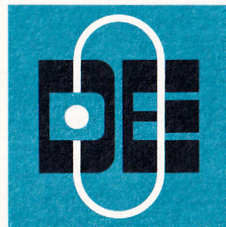


**SKYLAB
INERTIAL INSTRUMENT
LOGISTICS SUMMARY
QUARTERLY ISSUE**

TR73-103

1 OCTOBER 1973



Delco Electronics

*General Motors Corporation
- Santa Barbara Operations
Santa Barbara, California*

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Submitted by



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SECTION I

INTRODUCTION

This report contains current Skylab Block I and Block II inertial instrument data. The data includes part number, site location, specific IMU and G & N system assignment, and pertinent status or remarks. The following terms and abbreviations are used.

1. Site Designations

DEL	Delco Electronics
GAC	Grumman Aircraft Corporation
KSC	Kennedy Spacecraft Center
MIT	Massachusetts Institute of Technology
MSC	Manned Spacecraft Center, Houston, Texas
NR	North American Rockwell
NOR	Nortronics
SPE	Sperry Gyroscope Company
FRC	Flight Research Center, Edwards, California

2. IMU Serial Number Designations

SN/0	Block I	Series 0
SN/50	Block I	Series 50
SN/100	Block I	Series 100
SN/CM	Block II	Command Module
SN/LM	Block II	Lunar Module
SN/CM/SP	Block II	Command Module Spare
SN/LM/SP	Block II	Lunar Module Spare

3. G & N System Numbers

Under 100 Series	Block I	Series 0 and 50
100 Series	Block I	Series 100
200 Series	Block II	Command Module
600 Series	Block II	Lunar Module

4. Status and Remarks Abbreviations

CAT I or I	Category I, Requalification by Testing
CAT II or II	Category II, Repair Down to Shroud Level
CAT III or III	Category III, Repair Down to Float Level
CAT IV or IV	Category IV, Internal Float Repair
EVAL	Evaluation
T	Tentative
TD	Torn Down
BR	Bond Room
INV. SCH. B	DD543 in Process on NAS 9-497 Hardware

†Units Flown

SECTION II
IRIG STATUS AND LOCATION

PART NUMBER	SERIAL NUMBER	SITE	ASSIGNED UNITS			STATUS/REMARKS
			POS.	IMU	SYSTEM	
7870250-011	1A 1	MIT				Suspension short to case
011	1A 2	MIT				Suspension short to case
011	1A 3	MIT				For test
011	1A 4A					Terminated
011	1A 5	MSC	Z	LRN/0	NA	
011	1A 6	MIT				For test
011	1A 7A	MSC				For test
011	1A 8	MIT				Overheated
011	1A 9A	MIT				Gravity transient, rebuilt R4 program
011	1A 10	MIT	X	MIT/5		MIT IMU
7871776-011	2A 1	MSC	X	LRN/0	NA	
011	2A 2	MSC	Y	LRN/0	NA	
021	2A 3A					Terminated
011	2A 4	MIT				For test
021	2A 5A	MIT				Bearing failure (MIT change wheel) , R4 program
011	2A 6	NR	Z	2/0	6	
011	2A 7	NR	Y	2/0	6	
011	2A 8	MSC				For test
011	2A 9	MSC	Y	3/0	7	
011	2A 10	MSC	Z	3/0	7	
011	2A 11					Terminated
011	2A 12	MSC	X	3/0	7	
011	2A 13					Terminated, bearing failure
031	2A 14	NR	X	2/0	6	
031	2A 15	MSC	Z	5/0	20	

IRIG

PART NUMBER	SERIAL NUMBER	SITE	ASSIGNED UNITS			STATUS/REMARKS
			POS.	IMU	SYSTEM	
7871776-041	2A 16	MSC	Y	5/0	20	
041	2A 17	MSC	Z	4/0	8	
031	2A 18	MSC	X	4/0	8	
031	2A 19	MSC				For test
041	2A 20					Terminated
041	2A 21					Terminated
041	2A 22	MSC	X	5/0	20	
041	2A 23	MIT	Y	MIT/5		MIT IMU
041	2A 24	MIT				ADIA instability. R4 program
041	2A 25	MIT				For test
041	2A 26	MSC	Z	3/100	110	
041	2A 27					Terminated
041	2A 28	MIT	Z	MIT/4		MIT IMU
041	2A 29	MSC				For test
041	2A 30	MIT				Bearing failure
041	3A 1	MSC				For test
031	3A 2	MSC				For test
041	3A 3	MSC	X	3/100	110	
031	3A 4					Terminated
041	3A 5					Terminated
2021500-111	3C 6	FRC	Z	3/LM	604	F8-Iron Bird Testing
7871776-041	3A 7	MIT	Y	MIT/4		MIT IMU
041	3A 8					BR storage
041	3A 9	MSC				NASA disposition
041	3A 10 †	MSC	Y	1/50	17	Flown IMU 1/50

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IRIG

PART NUMBER	SERIAL NUMBER	SITE	ASSIGNED UNITS			STATUS/REMARKS
			POS.	IMU	SYSTEM	
7871776-041	3A 11	MIT				For test
041	3A 12 †	MSC				Flown IMU 1/50, NASA disposition
041	3A 13	MIT				For test
041	3A 14					Terminated, float freedom failure
041	3A 15					Terminated
041	3A 16					Terminated, bearing failure
2021500-111	3C 17	NOR				Terminated
7871776-041	3A 18					Terminated
041	3A 19					Terminated
041	3A 20					Terminated
041	3A 21	MSC				For test
041	3A 22					Terminated
041	3A 23	MSC				For test
041	3A 24 †	MSC	X	8/100	SP	Flown IMU 1/50
051	3A 25	MSC	Y	7/100	SP	
051	3A 26					Terminated
051	3A 27 †	MSC	X	4/100	123	Flown IMU 4/100
041	3A 28	MSC				For test
051	3A 29					Terminated
051	3A 30					Terminated
2021500-111	4C 1†		Y	17/CM	210	Flown unit, Apollo 11, terminated
2021602	4A 2					Terminated

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IRIG

PART NUMBER	SERIAL NUMBER	SITE	ASSIGNED UNITS			STATUS/REMARKS
			POS.	IMU	SYSTEM	
7871776-071	4A 3		Z	10/100	12	Expended, Langley AFB Float freedom failure. R4 program BR storage
071	4A 4	MIT				
2021500-111	4C 5	DEL				
7871776-061	4A 6 †	MSC				Recovered after flight, flown IMU 11/100, NASA disposition
061	4A 7	MSC	Y	8/100	SP	
011	4A 8	MSC	X	7/100	SP	
061	4A 9		Y	10/100	12	Expended, Langley AFB
2021500-111	4C 10	NOR				
7871776-071	4A 11					
071	4A 12	MIT				Terminated Flex lead failure. R4 program For test
071	4A 13	MSC				
071	4A 14 †	MSC				
071	4A 15					Recovered for test, flown IMU 11/100 Terminated
071	4A 16	MIT	Y	5/100	111	
071	4A 17	MSC				
2021500-111	4C 18†		X	17/CM	210	Overheated, failed Flown unit, Apollo 11, terminated terminated
7871776-071	4A 19	MIT	X	5/100	111	
071	4A 20					
071	4A 21	MIT				USAF Terminated For test
071	4A 22	MIT	Z	MIT/5		
071	4A 23 †	MSC	Z	4/100	123	
071	4A 24	MSC	Z	8/100	SP	Flown IMU 4/100
071	4A 25	MIT	Z	5/100	111	

