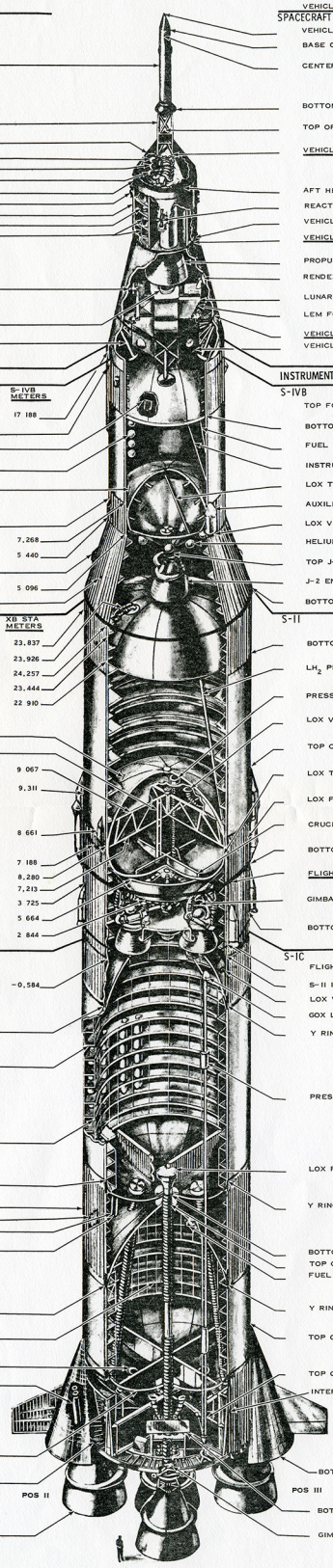
SATURN V APOLLO FLIGHT CONFIGURATION



VEHICLE STATION IN:	INCHES	METERS
SPACECRAFT (NORTH AMERICAN AVIATION)		
LES JETTISON MOTOR & LAUNCH ESCAPE SYSTEM		
LAUNCH ESCAPE TOWER		
COMMAND MODULE		
COMMAND PILOT		
SENIOR PILOT		
PILOT		
SERVICE MODULE		
CARRY ON UMBILICAL	3757 17	95.432
FLY AWAY UMBILICAL	3760.92	95 527
FUEL SUMP TANK		
H_2 CRYOGENIC STORAGE TANK		
RCS THRUSTER ASSEMBLY 4 PLACES		
LEM UPPER DOCKING TUNNEL		
LEM LANDING GEAR 4 PLACES		
INSTRUMENT UNIT (IBM)		
S-IVB (DOUGLAS)		
LH_2 TANK VENT	3203.56	81.370
ACCESS PLATFORM SUPPORT FITTING	3161.56	80.303
ANTENNAS CENTERLINE	3193.56	81 116
COLD HELIUM SPHERES (8)		
LOX TANK		
LINE FAIRING LH_2 FILL & DRAIN		
TOP OF AFT SKIRT	2832 00	71 933
LOX LH_2 FILL AND DRAIN	2760.05	70.105
RETRO ROCKET (4 PLACES)		
BOTTOM OF AFT SKIRT	2746.50	69.701
ACCESS PLATFORM SUPPORT FITTING	2664.33	67.674
S-II (NORTH AMERICAN AVIATION)		
SYSTEMS TUNNEL		
LH_2 VENT		
S-II TOP FORWARD SKIRT	2519.00	63.982
RADIO COMMAND ANTENNA 4 PLACES		
TELEMETRY ANTENNA 4 PLACES		
LOX TANK		
LOX PROPELLANT MANAGEMENT PROBE		
RING SLOSH BAFFLE		
LH_2 RECIRCULATION SYSTEM 5 PLACES		
LH_2 FILL & DRAIN		
DIVISION OF AFT SKIRT		
TOP OF AFT SKIRT	1890 00	48.006
BOTTOM OF SLOSH BAFFLE		
TOP ULLAGE ROCKET FAIRING MOTOR		
TOP OF THRUST CONE		
BOTTOM OF THRUST CONE		
S-IC (BOEING)		
TOP FORWARD SKIRT	1541 00	39.141
LOWER SECTION OF FORWARD SKIRT	1420.30	36.075
RING SLOSH BAFFLES		
LOWER SECTION OF HELIUM BOTTLES (4)	946.50	24.041
TOP OF INTERTANK ASSEMBLY	885.20	22.484
FUEL VENT LINE	696 00	17.678
ACCESS DOOR (FAR SIDE)		
LOX FILL & DRAIN (FAR SIDE)	794.18	20.172
LOX FILL & DRAIN (FAR SIDE)	776.18	19.715
BOTTOM OF INTERTANK ASSEMBLY	628.80	15.971
SLOSH BAFFLES		
FUEL FILL & DRAIN	130.00	3.302
RETRO ROCKETS (2 EACH 4 PLACES)		
BOTTOM OF FUEL TANK	225 00	5 715
TOP OF HEAT SHIELD	112 00	2.844
BOTTOM OF F-1 ENGINE	-115.36	-2.930

