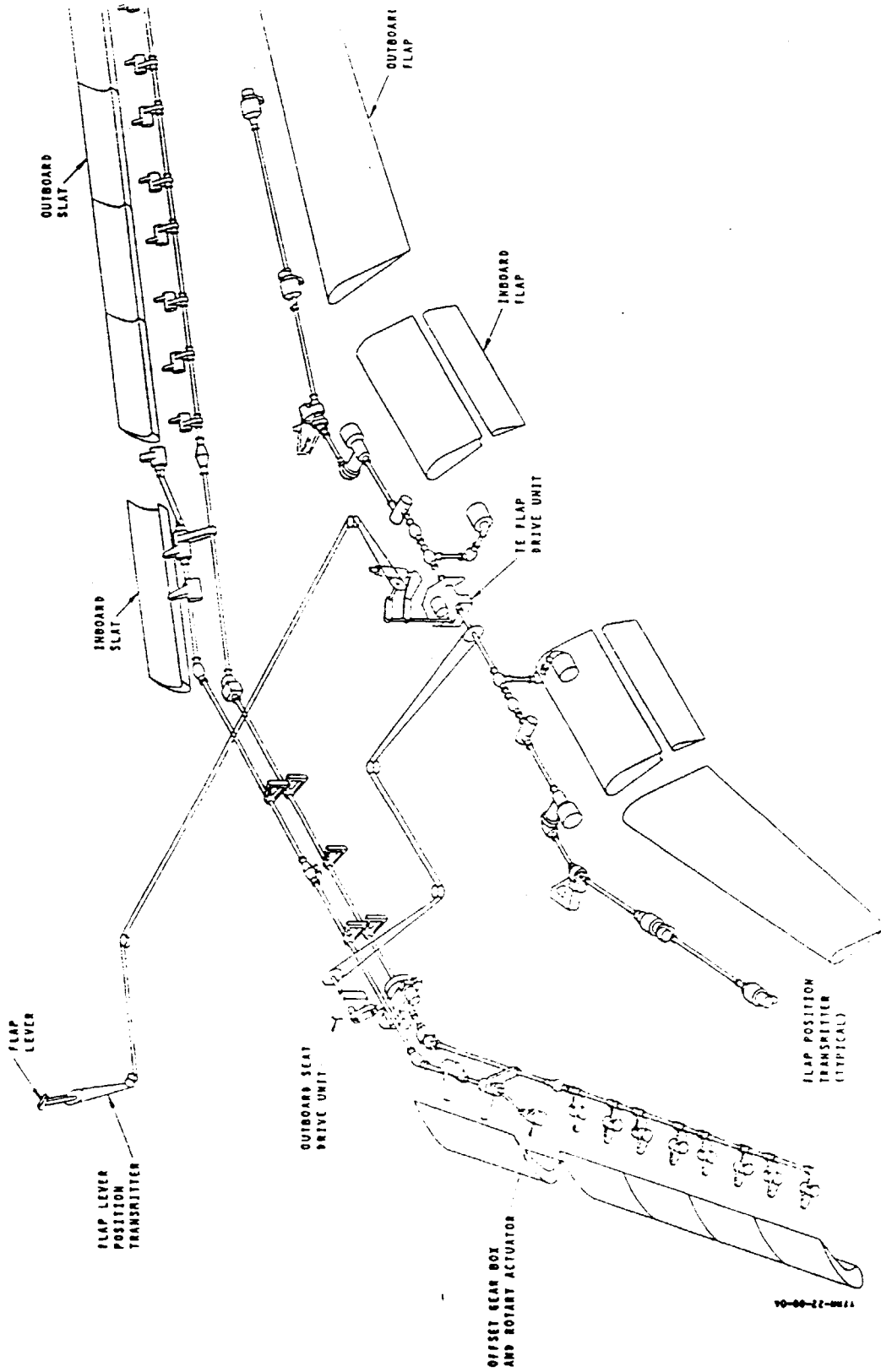
- 110N0001
- 110N1501
- 110N1504
- 114N0001
- 112N0000
- 114N0050
- 114N0056
- 114N0057
- 114N0055
- 114N0051
- 110N1402
- 110N1503
- 111N0001
- 112N0001
- 113N0000
- 113N1000
- 119N0001







# High Lift System

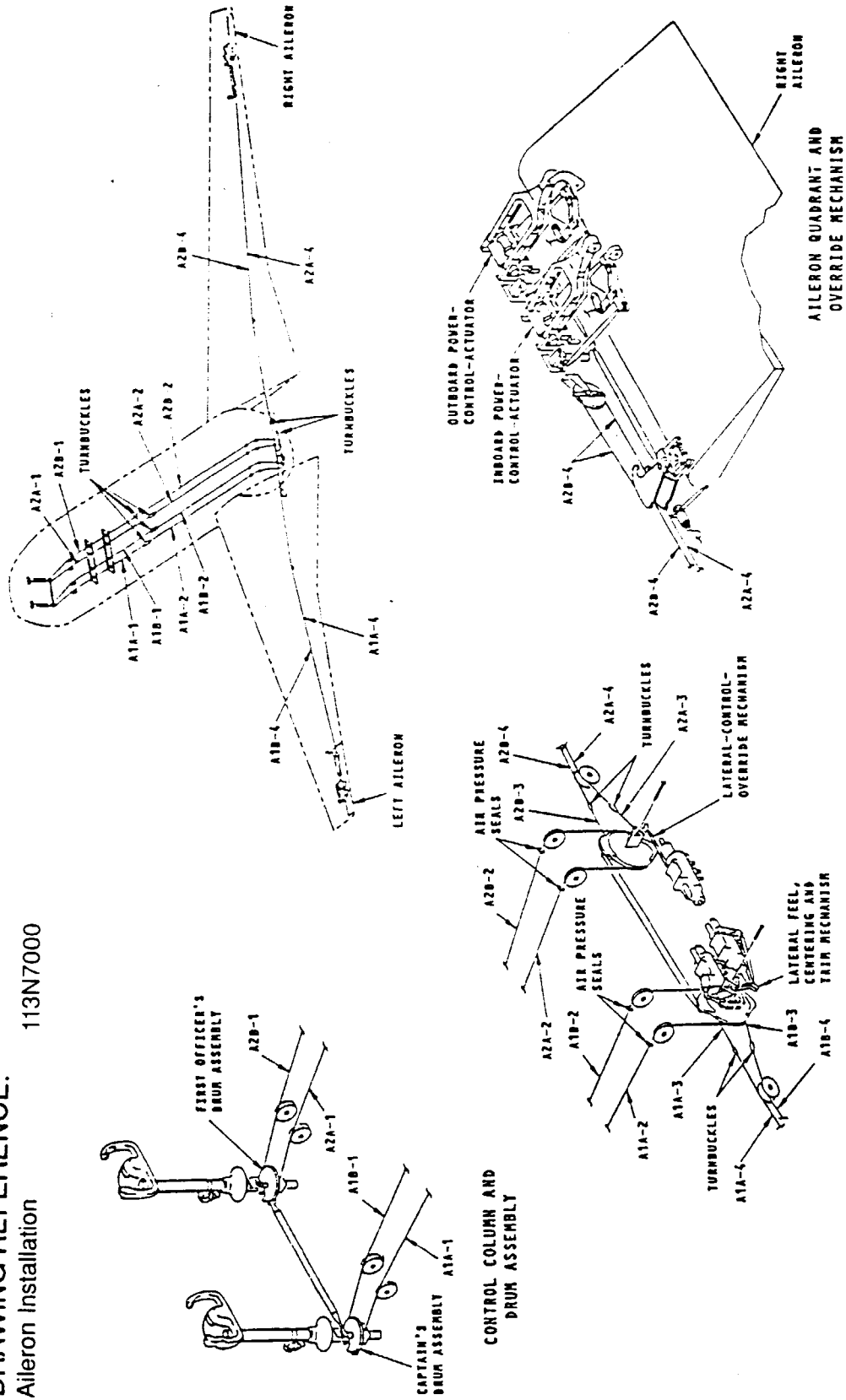


# Aileron Control System

DRAWING REFERENCE:

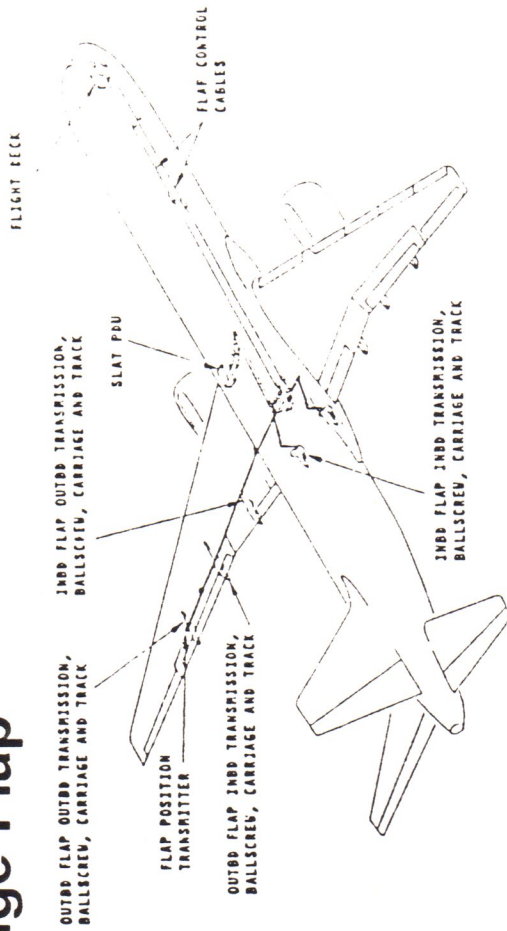
Aileron Installation

113N7000



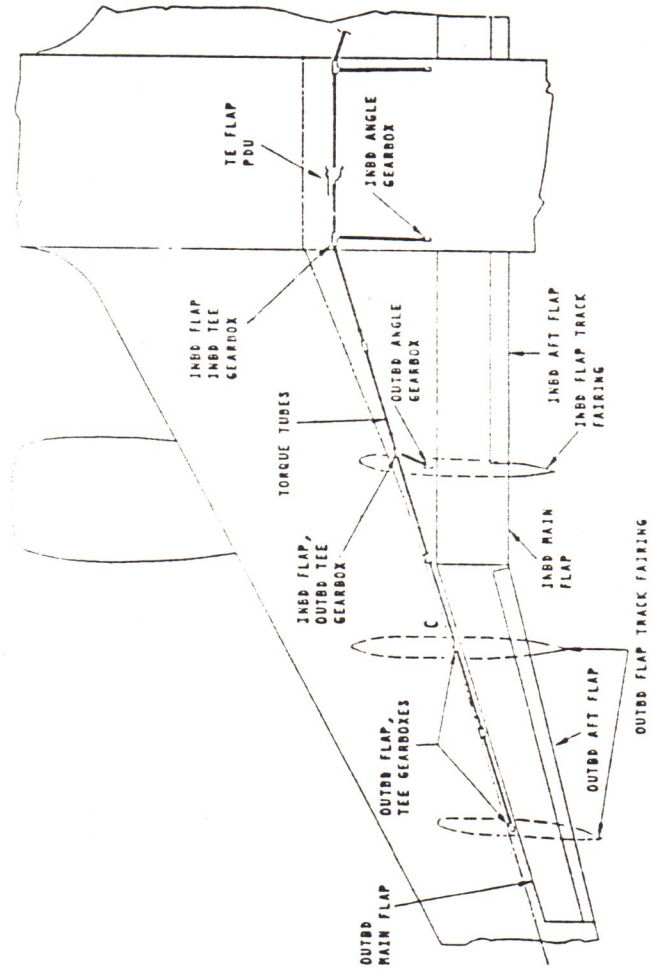


# Trailing Edge Flap



## DRAWING REFERENCE:

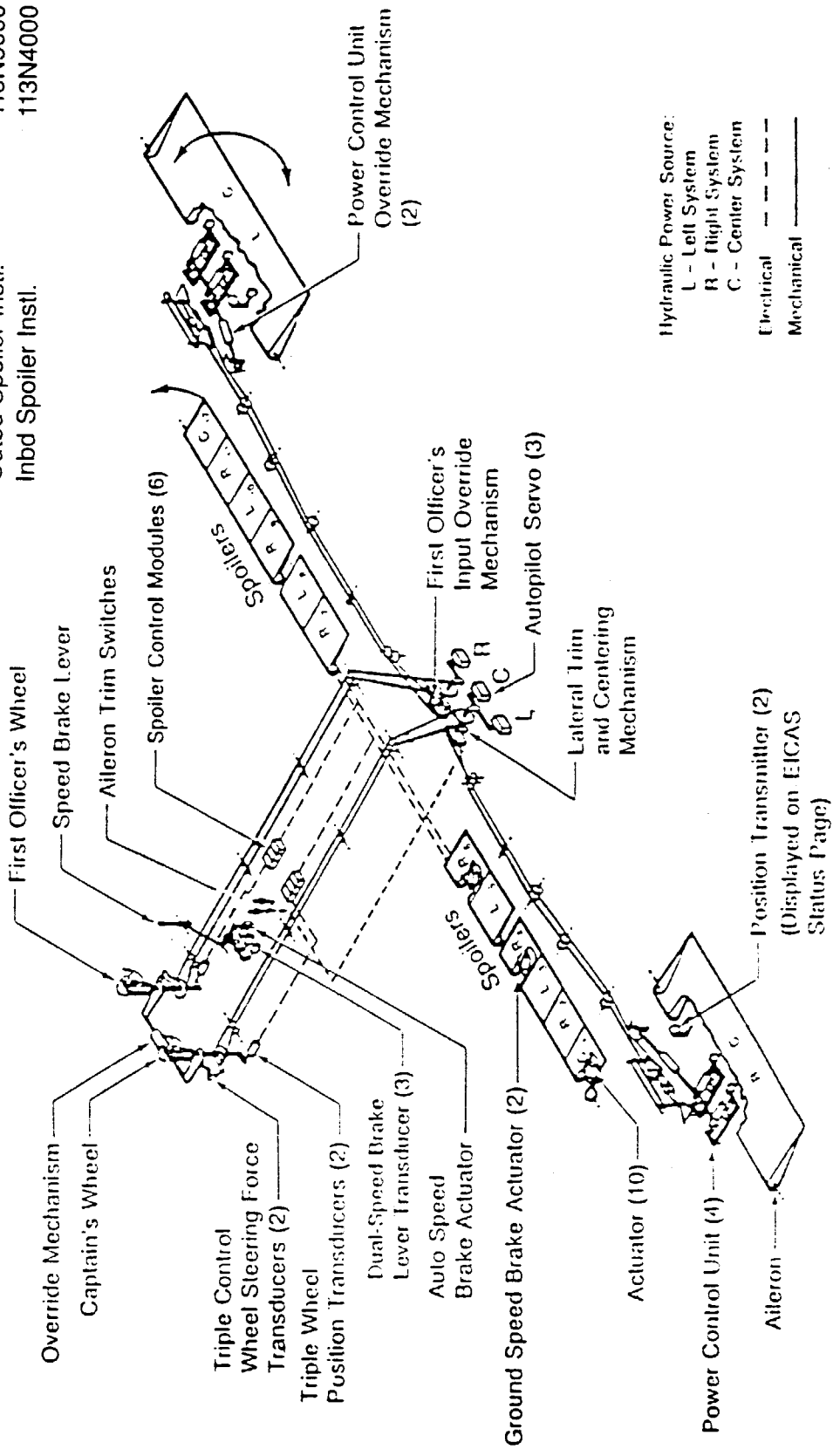
- Outbd T.E. Flap Ctrline 113N3005
- Outbd T.E. Flap Instl. 113N3000
- Inbd T.E. Flap Instl. 113N2000



# Lateral and Speed Brake Control System

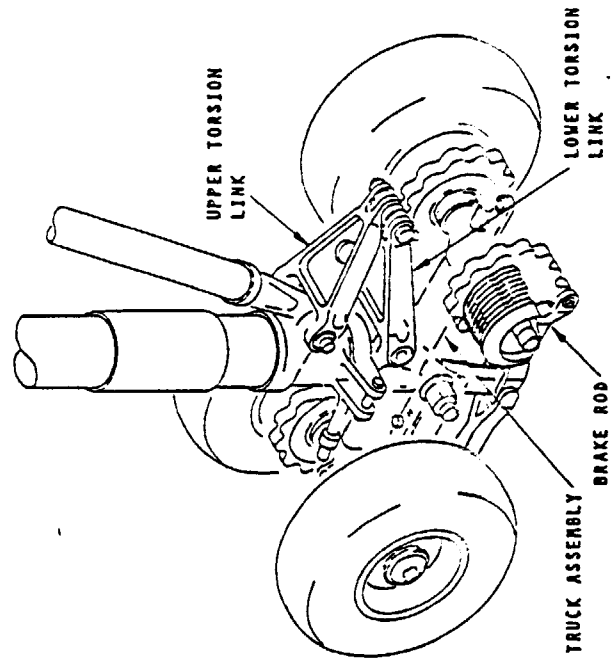
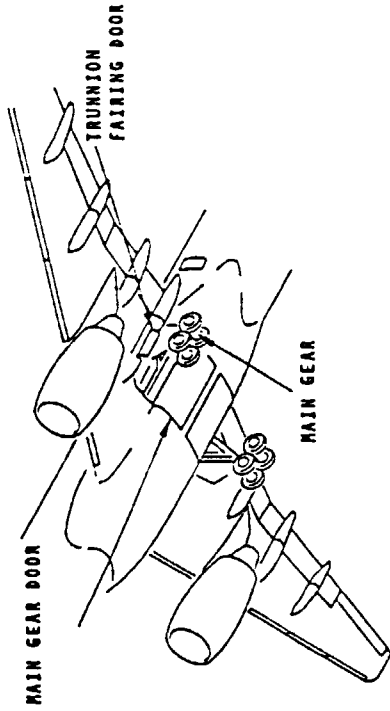
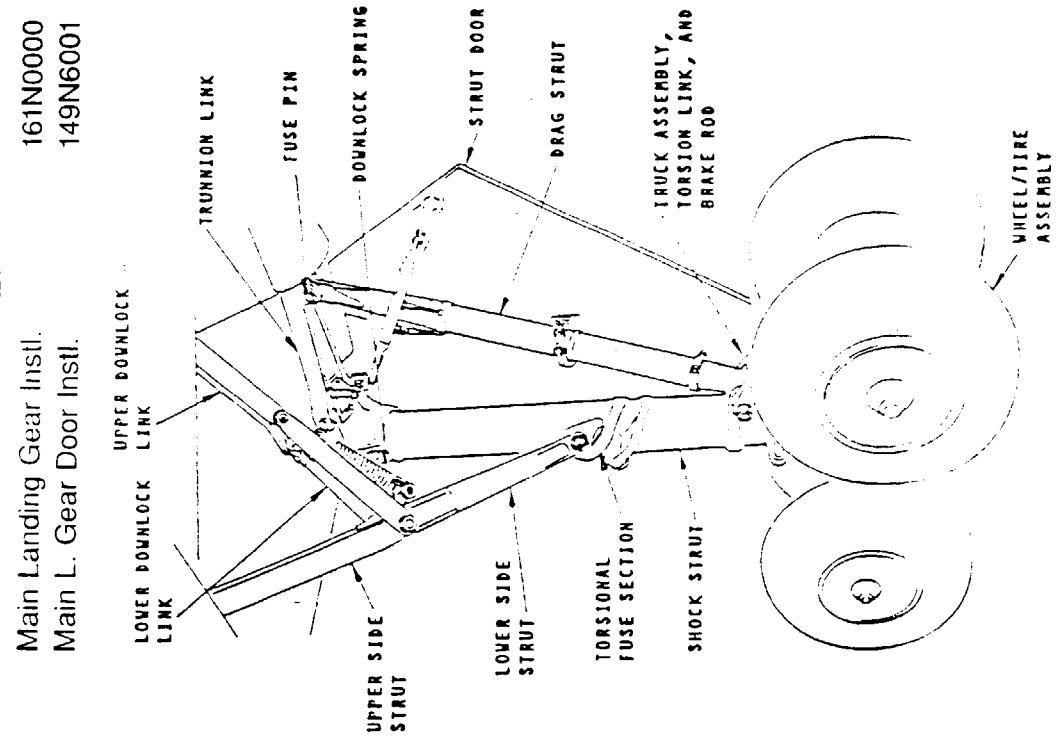
**DRAWING REFERENCE:**

- Outbd Spoiler Instl. 113N5000
- Inbd Spoiler Instl. 113N4000



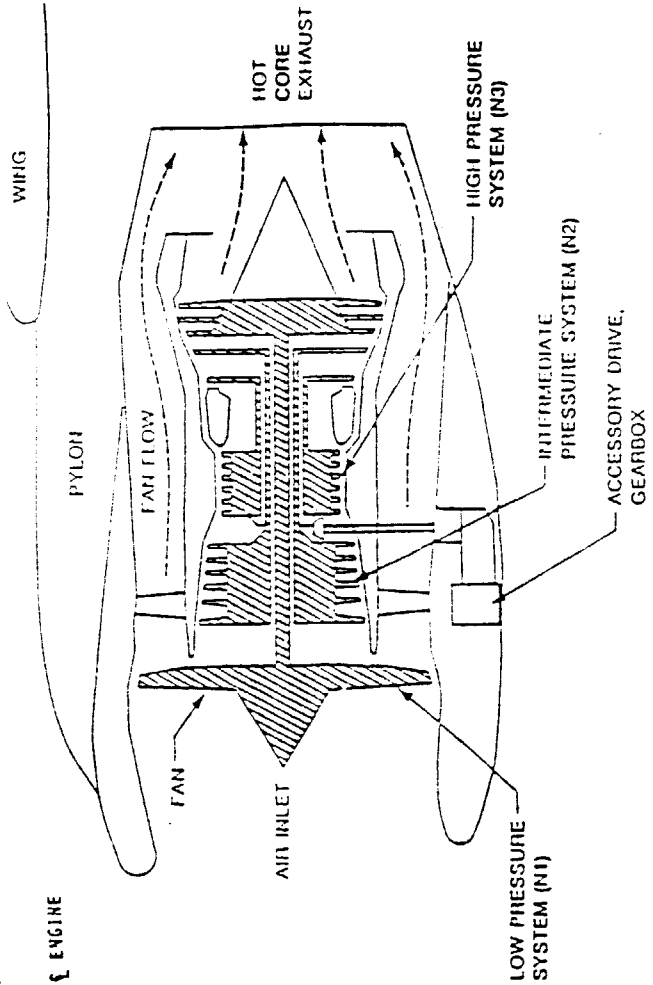
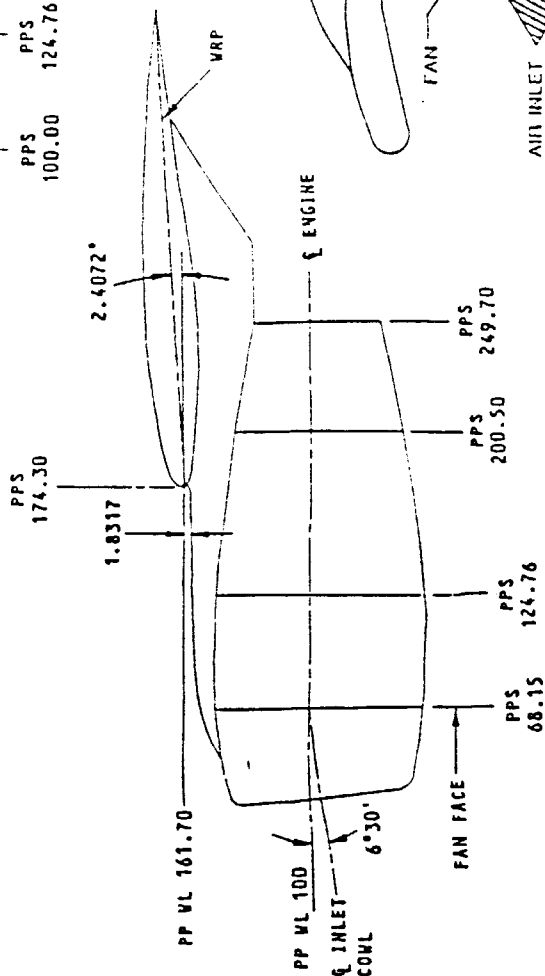
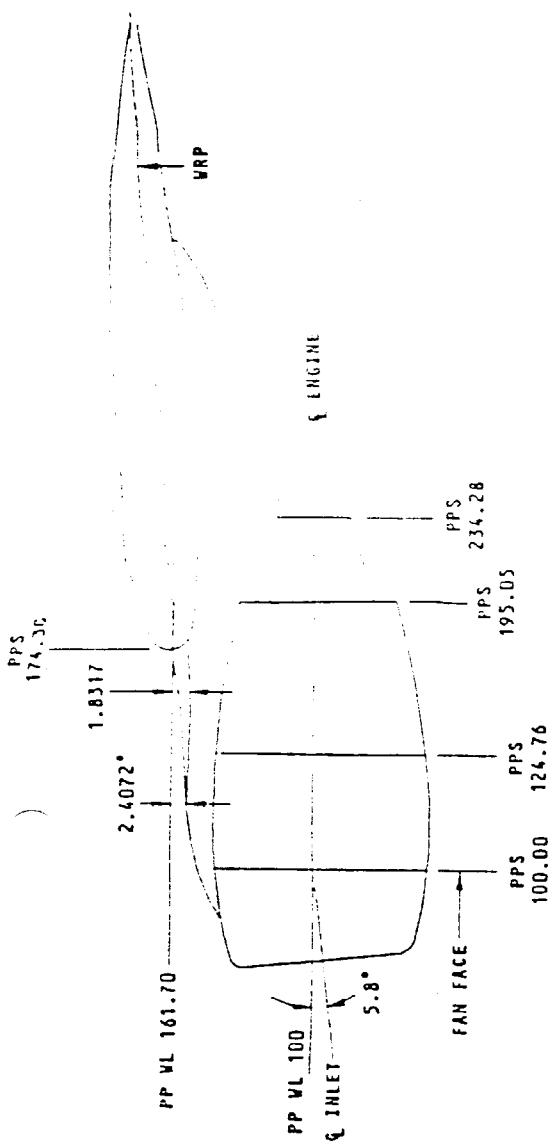
# Wing Main Gear