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IRIG

PART NUMBER	SERIAL NUMBER	SITE	ASSIGNED UNITS			STATUS/REMARKS
			POS.	IMU	SYSTEM	
2021500-111	4C 26†		Z	17/CM	210	Flown unit, Apollo 11, terminated
7871776-061	4A 27					Terminated
2021500-111	4C 28	DEL	Z	LRN/CM		MOD I rebuild
7871776-061	4A 29					Terminated
071	4A 30	MIT				Bearing failure. R4 program
7871776-081	5A 1					Terminated
081	5A 2	MSC				Overheated, failed
071	5A 3		X	10/100	12	Expended, Langley AFB
081	5A 4					Terminated
081	5A 5	MSC	Y	6/100	109	
081	5A 6					Terminated
081	5A 7	MIT				Recovered after flight. For test, flown IMU 11/100
081	5A 8	MIT				Bearing failure. R4 program
081	5A 9	MSC	Y	4/100	123	Flown IMU 4/100
071	5A 10	MSC				Overheated, failed
071	5A 11	MSC				For test
071	5A 12	MSC				For test
2021500-111	5C 13	NOR				WHL Fail
7871776-071	5A 14	MSC				NASA disposition
071	5A 15	MIT				Disassembled, bearing failure
071	5A 16	MSC	Y	3/100	110	
081	5A 17	MSC				For test
081	5A 18	MSC				For test
081	5A 19	MSC				Overheated, failed
081	5A 20	MIT				Bearing failure

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IRIG

PART NUMBER	SERIAL NUMBER	SITE	ASSIGNED UNITS			STATUS/REMARKS
			POS.	IMU	SYSTEM	
7871776-081	5A 21	NOR				Terminated
7871776-071	5A 22					Terminated
2021500-111	5C 23					Terminated
7871776-071	5A 24	MSC				For test
2021500-041	6A 1	NOR				S/N retired
081	6A 2	DEL				Wheel stopped, BR storage
041	6A 3					Terminated
041	6A 4					Terminated
041	6A 5	NOR				ADIA shift
041	6A 6	NOR				Float freedom failure
041	6A 7	NOR				Float freedom failure
041	6A 8	NOR				Bearing failure
041	6A 9	NOR				S/N retired
041	6A 10	NOR				S/N retired
041	6A 11	NOR				S/N retired
041	6A 12					Terminated
041	6A 13	NOR	S/N retired			
041	6A 14	NOR	S/N retired			
041	6A 15	NOR	S/N retired			
041	6A 16	MSC	Z	1/LM		
041	6A 17	NOR			Float freedom failure Cat IV repair	
041	6A 18	MIT			ADIA shift	
041	6A 19	NOR			Testing/TD bearing failure	
041	6A 20	MSC	Y	1/LM		

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IRIG

PART NUMBER	SERIAL NUMBER	SITE	ASSIGNED UNITS			STATUS/REMARKS
			POS.	IMU	SYSTEM	
2021500-041	6A 21	MSC	X	PP2/CM	NA	
041	6A 22	MSC	X	1/LM		
041	6A 23	NOR				Bearing failure
041	6A 24	NOR				Float freedom failure
041	6A 25	NOR				Bearing failure
031	7A 1					Repair IV (S/N Retired)
031	7A 2	MSC				For test
031	7A 3	DEL	Z	2		
031	7A 4	DEL	X	5/CM	202	
031	7A 5	DEL	X	2		
031	7A 6	NOR				CAT IV—Repair
051	7A 7					Repair IV (S/N Retired)
111	7C 8	DEL				BR storage
051	7A 9					Terminated
111	7B 10	NOR				S/N retired
2021602-011	7C 11	DEL				Repair III, BR storage denorm
2021500-031	7A 12	DEL	Z	5/CM	202	
031	7A 13	MSC				For test, qualification program
051	7A 14					Repair IV (S/N Retired)
111	7C 15					Unit sent to Atomic Energy Commission
031	7A 16	NOR				S/N retired
071	7A 17	NOR				S/N retired
111	7A 18	NOR				S/N retired
111	7C 19					Unit sent to Atomic Energy Commission
051	7A 20	MSC				For test, qualification program

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IRIG

PART NUMBER	SERIAL NUMBER	SITE	ASSIGNED UNITS			STATUS/REMARKS
			POS.	IMU	SYSTEM	
2021500-031	7A 21	NOR				ADIA instability — Repair
031	7A 22	MIT				Drift instability
111	7B 23	NOR				S/N retired
031	7A 24	DEL	Y	2		
051	7A 25					Terminated
111	7C 26	DEL				BR storage
111	7A 27	FRC	X	18	DFCS-2	F-8
051	7A 28	NOR				S/N retired
051	7A 29	NOR				S/N retired
031	7A 30					Repair IV (S/N Retired)
111	7A 31†	NOR				S/N retired
051	7A 32					Terminated
111	7C 33	DEL	Y	LRN/CM	NA	
111	7B 34	FRC	Z	32	DFCS-1	Iron Bird
081	7A 35					Repair IV (S/N Retired)
111	7A 36	NOR				S/N retired
111	7C 37					Repair IV (S/N Retired)
111	7A 38	NOR				S/N retired
051	7A 39					Repair IV (S/N Retired)
051	7A 40					Repair IV (S/N Retired)
111	7A 41	GAC	Y	PP1		
111	7A 42					Repair IV (S/N Retired)
071	7A 43					Repair IV (S/N Retired)

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IRIG

PART NUMBER	SERIAL NUMBER	SITE	ASSIGNED UNITS			STATUS/REMARKS
			POS.	IMU	SYSTEM	
2021500-071	7A 44					Repair IV (S/N Retired)
051	7A 45					Repair IV (S/N Retired)
051	7A 46					Repair IV (S/N Retired)
031	7A 47	NOR				CAT IV — Repair
081	7A 48	NOR				S/N retired
071	7A 49					Repair IV (S/N Retired)
051	7A 50	MSC				Bearing evaluation
2021500-051	7A 51					Repair IV (S/N Retired)
111	7A 52†	DEL	X	45/CM	606	Launched, Apollo 10, recovered, slip ring test
111	7A 53†		Z	27/LM		Launched, Apollo 10, expended
111	7C 54					Unit sent to Atomic Energy Commission
051	7A 55					Terminated
111	7A 56	NOR				S/N retired
111	7A 57	NOR				S/N retired
071	7A 58					Repair IV (S/N Retired)
031	7A 59					Repair IV (S/N Retired)
111	7C 60	DEL				BR storage
111	7A 61	NOR				Engineering workhorse, BR storage
031	7A 62					Repair IV (S/N Retired)
111	7C 63	NOR				S/N retired
111	7C 64	NOR				S/N retired
071	7A 65					Repair IV (S/N Retired)
051	7A 66					Terminated

