

INDEX

Ablative heat shield	42, 245	Docking:		Hello, B.	268
Abort	144	System	87	Helmet, pressure	224
Accelerometer	203, 210	Ring	87, 91	Hydrogen, liquid tanks	57, 100, 102
Accumulator	120	Latches	91		
Aldrin, E.E.	29, 270	Tunnel	44, 63, 91	Impact attenuation	43
Amplifier, S band	177	Seals	91	Inertial measurement unit	18, 208, 209
Anders, W.A.	270	Dosimeters	76, 80, 82	Inertial subsystem	189, 206
Antennas	59, 62, 97, 175, 176, 178, 187	Drogue	63, 91	Instrument unit	10, 66
				Insulation	42, 55
Armstrong, N.A.	29, 270	Eisele, D.F.	268	Integrating gyros	210
Ascent stage	61, 62	Emergency detection system	146	Inverters	100, 102, 110
Attitude gyro accelerometer assembly	192	Emergency oxygen system	228		
Atwood, J.L.	267	Engine:		J-2 engine	10
Audio center	176	SPS	162	Jettison:	
		RCS	58, 150	Stages	16, 17
Batteries	40, 63, 101, 105	LM	63	Launch escape tower	144
Battery charger	101, 113	LV	9	SLA panels	66
Bays, equipment	48	LES	139	SM	60
Beacon, recovery flashing	96, 178	Entry	23, 42, 60, 85, 93		
Bean, A.L.	272	Entry monitor system	85, 203	Kennedy Space Center	231
Belyayev, P.	30	Environmental control unit	117, 119	Kits	81
Bergen, W.B.	267	Evaluators, spacecraft	242, 261	Kleinknecht, K.S.	266
Bioinstrumentation harness	69, 76, 78	Evans, R.E.	269	Komarov, V.	27, 30
Biomedical equipment	76	Evaporator	120	Kraft, C.C.	265
Block I	3, 4	Extension latch assembly	90		
Body-mounted attitude gyros	192			Landing gear	63, 93
Boost protective cover	140	F-1 engine	12	Launch escape:	
Borman, F.	29, 269	Fairing	50, 55	Motor	139
Bykovsky, V.	30	Fecal subsystem	74	Subsystem	137
		Feokistov, K.	30	Tower	140
		Fire	27, 235	Launcher, mobile	14
Cabin	44, 62	Fire extinguisher	75, 80	Launching pad	9, 15, 231
Cameras	75, 78	Flights, Apollo	33, 35	Leonov, A.	30
Canards	141	Flight director attitude indicator	192	Lights	60
Capture latches	90	Flight combustion stability monitor	172	Liquid-cooling garment	227
Carpenter, S.	28	Flight coveralls	69, 80	Lithium-hydroxide canister	120
Carr, G.P.	270	Food	70	Little Joe	34
Caution and warning system	85	Fuel:		Lovell, J.A.	29, 270
Central timing equipment	176	Service propulsion	159	Low, G.M.	265
Cernan, E.A.	29, 269	Launch vehicle	10	Lunar module	61
Chaffee, R.	27	LM	63	Lunar orbit coast	19
Clean room	242, 249	Reaction control	147	Lunar orbit insertion	19
Clothing	69	Fuel cell powerplants	57, 101, 106		
Coldplates	121	Fuel tanks	57, 149	Manned Spacecraft Center	2, 239
Collins, M.	29	Gagarin, Y.	27, 30	Manned space flight network	17
Command module	2, 4, 15, 39	Gemini	28, 29, 31	Manufacturing	245
Communications soft hat	70, 78	Gilruth, Dr. R.R.	265	Marshall Space Flight Center	2, 9
Compartments	44	Gimbal actuator	164, 202	Mattingly, T.K.	270
Compressors	120	Gimballing	164, 201, 213	McDivitt, J.A.	29, 271
Computer	19, 189, 207, 210	Gimbal position indicator	193	Medical equipment	76, 80
Conrad, C.	29, 271	Glenn, J.	27, 28	Mercury	27, 28, 31
Console, main display	83	Glycol	117, 122	Middleton, R.O.	267
Constant-wear garment	69, 78	Gordon, R.F.	29, 271	Mirrors	49, 81
Controls	72, 83, 185, 193, 211	Greer, R.E.	268	Missions	15
Controllers	48, 60, 83, 95, 139	Grissom, V.	27, 28, 29	Mitchell, E.D.	272
Cooper, G.	28, 29	Guidance and navigation	205	Moore, J.R.	267
Couches	41, 71, 78	Gyros	192, 210	Mortars:	
Coupling display units	209	H-1 engine	10	Drogue	96
Crewman optical alignment sight	92	Haise, F.W.	270	Pilot	96
Crew titles	41, 83	Hatches	45, 63, 91	Forward heat shield	96
Cunningham, W.	268	Heaters	103, 129, 167	Muller, Dr. G.E.	265
		Heat exchangers	119, 120	Myers, D.D.	267
Data files	80	Heat shields	42, 55, 93, 245		
Data system	174	Helium tanks	44, 58, 63, 149, 162	Navigation base	209
Debus, K.H.	266			Nikolayev, A.	30
Descent stage	61, 63			Nose cone	137
Digital ranging generator	176			Nuclear particle detection system	77, 80