**DRAWING REFERENCE:**  
Main Landing Gear Instl. 161N0000  
Main L. Gear Door Instl. 149N6001





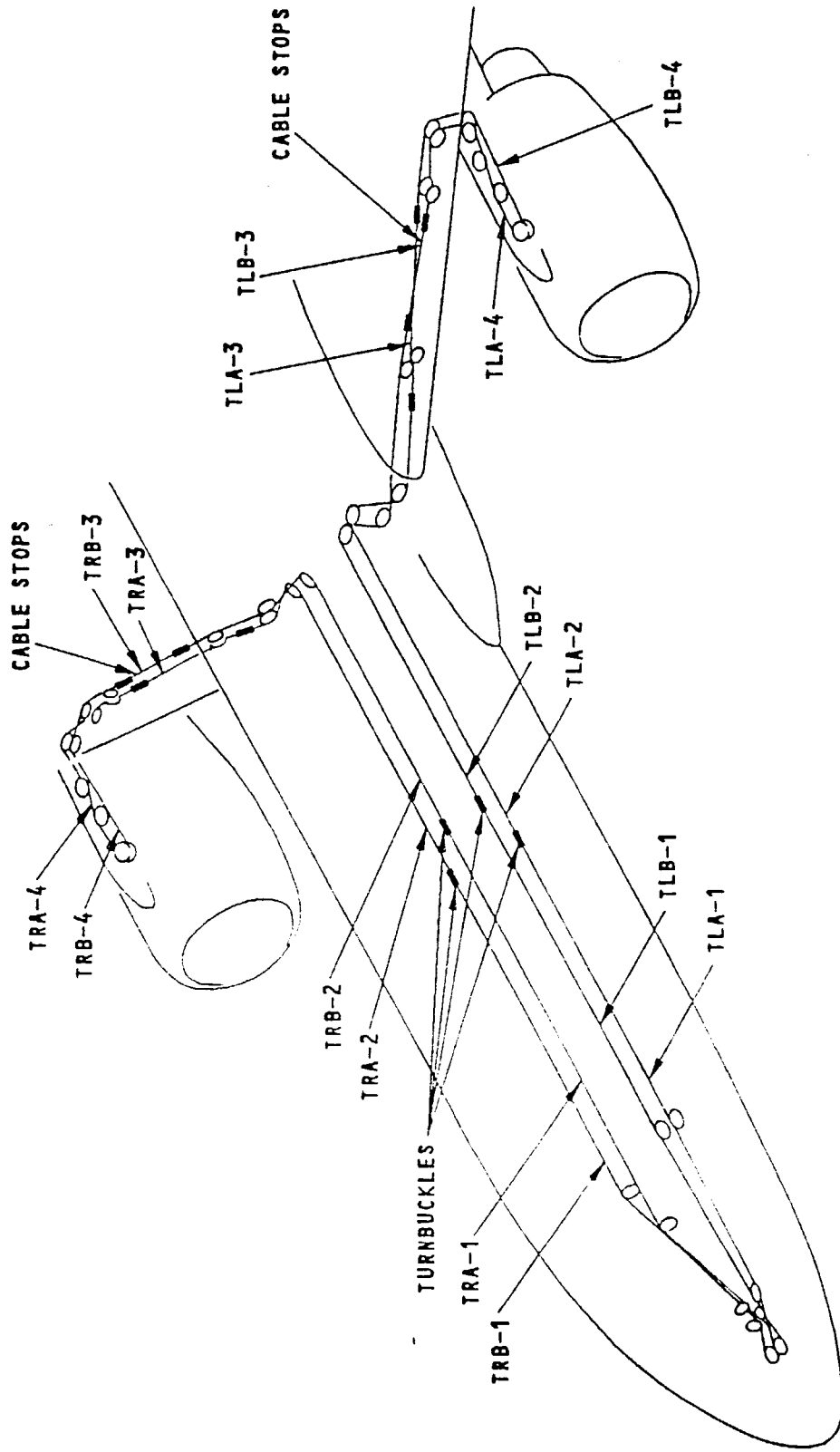
Rolls-Royce



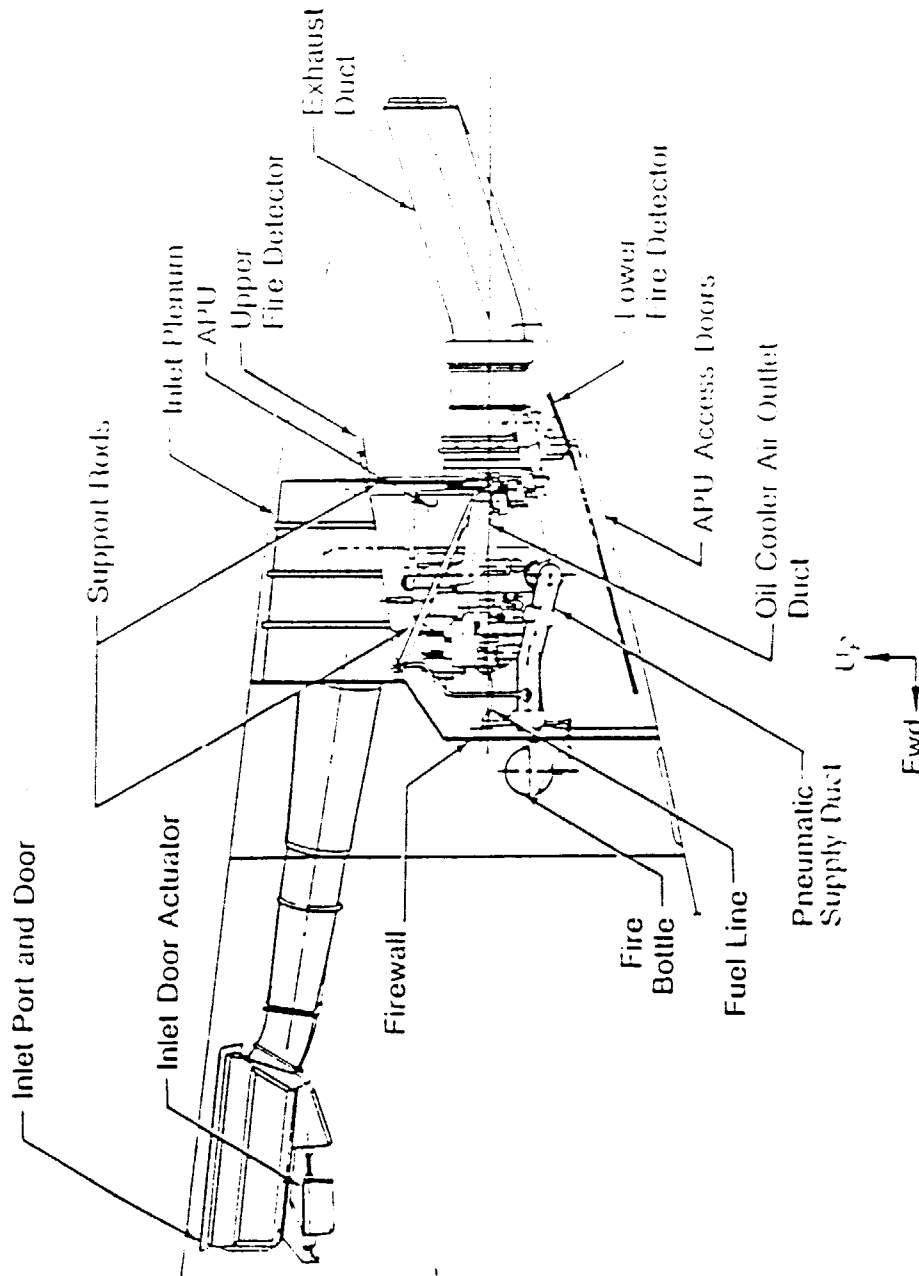


# Engine Thrust Control

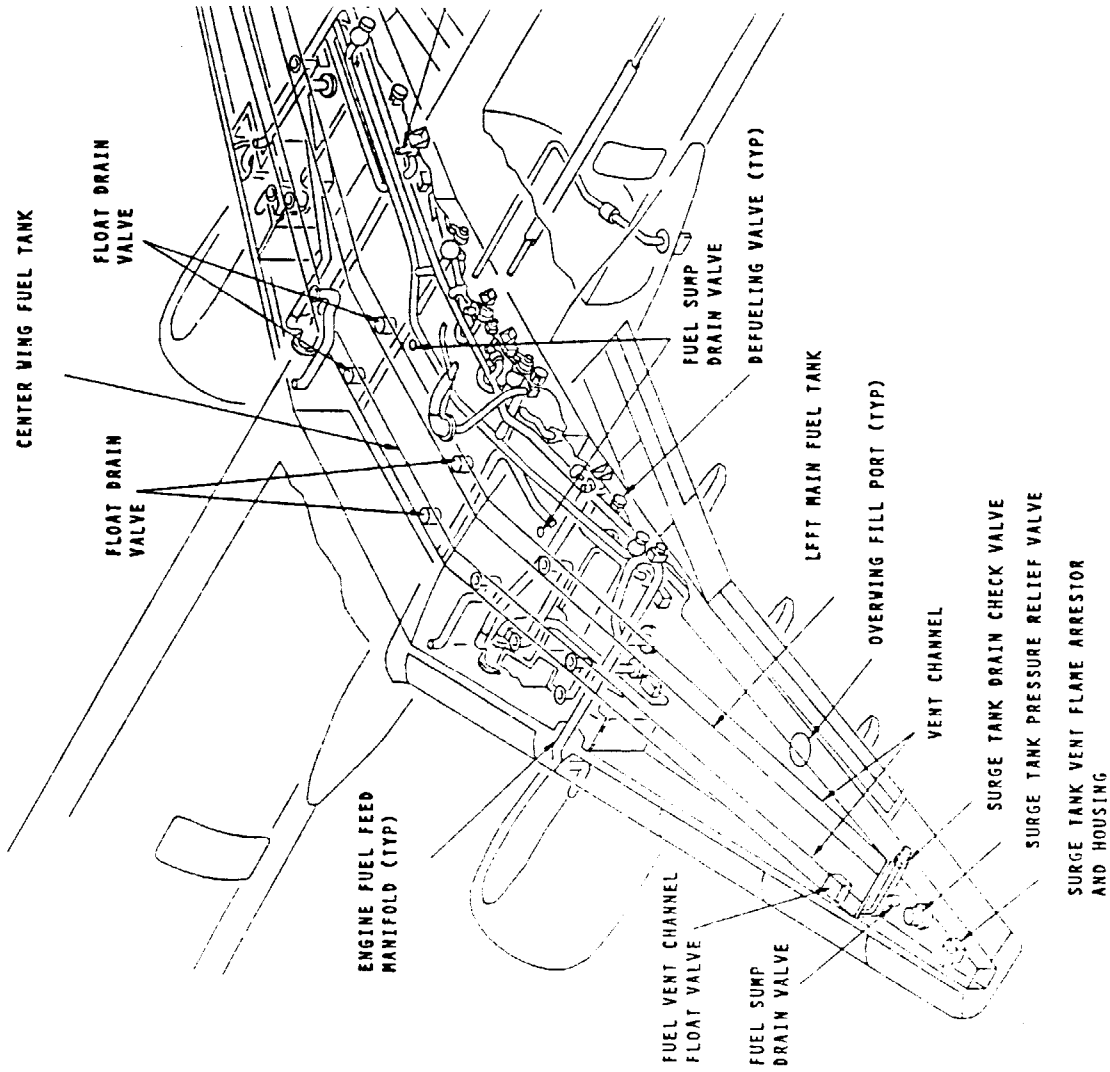
ENGINES,  
STRUTS & FUEL



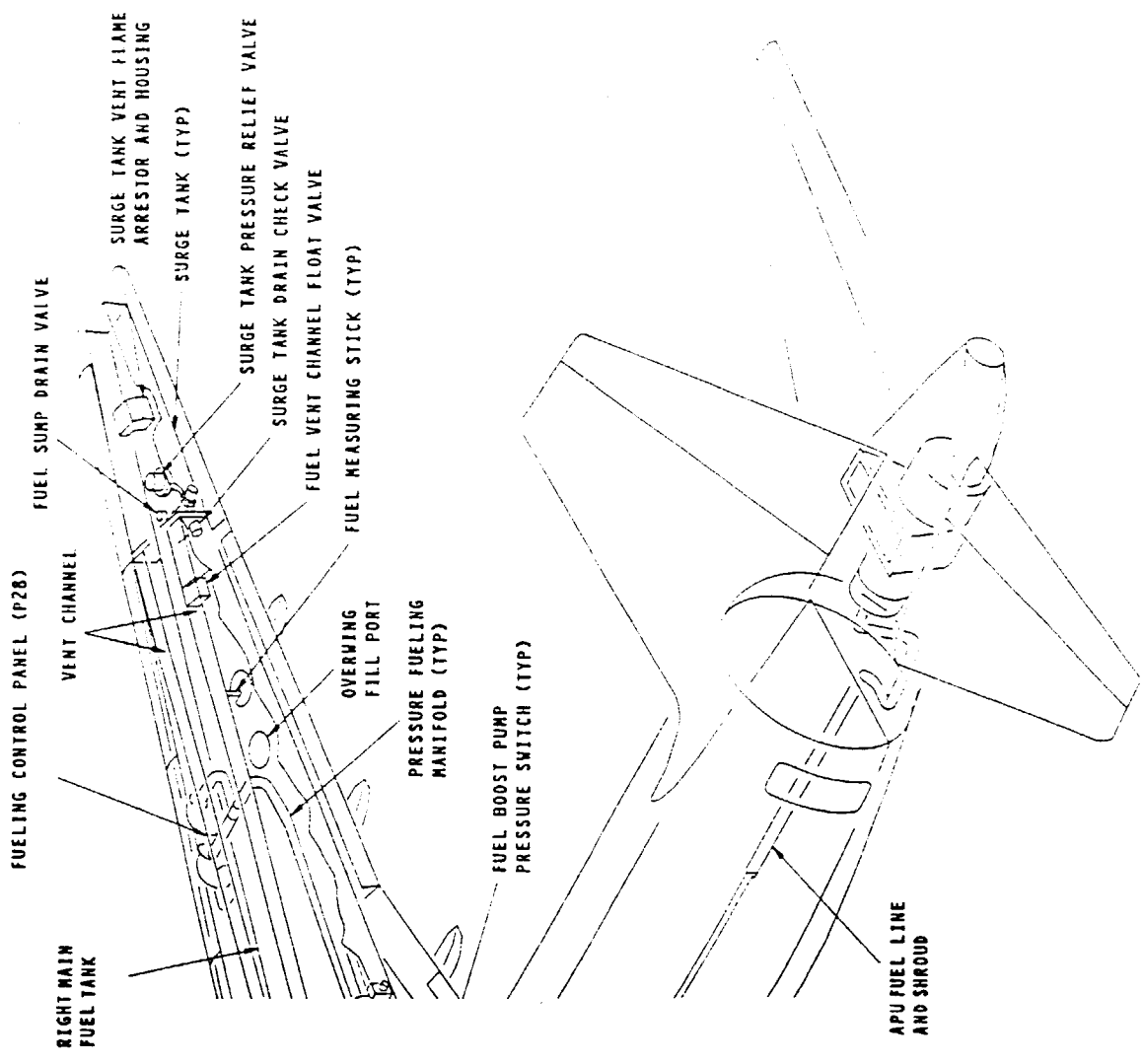
# APU Components



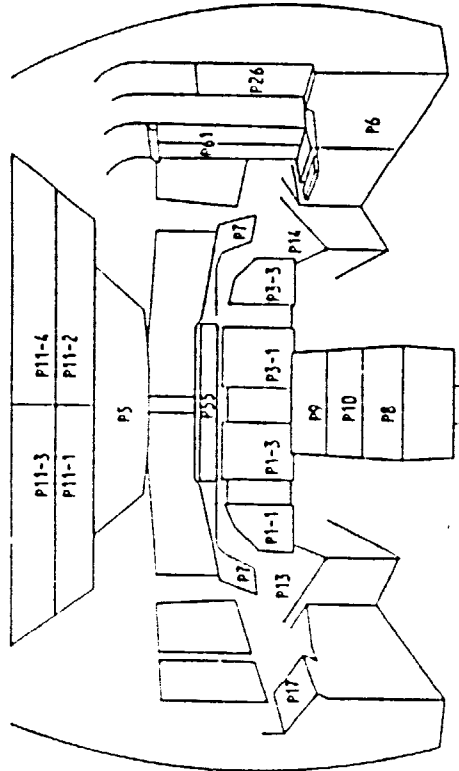
# Fuel Tank Arrangement



ENGINES,  
STRUTS & FUEL



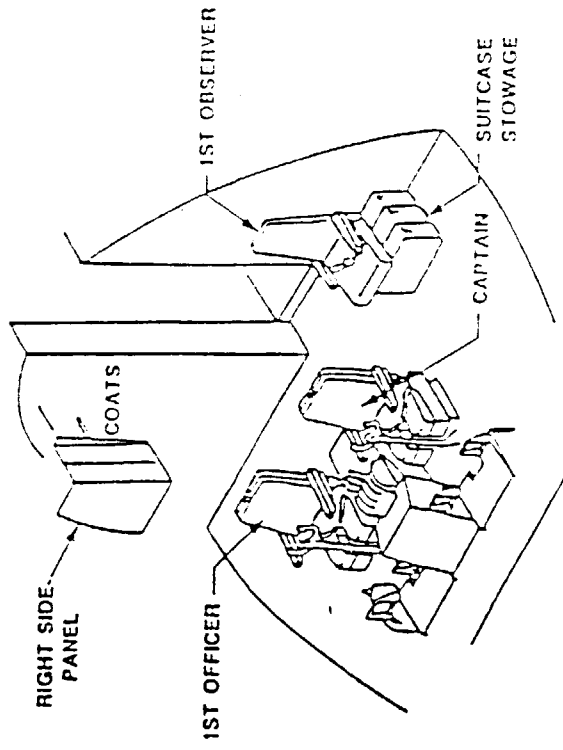
# Flight Deck and Forward Instrument Panels



PANEL NOMENCLATURE

FLIGHT DECK

- P1-1 CAPT MAIN INSTRUMENTS
- P1-3 CAPT CTR INSTRUMENTS
- P3-1 F/O CTR INSTRUMENTS
- P3-3 F/O MAIN INSTRUMENTS
- P5 PILOT OVERHEAD
- P6 MN POWER DISTRIBUTION
- P7 GLARESHIELD
- P8 ELECTRONICS, AFT
- P9 ELECTRONICS, FWD
- P10 STAND QUADRANT
- P11 OVERHEAD CIRCUIT BRK.
- P13 CAPT AUX INSTR, FWD
- P14 F/O AUX INSTR, FWD
- P17 FIRST OBSERVER INSTR.
- P26 LIGHTING EQUIPMENT
- P55 GLARE SHIELD, CENTER
- P61 SIDEWALL



BASIC

FLIGHT DECK  
AND ELECTRONICS

# M & N Instrument Module Locations

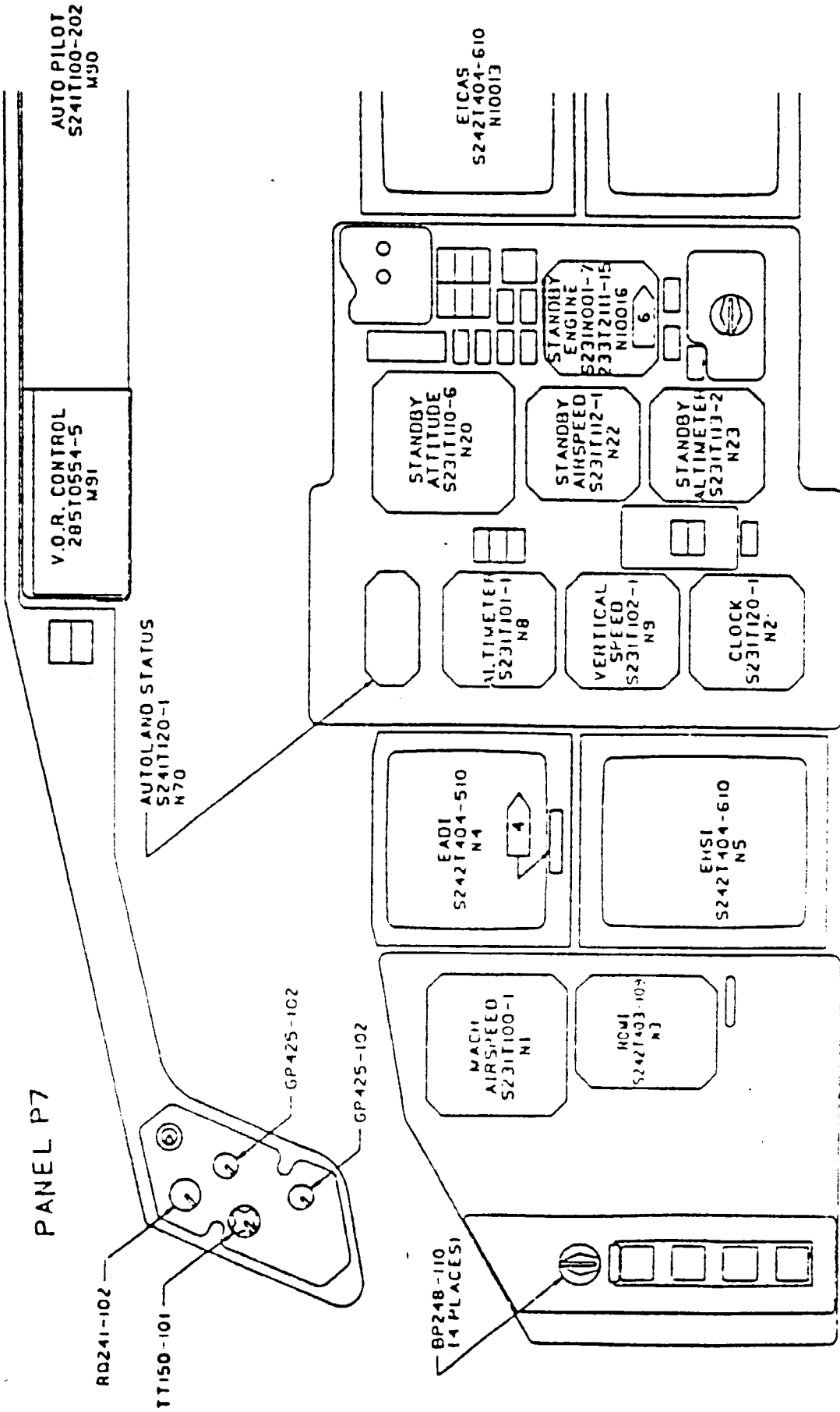
Module ID	Module Description	Location	Module ID	Module Description	Location
M1	APU CONTROL	P5	M10193	AIR CONDITIONING	P5
M13	CABIN ALTITUDE CONTROL	P5	M10250	YAW DAMPER	P5
M19	CABIN PRESSURE GAUGE	P5	M10258	THRUST MODE SELECTOR	P3-1
M32	MISCELLANEOUS TEST	P61	M10259	BLEED AIR SYSTEM	P5
M33	GASPER AIR FLIGHT RECORDER/ SERVICE INTERPHONE	P61	M10372	EICAS MAINTENANCE	P61
M43	EMERG. LIGHT/PASSENGER OXYGEN	P5	M10386	PRINTER	P8*
M50	VOICE RECORDER	P5	M10394	MISC. ANNUNCIATION	P5
M52	PASSENGER SIGNS	P5	M10395	WING HEAT	P5
M56	MISCELLANEOUS LIGHTINGS	P5	M10397	WING/ENGINE ANTI-ICE	P5
M59	INERTIAL REFERENCE MODE PANEL	P5	M10398	MISCELLANEOUS TEST	P61
M70	AUDIO SELECTOR	P8	M10468	ENGINE START	P5
M71	AUDIO CONTROL	P8	M10761	EEC CONTROLS	P5**
M75	WEATHER RADAR	P8	H1	MACH/AIRSPEED INDICATOR	P1-1
M76	FMC CDU	P9	H2	CLOCK	P1-3
M77	FMC CDU	P9	H3	RDMI	P1-1
M78	VHF	P8	H4	ADI	P1-1
M79	VHF	P8	H5	HSI	P1-1
M85	ADF CONTROL	P8	H8	ALTIMETER	P1-3
M87	ILS	P8	H9	VERTICAL SPEED	P1-3
M90	MODE CONTROL PANEL	P55	H10	BREAK PRESSURE	P3-1
M91	VOR CONTROL	P55	H15	FLAP POSITION	P3-1
M92	VOR CONTROL	P55	H20	STANDBY ATTITUDE INDICATOR	P1-3
M93	EFIS CONTROL	P10	H22	STANDBY AIRSPEED	P1-3
M94	EFIS CONTROL	P10	H23	STANDBY ALTIMETER	P1-3
M98	1ST OBSERVER'S AUDIO	P17	H41	MACH AIR	P3-1
M10023	WINDSHIELD CONTROL	P5	H42	CLOCK	P3-3
M10195	EICAS CONTROLS	P9	H43	RDMI	P3-1
M10443	ENGINE/CARGO/APU FIRE CONTROL	P8	H44	ADI	P3-3
M10444	ENGINE/CARGO/APU FIRE CONTROL	P8	H45	HSI	P3-3
M10445	FIRE/OVERHEAT TEST	P8	H48	ALTIMETER	P3-3
M10050	HYDRAULICS	P5*	H49	VERTICAL SPEED INDICATOR	P3-3
M10054	FUEL QTY INDICATOR	P5	H70	AUTOLAND STATUS	P1-3
M10055	FUEL	P5	H71	AUTOLAND STATUS	P3-1
M10056	MISCELLANEOUS LIGHTINGS	P5	H10013	EICAS	MID P1,3
M10057	MISCELLANEOUS LIGHTINGS	P5	H10014	EICAS	MID P1,3
M10062	STANDBY POWER	P5	H10016	STANDBY ENGINE INDICATOR	P1-3
M10067	EQUIPMENT COOLING	P5			
M10078	COMPT. TEMPERATURE	P5			
M10140	ATC CONTROL	P8			
M10191	GEN. FIELD HYD. FLT.	P61			