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IRIG

PART NUMBER	SERIAL NUMBER	SITE	ASSIGNED UNITS			STATUS/REMARKS
			POS.	IMU	SYSTEM	
2021500-051	7A 67					Repair IV (S/N Retired)
051	7A 68	MSC	Z	PP2/CM	NA	
111	7A 69†	FRC	Z	18	DFCS-2	Launched, Recovered (IMU14), F-8
051	7A 70					Repair IV (S/N Retired)
051	7A 71					Terminated
071	7A 72					Repair IV (S/N Retired)
051	7A 73	FRC	X	3/LM	604	F8-Iron Bird Testing
071	7A 74					Repair IV (S/N Retired)
111	7C 75	DEL				BR storage
051	7A 76	MSC	Y	PP2/CM	NA	
2021602-011	7C 77	DEL				BR storage, denormalized, CAT IV
2021500-031	7A 78	NOR				S/N retired
071	7A 79					Repair IV (S/N Retired)
111	7A 80	NOR				S/N retired
101	7A 81†		Z	6/LM	603	Launched, expended
111	7B 82					Repair IV (S/N Retired)
111	7A 83†		Y	19/LM	605	Launched, expended, Apollo 9
071	7A 84	DEL	Y	26/LM	608	
111	7A 85†	FRC	Y	18	DFCS-2	Launched, returned (IMU 8, Apollo 7), F-8
111	7A 86†	NOR				S/N retired
071	7A 87					Repair IV (S/N Retired)
111	7C 88	NOR				S/N retired

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PART NUMBER	SERIAL NUMBER	SITE	ASSIGNED UNITS			STATUS/REMARKS
			POS.	IMU	SYSTEM	
2021500-081	7A 89†	MSC				For test (Flown IMU S/N 23)
071	7A 90					Repair IV (S/N Retired)
111	7C 91	FRC	X	32	DFCS-1	Iron Bird
111	7A 92					Repair IV (S/N Retired)
081	7A 93					Repair IV (S/N Retired)
031	7A 94					Repair IV (S/N Retired)
111	7A 95					Repair IV (S/N Retired)
111	7A 96	NOR				S/N retired
071	7A 97					Repair IV (S/N Retired)
111	7A 98†		X	19/LM	605	Launched, expended, Apollo 9
071	7A 99	NOR				S/N retired
081	7A 100					Repair IV (S/N Retired)
051	7A 101	MSC				Qualification program
051	7A 102					Repair IV (S/N Retired)
101	7A 103†		X	6/LM	603	Launched, expended
111	7A 104	NOR				S/N retired
111	7C 105					Unit sent to Atomic Energy Commission
111	7A 106	DEL				Engr Test, storage test
111	7A 107†		X	27/LM	606	Launched, Apollo 10, expended
2021619	7A 108	DEL				CAT III — Repair cancelled, float to BR storage
2021500-111	7C 109	DEL	X	10/CM	207	Eng Lab
081	7A 110†	NOR				S/N retired
111	7C 111	MSC				MSC sent to Bendix for analysis — Torn down
111	7A 112	DEL	Y	10/CM	207	Eng Lab

IRIG

PART NUMBER	SERIAL NUMBER	SITE	ASSIGNED UNITS			STATUS/REMARKS
			POS.	IMU	SYSTEM	
2021500-051	7A 113					Repair IV (S/N Retired)
051	7A 114	MIT				Wheel sync problem
071	7A 115					Repair IV (S/N Retired)
051	7A 116	NOR				CAT IV — Repair
051	7A 117	MSC				Bearing evaluation
051	7A 118	MSC				Bearing evaluation
111	7A 119	NOR				S/N retired
111	7C 120					Unit sent to Atomic Energy Commission
051	7A 121					Repair IV (S/N Retired)
111	7A 122	MIT				S/N retired
111	7A 123	DEL	Z	10/CM	207	Eng lab
051	7A 124					Repair IV (S/N Retired)
2021619	7A 125	DEL				Unit TD for salvage, float to BR storage
2021500-111	7A 126	NOR				S/N retired
051	7A 127					Repair IV (S/N Retired)
111	7A 128+	DEL	Y	45/CM		Launched, Apollo 10, recovered, slip ring test
071	7A 129					Repair IV (S/N Retired)
111	7A 130+		Z	19/LM	605	Launched, expended, Apollo 9
111	7C 131					Repair IV (S/N retired)
101	7A 132+		Y	6/LM	603	Launched, expended
111	7C 133	NOR				S/N retired
111	7A 134	GAC	X	PP1/LM		
111	7A 135	NR	X	4/CM	201	
111	7C 136	GAC	Z	PP1/LM		

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PART NUMBER	SERIAL NUMBER	SITE	ASSIGNED UNITS			STATUS/REMARKS
			POS.	IMU	SYSTEM	
2021500-051	7A 137	DEL				Repair IV (S/N Retired)
051	7A 138					Repair IV (S/N Retired)
111	7C 139					
071	7A 140					Repair IV (S/N Retired)
111	7A 141	DEL				BR storage
051	7A 142	NOR				S/N retired
111	7C 143					Unit sent to Atomic Energy Commission
111	7B 144					Unit sent to Atomic Energy Commission
071	7A 145					Repair IV (S/N Retired)
111	7B 146	NOR				Test Unit
111	7C 147	DEL	X	26/LM	608	
051	7A 148	DEL	Z	26/LM	608	
051	7A 149	NOR				S/N retired
111	7B 150	DEL				BR storage
111	7A 151	NOR				S/N retired
051	7A 152					Repair IV (S/N Retired)
111	7C 153	DEL				Engineering workhorse, BR storage
051	7A 154					Repair IV (S/N Retired)
051	7A 155					Repair IV (S/N Retired)
071	7A 156					Repair IV (S/N Retired)
071	7A 157					Repair IV (S/N Retired)
2021602-011	7A 158	NOR				S/N retired
2021500-051	7A 159					Repair IV (S/N Retired)
051	7A 160					Repair IV (S/N Retired)

PART NUMBER	SERIAL NUMBER	SITE	ASSIGNED UNITS			STATUS/REMARKS
			POS.	IMU	SYSTEM	
2021500-111	7A 161	DEL	X	LRN/CM		Repair IV (S/N Retired)
111	7C 162					BR storage
111	7C 163					Unit sent to Atomic Energy Commission
051	7A 164					Repair IV (S/N Retired)
111	7A 165					Repair IV (S/N Retired)
111	7A 166	DEL				CAT III repair, BR storage, disassembled
071	7A 167	MSC				Repair IV (S/N Retired)
111	7C 168					MSC sent to Bendix for analysis
081	7A 169	DEL				(MIT Preamp)
111	7C 170	DEL				BR storage, temperature failure
2021602-011	7A 171	NOR	Y	4/CM 3/LM	201 604	S/N retired
2021500-051	7A 172	NR				Repair IV (S/N Retired)
051	7A 173					Repair IV (S/N Retired)
111	7B 174					F8-Iron Bird testing
111	7A 175	FRC				Unit sent to Atomic Energy Commission
111	7A 176	NOR				S/N retired
081	7A 177					BR storage
111	7C 178					Repair III cancelled, float to BR storage
2021619	7C 179	DEL				S/N retired
2021500-111	7C 180	NOR				Repair IV (S/N Retired)
051	7A 181	NOR				Repair IV (S/N Retired)
051	7A 182					Repair IV (S/N Retired)
111	7A 183					S/N retired
111	7A 184					Repair IV (S/N Retired)
111	7C 185					Unit sent to Atomic Energy Commission