O'Connor, E.F.	266	CM-SM	49, 60	Visor, extravehicular	227
Orbit:		CSM-LM	88	Volume:	
Earth	15	Launch escape tower	139	CM	3
Lunar	16	SLA	66	LM	61
Ordnance	44, 60, 64, 66, 90,	Service module	53	SLA	65
	96, 142, 148	Service propulsion:		Von Braun, W.	266
Oxidizer	149	Engine	18, 58, 160, 162, 201, 217		
Oxidizer tanks	44, 56, 63, 135,	Subsystem	159	Waste bags	74
	149, 150, 162	Sextant	210	Waste management	74
Oxygen:		Shepard, A.	27, 28	Water:	
Emergency system	228	Shock attenuation	89	Chiller	71, 120
Masks	75, 80	Signal conditioner	177, 211, 261	-glycol system	117, 122, 131
Tanks	57, 100, 102, 122	Simulators, mission	246	Reservoir	117, 119
Surge tank	120	Sleeping bag	73, 81	System	107, 117, 128
Panels:		Spacecraft-LM adapter	65	Tanks	121
Protection	48, 237	Space suit	223	Webb, J.E.	265
SLA	17, 66	Spring thruster	17, 66	White, E.	27, 29
Parachutes:		Squib valve	148, 155	Windows	47, 63
Drogue	24, 94	Stafford, T.	29, 268	Worden, A.M.	272
Main	24, 95	Structure:		Workshelf	74
Pilot	24, 95	CM	41, 239, 245	Weight:	
Personal Hygiene	73, 80	LM	62, 63	CM	3, 39
Petrone, R.A.	266	SLA	66, 251	LM	3, 61
Phillips, S.C.	265	SM	55, 249	Saturn IB	10
Pitch arms	89	Surge tank	120	Saturn V	12
Pitch control motor	140	Survival equipment	77, 81	SM	3, 53
Pitch engine	147	Swigert, J.L.	269		
Pogue, W.R.	269	Swimmers' umbilical	82, 96	Yegorov, B.	30
Popovich, P.	30			Young, J.W.	29, 269
Portable life support system	227	Tanks:			
Power and servo assembly	209	Cryogenic	102, 122		
Premodulation processor	176	Helium	150, 162		
Probe	41, 89	Propellant	145, 150, 160, 162, 170		
Pulse-code modulation telemetry	176	Water	44, 121		
Pyrotechnic batteries	101, 105	Targets, docking	92		
		Telemetry	18, 31, 69, 173		
Q-ball	141	Telescope	210		
Quads	59, 147	Television camera	21, 177		
Quantity measurement system	104	Tereshkova, V.	29, 30		
Quantity sensing system	162	Tests	15, 33, 35, 71, 229, 239		
		Thermal meteoroid garment	224		
Radiation survey meter	77, 81	Thrust chamber	162, 218		
Radiators	58, 107, 121, 132	Thruster, spring	17, 66		
Ratchet assembly	90	Titov, G.	30		
Rate gyros	192	Tools	75, 82		
Reaction control:		Tower, launch escape	140		
Engines	17, 44, 58, 62, 147,	Tower jettison motor	140		
	193, 217	Transearth coast	22		
System	147	Transearth injection	22		
Reefing lines	95	Translation control	83, 192		
Reefing line cutters	95	Translunar coast	17		
Reliability	239	Translunar injection	17		
Rendezvous radar transponder	187	Trays, wire	49, 177		
Resolvers	206	Triplexer	178		
Restraints	71, 81	Tunnel, docking	44, 63, 91		
Retraction system	90				
Retrobraking	19	Umbilical:			
Rockwell, W.F.	267	Cable	180		
Ross, M.	266	CM-LM	91		
Rotation control	83, 192, 215	Hoses	79		
Russian manned space program	28, 30	LM-SLA	67		
		SM-CM	49, 60		
Safety	235	Swimmers	82, 96		
Saturn IB	2, 10, 33	Unified hatch	235		
Saturn V	12	Unified S band	177		
Schirra, W.M.	28, 29, 268	Up-data link	178		
Schweickart, R.L.	271	Uprighting system	95		
Scott, D.R.	29, 271	Urine subsystem	74		
Sea marker	96				
Sectors, S.M.	56	Vacuum chamber	240		
Separation:		VHF/AM transmitter-receiver	178		
Stages	16, 17	VHF recovery beacon	81, 97, 178		