\* PRATT & WHITNEY

\*\* ROOFS ROYCE

# Flight Deck Main Panels

PANEL P55



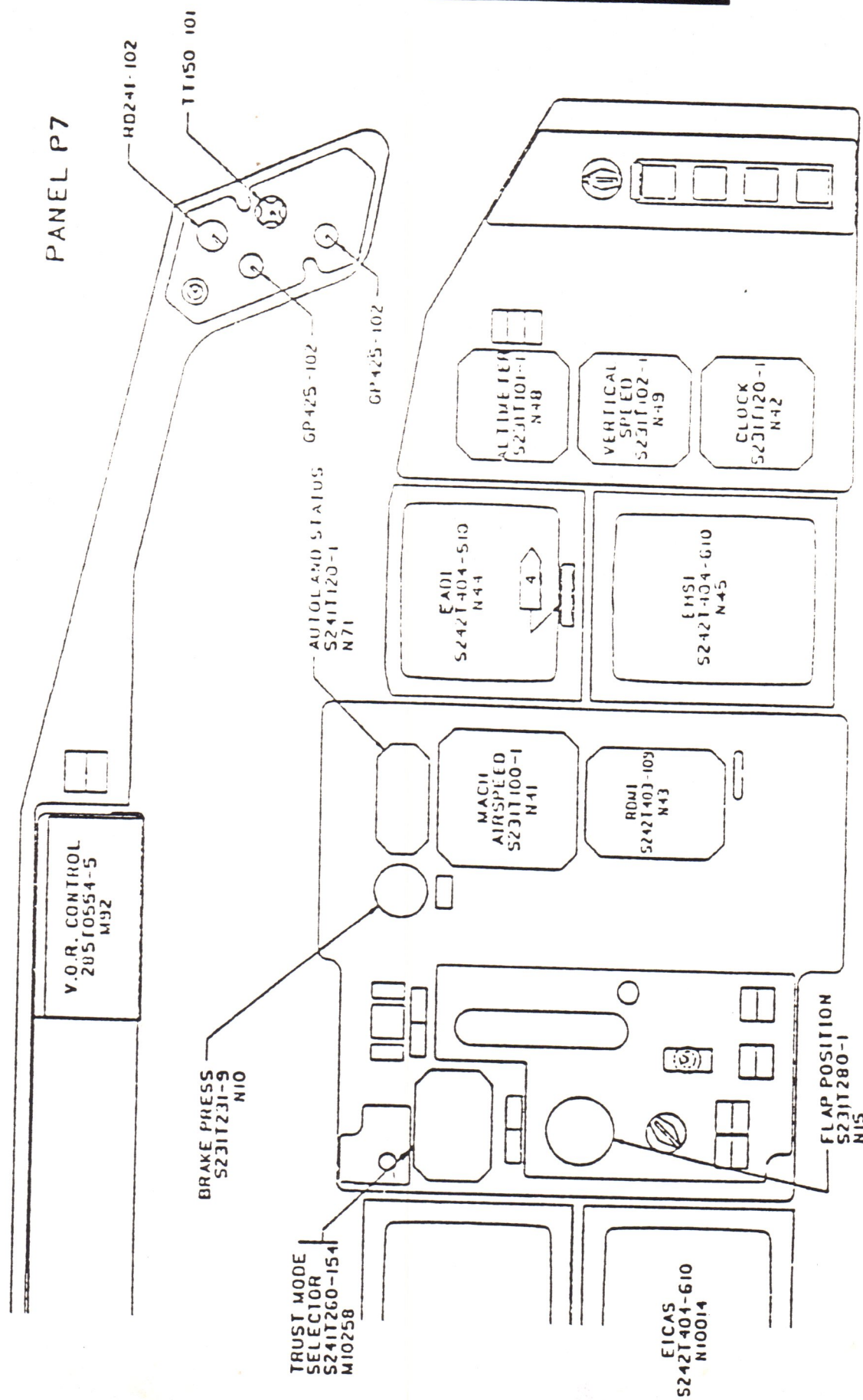
PANEL PI-3

PANEL PI-1

FLIGHT DECK  
AND ELECTRONICS

DRAWING REFERENCE:  
 233N2101 SH. 20 RB  
 SH. 21 P&W

FLIGHT DECK  
 AND ELECTRONICS

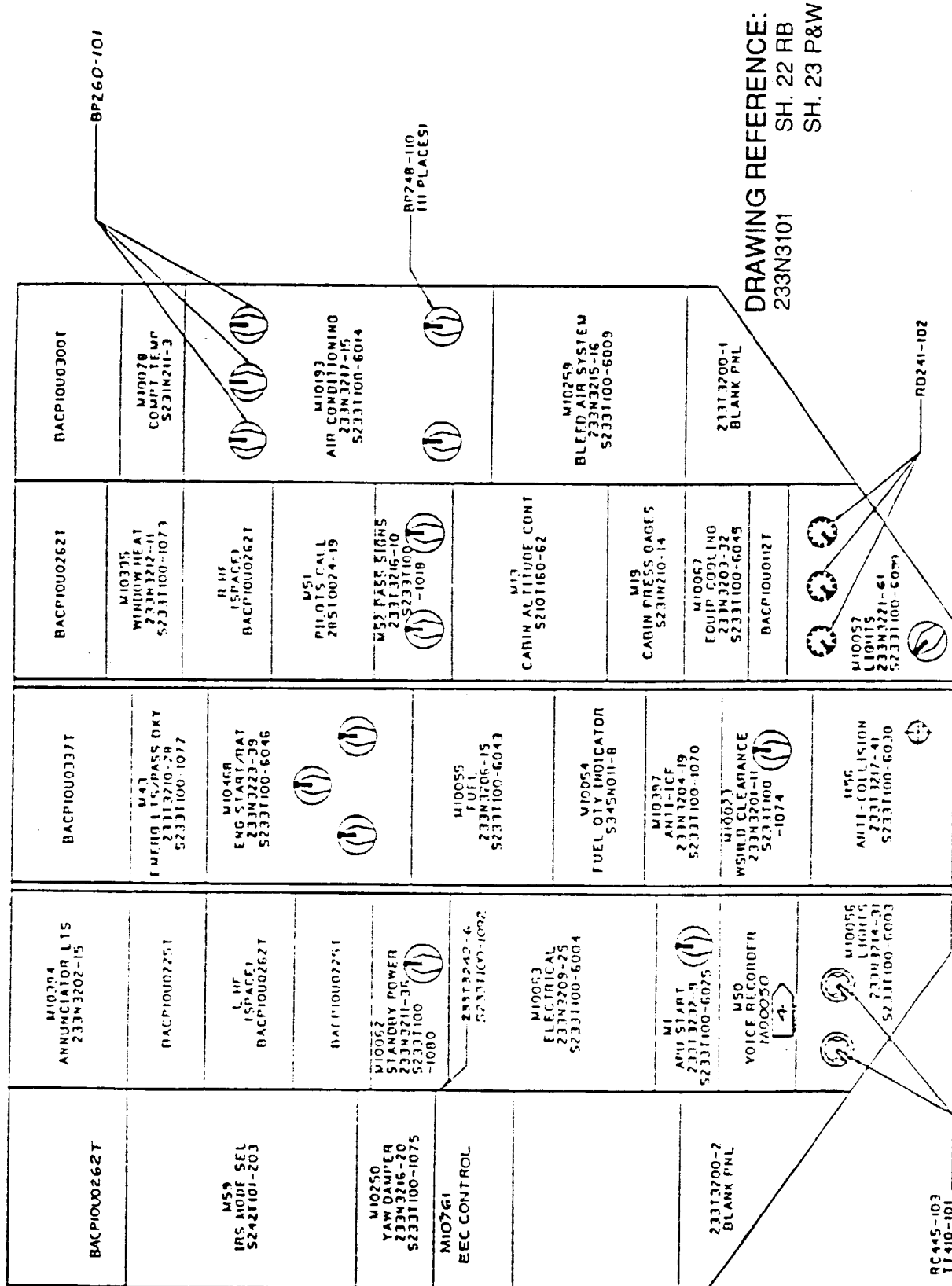


PANEL P3-3

PANEL P3-1



# Flight Deck Overhead Panel



FLIGHT DECK AND ELECTRONICS

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# Principal Characteristics Passenger

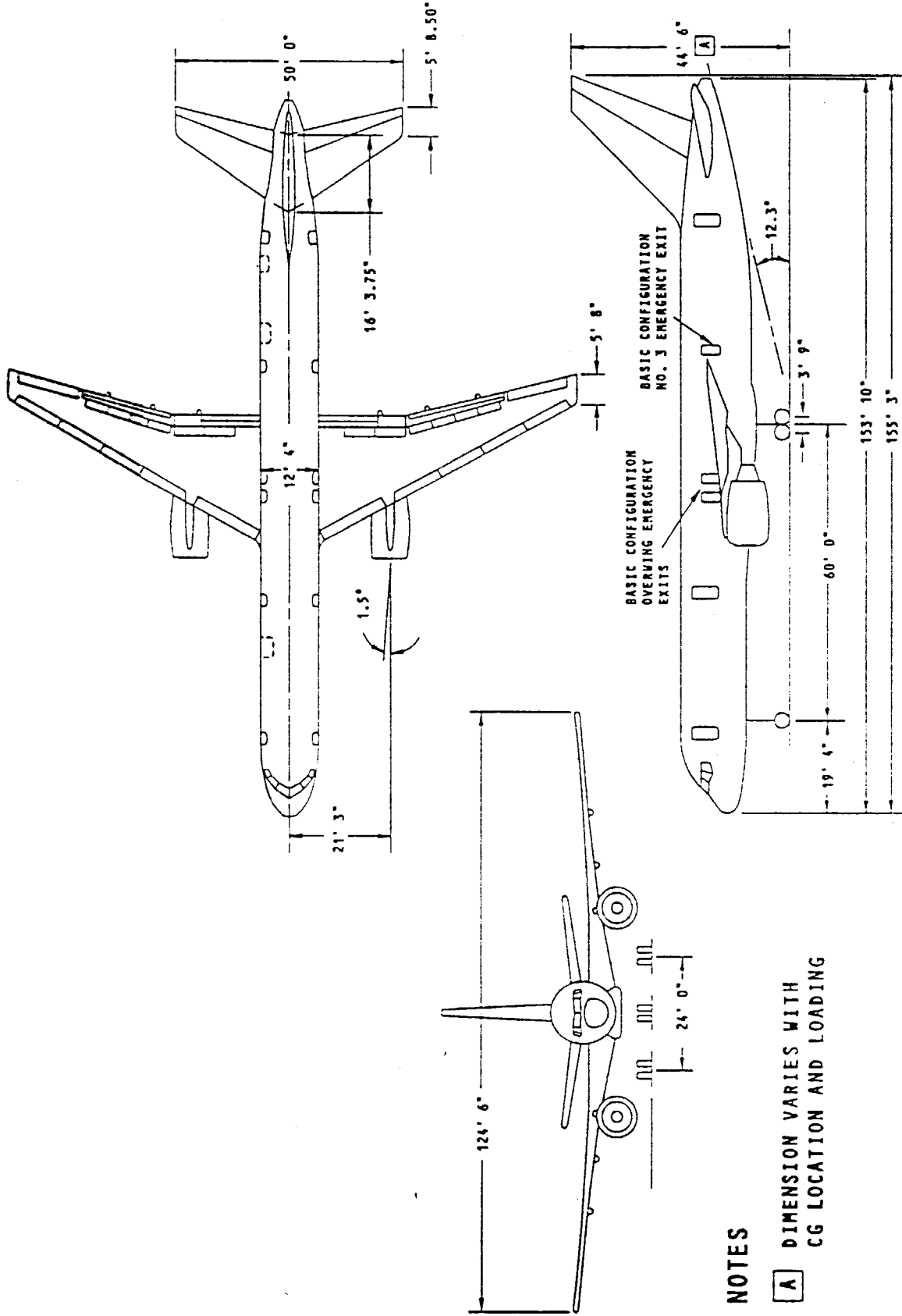
Overall Dimensions	English	Metric	Design Weights	English	Metric
Length	155 ft 3 in.	47.3 m	Max Brake Release	220 000 lb	99 700 kg
Height	44 ft 6 in.	13.6 m	Basic	230 000 lb	104 300 kg
Tread	24 ft 0 in.	7.3 m	Option	240 000 lb	108 800 kg
Wheel Base	60 ft 0 in.	18.3 m	Option	255 000 lb	115 600 kg
Wing			Max Landing	210 000 lb	95 200 kg
Span	124 ft 10 in.	38.0 m	Max Zero Fuel	186 000 lb	84 300 kg
Area	1951 ft <sup>2</sup>	181.2 m <sup>2</sup>			
Sweep, degrees	25	25	Cabin Length	118 ft 5 in.	36.1 m
Engines, Sea Level Static Thrust			Bulk Cargo Volume	1790 ft <sup>3</sup>	50.7 m <sup>3</sup>
R-R, RB211-535E4	40 100 lb	18 200 kg			
R-R, RB211-535E4-B	43 100 lb	19 500 kg			
P&W, PW2037	38 200 lb	17 350 kg			
P&W, PW2040	41 700 lb	18 900 kg			
Fuel Capacity	11 276 U. S. gal.	42 680 liters			

# Principal Characteristics Freighter

GENERAL DIMENSIONS	ENGLISH (FT.-IN.)	METRIC (M)	DESIGN WEIGHTS	ENGLISH (LB)	METRIC (KG)
LENGTH	155-3	47.3	BASIC	251 000	113 800
SPAN	124-10	38.0	MAX TAXI	250 000	113 400
HEIGHT	44-6	13.6	MAX BRAKE RELEASE	210 000	95 200
BODY LENGTH	154-1	47.0	MAX LANDING	200 000	90 700
HORIZONTAL TAIL SPAN	49-11	15.2	MAX ZERO FUEL		
CABIN LENGTH	115-1	35.1	OPTION		
WHEEL BASE	60-0	18.3	MAX TAXI	256 000	116 100
TREAD	24-0	7.3	TO MAX BRAKE RELEASE	255 000	115 600
180° TURN AROUNDS	120-0	36.6			
FUEL CAPACITY	11 276 U.S.GAL.	42 680 LITERS			
ENGINES, SLST	(LB)	(KG)	CONTAINERS/PALLETS*	15	15
PW2037	38 200	17 350	MAIN DECK VOLUME	6600 FT3	186.9 M3
PW2040 (OPTION)	41 700	18 900	BULK VOLUME	1830 FT3	51.8 M3
			TOTAL VOLUME	8430 FT3	238.7 M3
			STRUCTURAL PAYLOAD (INCLUDING TARE)	87 510 LB	39 695 KG

\*08 X 125 IN. (223 X 317 CM) CONTAINERS/PALLETS  
TYPICAL TARE WEIGHTS: CONTAINERS 520 LB (235 KG),  
PALLETS 220 LB (100 KG)

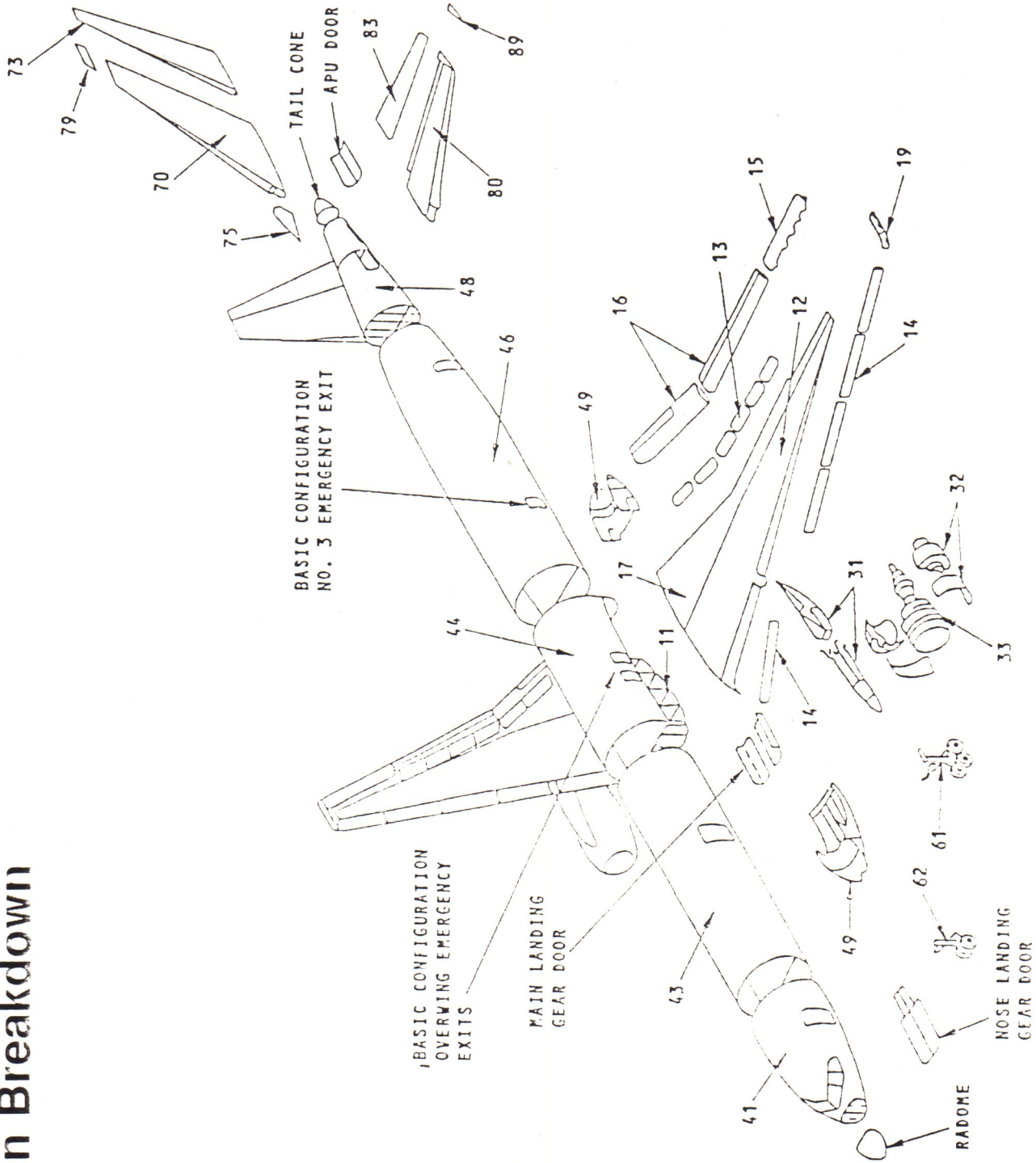
# Dimensions



## NOTES

- A** DIMENSION VARIES WITH CG LOCATION AND LOADING

# Section Breakdown



# Drawing Reference Breakdown

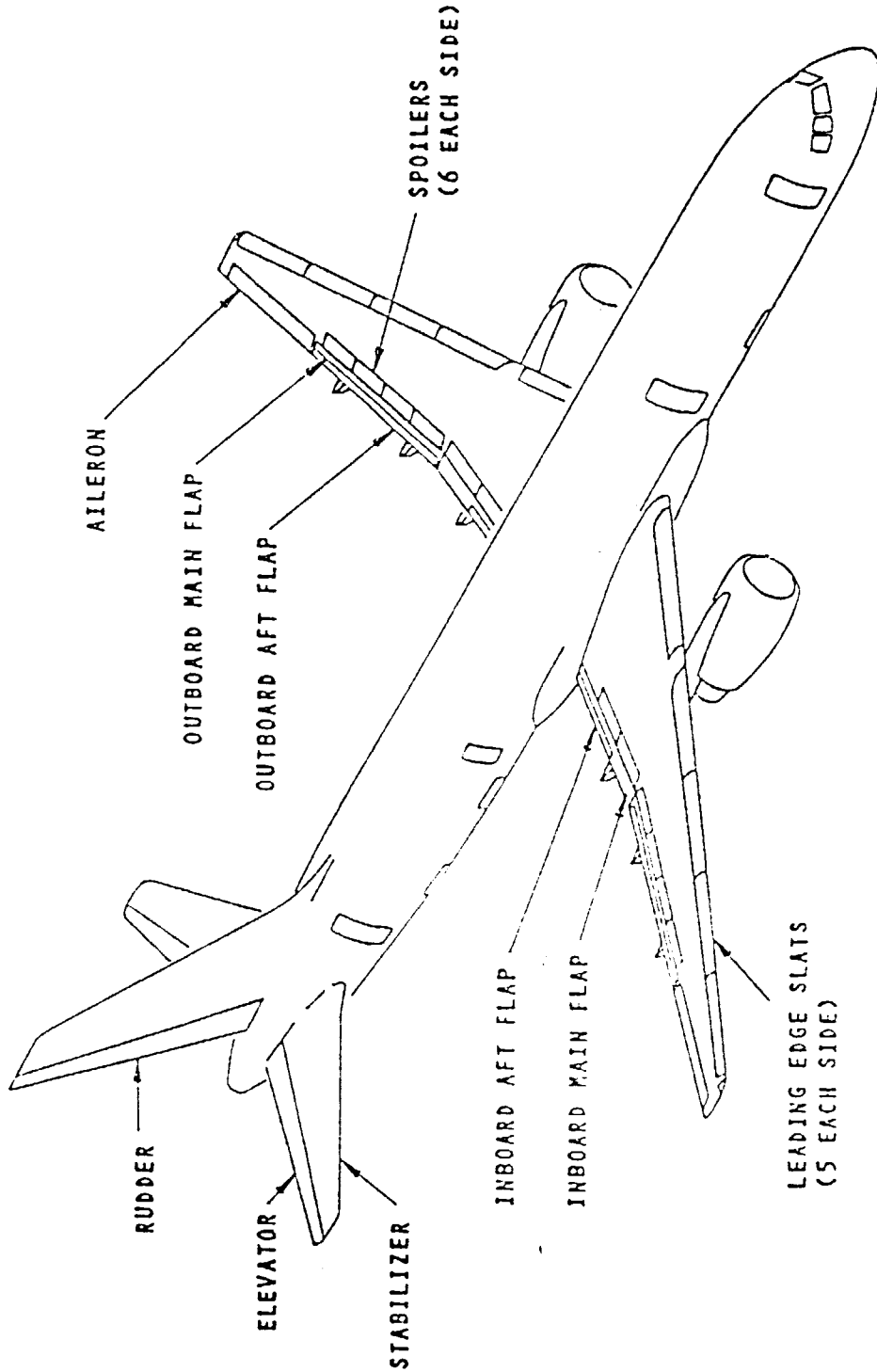
**NOTES**

- A FOR ROLLS ROYCE RB211-535C ENGINE
- B FOR PRATT & WHITNEY PW 2037 ENGINE

ID#	DRAWING TITLE	DRAWING NUMBER
11	WING CENTER SECTION ASSY	111N0000
12	OUTBOARD WING ASSY	112N0000
13	INBOARD SPOILER INSTL	113N4000
	OUTBOARD SPOILER INSTL	113N5000
14	INBOARD LEADING EDGE SLAT INSTL	114N3000
	OUTBOARD LEADING EDGE SLAT INSTL	114N4000
15	AILERON INSTL	113N7000
16	INBOARD TRAILING EDGE FLAP INSTL	113N2000
	OUTBOARD TRAILING EDGE FLAP INSTL	113N3000
17	FIXED TAILING EDGE INSTL	113N1000
19	WING TIP INSTAL	119N0001
31	STRUT ASSY <input type="checkbox"/> A	311N5002
	STRUT ASSY <input type="checkbox"/> B	
32	COWL INSTL <input type="checkbox"/> A	
	COWL INSTL <input type="checkbox"/> B	
33	POWER PLANT INSTL <input type="checkbox"/> A	
	POWER PLANT INSTL <input type="checkbox"/> B	
41	BODY INSTL - SECTION 41	141N0001

43	BODY INSTL -- SECTION 43	143N0001
44	BODY INSTL -- SECTION 44	144N0001
46	BODY INSTL -- SECTION 46	146N0001
48	BODY INSTL -- SECTION 48	148N0001
49	WING-TO-BODY FAIRING INSTL	149N0001
61	MAIN LANDING GEAR INSTL	161N0000
62	NOSE LANDING GEAR INSTL	162N0000
70	VERTICAL STABILIZER INSTL	170N0001
73	RUDDER INSTL	173N2001
75	DORSAL FIN ASSY	146N0800
79	VERTICAL STABILIZER TIP INSTL	179N0001
80	HORIZONTAL STABILIZER INSTL	180N0001
83	ELEVATOR INSTL	183N2001
89	HORIZONTAL STABILIZER TIP INSTL	189N0001
	RADOME ASSY	284N1418
	NOSE LANDING GEAR DOOR INSTL	141N6900
	MAIN LANDING GEAR DOOR INSTL	149N6001
	APU DOOR INSTL	148N6660
	TAIL COHE INSTL	148N8301

# Flight Control Surfaces



### DRAWING REFERENCE:

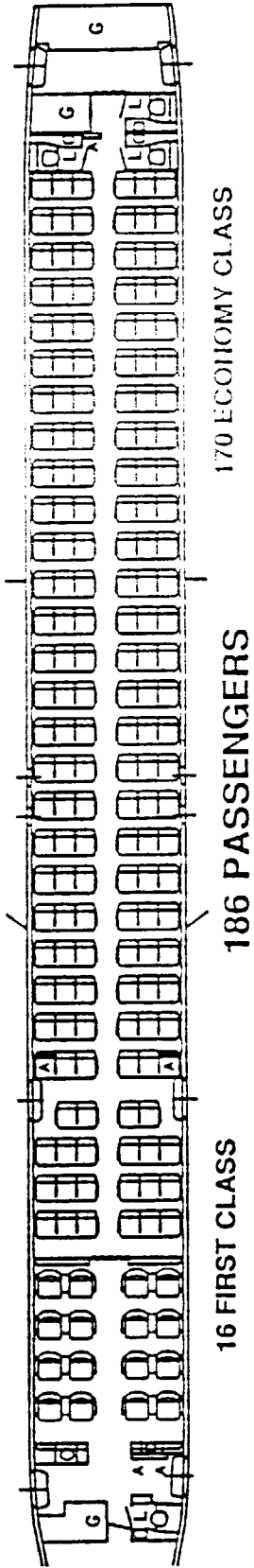
- Aileron & Spoiler Instl. 251N1101
- Elev. & Tab. Trim Instl. 251N2001
- Rudder & Trim Instl. 251N3001
- T.E. Flap Control Drive 251N4001
- L.E. Slat Drive 251N5001
- Cable Runs 251N6001



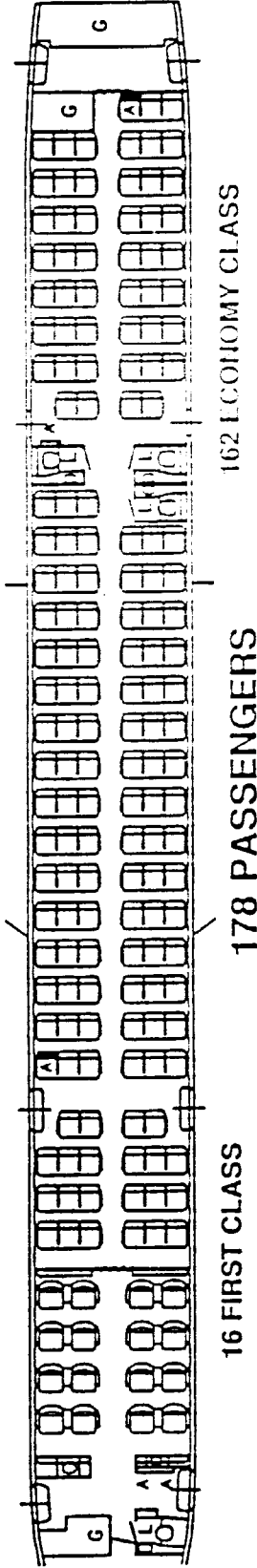
# Sample Interior Options

• 38/34-INCH PITCH

## WITH OVERWING EXITS



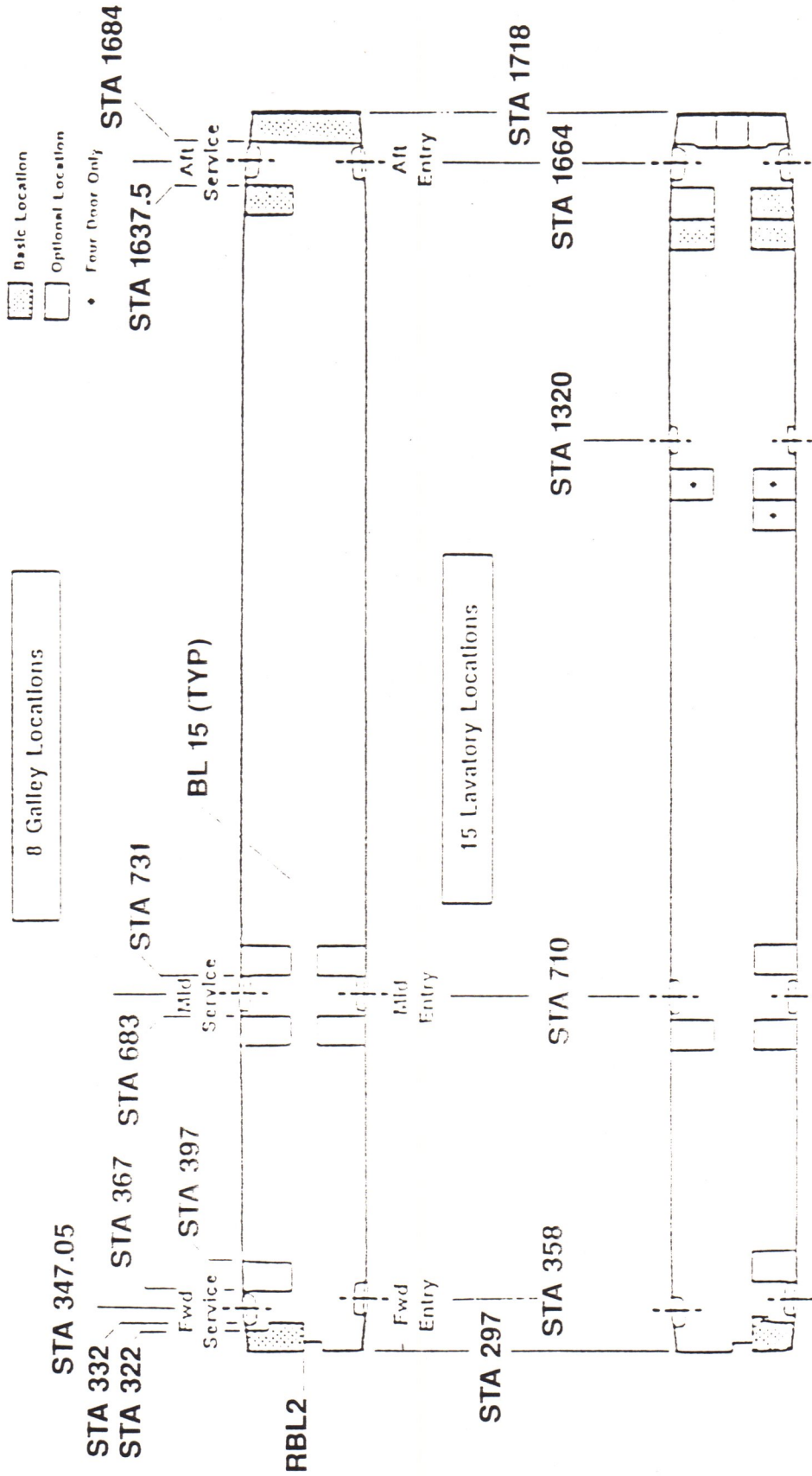
## WITH FOUR DOORS



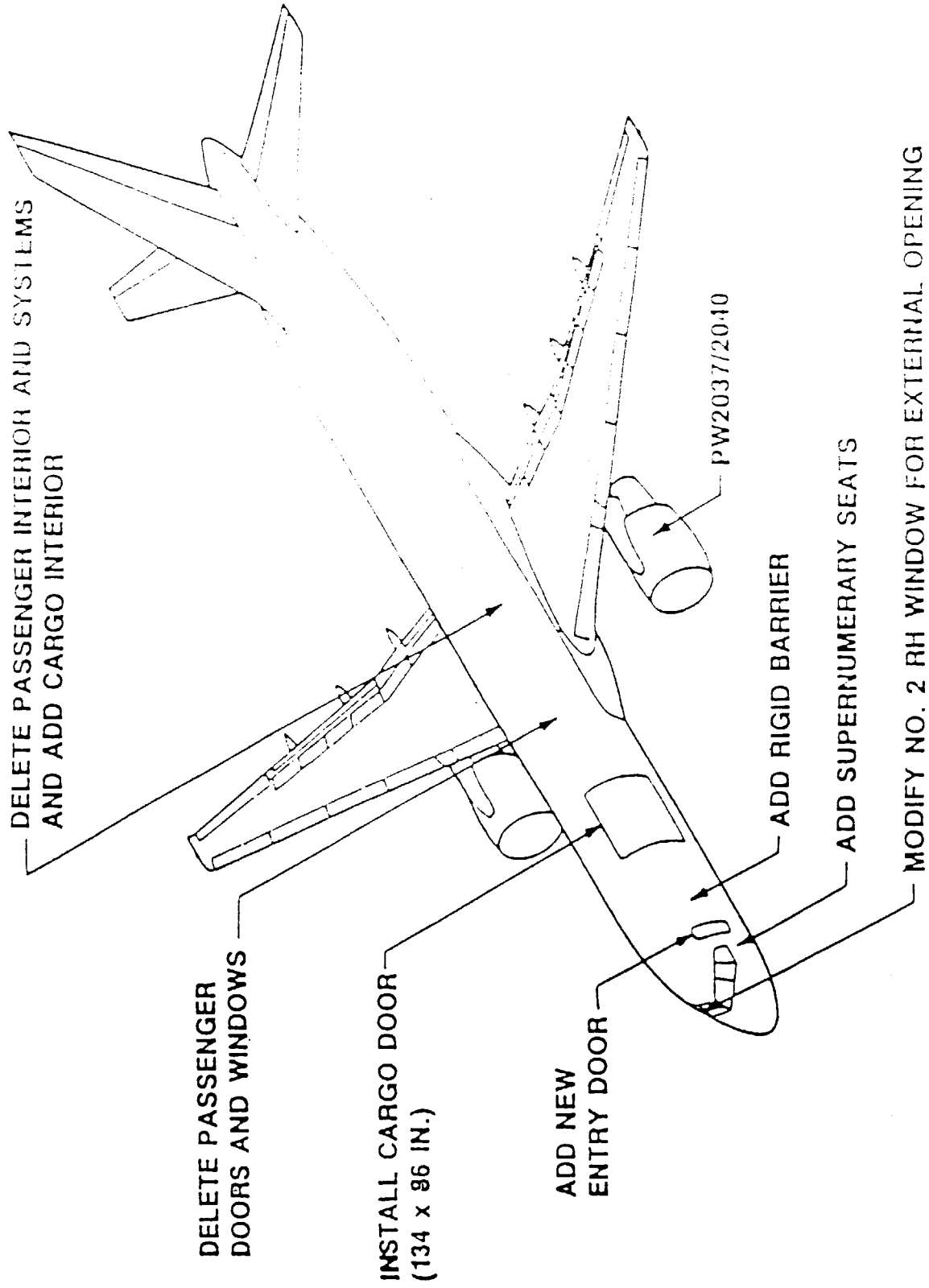
- A = ATTENDANT
- C = CLOSET
- G = GALLEY
- L = LAVATORY

PCD-5720-5070  
PCD-5724-5028

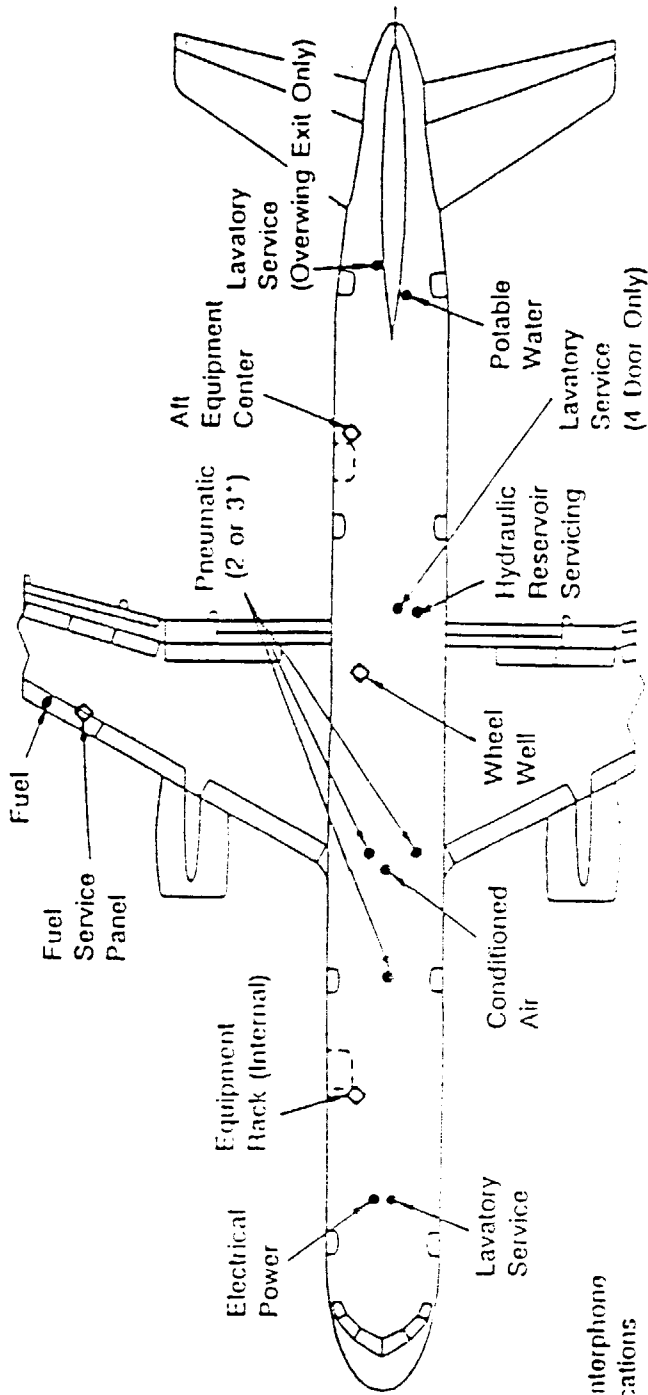
# Baseline Galley and Lavatory



# Changes From Passenger to Package Freighter



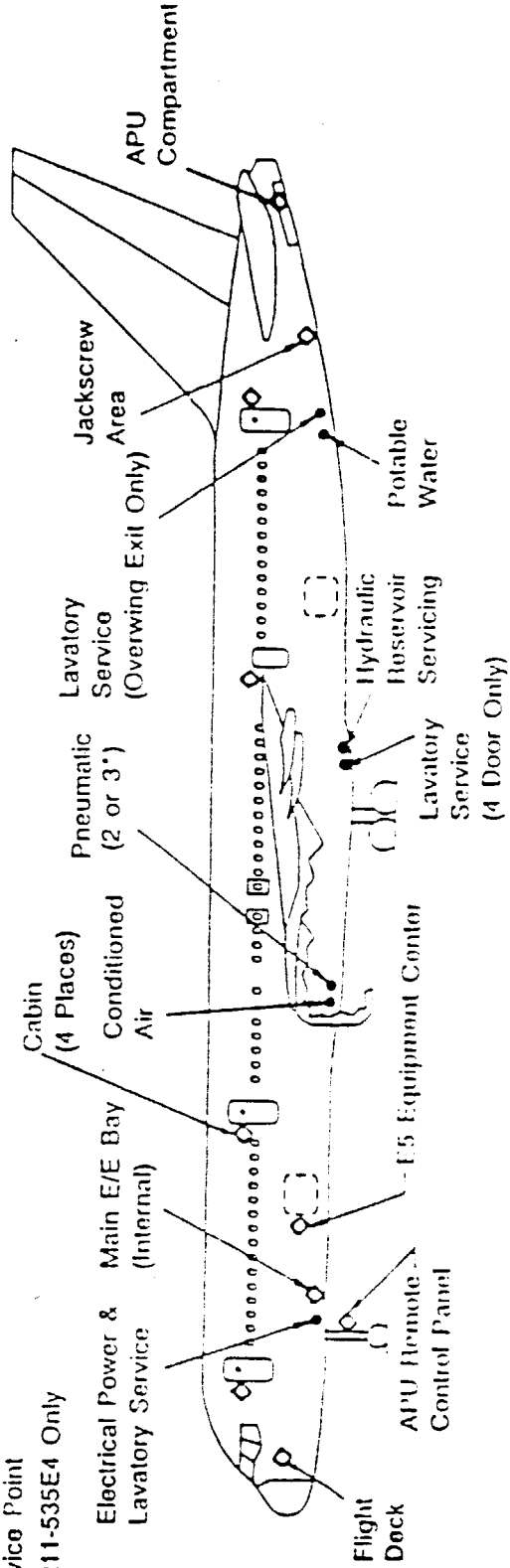
# Service Points



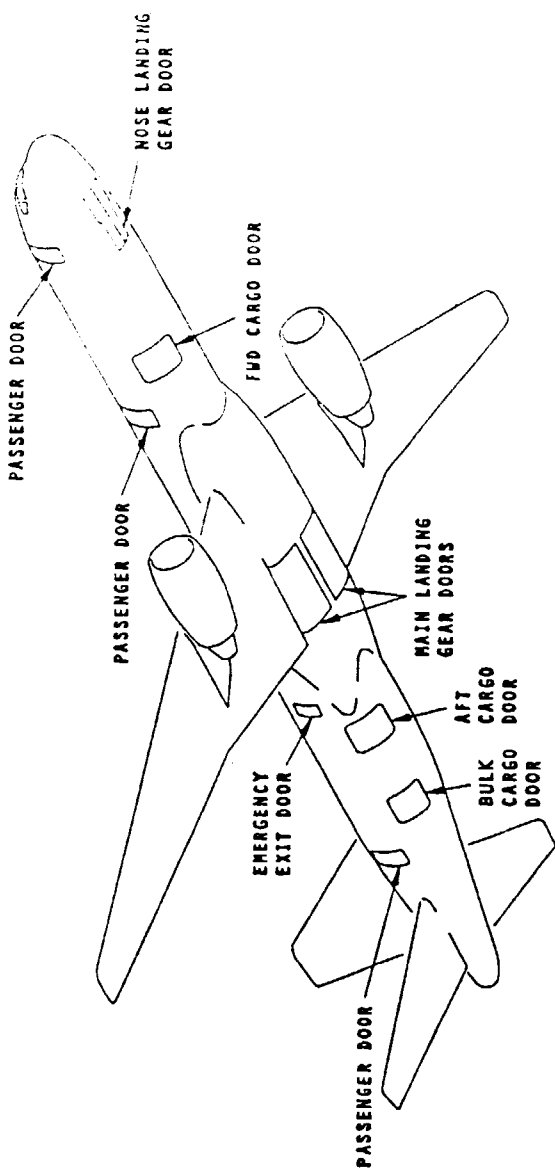
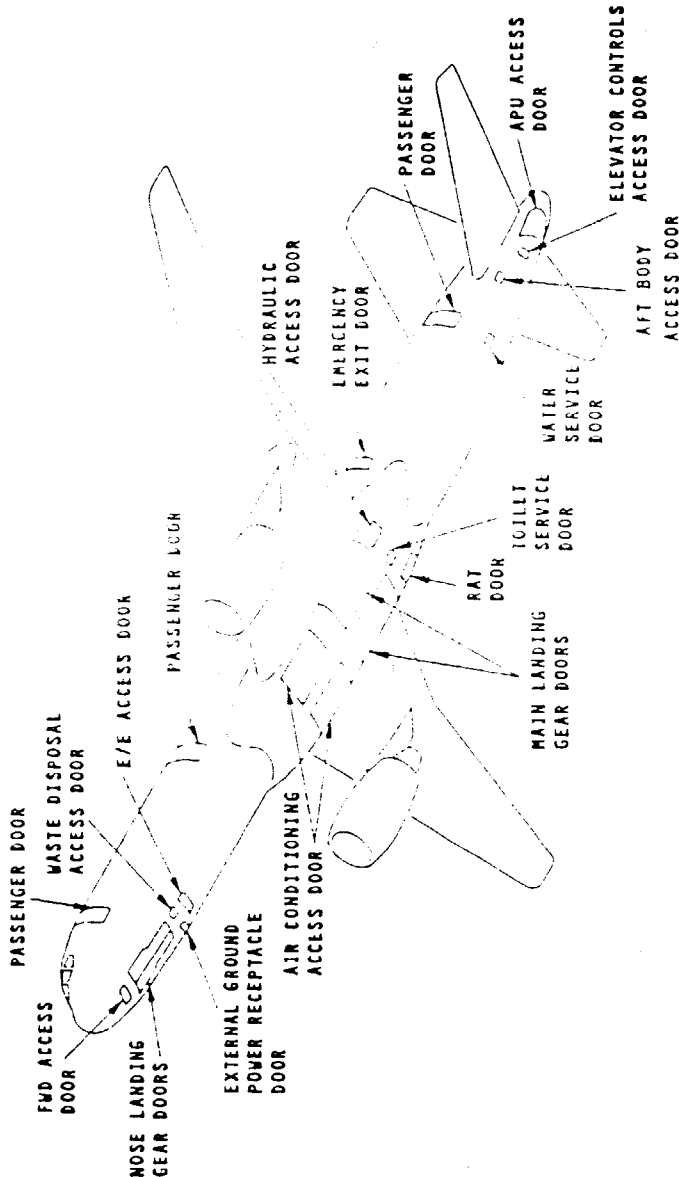
## NOTES

◊ Typical Interphone Jack Locations

- Service Point
- \* RB211-535E4 Only

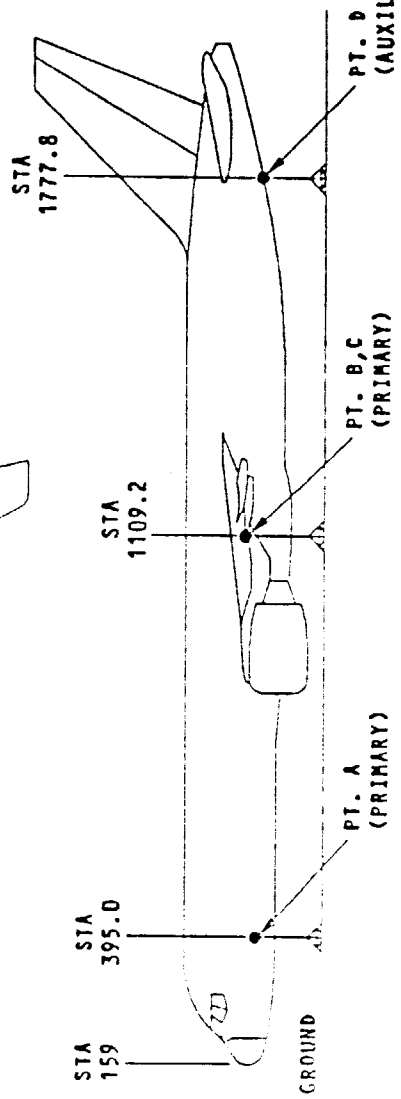
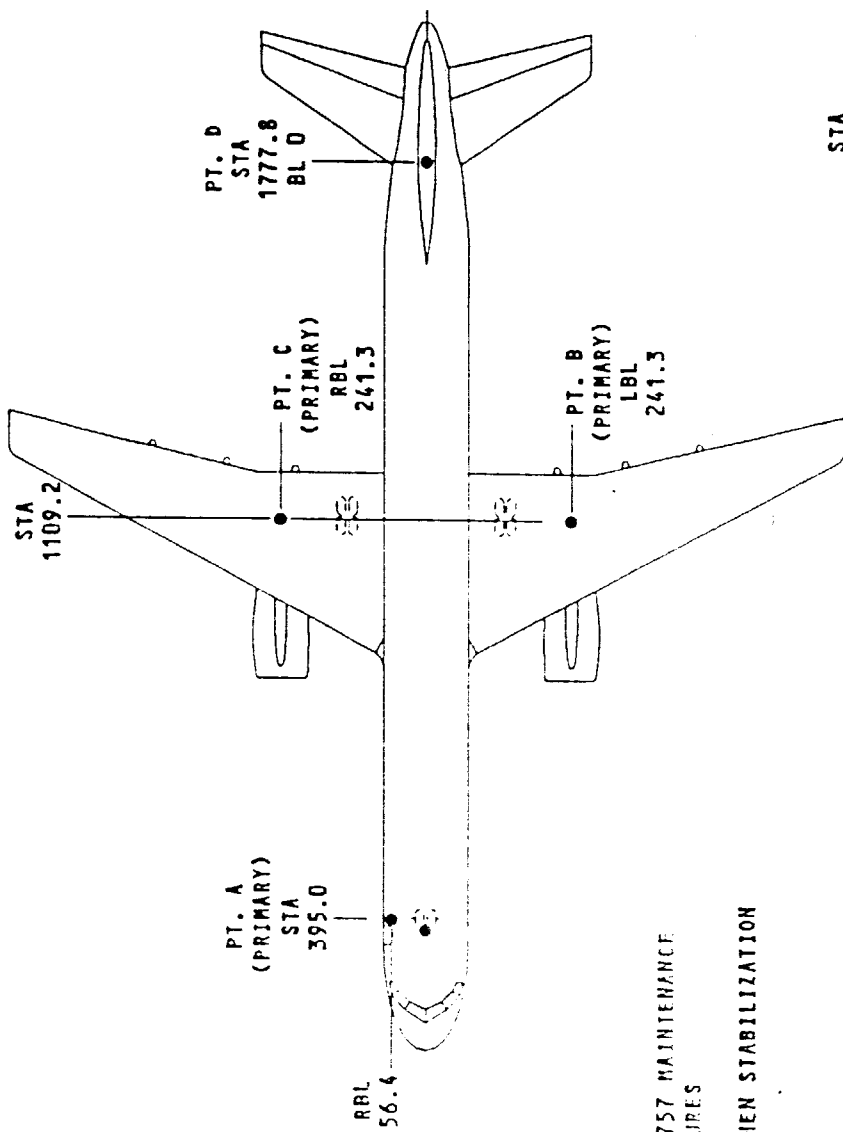


# Doors and Accesses



# Jack Points

SAFETY AND SERVICES

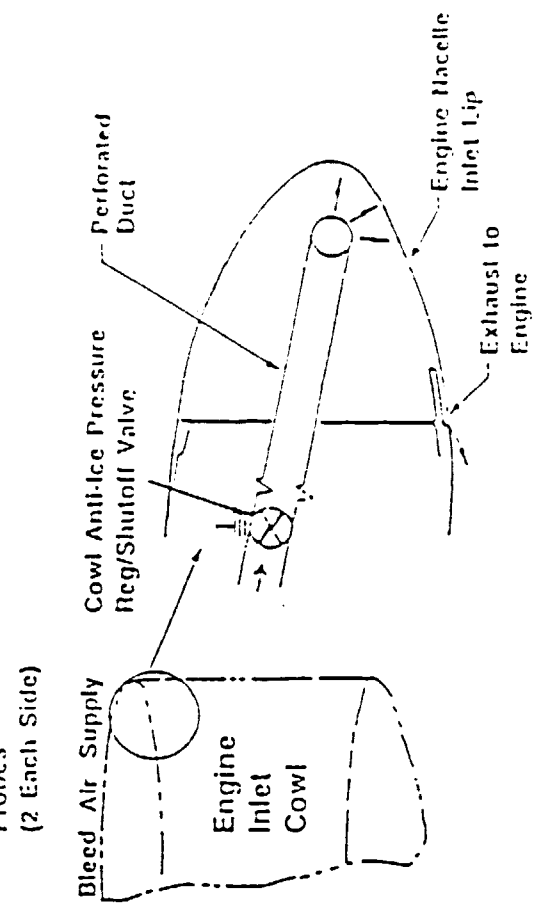
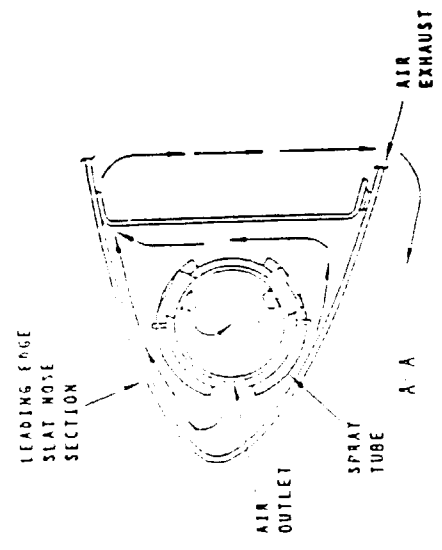
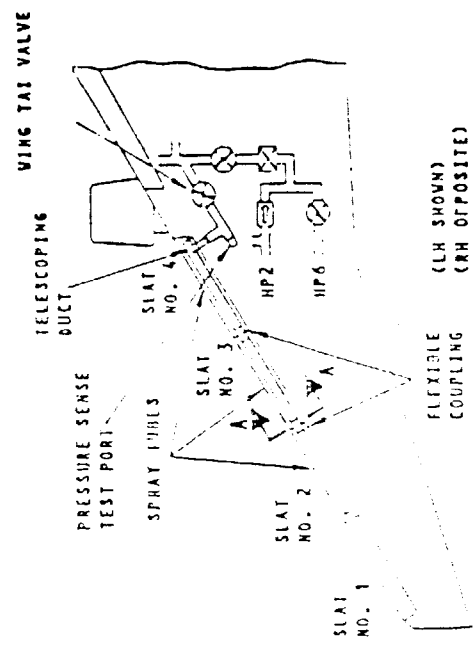
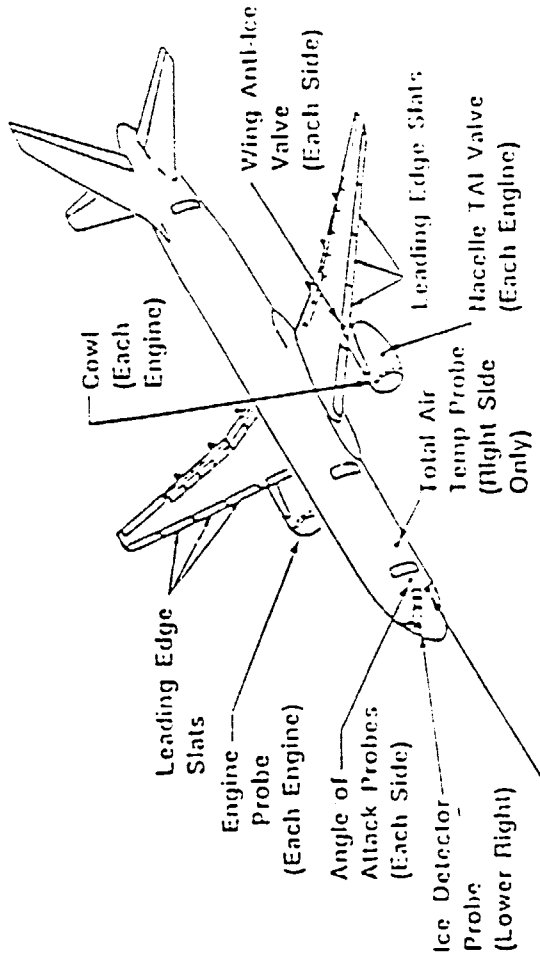


## NOTES

- REFER TO 07-11-01 OF THE 757 MAINTENANCE MANUAL FOR JACKING PROCEDURES
- [A] INSTALL JACK AT POINT D WHEN STABILIZATION IS REQUIRED

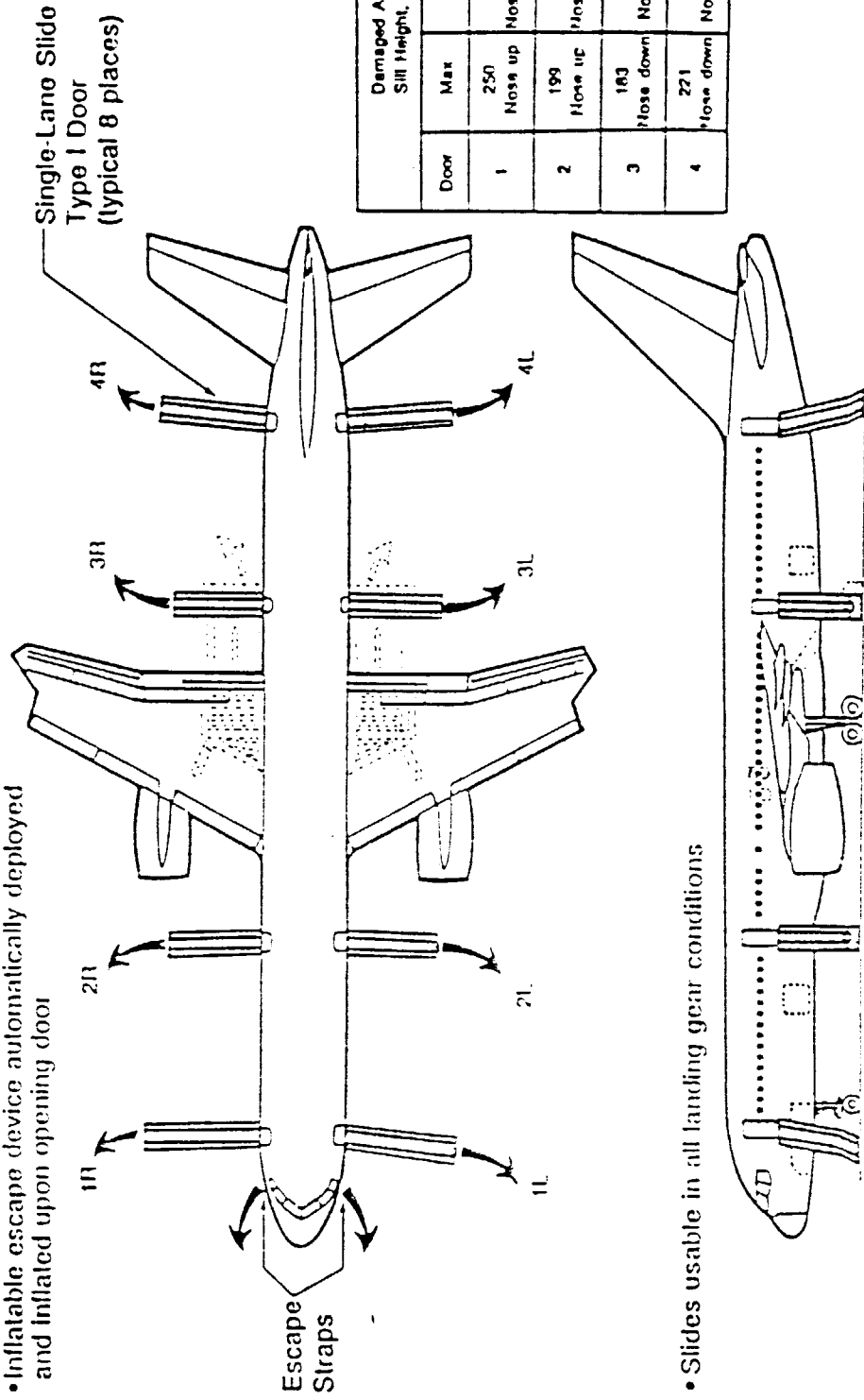
# Ice and Rain Protection

## SAFETY AND SERVICES



# Escape Slides

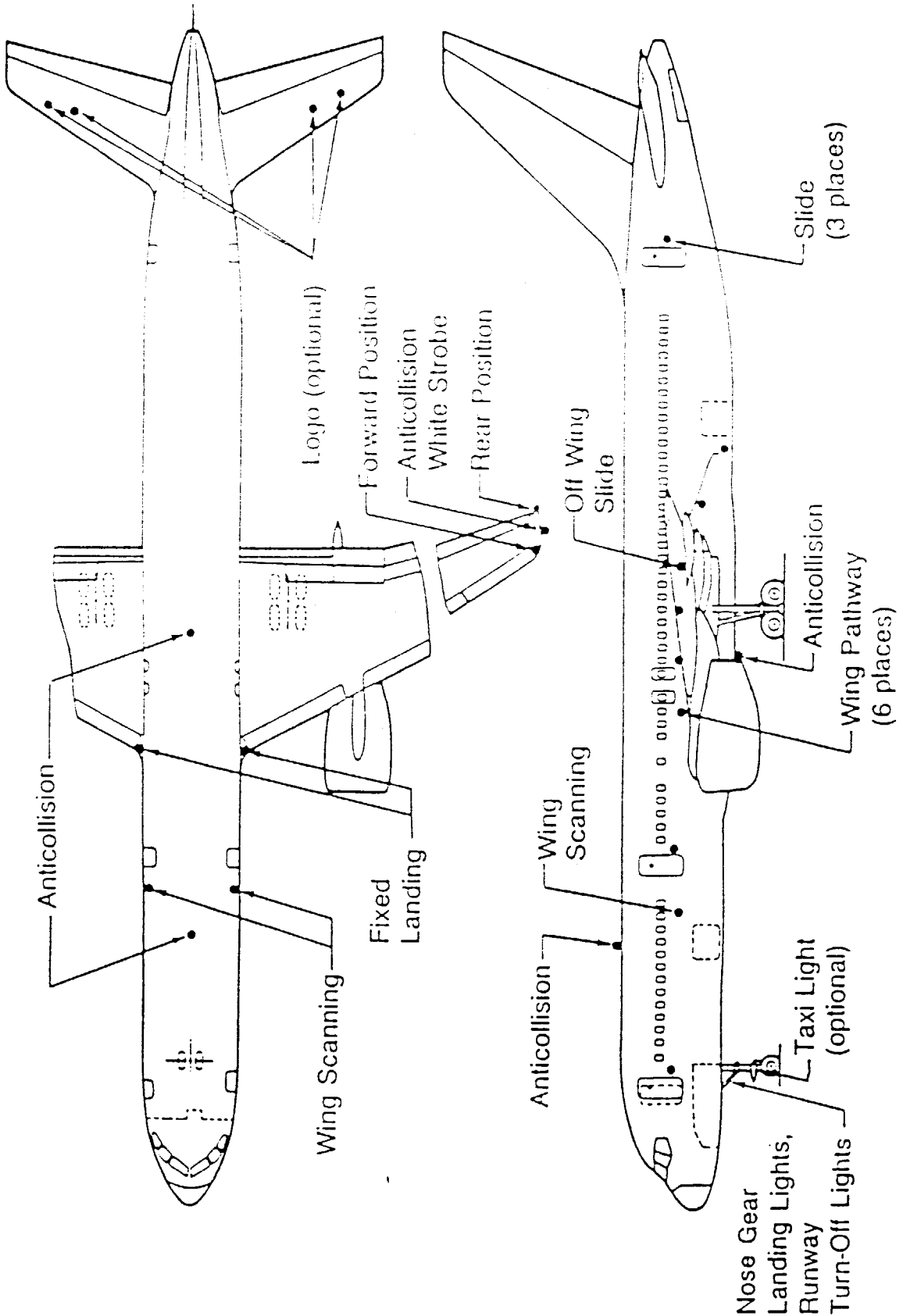
- Inflatable escape device automatically deployed and inflated upon opening door



Door	Damaged Airplane Sill Height, inches		Salt Water Ditching
	Max	Min	
1	250 Nose up	44 Nose down	26
2	199 Nose up	69 Nose down	26
3	183 Nose down	76 Nose up	15
4	221 Nose down	38 Nose up	11

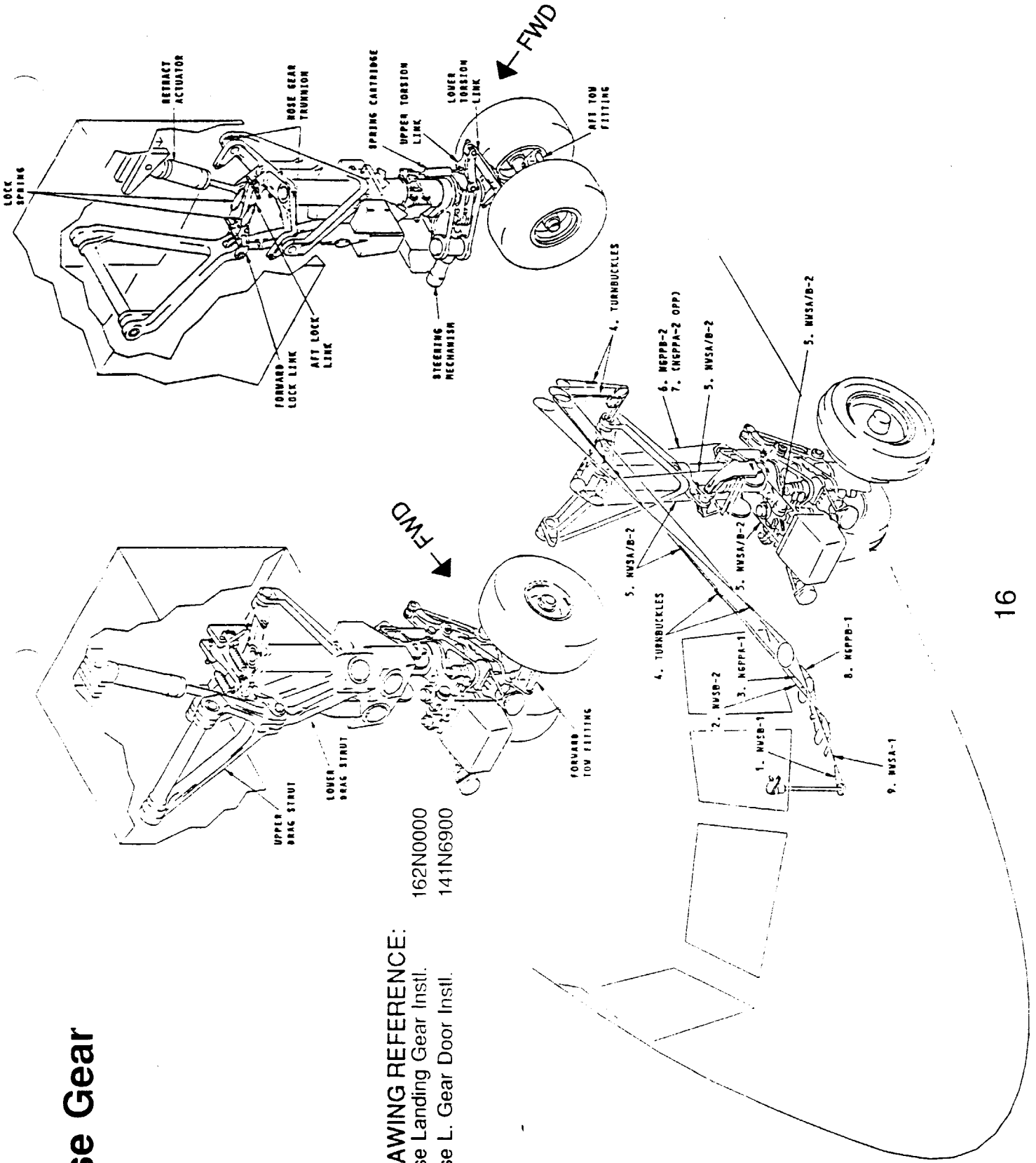


# Exterior Lighting

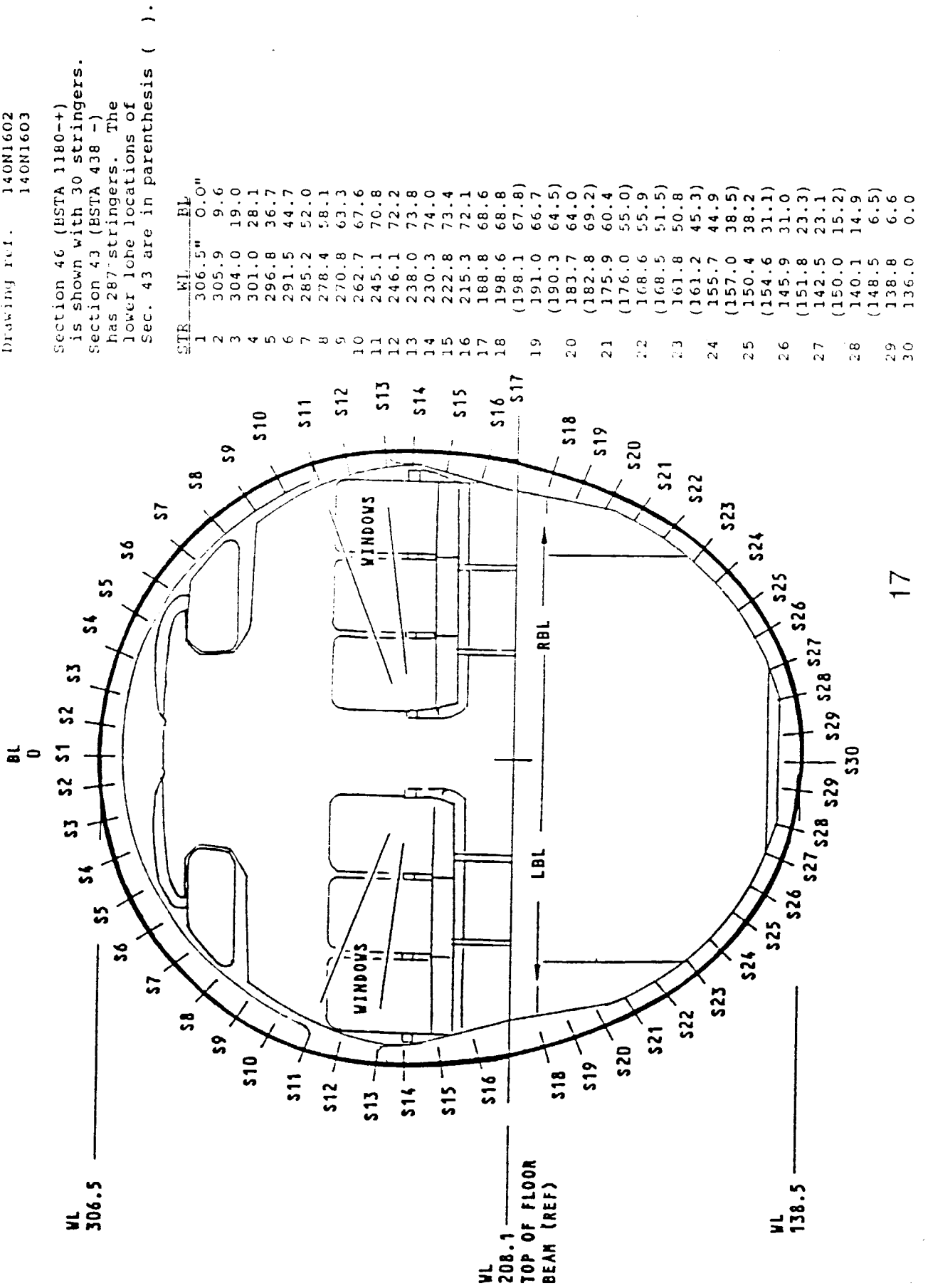


# Nose Gear

**DRAWING REFERENCE:**  
 Nose Landing Gear Instl. 162N0000  
 Nose L. Gear Door Instl. 141N6900



# Body Cross Section



## 757 STRINGER LOCATIONS

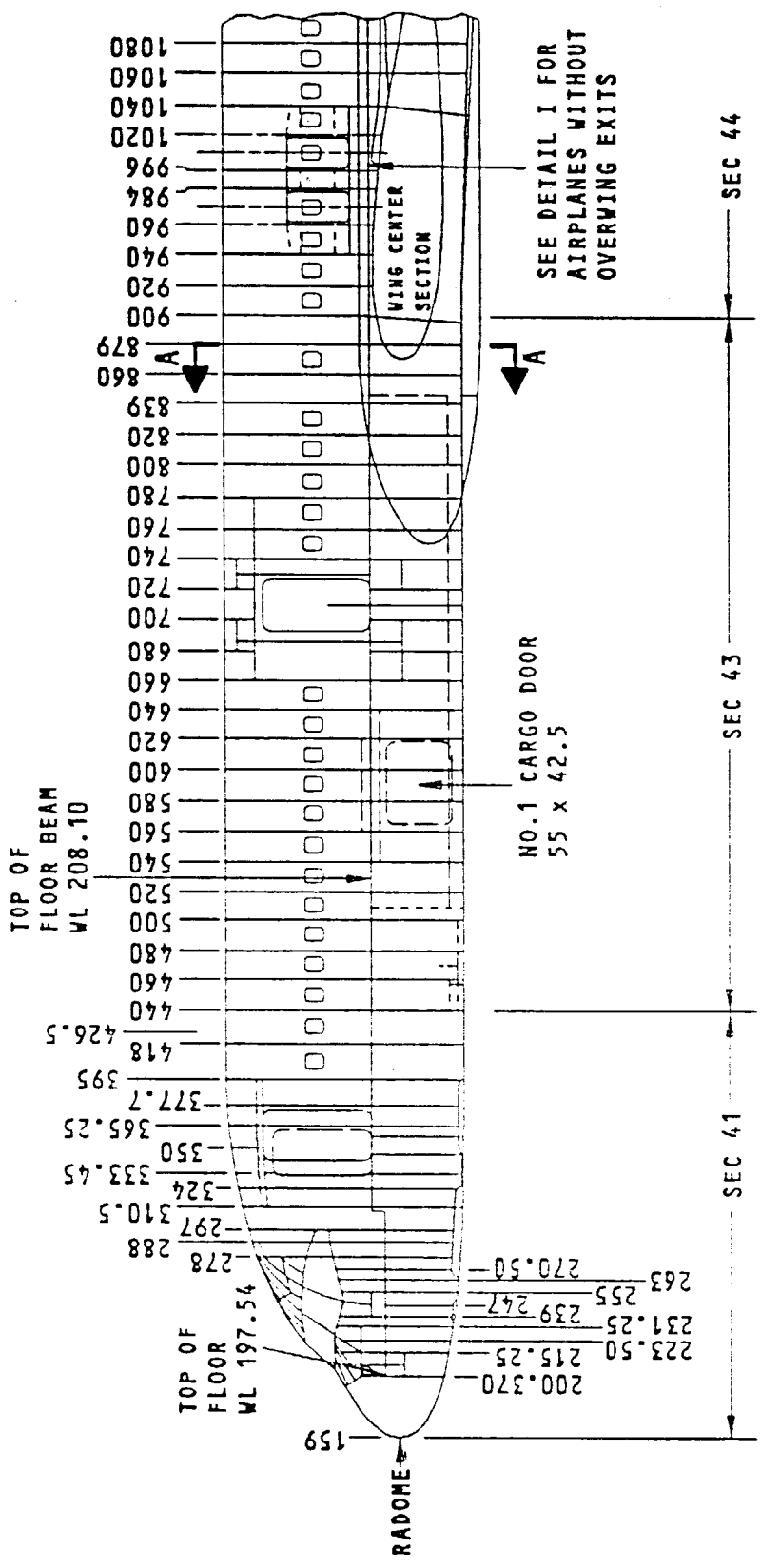
Drawing ref. 140N1602  
140N1603

Section 46 (BSTA 1180++) is shown with 30 stringers. Section 43 (BSTA 438 -) has 287 stringers. The lower lobe locations of Sec. 43 are in parenthesis ( ).

STR	WL	BL
1	306.5"	0.0"
2	305.9	9.6
3	304.0	19.0
4	301.0	28.1
5	296.8	36.7
6	291.5	44.7
7	285.2	52.0
8	278.4	58.1
9	270.8	63.3
10	262.7	67.6
11	245.1	70.8
12	246.1	72.2
13	238.0	73.8
14	230.3	74.0
15	222.8	73.4
16	215.3	72.1
17	188.8	68.6
18	198.6	68.8
19	191.0	66.7
	(190.3	64.5)
20	183.7	64.0
	(182.8	69.2)
21	175.9	60.4
	(176.0	55.0)
22	168.6	55.9
	(168.5	51.5)
23	161.8	50.8
	(161.2	45.3)
24	155.7	44.9
	(157.0	38.5)
25	150.4	38.2
	(154.6	31.1)
26	145.9	31.0
	(151.8	23.3)
27	142.5	23.1
	(150.0	15.2)
28	140.1	14.9
	(148.5	6.5)
29	138.8	6.6
30	136.0	0.0