IRIG

PART NUMBER	SERIAL NUMBER	SITE	ASSIGNED UNITS			STATUS/REMARKS
			POS.	IMU	SYSTEM	
2021500-111	7A 186					Repair IV (S/N Retired)
111	7A 187					Repair IV (S/N Retired)
2021619	7A 188	DEL				Unit TD for salvage, float to BR storage
2021500-111	7B 189	DEL				BR storage
111	7C 190†	DEL	Z	45/CM		Launched, Apollo 10, recovered, slip ring test
111	7A 191	NOR				S/N retired
111	7B 192	NR	Z	4/CM	201	
051	7A 193	DEL	Y	5/CM	202	
051	7A 194	DEL				Repair IV on hold, BR storage, disassembled
111	7A 195					Unit sent to Atomic Energy Commission
111	7A 196	NOR				S/N retired
081	7A 197†	MSC				S/N retired
111	7A 198	NOR				S/N retired
111	7C 199	NOR				S/N retired
051	7A 200	NOR				S/N retired
111	7C 201	DEL				Repair IV - on hold, BR storage, disassembled
051	7A 202					Repair IV (S/N Retired)
111	7C 203	DEL				BR storage
111	7A 204†		Y	27/LM	606	Launched, Apollo 10, expended
051	7A 205					Repair IV (S/N Retired)

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IRIG

PART NUMBER	SERIAL NUMBER	SITE	ASSIGNED UNITS			STATUS/REMARKS
			POS.	IMU	SYSTEM	
2021500-111	7C 206	FRC	Y	32	DFCS-1	Iron Bird
081	7A 207†	NOR				S/N retired
051	7A 208					Repair IV (S/N Retired)
071	7A 209					Repair IV (S/N Retired)
051	7A 210					Repair IV (S/N Retired)
111	7A 211†	NOR				S/N retired
111	7A 212	DEL				Repair III - on hold, BR storage, disassembled
091	8A 1					Terminated
121	8A 2					Terminated
091	8A 3					Terminated
121	8A 4					Terminated
091	8A 5					Terminated
091	8A 6					Terminated
091	8A 7					Terminated
091	8A 9					Terminated
151	8A 81	NOR				S/N retired
151	8A 101	KSC	Z	34/CM	222	Installed in CM 118 (Skylab 4)
151	8A 102	KSC	Y	34/CM	222	Installed in CM 118 (Skylab 4)
151	8A 103†	DEL				BR Storage
151	8B 104†	DEL				BR Storage
151	8A 105†	DEL				Float Freedom Problem
151	8A 106†		Z	11/LM	609	Expended, Apollo 11
151	8A 107†	DEL				Launched, recovered, Apollo 14. BR storage
151	8A 108†		Y	11/LM	609	Expended, Apollo 11
151	8A 109†	DEL	Z	30/CM	215	Launched, recovered, Apollo 14.

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PART NUMBER	SERIAL NUMBER	SITE	ASSIGNED UNITS			STATUS/REMARKS
			POS.	IMU	SYSTEM	
2021500-151	8A 110†		X	11/LM	609	Expended, Apollo 11
151	8A 111†	DEL				Launched, recovered, Apollo 14. BR storage
151	8A 112†	DEL				Launched, recovered, Apollo 13, Float Freedom Failure
151	8A 113†		X	15/LM	607	Launched, expended, Apollo 12
151	8A 114†	DEL	X	30/CM	215	Launched, recovered, Apollo 13;
151	8A 115†	DEL	Y	30/CM	215	Launched, recovered, Apollo 13;
151	8A 116†		Z	15/LM	607	Launched, expended, Apollo 12
151	8A 117†	KSC	X	34/CM	222	Launched, Apollo 15, recovered, in CM 118, Skylab 4
151	8A 118†		Y	15/LM	607	Launched, expended, Apollo 12
151	8A 119†	DEL				Launched, Apollo 15, recovered, BR storage
151	8A 120†	DEL	Z	25/CM	213	Launched, recovered (CM-114, Apollo 17)
151	8A 121†	DEL	Y	25/CM	213	Launched, recovered (CM-114, Apollo 17)
151	8A 122†		Z	21/LM	611	Launched, expended, Apollo 14
151	8A 123	MIT				Normalization hardware in BR
151	8C 124†		X	21/LM	611	Launched, expended, Apollo 14
151	8A 125†	DEL				Launched, Apollo 15, recovered, Float freedom failure, BR storage, Disassembled
151	8A 126	MIT				Normalization hardware in BR
151	8A 127†		Y	13/LM	610	Launched, expended, Apollo 13
151	8A 128†	DEL	X	25/CM	213	Launched, recovered (CM-114, Apollo 17).
151	8A 129†		X	13/LM	610	Launched, expended, Apollo 13
151	8A 130†		X	38/LM	613	Launched, expended (LM-12, Apollo 17)
151	8A 131†		Z	38/LM	613	Launched, expended (LM-12, Apollo 17)
151	8A 132†		Z	13/LM	610	Launched, expended, Apollo 13
151	8A 133	DEL				Engineering testing, lost wheel sync
151	8A 134†		Y	38/LM	613	Launched, expended (LM-12, Apollo 17)
151	8A 135†		Y	33/LM	615	LM-11, Apollo 16, launched, expended
151	8A 136	DEL	Y	9/CM		

PART NUMBER	SERIAL NUMBER	SITE	ASSIGNED UNITS			STATUS/REMARKS
			POS.	IMU	SYSTEM	
2021500-151	8A 137†		Z	33/LM	615	LM-11, Apollo 16, launched, expended
151	8A 138†		X	33/LM	615	LM-11, Apollo 16, launched, expended
151	8A 139†		Y	21/LM	611	Launched, expended, Apollo 14
151	8A 140	NOR				S/N retired
151	8A 141	DEL				Failed BDX in ISS testing. Disassembled
151	8A 142	DEL	X	9/CM		
151	8A 143	DEL	Z	9/CM		
181	8A 201†		X	12/LM	614	Apollo 15, expended
181	8A 202†		Z	12/LM	614	Apollo 15, expended
181	8A 203†		Y	12/LM	614	Apollo 15, expended
181	8A 204†	DEL	Z	22/CM	205	Skylab-II, Launched, recovered.
181	8A 205†	DEL	X	22/CM	205	Skylab-II, Launched, recovered.
181	8A 206†	DEL	Y	22/CM	205	Skylab-II, Launched, recovered.
181	8A 207	DEL	Z	44/CM		
181	8A 208	DEL	X	44/CM		
181	8A 209	DEL	Y	44/CM		
181	8A 210†	NR	Z	31/CM	221	Apollo 16, launched, recovered. Skylab-III, launched, recovered
181	8A 211†	NR	X	31/CM	221	Apollo 16, launched, recovered. Skylab-III, launched, recovered
181	8A 212†	NR	Y	31/CM	221	Apollo 16, launched, recovered. Skylab-III, launched, recovered
181	8A 213	DEL				For assignment -BR storage
181	8A 214	DEL				For assignment -BR storage
2021602-041	9A1	MIT				
2021602-041	9A2	MIT				
2021602-041	9A3	MIT				Storage Sensitive
2021602-071	9A4	MIT				
2021500-161	9A6	DEL				For assignment. BR storage
2021500-171	9A7	DEL	Z	24/CM		Slip ring tests
2021602-081	9A8	NOR				S/N retired - megger fail
2021500-161	9A9	DEL				BR storage - float freedom failure
2021602-071	9A10	DEL				Float freedom failure, BR storage
2021500-171	9A11	DEL				BR storage

PART NUMBER	SERIAL NUMBER	SITE	ASSIGNED UNITS			STATUS/REMARKS
			POS	IMU	SYSTEM	
2021500-171	9A12	DEL	Y	20/CM		BR Storage
2021500-171	9A13	DEL				BR Storage
2021500-171	9A14	DEL				Slip ring tests
2021500-171	9A15	DEL				Wheel problem — BR storage
2021602-081	9A16	Bendix				Gravity transient OOS
2021602-081	9A17	DEL				BR storage, failed float freedom
2021602-081	9A18	Bendix				Megger failure
2021602-081	9A19	NOR				Failure
2021500-171	9A20	DEL				BR storage - ADSRA waiver
2021602-081	9A21	NOR	Z	20/CM		Megger failure
2021500-171	9A22	DEL				Slip ring tests
2021602-081	9A23	DEL				BR Storage - Megger fail
2021500-171	9A24	DEL	Y	36/LM		BR Storage - waiver
2021500-171	9A25	DEL				Slip ring test
2021602-081	9A26	DEL				BR storage, bias instability
2021602-081	9A27	DEL	Z	36/LM		Failure - BR storage
2021500-171	9A28	DEL				Waiver, slip ring test
2021500-171	9A29					Unit sent to Atomic Energy Comm.
2021602-081	9A30	DEL	X	36/LM		BR storage — failed
2021500-171	9A31	DEL				Megger failure — Slip ring test
2021602-081	9A32	MIT				Megger failure
2021500-171	9A33	DEL				BR Storage
2021602-081	9A34	DEL				Failed Unit -BR storage
2021602-081	9A35	DEL				Failed Unit -Br storage
2921602-081	9A36	DEL				Failed Unit -BR storage
2021602-071	9A37	MIT				Failed unit
2021602-081	9A38	DEL				Failed Unit -BR storage
2021602-081	9A39	DEL	X	20/CM		Failed Unit - BR storage
2021500-171	9A40	DEL				Slip ring tests
2021500-171	9A41	DEL				Slip ring tests
2021500-171	9A42	DEL	X	24/CM		Slip ring tests
2021500-191	10A1	DEL	X	35/CM		
2021500-191	10A2	DEL				For assignment — BR storage

PART NUMBER	SERIAL NUMBER	SITE	ASSIGNED UNITS			STATUS/REMARKS
			POS	IMU	SYSTEM	
2021602-121	10C3	DEL				In normalization
2021602-121	10A4	NOR				Failed float freedom
2021500-191	10A5	DEL	Z	35/CM		
2021602-121	10A6	DEL				I&A Testing
2021500-201	10A7	DEL	Y	35/CM		
2021602-121	10A8	NOR				Failed gravity transient
2021500-201	10A9	DEL				For assignment - BR storage
2021500-201	10A10	DEL				For assignment - BR storage
2021602-121	10A11	DEL				I&A Testing
2021602-121	10A12	NOR				Failed gravity transient
2021602-121	10A13	DEL				Failed float freedom
2021500-201	10A14	DEL				For assignment - BR storage
2021602-121	10A15	DEL				I&A Testing complete
2021602-121	10A16	DEL				R&I Testing
2021602-121	10A17	DEL				In normalization
2021602-121	10A18	DEL				R&I Testing
2021602-121	10A19	DEL				In normalization
2021602-121	10A20	DEL				R&I Testing
2021602-121	10A21	DEL				R&I Testing
2021602-121	10A22	DEL				In normalization
2021602-121	10A23	DEL				R&I Testing
2021602-121	10A24	DEL				In normalization
2021602-121	10A25	DEL				
2021602-121	10A26	DEL				
2021602-121	10A27	DEL				
2021602-121	10A28	DEL				
2021602-121	10A29	DEL				
2021602-121	10A30	DEL				
2021602-121	10A31	DEL				
2021602-121	10A32	DEL				
2021602-121	10A33	DEL				
2021602-121	10A34	DEL				
2021602-121	10A35	DEL				
2021602-121	10A36	DEL				
2021602-121	10A37	DEL				
2021602-121	10A38	DEL				
2021602-121	10A39	DEL				
2021602-121	10A40	DEL				

PART NUMBER	SERIAL NUMBER	SITE	ASSIGNED UNITS			STATUS/REMARKS
			POS.	IMU	SYSTEM	
MIT BUILD IRIGS						
	84	MIT	X	SV	Servo	MIT Block II ↓
	86B	MIT	Y	SV	Servo	
	91A	MIT	Y	6F	600F	
	94	MIT	Z	SV	Servo	
	99A	MIT	X	6F	600F	
	100A	MIT	Y	2	200	
	102	MIT	Z	2	200	
	105B	MIT	Z	6F	600F	
	106	MIT	Z	6	600	

SECTION III

PIPA STATUS AND LOCATION

BLOCK	SPERRY P/N	INAC- TIVE UNIT	SERIAL NUMBER	SITE	ASSIGNED UNITS			STATUS/REMARKS
					POS.	IMU	SYSTEM	
I ↓	95944	X	1AP 1	MIT	X	LRN/0	NA	For thermal test
	↓ 96180 ↓	X	1AP 2	MIT				For PIP lab test
		X	1AP 3	MIT				Centrifuge, expended
		X	1AP 4	MSC				
		X	1AP 5	MIT				For thermal test
		X	1AP 6	MIT	Z	LRN/0	NA	For minicom test, disassembled
		X	1AP 7					S/N not used
		X	1AP 8					S/N not used
		X	1AP 9	MSC				
		X	1AP 10	SPE				Sperry unit, failed. Disassembled
		X	1AP 11	SPE	Y	LRN/0	NA	Sperry unit, failed. Disassembled
		X	1AP 12	MIT				For thermal test
		X	1AP 13	SPE				Sperry unit, failed. Disassembled
		X	1AP 14	MSC				
		X	1AP 15	SPE				
		X	1AP 16	MIT				For test
		X	1AP 17	MIT				Expended
		X	1AP 18	MIT				For thermal test
		X	1AP 19	SPE				Failed, expended
		X	1AP 20	MSC				For test
		X	1AP 21	MIT	Y	2/0	6	For test
		X	1AP 22	NR				
		X	1AP 23	NR	X	2/0	6	
		X	1AP 24	MSC	X	3/0	7	NASA disposition
		X	1AP 25	MSC				

BLOCK	SPERRY P/N	INAC- TIVE UNIT	SERIAL NUMBER	SITE	ASSIGNED UNITS			STATUS/REMARKS
					POS.	IMU	SYSTEM	
I ↓	96180	X	1AP 26	SPE				Failed, expended Sperry unit, failed. Disassembled
	96180	X	1AP 27	SPE				
	113600-1 ↓	X	2AP 28	MSC	X	5/0	20	
		X	2AP 29	MSC	Y	5/0	20	
		X	2AP 30	MSC	X	6/100	109	
		X	2AP 31	MSC	Z	5/0	20	NASA disposition
		X	2AP 32	MSC				
		X	2AP 33	MSC	Z	6/100	109	
		X	2AP 34	MSC	X	3/100	110	
		X	2AP 35	MSC	Y	3/100	110	
	113600-2	X	2AP 36	SPE				Sperry unit, failed. Disassembled
	113600-1	X	2AP 37	SPE				Sperry unit, failed. Disassembled
	113600-1	X	2AP 38	SPE				Sperry unit, failed. Disassembled
	113600-1	X	2AP 39	MSC	Y	3/0	7	
	113600-2	X	2AP 40	MIT				For test, bubble failure
	113600-2	X	2AP 41	MIT				For test, failed, disassembled
	113600-1 ↓	X	2AP 42	MSC	Z	3/100	110	
		X	2AP 43	NR	Z	2/0	6	
		X	2AP 44	MSC	Z	3/0	7	
		X	2AP 45	MIT	Y	5/100		
		X	2AP 46	MSC	Z	4/0	8	
	113600-2 ↓	X	2AP 47	MIT	X	5/100		
		X	2AP 48	MIT				For thermal test
		X	2AP 49	MIT				Failed
		X	2AP 50	MIT	Z	5/100		

PIPA

BLOCK	SPERRY P/N	INAC- TIVE UNIT	SERIAL NUMBER	SITE	ASSIGNED UNITS			STATUS/REMARKS
					POS.	IMU	SYSTEM	
I ↓	113600-3	X	2AP 51	MIT	Y	MIT/4		For MIT IMU Block I test
	113600-1	X	2AP 52	MSC	Y	4/0	8	
	113600-2	X	2AP 53	MSC	X	4/0	8	
	113600-5	X	2AP 54	MSC	X	6/50	SP	
	113600-5	X	2AP 55	MSC				Failed unit, NASA disposition
	113600-5	X	2AP 56	MSC	Y	6/50	SP	
	113600-2	X	2AP 57	MSC	Z	6/50	SP	
	113600-2	X	2AP 58	SPE				Failed, expended
	113600-2	X	2AP 59	MSC				NASA disposition
	113600-2	X	2AP 60	MSC	Y	6/100	109	
	113600-5	X	2AP 61	MIT				For test
	113600-4	X	2AP 62 +	MSC	X	1/50	17	Flown IMU 1/50
	113600-4	X	2AP 63	MIT				For test
	113600-6	X	2AP 64	MIT	X	MIT/4		For MIT IMU Block I test
	113600-6	X	2AP 65 †	MSC	Y	4/100	123	Flown IMU 4/100
	113600-4	X	2AP 66 †	MSC	Z	1/50	17	Flown IMU 1/50
	113600-6	X	2AP 67	MSC				Failed unit, NASA disposition
	113600-6	X	2AP 68	SPE				
	113600-6	X	2AP 69	SPE				
	113600-6	X	2AP 70	SPE				
	113600-4	X	2AP 71	MIT				For PIP lab test
	113600-6	X	2AP 72	SPE				Sperry unit, failed. Disassembled
	2001730-2		2AP 73R	DEL				BR storage
I	108000	X	2AP 74	SPE				
I	108000	X	2AP 75	MIT				Sperry unit, failed. Disassembled

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PIPA

BLOCK	SPERRY P/N	INAC- TIVE UNIT	SERIAL NUMBER	SITE	ASSIGNED UNITS			STATUS/REMARKS
					POS.	IMU	SYSTEM	
I	108000	X	2AP 76	SPE				Prototype
II	2001730-2	X	2AP 77R	DEL				Failed Unit
II	108077-1		2AP 78A	FRC	X	32	DFCS-1	Iron Bird
II	108077-1		2AP 79A	DEL	X	37/LM		
II	2001730-2	X	2AP 80R	DEL				Failed unit
I	113600-6	X	2AP 81	MIT	Z	MIT/4		For MIT IMU Block I test
II	2001730-2		2AP 82R	NR	X	31/CM	221	Skylab-III, launched, recovered
II	2001730-2	X	2AP 83R	DEL				Failed unit
I	113600-6	X	2AP 84	MSC	Y	1/50	17	
I	108077-1	X	2AP 85	SPE				
I	113600-6	X	2AP 86	SPE				
II	2001730-2	X	2AP 87R	DEL				Failed unit
I	108077-1	X	2AP 88 +	SPE				Flown IMU 4/100
II	2001730-2	X	2AP 89R	DEL				Failed unit
II	↓	X	2AP 90R	MSC				Failed unit — NASA disposition
II			2AP 91R	NR	Z	31/CM	221	Skylab-III, launched, recovered
II		X	2AP 92R†		Y	21/LM	611	Launched, expended, Apollo 14
I	113600-6	X	2AP 93	SPE				Flown IMU 4/100
I	↓	X	2AP 94	MIT	X	MIT/5		For MIT IMU Block I test
I		X	2AP 95	MIT	Z	MIT/5		For MIT IMU Block I test
I		X	2AP 96	SPE				
II	2001730-2		2AP 97R†	DEL				Launched, recovered, Apollo 14. BR storage
I	113600-6	X	2AP 98	MIT	Y	MIT/5		For MIT IMU Block I test

PIPA

BLOCK	SPERRY P/N	INAC- TIVE UNIT	SERIAL NUMBER	SITE	ASSIGNED UNITS			STATUS/REMARKS
					POS.	IMU	SYSTEM	
I	113600-6	X	2AP 99	SPE				Expended
II	113600-6	X	2AP 100	SPE				
I	108000-3	X	2AP 101	MIT				
I	113600-6	X	2AP 102	SPE				
I	113600-6	X	2AP 103	SPE				
II	2001730-2	X	2AP 104R	DEL	X	36/LM		Failed unit, slip ring test
II	2001730-2		2AP 105R	DEL				BR storage
I	113600-6	X	2AP 106	MIT				Expended
II	2001730-2	X	2AP 107R	DEL	Y	36/LM		Failed unit, slip ring test
I	108077-2		2AP 108	MIT	Z	MIT/2	200	MIT IMU Block II
II	2001730-2		2AP 109R	DEL				Program spare, BR storage
II	2001730-2		2AP 110R	DEL	X	25/CM	213	
I	108077-2	X	2AP 111	MIT				Expended
	113600-6	X	2AP 112	MIT				
	108077-4	X	2AP 113	MIT	Y	MIT/2	200	MIT IMU block II
	113600-6	X	2AP 114		Z	10/100	12	Expended, Langley AFB
		X	2AP 115 +	SPE				Recovered. IMU 11/100
		X	2AP 116	MIT				Expended
		X	2AP 117	SPE				
		X	2AP 118	SPE				
		X	2AP 119	SPE				
II	2001730-2		2AP 120R	DEL				Program spare, BR storage
I	113600-6	X	2AP 121 +	SPE				Recovered. IMU 11/100
II	2001730-2		2AP 122R	DEL				BR storage
II	2001730-2		2AP 123R	DEL	Y	37/LM		

