

# mAEWing1 FEM v5.2 Nodes

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30 September 2016

See the following table for information about the nodes of the mAEWing1 FEM v5.2 model. The important nodes have descriptions. The X-axis points longitudinally along the vehicle, from the front to the back. The Y-axis points laterally out the right wing. The Z-axis points vertically upwards.

**Table 1: Node Information**

<b>NASTRAN Node #</b>	<b>AERO-S Node #</b>	<b>Position X</b>	<b>Position Y</b>	<b>Position Z</b>	<b>NASTRAN NFRAME</b>	<b>AERO-S NFRAME</b>	<b>Description</b>
18888	1	8.20000	0.00000	0.00000	-	-	Center of mass
1010	2	3.09142	-7.65000	0.00000	-	-	
1011	3	0.80000	-7.65000	0.00000	-	-	
1012	4	8.66000	-7.65000	0.00000	-	-	
1013	5	-2.34000	-7.65000	0.00000	-	-	
1020	6	5.91200	-14.63000	0.00000	-	-	
1030	7	9.09646	-22.51000	0.00000	-	-	
1040	8	11.70310	-28.96100	0.00000	-	-	
1050	9	14.67310	-36.30550	0.00000	-	-	
1060	10	17.49550	-43.29410	0.00000	-	-	
1070	11	20.24981	-50.10100	0.00000	-	-	
1080	12	23.28700	-57.62600	0.00000	-	-	
1090	13	24.40000	-60.25000	0.00000	-	-	
1091	14	21.95650	-60.25000	0.00000	-	-	
1092	15	30.69650	-60.25000	0.00000	-	-	
100001	16	10.17000	-4.85500	0.00000	-	-	
999011	17	1.54570	-3.82500	0.00000	-	-	
999012	18	4.50180	-11.14000	0.00000	-	-	
999013	19	7.50430	-18.57000	0.00000	-	-	
999014	20	10.40000	-25.73500	0.00000	-	-	
999016	21	16.08430	-39.80000	0.00000	-	-	
999017	22	18.87260	-46.69750	0.00000	-	-	
999018	23	22.49150	-55.69450	0.00000	-	-	
999015	24	13.30030	-32.93550	0.00000	-	-	
2010	25	3.09142	7.65000	0.00000	-	-	
2011	26	0.80000	7.65000	0.00000	-	-	
2012	27	8.66000	7.65000	0.00000	-	-	
2013	28	-2.34000	7.65000	0.00000	-	-	
2020	29	5.91210	14.63000	0.00000	-	-	
2030	30	9.09650	22.51000	0.00000	-	-	
2040	31	11.70320	28.96100	0.00000	-	-	
2050	32	14.67310	36.30550	0.00000	-	-	
2060	33	17.49550	43.29410	0.00000	-	-	
2070	34	20.24980	50.10100	0.00000	-	-	
2080	35	23.28700	57.62590	0.00000	-	-	
2090	36	24.40000	60.25001	0.00000	-	-	
2091	37	21.95650	60.25001	0.00000	-	-	

<b>NASTRAN Node #</b>	<b>AERO-S Node #</b>	<b>Position X</b>	<b>Position Y</b>	<b>Position Z</b>	<b>NASTRAN NFRAME</b>	<b>AERO-S NFRAME</b>	<b>Description</b>
2092	38	30.69650	60.25001	0.00000	-	-	
200001	39	10.17000	4.85500	0.00000	-	-	
999021	40	1.54570	3.82500	0.00000	-	-	
999022	41	4.50180	11.14000	0.00000	-	-	
999023	42	7.50430	18.57000	0.00000	-	-	
999024	43	10.40000	25.73500	0.00000	-	-	
999026	44	16.08430	39.80000	0.00000	-	-	
999027	45	18.87260	46.69750	0.00000	-	-	
999028	46	22.49150	55.69450	0.00000	-	-	
999025	47	13.30030	32.93550	0.00000	-	-	
3001	48	-15.55000	0.00000	0.00000	-	-	- Nose
9001	49	-12.36000	0.00000	0.00000	-	-	- Accelerometer
13001	50	-10.93000	0.00000	0.00000	-	-	
3002	51	-6.49000	0.00000	0.00000	-	-	
3000	52	0.00000	0.00000	0.00000	-	-	
28888	53	3.48000	0.00000	0.00000	-	-	
3004	54	3.73000	0.00000	0.00000	-	-	
13002	55	5.08000	0.00000	0.00000	-	-	
9002	56	7.36000	0.00000	0.00000	-	-	- Accelerometer
3005	57	8.66000	0.00000	0.00000	-	-	
3006	58	16.77100	0.00000	0.00000	-	-	
3007	59	18.00000	0.00000	0.00000	-	-	
10001	60	1.63000	-4.76480	0.00000	101	1	
10002	61	1.03000	-5.77440	0.00000	102	2	
10003	62	1.03000	-20.65440	0.00000	102	2	
10004	63	1.03000	-35.53440	0.00000	102	2	
20001	64	1.63000	4.76480	0.00000	201	3	
20002	65	1.03000	5.77440	0.00000	202	4	
20003	66	1.03000	20.65440	0.00000	202	4	
20004	67	1.03000	35.53440	0.00000	202	4	
3011	68	26.81650	-60.25000	5.50000	-	-	
3012	69	30.69650	-60.25000	5.50000	-	-	
3013	70	26.81650	-60.25000	-5.50000	-	-	
3014	71	30.69650	-60.25000	-5.50000	-	-	
4011	72	26.81650	60.25000	5.50000	-	-	
4012	73	30.69650	60.25000	5.50000	-	-	
4013	74	26.81650	60.25000	-5.50000	-	-	
4014	75	30.69650	60.25000	-5.50000	-	-	
5011	76	1.63000	0.00000	0.00000	101	1	
5012	77	1.63000	-12.45000	0.00000	101	1	
5021	78	1.63000	0.00000	0.00000	201	3	
5022	79	1.63000	12.45000	0.00000	201	3	
6011	80	1.03000	0.00000	0.00000	102	2	
6012	81	1.03000	-14.75000	0.00000	102	2	
6021	82	1.03000	0.00000	0.00000	202	4	
6022	83	1.03000	14.75000	0.00000	202	4	
7011	84	1.03000	-14.88000	0.00000	102	2	