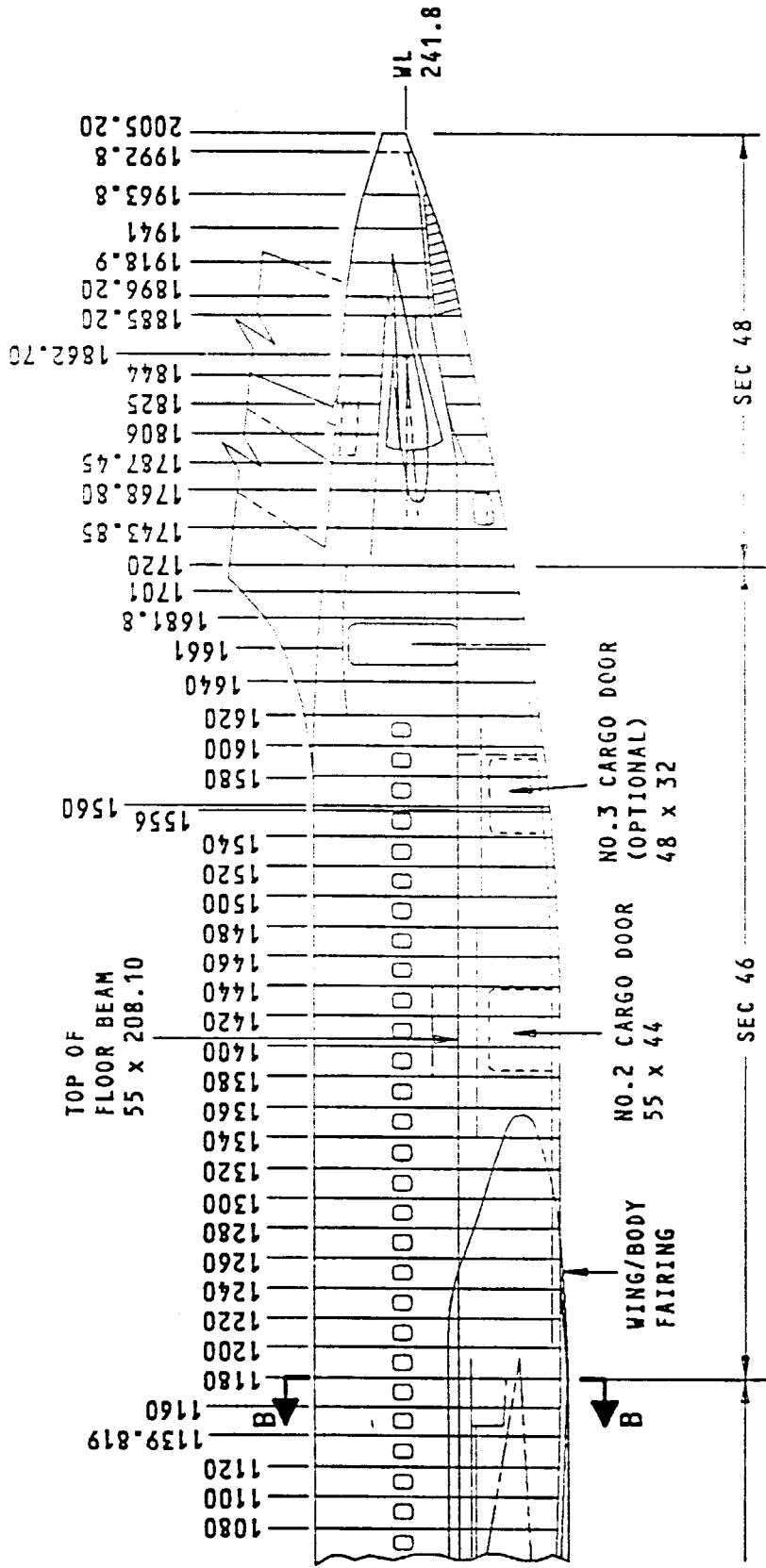


# Centerline Structure Drawing Reference



FUSELAGE

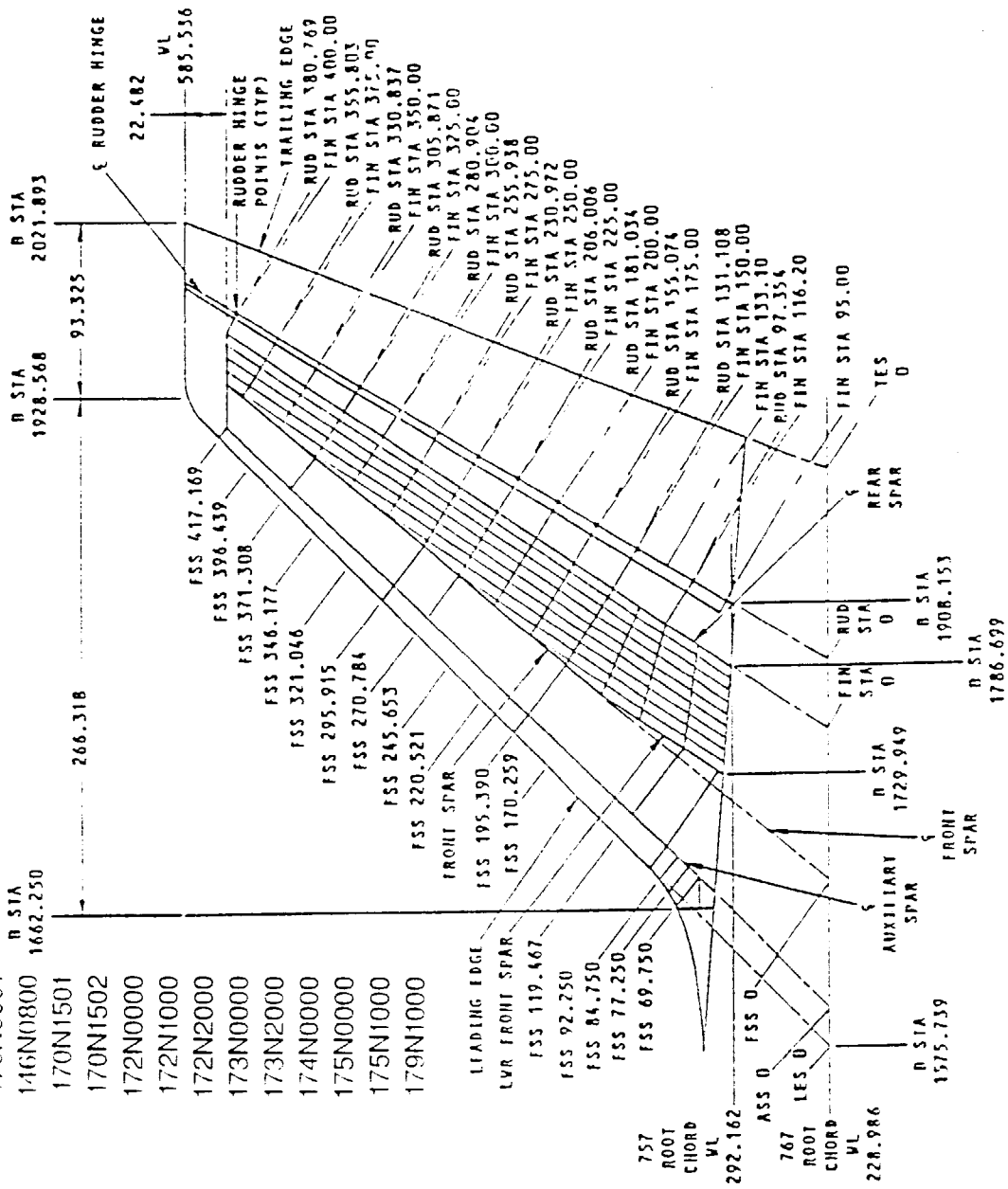
# FUSELAGE



# Vertical Tail

## DRAWING REFERENCE:

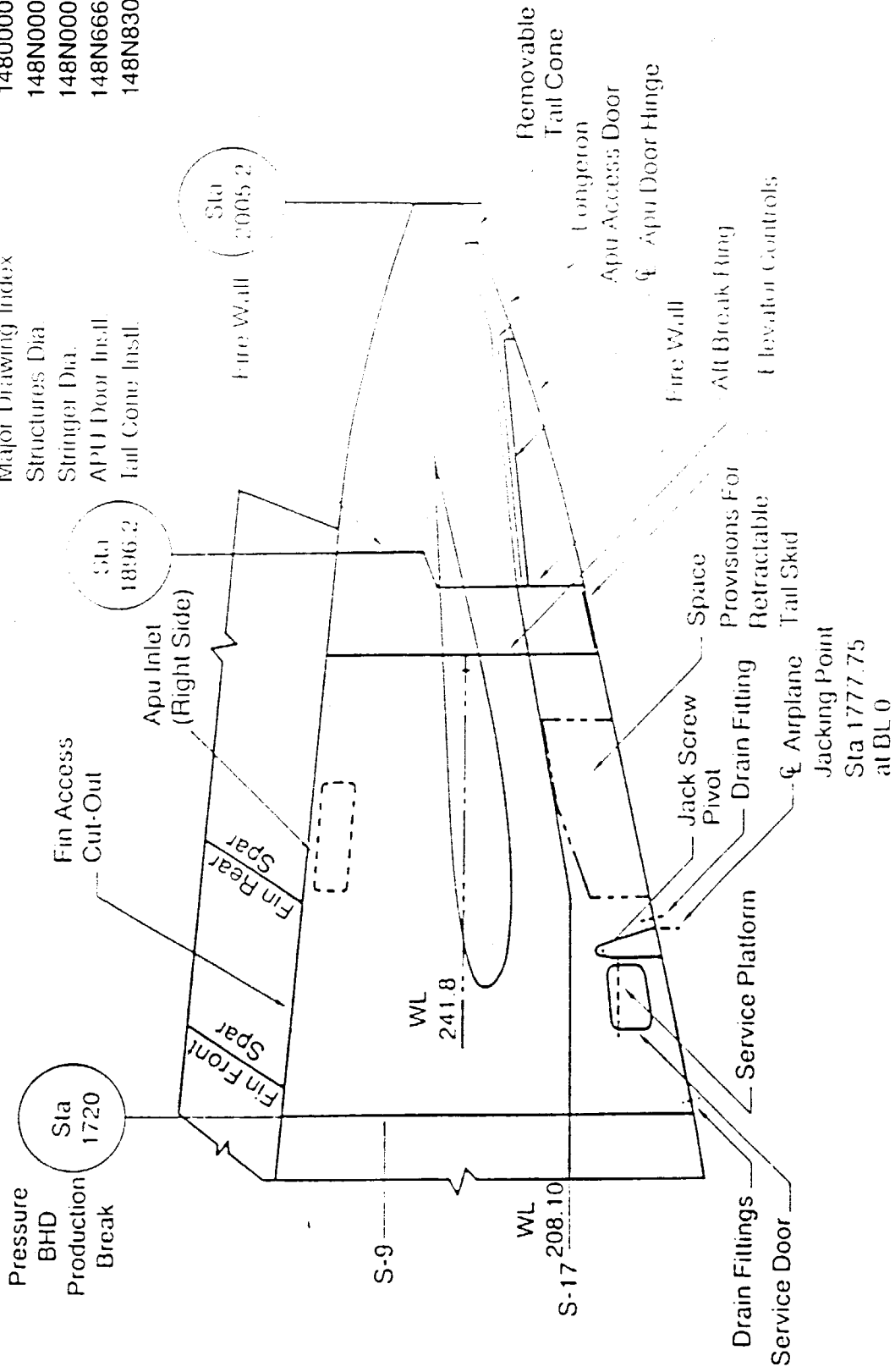
- 170N0000 Assembly & Instl.
- 170N0001 Vertical Stab. Instl.
- 146N0800 Dorsal Vin Assy.
- 170N1501 Centerline Dia.
- 170N1502 Body Joining Instl.
- 172N0000 Aft Torque Box Integ.
- 172N1000 Rear Spar Instl.
- 172N2000 Front Spar Instl.
- 173N0000 T.E. Integration
- 173N2000 Rudder Instl.
- 174N0000 L.E. Integration
- 175N0000 Fwd Torque Box Integ.
- 175N1000 Aux. Spar Instl.
- 179N1000 Tip Assy & Instl.



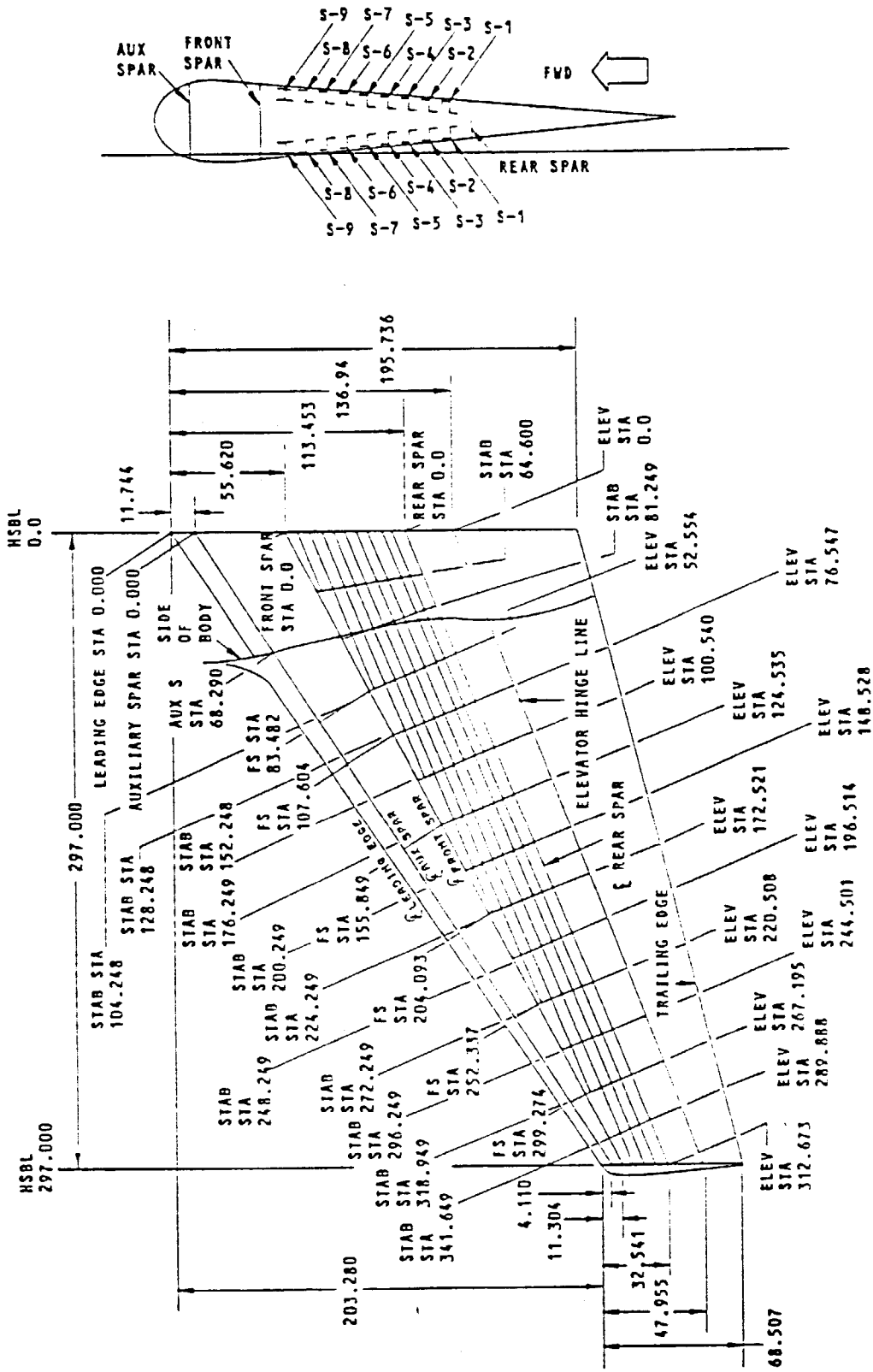
# Empennage

## DRAWING REFERENCE:

- 148N0001 Body Insl Sec - 4B
- 148N0007 Lwd Segment Assy
- 148N0010 Aft Segment Assy
- 14800002 Major Drawing Index
- 148N0003 Structures Dia.
- 148N0005 Stringer Dia.
- 148N6660 APU Door Insl
- 148N8301 Tail Cone Insl.



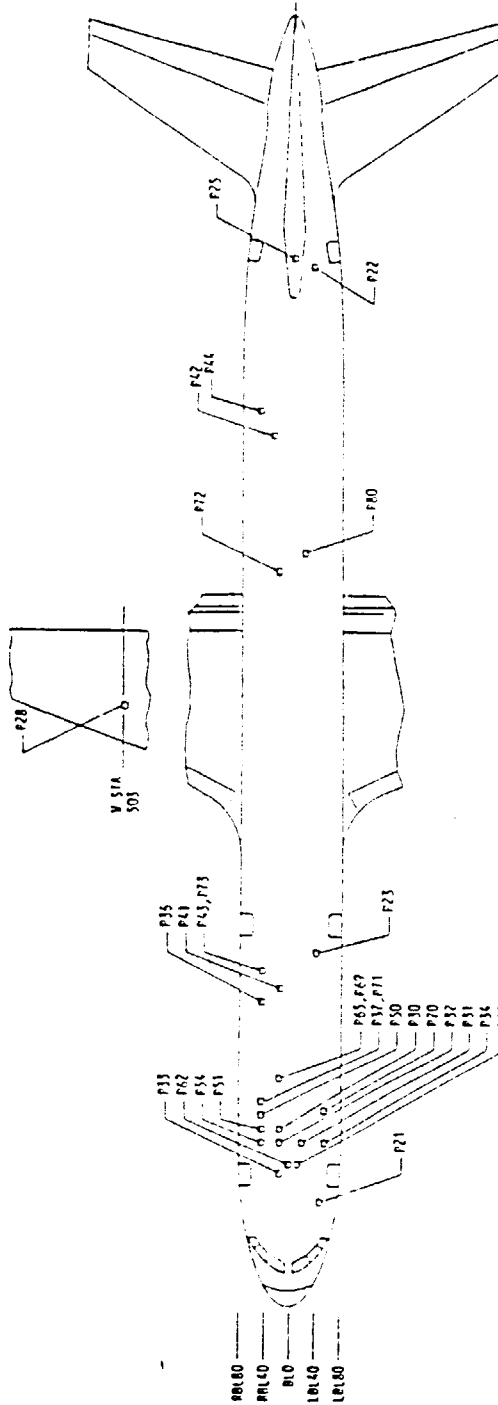
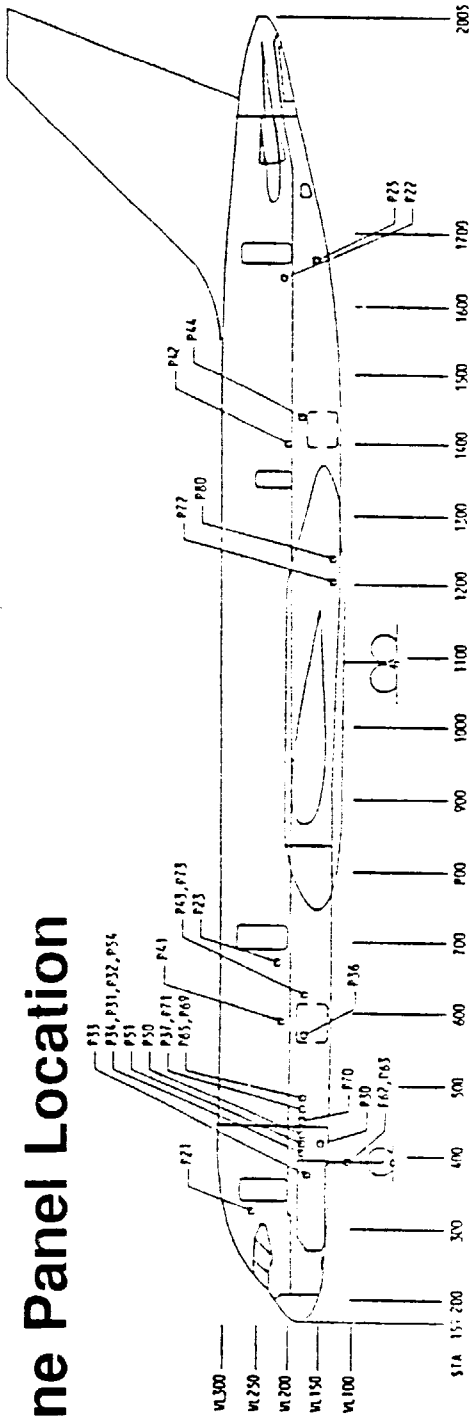
# Stabilizer







# Airplane Panel Location



## PANEL NOMENCLATURE

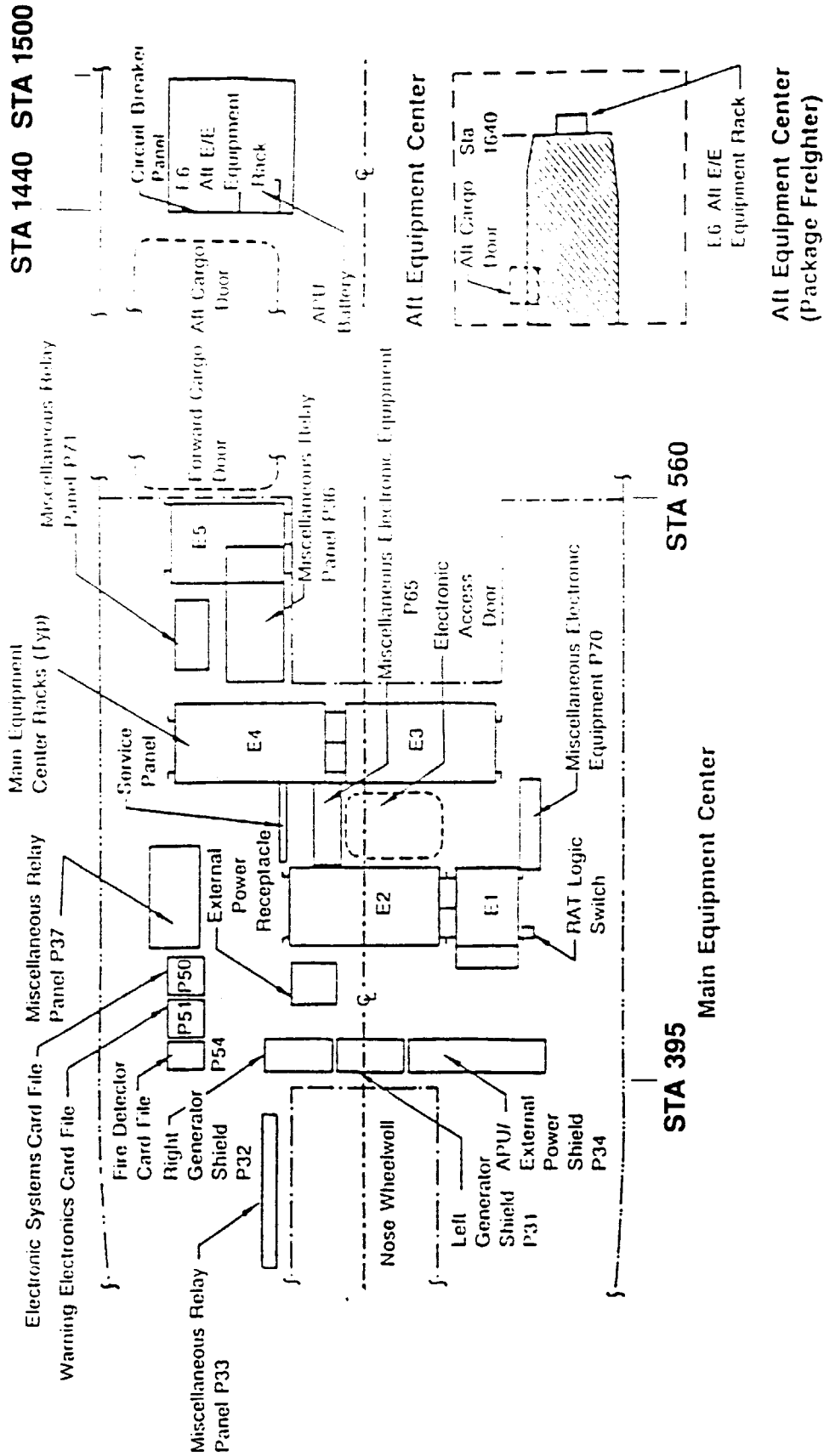
### OTHER THAN FLIGHT DECK

- P21 ATTENDANT, FWD
- P22 ATTENDANT, AFT
- P23 ATTENDANT, MID (DOOR 2 LH)
- P25 WATER SERVICE
- P28 FUELING
- P30 EXT. POWER RCPT. PANEL
- P31 LEFT GENERATOR POWER
- P32 RIGHT GENERATOR POWER
- P33 MISC ELECTRICAL EQUIP
- P34 APU EXT. POWER
- P36 MISC ELECTRICAL EQUIP
- P37 MISC ELECTRICAL EQUIP, R
- P41 INT. NO. 1 CARGO DOOR
- P42 INT. NO. 2 CARGO DOOR
- P43 EXT. NO. 1 CARGO DOOR
- P44 EXT. NO. 2 CARGO DOOR
- P50 ELECT SYSTEM CARD FILE
- P51 WARR ELEC CARD FILE
- P54 FINE DETECT CARD FILE
- P62 CONTROL PANEL, HIG-R
- P63 CONTROL PANEL, HLT-L
- P65 CARGO LOADER & DR RLY
- P69 EICAS RELAY
- P70 MISC ELECTRICAL EQUIP
- P71 HYDR GENERATOR CONTROL
- P72 MAIN W/W ELEC SERVICE

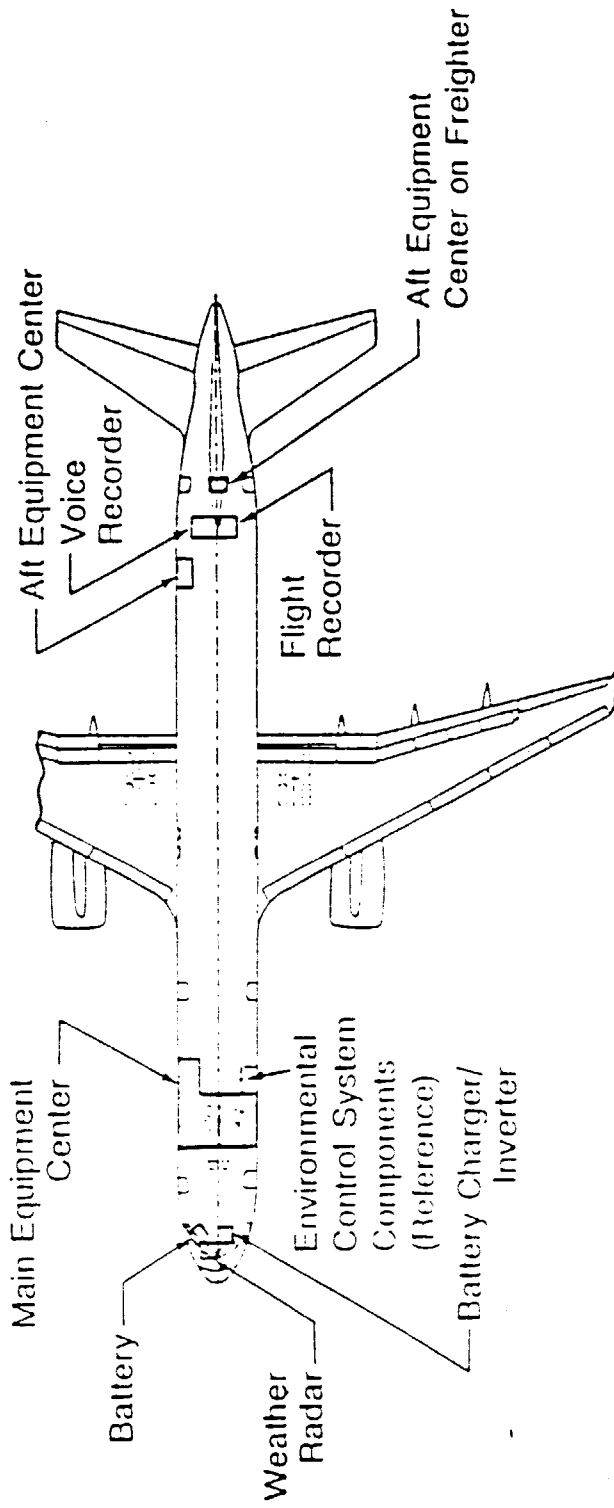
FLIGHT DECK  
AND ELECTRONICS

# Main E/E Equipment Center

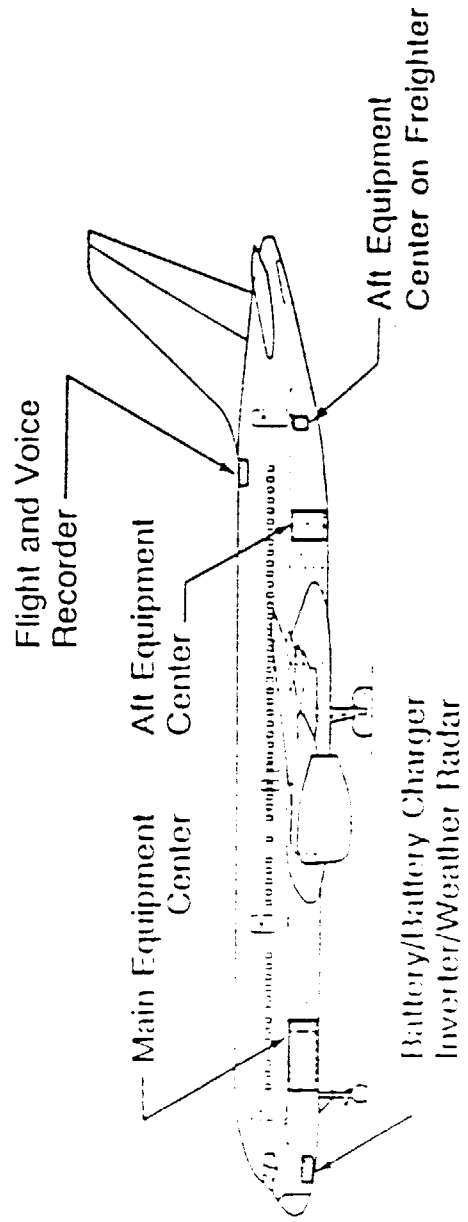
## FLIGHT DECK AND ELECTRONICS



# E/E Equipment Center



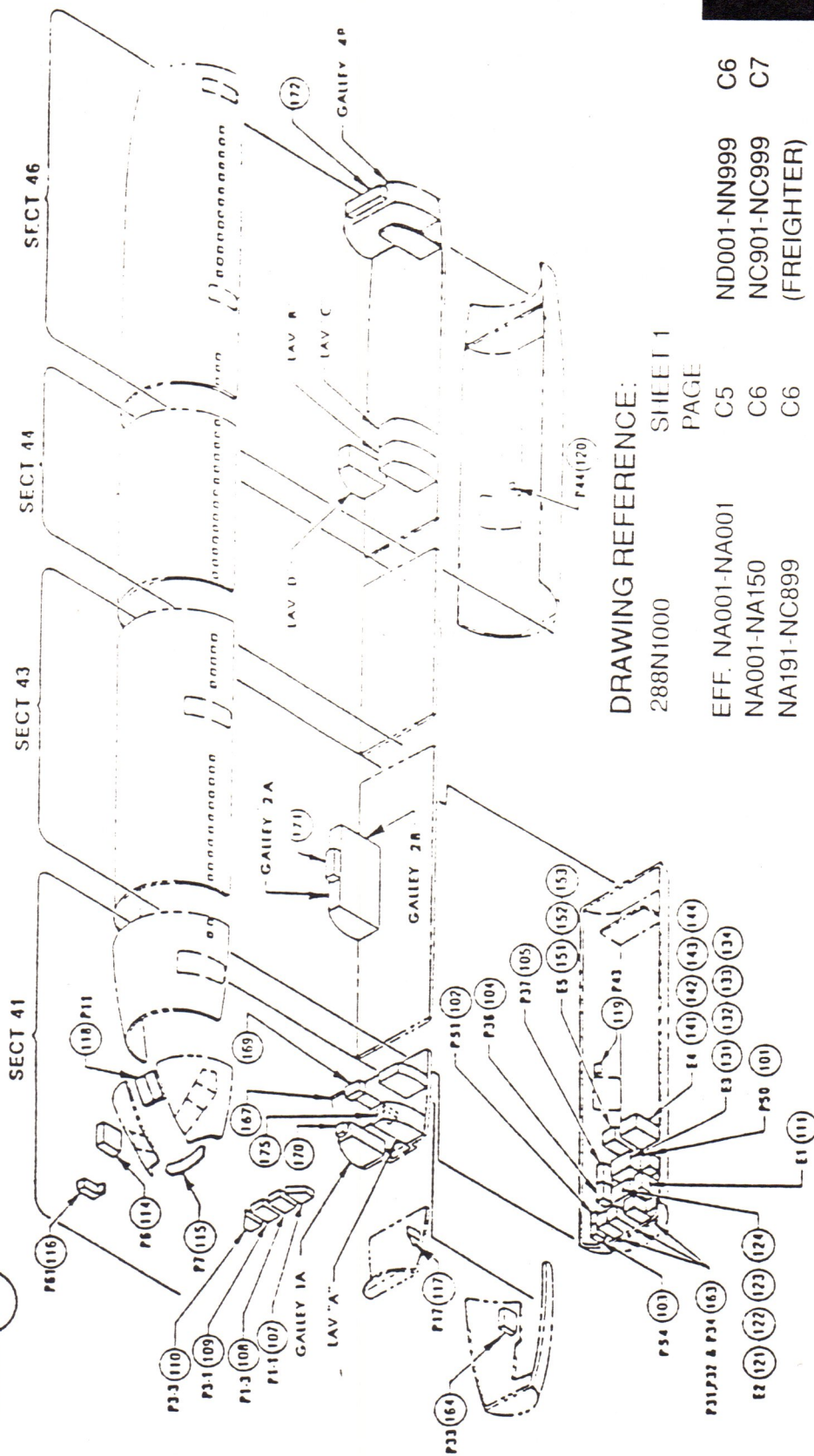
FLIGHT DECK  
AND ELECTRONICS



# Modules, Panels, and Shelves

NOTE MODULES, PANELS & SHELVES ARE INDICATED BY THE CIRCLED 3 DIGIT NUMBER AND DESIGNATE THE LAST 3 DIGITS OF THE DRAWING NUMBER