S-IVB (DOUGLAS)	XB STA INCHES	XB STA METERS
LH_2 TANK VENT	657 70	17 188
LINE FAIRING LH_2 FILL & DRAIN	286.15	7.268
LOX LH_2 FILL AND DRAIN	214.19	5 440
BOTTOM OF AFT SKIRT	200.05	5 096

S-II (NORTH AMERICAN AVIATION)	XB STA INCHES	XB STA METERS
SYSTEMS TUNNEL	938.50	23.837
LH_2 VENT	942.00	23.926
S-II TOP FORWARD SKIRT	955.00	24.257
RADIO COMMAND ANTENNA 4 PLACES	923.00	23.444
TELEMETRY ANTENNA 4 PLACES	902.00	22 910
RING SLOSH BAFFLE	357 00	9 067
LH_2 RECIRCULATION SYSTEM 5 PLACES	366.60	9.311
LH_2 FILL & DRAIN	341 00	8 661
DIVISION OF AFT SKIRT	283.00	7 188
TOP OF AFT SKIRT	326.00	8.280
BOTTOM OF SLOSH BAFFLE	284.00	7,213
TOP ULLAGE ROCKET FAIRING MOTOR	176.68	3 725
TOP OF THRUST CONE	223.00	5 664
BOTTOM OF THRUST CONE	112 00	2 844