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BLOCK	SPERRY P/N	INAC- TIVE UNIT	SERIAL NUMBER	SITE	ASSIGNED UNITS			STATUS/REMARKS
					POS.	IMU	SYSTEM	
I	113600-6	X	2AP 124	MIT				For test
I	108077-2		2AP 125	MIT	Y	MIT/6	600	MIT IMU Block II
I	108077-2	X	2AP 126	MIT				
II	108077-2	X	2AP 127	MSC	X	1/LM		
II	108077-2	X	2AP 128	MSC	Z	1/LM		
II	108077-2		2AP 129+	DEL				Launched, returned, IMU 23/CM, BR storage
II	108077-2	X	2AP 130	GAC	X	PP1/LM		
I	108077-4		2AP 131	MIT	X	MIT/2	200	MIT IMU Block II
II	108077-2	X	2AP 132	GAC	Z	PP1/LM		
II	113600-6	X	2AP 133	GAC	Y	PP1/LM		
I	113600-6	X	2AP 134		X	10/100	12	Expended, Langley AFB
I	113600-6	X	2AP 135		Y	10/100	12	Expended, Langley AFB
II	2001730-2		2AP 136R	DEL				Null Bias Problem
	108077-2	X	2AP 137	MSC	Y	1/LM		
	2001730-3		2AP 138R	DEL				BR spare
	108077-2		2AP 139	DEL				BR storage
	2001730-2		2AP 140R+	DEL	Y	20/CM		Launched, recovered (CM-114, Apollo 17)
	108077-4		2AP 141	DEL				Slip ring test
			2AP 142	NR	X	4/CM	201	BR spare
		X	2AP 143	DEL	X	2		
		X	2AP 144	SPE				
			2AP 145	NR	Y	4/CM	201	
			2AP 146	DEL	X	LRN/CM		
		X	2AP 147	DEL				Engineering test unit
			2AP 148	DEL	Z	30/CM	215	

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PIPA

BLOCK	SPERRY P/N	INAC- TIVE UNIT	SERIAL NUMBER	SITE	ASSIGNED UNITS			STATUS/REMARKS
					POS.	IMU	SYSTEM	
II ↓	108077-2		2AP 149	DEL	Y	LRN/CM		Launched, recovered, Apollo 14. MIT IMU Block II
	108077-4		2AP 150†	DEL				
	108077-4		2AP 151	MIT	Z	MIT/6	600	
	108077-4		2AP 152	DEL	Z	LRN/CM		Failed, expended
	108077-2	X	2AP 153	MIT				
	108077-2	X	2AP 154	SPE				
	108077-2	X	2AP 155	DEL	X	5/CM	202	F8 - Iron Bird testing
	108077-4		2AP 156	FRC	Z	3/LM	604	
	108077-2	X	2AP 157	DEL	Y	2		
	108077-4		2AP 158	FRC	Y	3/LM	604	F8 - Iron Bird testing Failed, expended
	108077-4	X	2AP 159	SPE				
	108077-2	X	2AP 160	DEL	Z	2		
	108077-2		2AP 161	DEL	Y	5/CM	202	Launched, expended, LM-1, Apollo 5
	108077-2	X	2AP 162	SPE				
	108077-2	X	2AP 163†		Y	6/LM	603	
	108077-4	X	2AP 164†		X	15/LM	607	Launched, expended, Apollo 12
			2AP 165	DEL	X	35/CM		
		X	2AP 166	MIT				
		X	2AP 167	DEL	Z	5/CM	202	Test article
		X	2AP 168†		X	6/LM	603	
		X	2AP 169	SPE				
	108077-2	X	2AP 170	MIT				Launched, expended, LM-1, Apollo 5
	108077-2	X	2AP 171†		Y	12/LM	614	Apollo 15 - expended
	108077-2	X	2AP 172†		X	12/LM	614	
	108077-4	X	2AP 173	MIT				

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PIPA

BLOCK	SPERRY P/N	INAC- TIVE UNIT	SERIAL NUMBER	SITE	ASSIGNED UNITS			STATUS/REMARKS
					POS.	IMU	SYSTEM	
II ↓	108077-4.	X	2AP 174	SPE				Failed, disassembled
	↓		2AP 175	DEL				BR storage
			2AP 176†	DEL	X	8/CM	204	Launched, returned, CM 101, Apollo 7
		X	2AP 177†		Y	15/LM	607	Launched, expended, Apollo 12
		X	2AP 178	SPE				
	↓		2AP 179†	DEL				Launched, Apollo 15 - recovered, BR storage
			2AP 180†	DEL	X	22/CM	205	Skylab-II, launched, recovered.
	2001730-2	X	2AP 181R	MSC				Failed unit, NASA disposition
	108077-4	X	2AP 182	SPE				
	108077-4		2AP 183	MIT				
	108077-2		2AP 184†	DEL	Z	8/CM	204	Launched, recovered, Apollo 7
	108077-2		2AP 185†	DEL				Launched, recovered, Apollo 14, BR storage
	108077-4		2AP 186	DEL	X	44/CM		
	↓	X	2AP 187	MSC	Z	PP2/CM		
			2AP 188†	DEL				Launched, recovered, Apollo 9, BR storage
			2AP 189	DEL	Y	9/CM		
	↓	X	2AP 190	MSC	X	PP2/CM		
	108077-2	X	2AP 191	SPE				
	108077-4	X	2AP 192†		X	13/LM	610	Launched, expended, Apollo 13
	↓	X	2AP 193	SPE				Failed
			2AP 194	FRC	X	3/LM	604	F8 - Iron Bird testing
			2AP 195†	DEL	X	20/CM		Launched, recovered (CM-114, Apollo 17) Slip ring test