288NO---



DRAWING REFERENCE:

288N1000

SHEET 1

PAGE

EFF. NA001-NA001

ND001-NN999

C6

NA001-NA150

NC901-NC999

C7

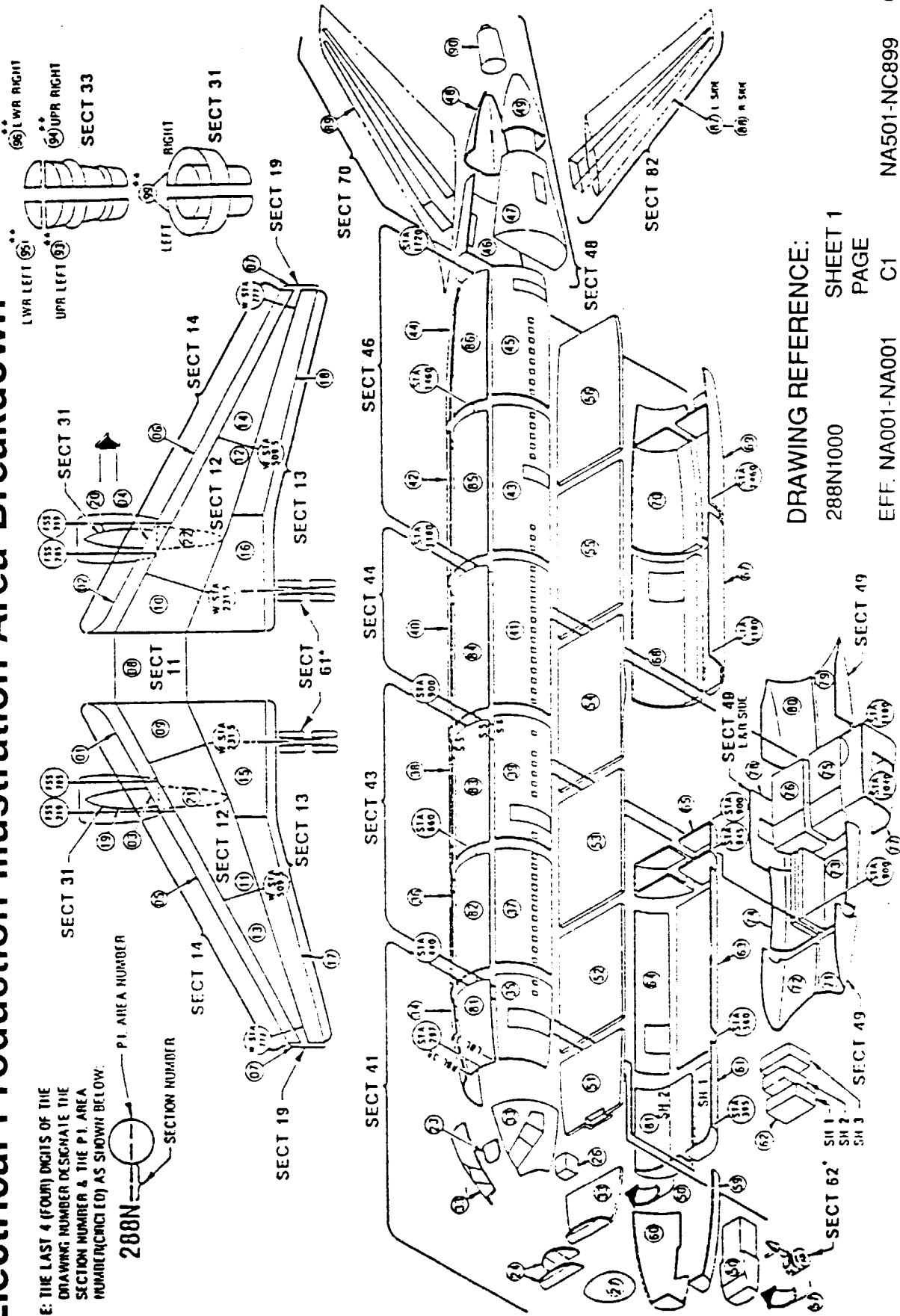
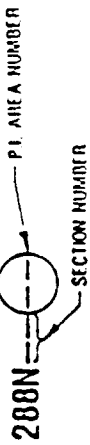
NA191-NC899

(FREIGHTER)

C6

# Electrical Production Illustration Area Breakdown

NOTE: THE LAST 4 (FOUR) DIGITS OF THE DRAWING NUMBER DESIGNATE THE SECTION NUMBER & THE P1 AREA NUMBER (ENCIRCLED) AS SHOWN BELOW.



DRAWING REFERENCE:

288N1000 SHEET 1  
PAGE

EFF. NA001-NA001	C1	NA501-NC899	C3
NA002 NA150	C2	ND001-NN999	C3
NA191-NA450	C2	NC901-NC999	C4
		(FREIGHTER)	

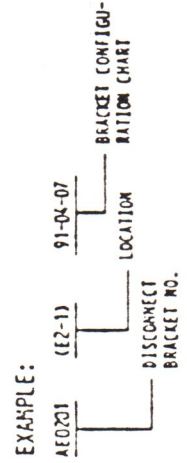
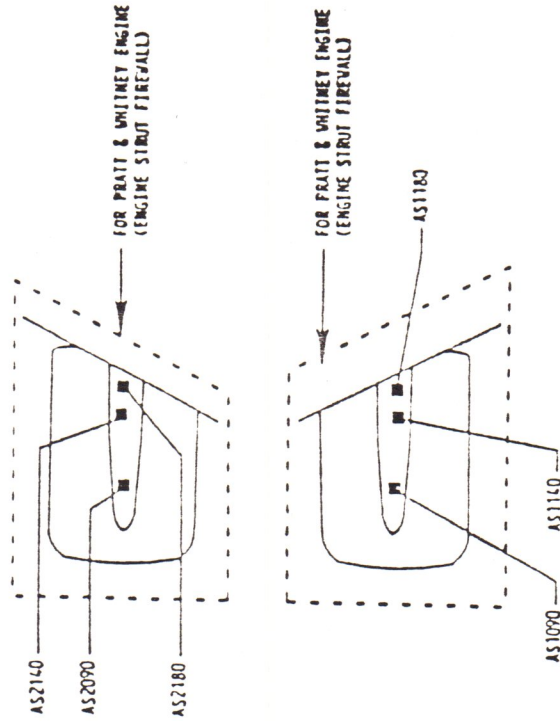
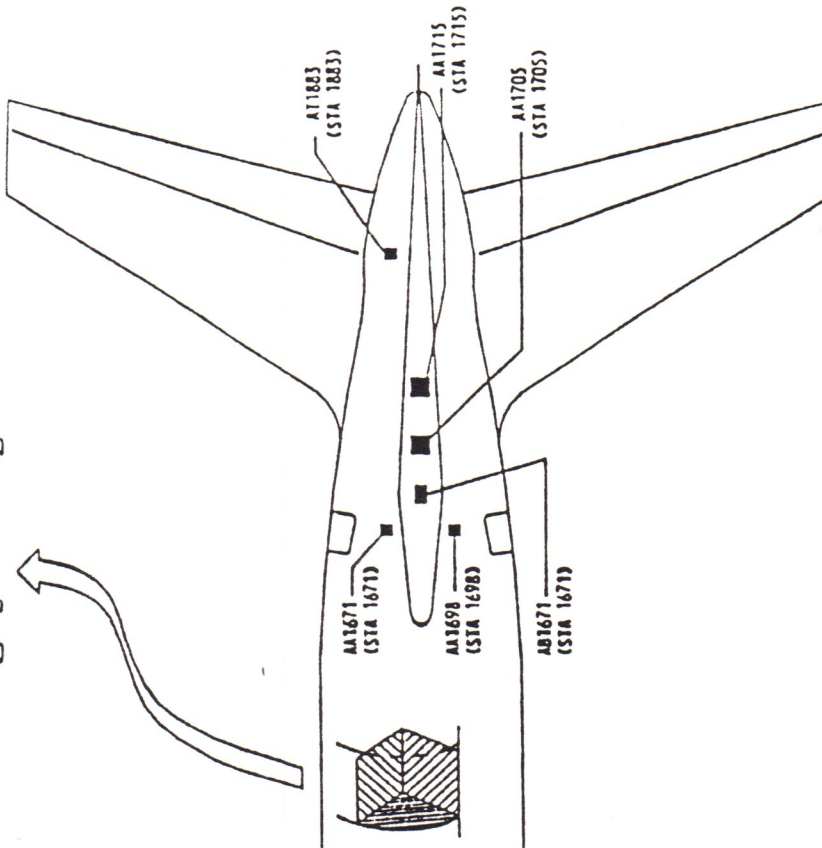
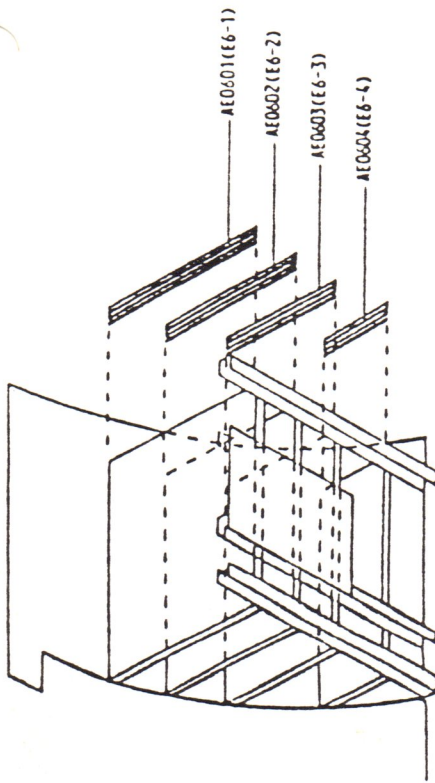
FIGURE INC.  
DRAWINGS TO BE PROVIDED BY ROLLS ROYCE









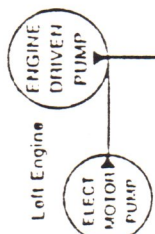






# Hydraulic Power System

## Left System



- Ailerons
- Flight Spoilers
- Elevators

- Elevator Feel Stabilizer Trim

- Rudder

- Autopilot

- Ground Spoilers
- High Lift Devices

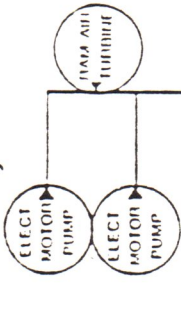
- Brakes
- Thrust Reverser

- Gear, Steering

- Hand Pump
- Main Cargo Door
- Electrical Power\* (Hydraulic Motor Generator)

- Ram Air Turbine

## Center System



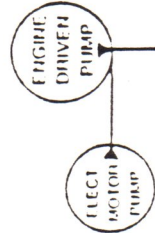
- LEFT & RIGHT
- PANELS 1, 12
- LEFT & RIGHT

- COMPUTER & ACTUATOR
- NORMAL

- POWER CONTROL UNIT & YAW DAMPER

- LATERAL, PITCH ROLL OUT GUIDANCE

## Right System



- LEFT
- PANELS 2, 6, 7, 11
- LEFT & RIGHT

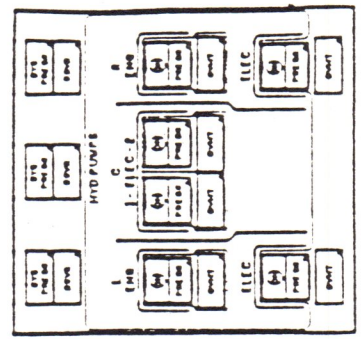
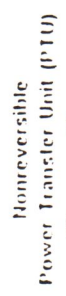
- COMPUTER & ACTUATOR
- NORMAL

- POWER CONTROL UNIT

- LATERAL, PITCH ROLL OUT GUIDANCE

- PANELS 4, 9

- NORMAL
- RIGHT ENGINE



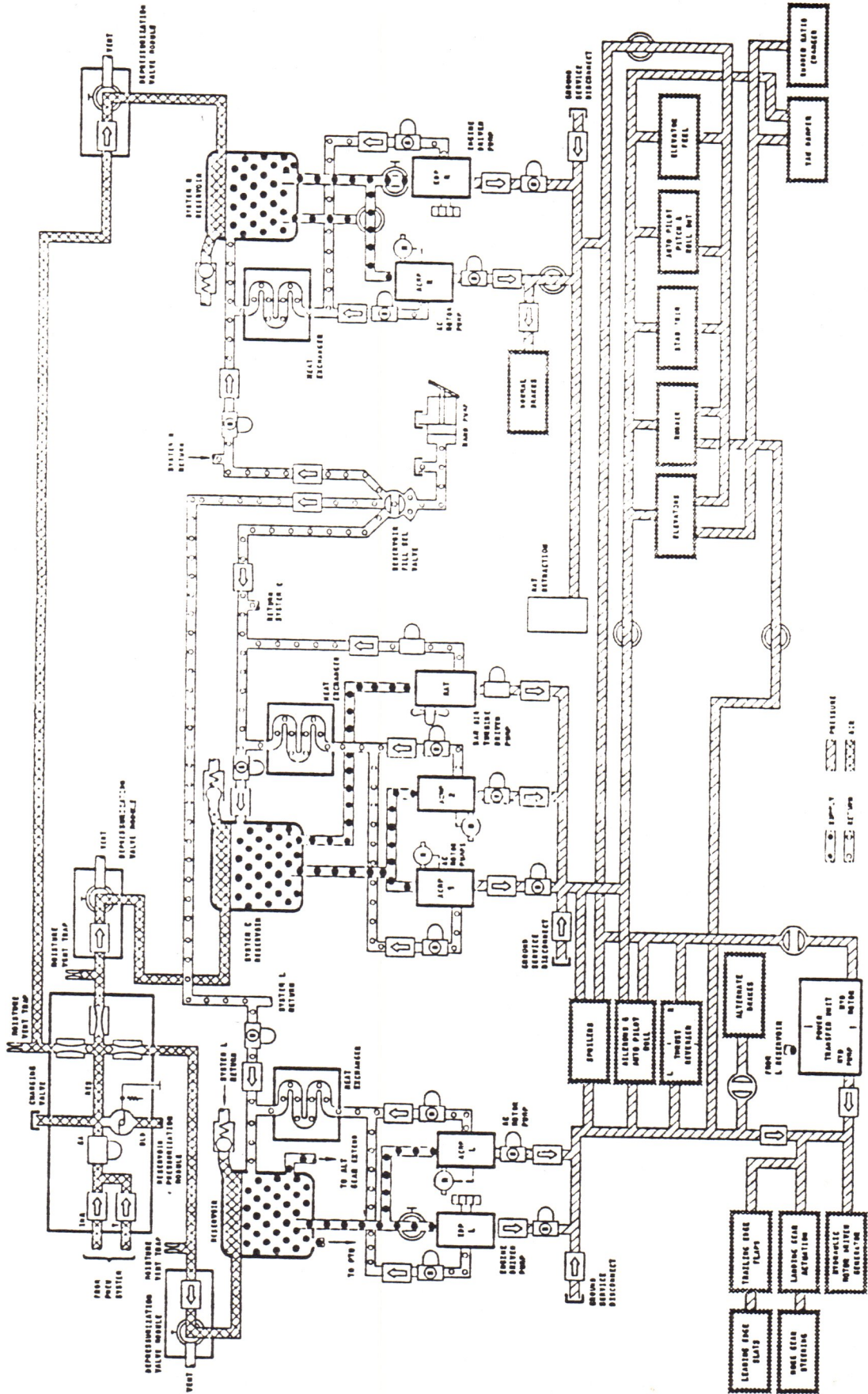
Pilot's Overhead Panel

\* Required for Extended Range Operations (EROPS)



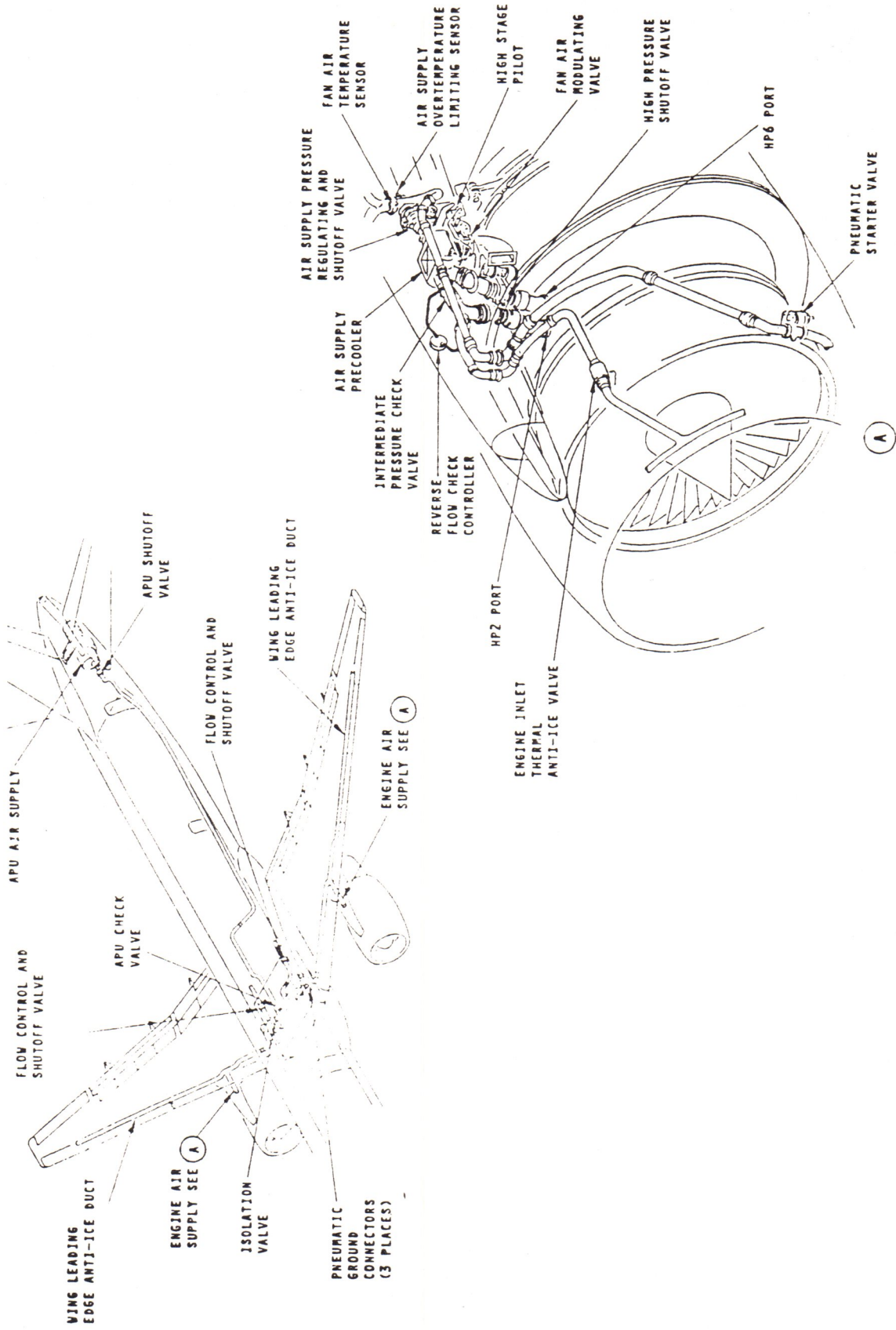


# Hydraulic System Schematic



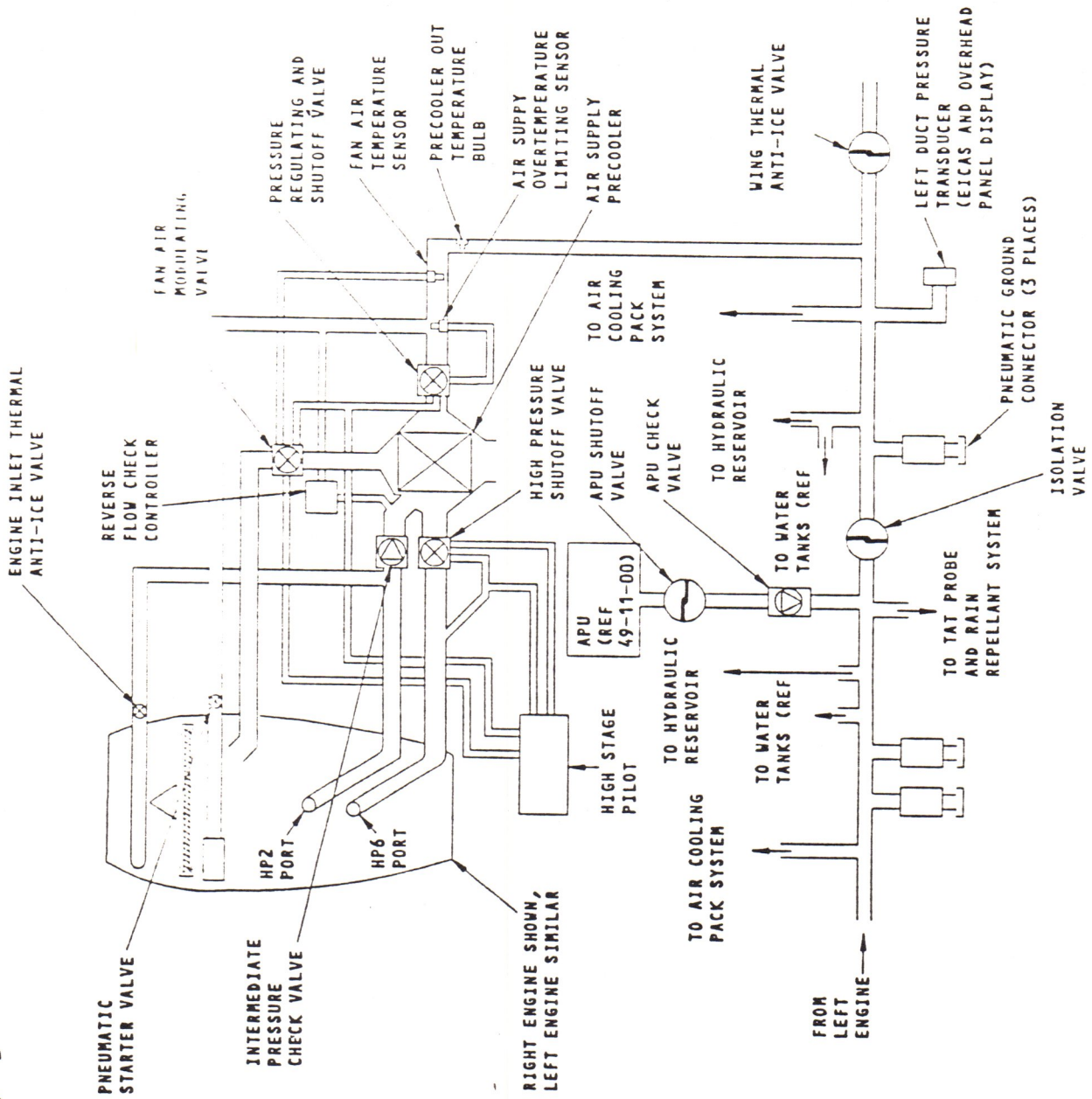
Legend:  
--- Air  
--- Pressure  
--- Oil