S-IC (BOEING)	XB STA INCHES	XB STA METERS
TOP FORWARD SKIRT	-23.00	-0.584

POS II

VEHICLE STATIONS IN:	INCHES	METERS
SPACECRAFT		
VEHICLE STATION	4240.79	107.716
BASE OF CONARD NOSE CONE	4203.73	106.774
CENTERLINE LAUNCH ESCAPE MOTOR	4185.53	106.312
BOTTOM OF LES SKIRT	3960.03	100.585
TOP OF BOOST COVER	3890 03	98.527
VEHICLE SEPARATION	3840.03	97 536
AFT HEAT SHIELD	3749.56	95.239
REACTION CONTROL SYSTEM MODULE	3715.45	94 372
VEHICLE STATION FLIGHT SEPARATION	3594 55	91.301
VEHICLE SEPARATION	3593.50	91 275
PROPULSION MOTOR		
RENDEZVOUS RADAR ANTENNA		
LUNAR EXCURSION MODULE		
LEM FORWARD DOCKING TUNNEL		
VEHICLE SEPARATION	3340.05	84 837
VEHICLE STATION	3285.19	83.443
INSTRUMENT UNIT INSTRUMENT UNIT TOP	3258 56	82 767
INSTRUMENT UNIT BOTTOM	3222.56	81.853
S-IVB		
TOP FORWARD SKIRT		
BOTTOM OF FORWARD SKIRT	3100.56	78.754
FUEL MASS SENSOR PROBE		
INSTRUMENTATION PROBE		
LOX TANK PROBE		
AUXILIARY PROPULSION SYSTEM (APS) (2)		
LOX VENT (FAR SIDE)	2759.00	70.078
HELIUM SPHERES (9 PLACES)		
TOP J-2 ENGINE	2645.85	67.204
J-2 ENGINE		
BOTTOM S-IVB TOP S-II	2519.00	63.982
S-II		
BOTTOM OF FORWARD SKIRT		
LH_2 PROPELLANT MANAGEMENT PROBE		
PRESSURIZATION MAST		
LOX VENT LINE		
TOP OF LH_2 FEED FAIRING 5 PLACES		
LOX TANK EQUATOR	1848	46.939
LOX FILL & DRAIN (FAR SIDE)		
CRUCIFORM BAFFLE		
BOTTOM LH_2 FEED FAIRING		
FLIGHT SEPARATION	1760.00	44.704
GIMBAL PLANE		
BOTTOM ULLAGE R M FAIRING		
S-IC		
FLIGHT SEPARATION		
S-II INTERSTAGE BOTTOM	1541.00	39.141
LOX VENT	1521.00	38.633
GOX LINE	1511.75	38.398
Y RING	1404.00	35.661
PRESSURIZATION TUNNEL (2 PLACES)		
LOX FEED LINE TUNNEL (5 PLACES)		
Y RING	909.00	23.088
BOTTOM OF LOX TANK	772.00	19.608
TOP OF FUEL TANK	742.00	18.846
FUEL PRESSURE LINE	692.80	17 576
Y RING	605 00	15.367
TOP OF ENGINE FAIRING	362.00	9.194
TOP OF THRUST STRUCTURE	345.70	8.780
INTERCONNECT LOX DRAIN	130.00	3.302
BOTTOM OF ENGINE FAIRING	48.50	1.231
BOTTOM OF THRUST STRUCTURE	116.00	2 946
GIMBAL	100.00	2 540

S-IVB	XB STA INCHES	XB STA METERS
TOP FORWARD SKIRT	676.70	17.188
BOTTOM OF FORWARD SKIRT	554.70	14.089
LOX VENT (FAR SIDE)	213.15	5.414
TOP J-2 ENGINE	100.00	2.540
BOTTOM S-IVB TOP S-II	-26.98	-.682

S-II	XB STA INCHES	XB STA METERS
BOTTOM OF FORWARD SKIRT	823.00	20.904
TOP OF LH_2 FEED FAIRING 5 PLACES	451.75	11.474
LOX FILL & DRAIN (FAR SIDE)	207.00	5.257
CRUCIFORM BAFFLE	173.00	4 394
BOTTOM LH_2 FEED FAIRING	158.00	4.013
FLIGHT SEPARATION	196 00	4.978
GIMBAL PLANE	100.00	2.540
BOTTOM ULLAGE R M FAIRING	-0 44	-.011

S-IC	XB STA INCHES	XB STA METERS
FLIGHT SEPARATION	0.00	0.000
S-II INTERSTAGE BOTTOM	-23.00	-0.584

POS III

ISOMETRIC SCALE

100 0 100 200 300 400 500 INCHES

2 1 0 1 2 3 4 5 6 7 8 9 10 11 12 13 METERS

196.85 393.70 511.81

SHEET 1 OF 2
REF: 104573 APOLLO SATURN AS-501

THE BOEING COMPANY
SPACE DIVISION, LAUNCH SYSTEMS BRANCH
HUNTSVILLE, ALA 35807

SATURN V APOLLO
FLIGHT CONFIGURATION

DRAWING ORIGINATED BY:	DATE: 1 MARCH 1967
HUNTSVILLE ENGINEERING	DRAWN BY: DON SPRAGUE

FOR ADDITIONAL COPIES PHONE: