

BODY STATION DIAGRAM - COMPONENT LOCATION

EFFECTIVITY: ACFT MODEL(S) EMB-145

1. General

- A. This section gives the body station diagram ([Figure 101](#)).
- B. The body station diagram gives a reference system that shows the location of the components, features, and major fuselage structural openings in relation to a datum plane that is perpendicular to the fuselage centerline

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2. Body Station Diagram.



Technical drawing of the EM145 aircraft, showing a side profile and a cross-section. The drawing includes a table of X-coordinates for various points and a list of frame numbers (FRM) for different sections.

Side Profile X-coordinates:

Point	X-coordinate
FRM 01	X=713.0
FRM 02	X=1030.0
FRM 03	X=1350.0
FRM 04	X=1657.0
FRM 05	X=1912.0
FRM 06	X=2159.0
FRM 07	X=2264.0
FRM 08	X=2677.0
FRM 09	X=3010.0
FRM 10	X=3253.0
FRM 11	X=3596.5
FRM 12	X=3900.0
FRM 13	X=4088.0
FRM 14	X=4388.0
FRM 15	X=4710.5
FRM 16	X=5125.5
FRM 17	X=5292.0
FRM 18	X=5633.0
FRM 19	X=5833.0
FRM 20	X=6248.0
FRM 21	X=6523.0
FRM 22	X=6523.0
FRM 23	X=6938.0
FRM 24	X=7324.0
FRM 25	X=7739.0
FRM 26	X=8154.0
FRM 27	X=8569.0
FRM 28	X=8984.0
FRM 29	X=9399.0
FRM 30	X=9814.0
FRM 31	X=10229.0
FRM 32	X=10601.4
FRM 33	X=11016.4
FRM 34	X=11388.8
FRM 35	X=11803.8
FRM 36	X=12176.2
FRM 37	X=12591.2
FRM 38	X=12992.2
FRM 39	X=13407.2
FRM 40	X=13801.5
FRM 41	X=14216.5
FRM 42	X=14513.6
FRM 43	X=14823.0
FRM 44	X=15073.6
FRM 45	X=15506.5
FRM 46	X=15921.5
FRM 47	X=16363.5
FRM 48	X=16783.5
FRM 49	X=17125.8
FRM 50	X=17540.8
FRM 51	X=17913.2
FRM 52	X=18328.2
FRM 53	X=18700.6
FRM 54	X=19156.6
FRM 55	X=19484.0
FRM 56	X=19903.0
FRM 57	X=20230.0
FRM 58	X=20615.0
FRM 59	X=20971.0
FRM 60	X=21491.8
FRM 61	X=21984.3
FRM 62	X=22364.2
FRM 63	X=22716.2
FRM 64	X=23070.2
FRM 65	X=23282.5
FRM 66	X=23638.0
FRM 67	X=23973.0
FRM 68	X=24308.0
FRM 69	X=24728.0
FRM 70	X=25438.0
FRM 71	X=25742.1
FRM 72	X=25502.87
FRM 73	X=25897.93
FRM 74	X=26303.77
FRM 75	X=26461.57
FRM 76	X=25438.0
FRM 77	X=25742.1
FRM 78	X=25502.87
FRM 79	X=25897.93
FRM 80	X=26303.77
FRM 81	X=26461.57

Cross-section X-coordinates:

Point	X-coordinate
FRM 01A	X=713.0
FRM 02	X=1030.0
FRM 03	X=1350.0
FRM 04	X=1657.0
FRM 05	X=1912.0
FRM 06	X=2159.0
FRM 07	X=2264.0
FRM 08	X=2677.0
FRM 09	X=3010.0
FRM 10	X=3253.0
FRM 11	X=3596.5
FRM 12	X=3900.0
FRM 13	X=4088.0
FRM 14	X=4388.0
FRM 15	X=4710.5
FRM 16	X=5125.5
FRM 17	X=5292.0
FRM 18	X=5633.0
FRM 19	X=5833.0
FRM 20	X=6248.0
FRM 21	X=6523.0
FRM 22	X=6523.0
FRM 23	X=6938.0
FRM 24	X=7324.0
FRM 25	X=7739.0
FRM 26	X=8154.0
FRM 27	X=8569.0
FRM 28	X=8984.0
FRM 29	X=9399.0
FRM 30	X=9814.0
FRM 31	X=10229.0
FRM 32	X=10601.4
FRM 33	X=11016.4
FRM 34	X=11388.8
FRM 35	X=11803.8
FRM 36	X=12176.2
FRM 37	X=12591.2
FRM 38	X=12992.2
FRM 39	X=13407.2
FRM 40	X=13801.5
FRM 41	X=14216.5
FRM 42	X=14513.6
FRM 43	X=14823.0
FRM 44	X=15073.6
FRM 45	X=15506.5
FRM 46	X=15921.5
FRM 47	X=16363.5
FRM 48	X=16783.5
FRM 49	X=17125.8
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FRM 51	X=17913.2
FRM 52	X=18328.2
FRM 53	X=18700.6
FRM 54	X=19156.6
FRM 55	X=19484.0
FRM 56	X=19903.0
FRM 57	X=20230.0
FRM 58	X=20615.0
FRM 59	