# Air Supply System

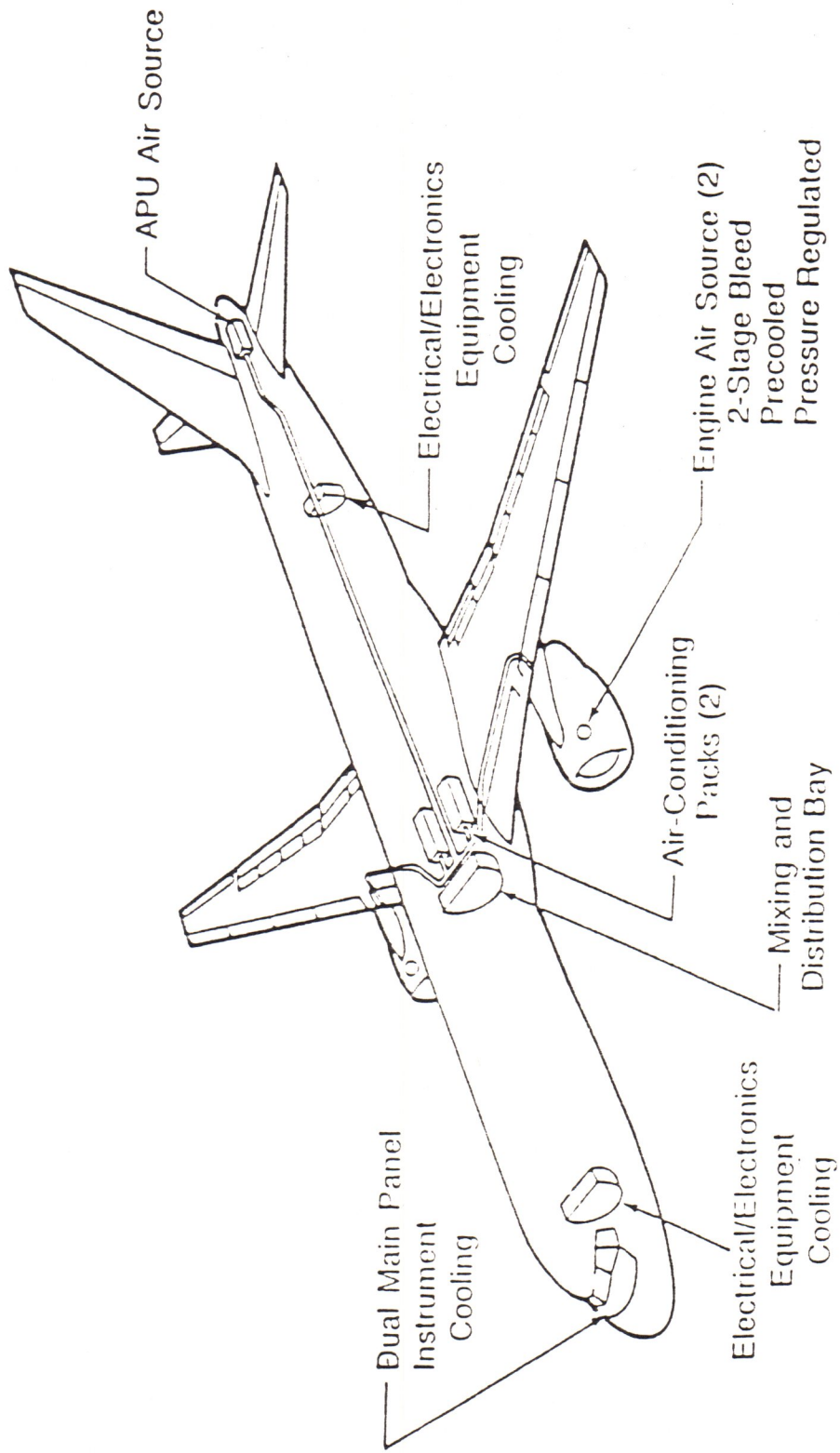




# Air Supply Schematic

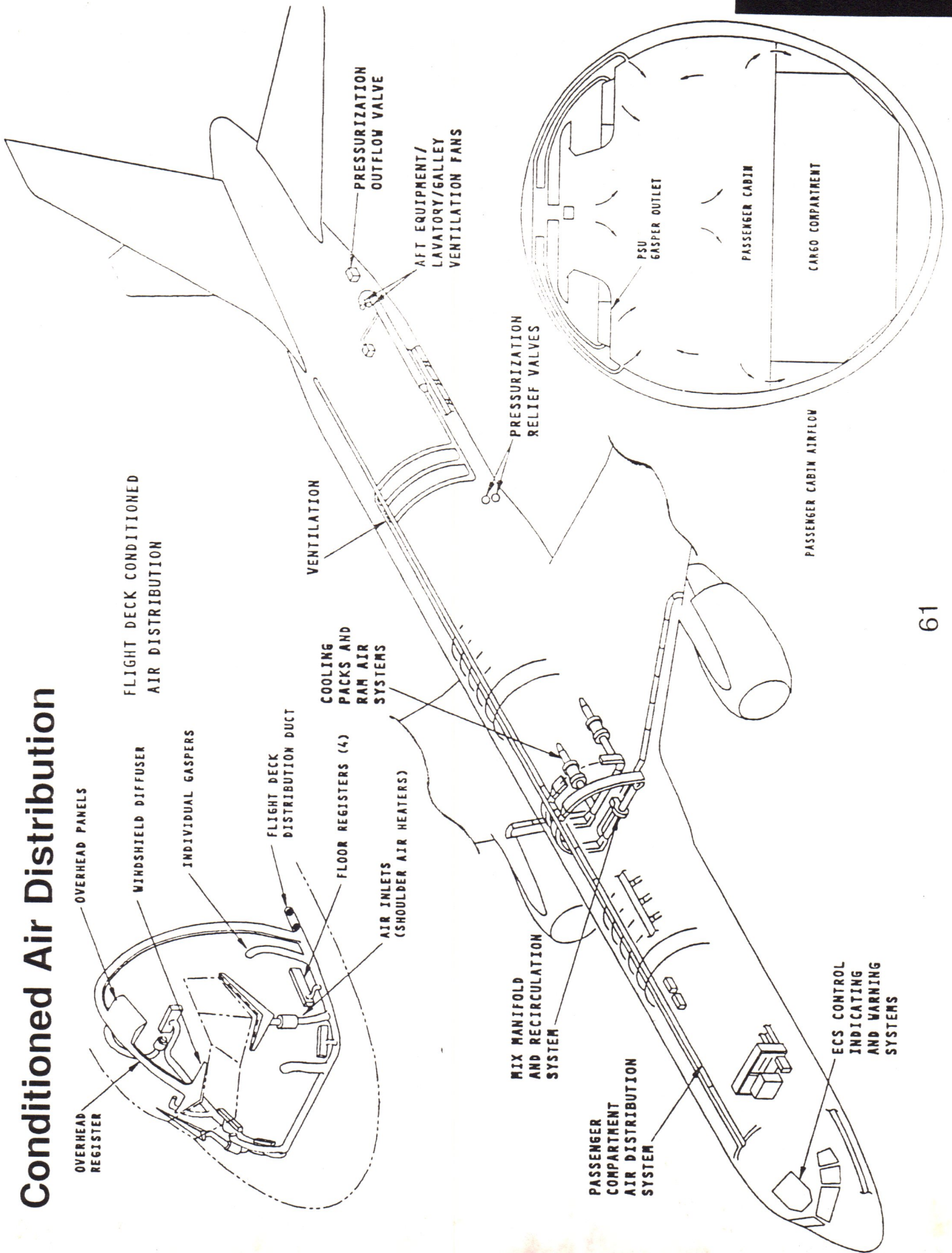


# Air-Conditioning

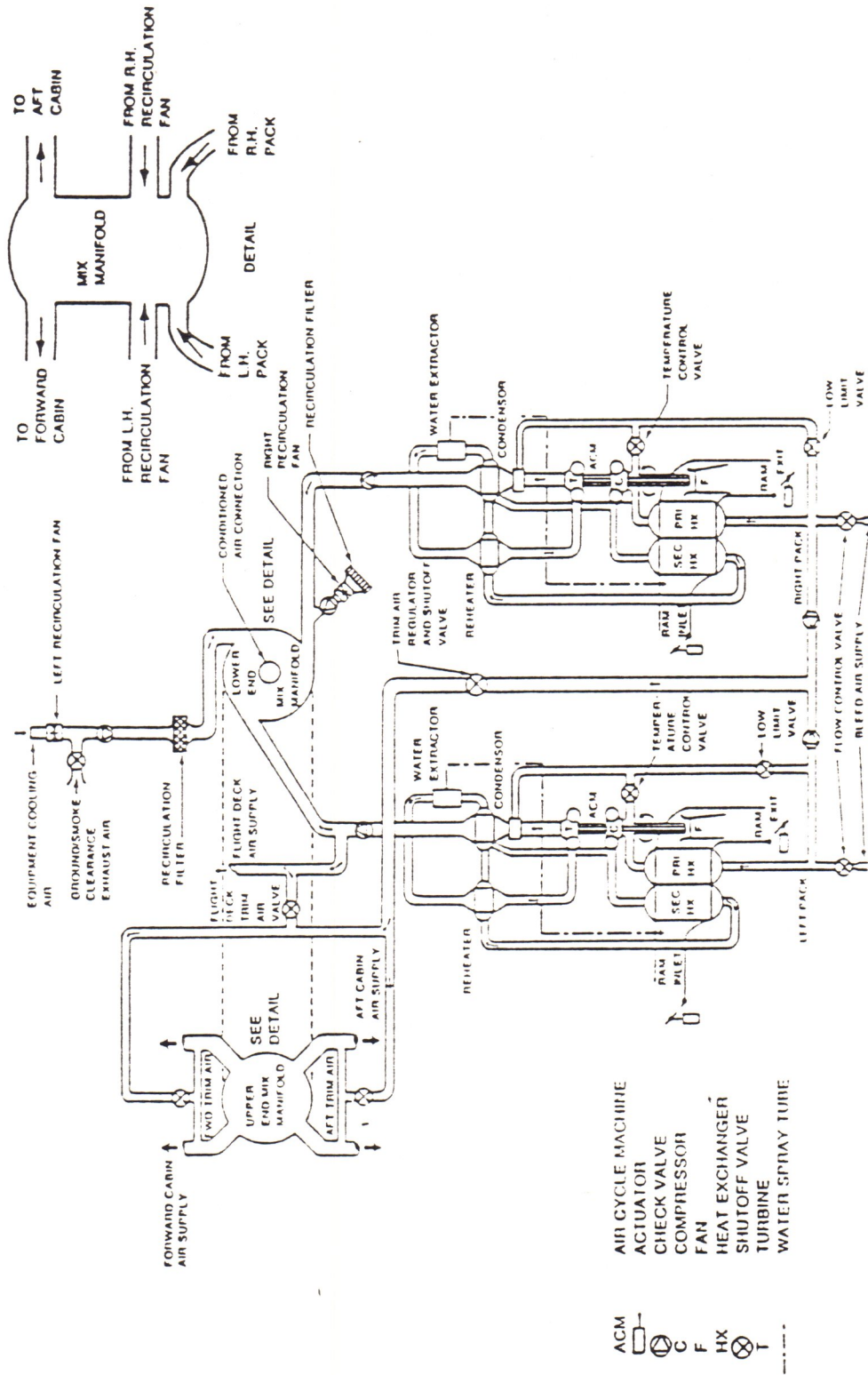




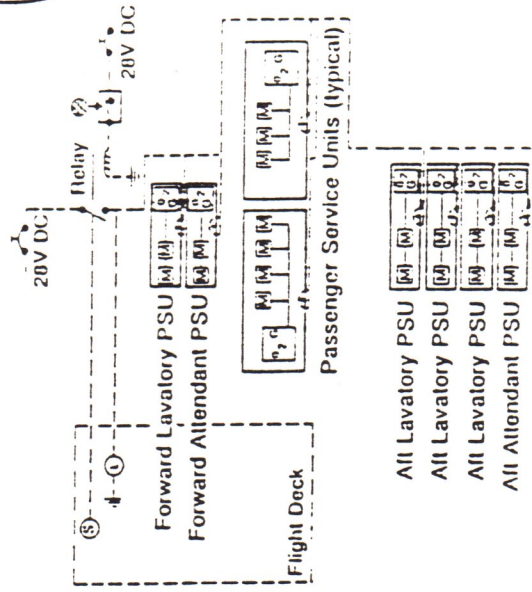
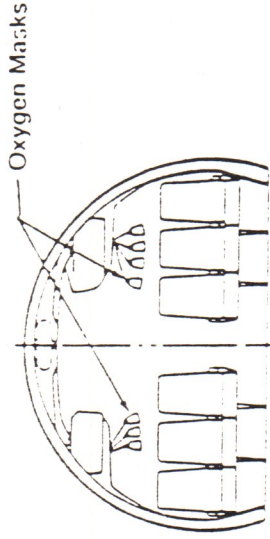
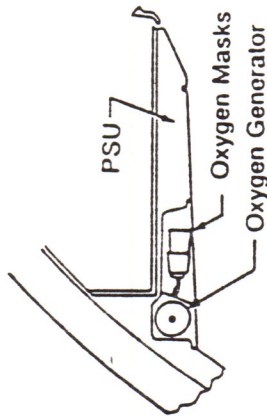
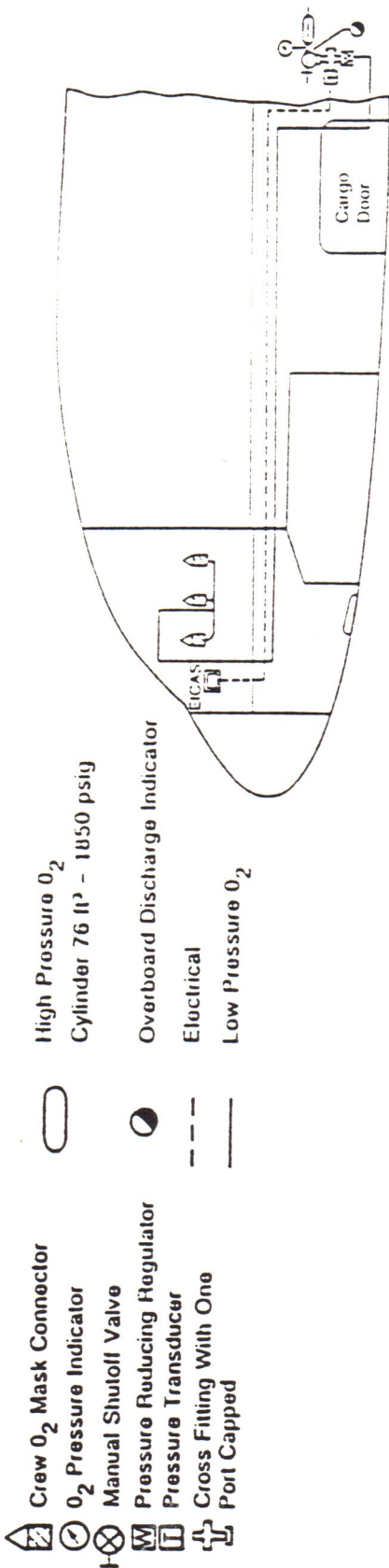
# Conditioned Air Distribution



# Air-Condition Schematic



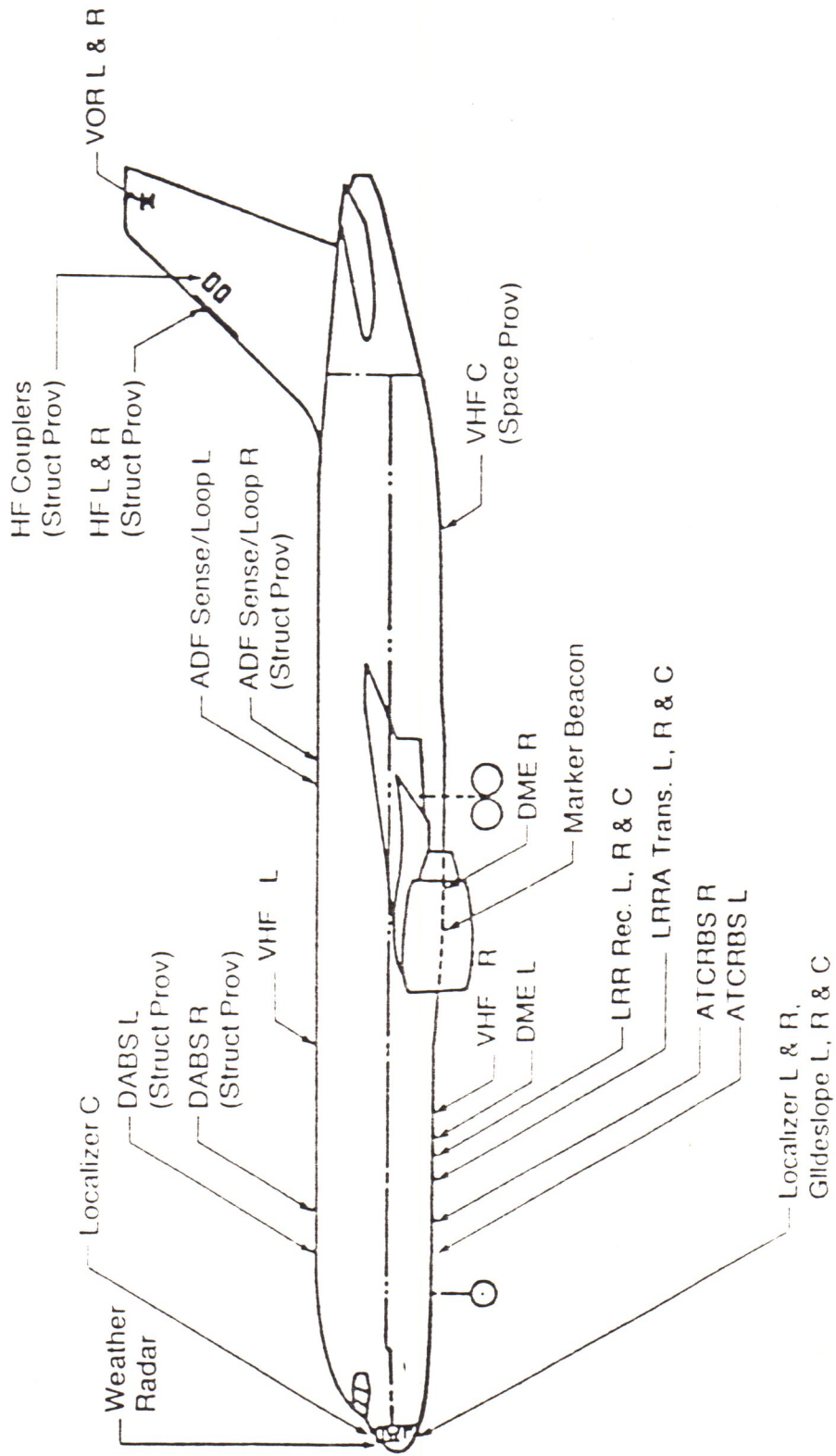
# Passenger and Flight Deck Oxygen



- Crew O<sub>2</sub> Mask Connector
- O<sub>2</sub> Pressure Indicator
- Manual Shutoff Valve
- Pressure Reducing Regulator
- Pressure Transducer
- Cross Fitting With One Port Capped
- High Pressure O<sub>2</sub> Cylinder 76 ft<sup>3</sup> - 1850 psig
- Overboard Discharge Indicator
- Electrical
- Low Pressure O<sub>2</sub>
- Latch
- System Activated Light
- Manual Operation Switch
- Oxygen Mask
- Electrical Switch
- Barometric Pressure Switch
- Electrical Connections
- Chemical Oxygen Generator



# Antenna Locations



# CAUTION!

## LIVE AIRPLANE! CONTROL SURFACES SHOP SAFETY PROCEDURES

1. ALWAYS check in with the supervisor in charge or his lead man before entering, operating or working on an airplane.
2. NEVER run any system on an airplane that you are not familiar with — QUALIFIED PERSONNEL ONLY!
3. Have a clear and open communication between the operator and the “clear person” on the ground. Do not operate any control surface without ground clearance.
4. Ensure area is clear (i.e., manlifts or “Tigers,” ladders, personnel, etc.) before operating any control surface.
5. AT NO TIME will repair or adjustments be made to any controls that could jeopardize the safety of personnel, the airplane or equipment.
6. If at any time there is doubt about any system or control surface, ASK FOR HELP.



# Abbreviations

ADCN ADVANCE DRAWING CHANGE NOTICE  
 ADF AUTOMATIC DIRECTION FINDER  
 AL ALUMINUM  
 ALT ALTITUDE  
 ALTM ALTIMETER  
 AN AIR FORCE - NAVY STANDARDS  
 AND AIR FORCE AND NAVY DESIGN STANDARDS  
 ANT ANTENNA  
 AP AIRPLANE  
 APU AUXILIARY POWER UNIT  
 ASSY ASSEMBLY  
 AUX AUXILIARY  
 B A BUNDLE ASSEMBLY  
 BAC THE BOEING COMPANY STANDARD  
 BBL BODY BUTTOCK LINE  
 BFE BUYER FURNISHED EQUIPMENT  
 BL BUTTOCK LINE  
 B L BLUE LINE  
 BLKD BULKHEAD  
 BMS BOEING MATERIAL SPECIFICATIONS  
 B OUT BREAKOUT  
 CFA COMBINATION FABRICATION AND ASSEMBLY  
 CL CENTER LINE  
 CONN CONNECTOR  
 COORD COORDINATE OR COORDINATION  
 CORR CORROSION  
 CRES CORROSION RESISTANT STEEL  
 CRS COLD ROLLED STEEL  
 CSK COUNTERSINK  
 CSTG CASTING  
 C T COMMON TO  
 CTR CENTER  
 3CM THIRD CREWMAN  
 DCN DRAWING CHANGE NOTICE  
 DDA DRAWING DEPARTURE AUTHORIZATION  
 DEV DEVIATION  
 DIA DIAMETER  
 DISC DISCONNECT  
 DME DISTANCE MEASURING EQUIPMENT  
 DWG DRAWING  
 ECP ENGINEERING CHANGE PROPOSAL  
 EFF EFFECTIVITY  
 ELEC ELECTRICAL  
 ELEX ELECTRONIC  
 ELR/ ENGINEERING LIAISON REQUEST/

ADCN  
 F/A FINAL ASSEMBLY  
 FAA ADVANCE DRAWING CHANGE NOTICE  
 FAB FEDERAL AVIATION AGENCY  
 FAB FABRICATION  
 F/B FORM BOARD  
 FLG FLANGE  
 F/O FIRST OFFICER  
 F/S FULL SIZE  
 F/T FUNCTION TEST  
 FTG FITTING  
 FWD FORWARD  
 GEN GENERATOR  
 GRD GROUND (ELECTRICAL)  
 H T HEAT TREAT  
 H/U HOOK UP  
 HYD HYDRAULIC  
 ID INSIDE DIAMETER  
 IDENT IDENTIFICATION, IDENTIFY  
 IML INSIDE MOLD LINE  
 INBD INBOARD  
 INPH INTERPHONE  
 INSP INSPECTION  
 INSTL INSTALLATION  
 INSTR INSTRUMENT  
 INTCHG INTERCHANGEABLE  
 J BOX JUNCTION BOX  
 JPR JUMPER (WIRING)  
 KSI THOUSAND POUNDS PER SQUARE INCH  
 LE LEADING EDGE  
 LH LEFT HAND  
 LOC LOCATING, LOCATE, LOCATION  
 LWR LOWER  
 LO LAYOUT  
 M P MACHINE PLANNING  
 M B METAL BOND  
 MAX MAXIMUM  
 MC MASTER CHANGE  
 MCD MASTER CONTROL DRAWING  
 MCR MASTER CHANGE RECORD, MASTER CHG. REQUEST  
 MDI MASTER DIMENSIONING INDEX  
 MFG MANUFACTURING  
 MIL MILITARY SPECIFICATIONS  
 MIN MINIMUM  
 MOA MAKE ON ASSEMBLY  
 MOD MODIFICATION, MODEL

# ABBREVIATIONS

MTD	MANUFACTURING TECHNICAL DIRECTIVE	STAN	STANCHION
MTG	MOUNTING	S/F	SPOT FACE
N/C	NUMERICAL CONTROL	S/N	SERIAL NUMBER
N/P	NUT PLATE	SDS	SHOP DISTRIBUTION STANDARDS
NAS	NATIONAL AIRCRAFT STANDARDS	SEQ	SEQUENCE
NT	NO TOOL (TOOL CODE)	SHT	SHEET
O/S	OVERSIZE	SPEC	SPECIFICATION
O&IR	OPERATION AND INSPECTION RECORD	SRF	SPECIAL CHEMICAL AND SOLVENT RESISTANT FINISH
OD	OUTSIDE DIAMETER	STA	STATION
OML	OUTSIDE MOLD LINE	STD	STANDARD
OPP	OPPOSITE	STIFF	STIFFENER
OUTBD	OUTBOARD	STL	STEEL
OVHT	OVERHEAT	STP	STAMP
OXY	OXYGEN	STR	STRINGER
PCA	PARTS CONTROL AREA	SUPT	SUPPORT
PCM	PHOTO CONTACT MASTER	SPKR	SPEAKER
PED	PRODUCTION ENGINEERING DOCUMENT	SHLD	SHIELD
PI	PRODUCTION ILLUSTRATION	SPL	SPLICE
PLAC	PLACARD	SYM	SYMMETRICAL
P N	PART NUMBER	TE	TRAILING EDGE
PNEU	PNEUMATIC	T/H	TOOL HOLE
POA	PURCHASED ON ASSEMBLY	THRU	THROUGH
POP	PURCHASED OUTSIDE PRODUCTION	TAI	THERMAL ANTI-ICE
POS	POSITION	T/S	TERMINAL STRIP
PRR	PRODUCTION REVISION RECORD	U/O	USED ON
PS	PART STORE	UA	UNIT ASSEMBLY
PSI	POUNDS PER SQUARE INCH	UB	UNIT BOND
PSIG	POUNDS PER SQUARE INCH GAGE	UI	UNIT ISSUE
PSU	PASSENGER SERVICE UNIT	UM	UNIT MANUFACTURE
PURCH	PURCHASE	UPR	UPPER
PWR	POWER	UT	UNIT TIME
QTY	QUANTITY	UHF	ULTRA HIGH FREQUENCY
RCVR	RECEIVER	VERT	VERTICAL
RCVR-XMTR	RECEIVER-TRANSMITTER	VOL	VOLUME
REF	REFERENCE	VHF	VERY HIGH FREQUENCY
REG	REGULATOR	VOR	VHF OMNI RANGE
REPL	REPLACEABLE	W/B	WIRE BUNDLE
REPT	REFERENCE PHOTO TEMPLATE	WS	WING STATION
RH	RIGHT HAND	WBL	WING BUTT LOCK LINE
RIV	RIVET	WCP	WING CHORD PLANE
RES	RESISTANCE	WL	WATER LINE
RSC	RESIDENT SHOP CONTROL	WTR	WATER
RUB	RUBBER (STAMP)	XMTR	TRANSMITTER
STRN	STRAIGHTEN	XFMR	TRANSFORMER
SEC	SECTION	ZN	ZONE
SW	SWITCH		



# AIR TRANSPORT CODE (ATA) Maintenance Manual Chapters

Note: This Is Wallet Size.  
Copy and Cut Out.

ATA CODE

<b>Aircraft</b>			
Time Limits	5		
Dimensions & Area	6		
Lifting & Shoring	7		
Leveling & Weighing	8		
Towing & Taxing	9		
Parking & Mooring	10		
Required Placards	11		
Securing	12		
<b>Airframe Systems</b>			
Standard Practices	20		
Air-Conditioning	21		
Auto Flight	22		
Communications	23		
Electrical Power	24		
Equipment/Furnishings	25		
Fire Protection	26		
Flight Controls	27		
Fuel	28		
Hydraulic Power	29		
Ice & Rain Protection	30		
Indicating/Recording System	31		
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**DEING**