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7012	85	1.03000	-29.63000	0.00000	102	2	
7021	86	1.03000	14.88000	0.00000	202	4	
7022	87	1.03000	29.63000	0.00000	202	4	
8011	88	1.03000	-29.76000	0.00000	102	2	
8012	89	1.03000	-44.51000	0.00000	102	2	
8021	90	1.03000	29.76000	0.00000	202	4	
8022	91	1.03000	44.51000	0.00000	202	4	
888011	92	0.57000	-14.69800	0.00000	-	-	
888012	93	3.60700	-22.21100	0.00000	-	-	
888013	94	6.42600	-29.18600	0.00000	-	-	
888014	95	9.24600	-36.16200	0.00000	-	-	
888015	96	12.06500	-43.13800	0.00000	-	-	
888016	97	14.88500	-50.11400	0.00000	-	-	
888017	98	17.92100	-57.62600	0.00000	-	-	
888021	99	0.57000	14.69800	0.00000	-	-	
888022	100	3.60700	22.21100	0.00000	-	-	
888023	101	6.42600	29.18600	0.00000	-	-	
888024	102	9.24600	36.16200	0.00000	-	-	
888025	103	12.06500	43.13800	0.00000	-	-	
888026	104	14.88500	50.11400	0.00000	-	-	
888027	105	17.92100	57.62600	0.00000	-	-	
9003	106	18.48000	-57.23000	0.00000	-	-	Accelerometer
9004	107	25.00000	-57.23000	0.00000	-	-	Accelerometer
9005	108	18.48000	57.23000	0.00000	-	-	Accelerometer
9006	109	25.00000	57.23000	0.00000	-	-	Accelerometer
101001	110	8.66000	-4.20614	0.00000	-	-	
202002	111	8.66000	4.20614	0.00000	-	-	
10011	112	0.01000	-4.76480	0.00000	101	1	
10012	113	0.01000	-5.77440	0.00000	102	2	
10013	114	0.01000	-20.65440	0.00000	102	2	
10014	115	0.01000	-35.53440	0.00000	102	2	
20021	116	0.01000	4.76480	0.00000	201	3	
20022	117	0.01000	5.77440	0.00000	202	4	
20023	118	0.01000	20.65440	0.00000	202	4	
20024	119	0.01000	35.53440	0.00000	202	4	
10101	120	-0.01000	-4.76480	0.00000	101	1	
10102	121	-0.01000	-5.77440	0.00000	102	2	
10103	122	-0.01000	-20.65440	0.00000	102	2	
10104	123	-0.01000	-35.53440	0.00000	102	2	
20201	124	-0.01000	4.76480	0.00000	201	3	
20202	125	-0.01000	5.77440	0.00000	202	4	
20203	126	-0.01000	20.65440	0.00000	202	4	
20204	127	-0.01000	35.53440	0.00000	202	4	
1	128	3.48000	-17.87000	0.00000	-	-	
2	129	8.11000	-16.00000	0.00000	-	-	
3	130	7.22000	-27.14000	0.00000	-	-	
4	131	11.86000	-25.27000	0.00000	-	-	

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5	132	10.97000	-36.42000	0.00000	-	-	
6	133	15.61000	-34.54000	0.00000	-	-	
7	134	14.72000	-45.69000	0.00000	-	-	
8	135	19.35000	-43.81000	0.00000	-	-	
9	136	18.46000	-54.96000	0.00000	-	-	
10	137	23.10000	-53.09000	0.00000	-	-	
11	138	3.48000	17.87000	0.00000	-	-	
12	139	8.11000	16.00000	0.00000	-	-	
13	140	7.22000	27.14000	0.00000	-	-	
14	141	11.86000	25.27000	0.00000	-	-	
15	142	10.97000	36.42000	0.00000	-	-	
16	143	15.61000	34.54000	0.00000	-	-	
17	144	14.72000	45.69000	0.00000	-	-	
18	145	19.35000	43.81000	0.00000	-	-	
19	146	18.46000	54.96000	0.00000	-	-	
20	147	23.10000	53.09000	0.00000	-	-	
101	148	6.69600	-16.57100	0.00000	-	-	
102	149	10.44300	-25.84100	0.00000	-	-	
103	150	14.19100	-35.11500	0.00000	-	-	
104	151	17.93600	-44.38400	0.00000	-	-	
105	152	21.67700	-53.66300	0.00000	-	-	
201	153	6.69600	16.57100	0.00000	-	-	
202	154	10.44300	25.84100	0.00000	-	-	
203	155	14.19100	35.11500	0.00000	-	-	
204	156	17.93600	44.38400	0.00000	-	-	
205	157	21.67700	53.66300	0.00000	-	-	
1000	158	3.08767	-7.64070	0.00000	-	-	
2000	159	3.08767	7.64070	0.00000	-	-	