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PIPA

BLOCK	SPERRY P/N	INAC- TIVE UNIT	SERIAL NUMBER	SITE	ASSIGNED UNITS			STATUS/REMARKS
					POS.	IMU	SYSTEM	
II ↓	108077-4	X	2AP 196†		X	11/LM	609	Expended, Apollo 11
	↓	X	2AP 197	SPE				
		X	2AP 198†		Z	15/LM	607	Launched, expended, Apollo 12
	↓	X	2AP 199	DEL				Failed unit
		X	2AP 200†		Z	13/LM	610	Launched, expended, Apollo 13
	108077-2		2AP 201	DEL	X	45/CM		Slip ring test
	108077-4		2AP 202†	DEL				Launched, recovered, CM 104, Apollo 9, BR storage
	↓	X	2AP 203	SPE				Failed, disassembled
			2AP 204	MIT	X	MIT/6	600	MIT IMU Block II
	↓	X	2AP 205	DEL				
		X	2AP 206†		Y	38/LM	613	Launched, expended (LM-12, Apollo 17).
	2001730-2		2AP 207R	DEL				BR storage
	108077-4		2AP 208†	DEL				Launched, recovered, Apollo 9, BR storage
	108077-4		2AP 209	DEL	Z	9/CM		
	108077-4	X	2AP 210†		Y	13/LM	610	Launched, expended, Apollo 13
	108077-2	X	2AP 211	SPE				Failed
	108077-4		2AP 212†	DEL	Y	8/CM	204	Launched, returned, CM-101, Apollo 7
	↓	X	2AP 213†		Z	6/LM	603	Launched, expended, LM-1, Apollo 5
		X	2AP 214	SPE				
			2AP 215	DEL				BR storage
	↓		2AP 216	SPE				
			2AP 217	DEL				
		X	2AP 218	SPE				Assigned to engineering
	2001730-2		2AP 219R	DEL	X	9/CM		Failed, disassembled
	108077-4	X	2AP 220	SPE				

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PIPA

BLOCK	SPERRY P/N	INAC- TIVE UNIT	SERIAL NUMBER	SITE	ASSIGNED UNITS			STATUS/REMARKS
					POS.	IMU	SYSTEM	
II ↓	108077-2	X	2AP 221	SPE				
	108077-2	X	2AP 222†		X	21/LM	611	Launched, expended, Apollo 14
	108077-4	X	2AP 223	SPE				Failed
	108077-2	X	2AP 224	MSC	Y	PP2/CM		
	2001730-2	X	2AP 225R	DEL				Failed unit
	108077-4	X	2AP 226	MIT				Failed unit
	2001730-2	X	2AP 227R	DEL				Failed unit
	108077-4	X	2AP 228†		Z	21/LM	611	Launched, expended, Apollo 14
	108077-2	X	2AP 229	SPE				
	108077-4		2AP 230	DEL	X	26/LM	608	
	108077-2	X	2AP 231	SPE				
	108077-4		2AP 232†	DEL				Launched Apollo 15 - recovered, BR storage
	108077-4		2AP 233†	FRC	Z	18	DFCS-2	Launched, recovered, Apollo 12; F-8
	108077-4	X	2AP 234	SPE				
	2001730-2		2AP 235R	DEL				Program spare, BR storage
	108077-4	X	2AP 236	SPE				
		X	2AP 237†		Z	19/LM	605	Launched, expended, LM-3, Apollo 9
			2AP 238†	DEL	Z	20/CM		Launched, recovered (CM-114, Apollo 17), Slip ring test
		X	2AP 239	MSC				Overheated, expended
		X	2AP 240	MIT				Overheated, expended
			2AP 241	DEL				BR storage
		X	2AP 242	MSC				Overheated, expended
		X	2AP 243	SPE				
	2001730-2		2AP 244R	DEL				BR storage
	108077-4	X	2AP 245	MSC				Overheated, expended

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BLOCK	SPERRY P/N	INAC- TIVE UNIT	SERIAL NUMBER	SITE	ASSIGNED UNITS			STATUS/REMARKS
					POS.	IMU	SYSTEM	
II ↓	2001730-2		2AP 246R	DEL				BR storage
	2001730-2	X	2AP 247R	MIT				Failed unit, for test
	108077-2	X	2AP 248	SPE				
	108077-4	X	2AP 249†		Y	11/LM	609	Expended, Apollo 11
	108077-2	X	2AP 250X	SPE				Prototype — failure analysis
	2001730-2	X	2AP 251R	MIT				For test
	108077-4		2AP 252†	DEL	Z	22/CM	205	Skylab-II, launched, recovered.
	108077-2	X	2AP 253	MIT				
	108077-4		2AP 254†	DEL				Launched, returned, IMU 23/CM 103, Apollo 8, BR storage
	2001730-2		2AP 255R	DEL				Program spare, BR storage
	108077-4	X	2AP 256	DEL				Failed unit
	108077-4	X	2AP 257	SPE				
	2001730-2		2AP 258R	DEL				Program spare, BR storage
	108077-4	X	2AP 259	MIT				
		X	2AP 260	DEL				Failed unit
			2AP 261	DEL	Y	30/CM	215	
		X	2AP 262†		X	38/LM	613	Launched, expended (LM-12, Apollo 17)
		X	2AP 263	DEL				Failed unit
	2001730-2		2AP 264R	NR	Y	31/CM	221	Skylab-III, launched, recovered
	2001730-2		2AP 265R†	DEL				Launched Apollo 15, recovered, BR storage
	2001730-2	X	2AP 266R	MIT				
	108077-4		2AP 267	DEL	Z	35/CM		
	108077-4		2AP 268	DEL	Y	45/CM		Slip ring test
	2001730-2		2AP 269R†	DEL	Y	22/CM	205	Skylab-II, launched, recovered.
	108077-4	X	2AP 270	SPE				

PIPA

BLOCK	SPERRY P/N	INAC- TIVE UNIT	SERIAL NUMBER	SITE	ASSIGNED UNITS			STATUS/REMARKS
					POS.	IMU	SYSTEM	
II ↓	108077-4		2AP 271	DEL				Testing
		X	2AP 272†		X	33/LM	615	LM-11, Apollo 16, expended
		X	2AP 273	SPE				
			2AP 274†	DEL				Launched, returned, IMU 23/CM 103, Apollo 8, BR storage
			2AP 275	DEL	Z	45/CM		Slip ring test
			2AP 276	DEL	Y	25/CM	213	
			2AP 277†	DEL				
	2001730-2	X	2AP 278R	MIT				Apollo 16, launched 4/72, recovered, BR storage
	2001730-2	X	2AP 279R	DEL				For test
	108077-4	X	2AP 280	SPE				Failed unit
	108077-4	X	2AP 281	SPE				
	108077-4		2AP 282	DEL	Z	25/CM	213	
	108077-2		2AP 283	DEL	Z	26/LM	608	
	2001730-2		2AP 284R	DEL	Y	35/CM		
	108077-4	X	2AP 285†		Y	19/LM	605	Launched, expended, LM-3, Apollo 9
	2001730-3	X	2AP 286R†		Z	11/LM	609	Expended, Apollo 11
	108077-4		2AP 287†	DEL				Apollo 16, launched 4/72, recovered, BR storage
			2AP 288	DEL				Null Bias Problem
		X	2AP 289†		X	19/LM	605	Launched, expended, LM-3, Apollo 9
		X	2AP 290†		Z	27/LM	606	Launched, Apollo 10, expended
		X	2AP 291†		Y	27/LM	606	Launched, Apollo 10, expended
		X	2AP 292†		Z	12/LM	614	Apollo 15 - expended
	2001730-3		2AP 293R	DEL				BR storage
	108077-4	X	2AP 294†		Z	33/LM	615	LM-11, Apollo 16, expended
	108077-4		2AP 295†	FRC	Y	32	DFCS-1	Launched, recovered, Apollo 13; Iron Bird

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BLOCK	SPERRY P/N	INAC- TIVE UNIT	SERIAL NUMBER	SITE	ASSIGNED UNITS			STATUS/REMARKS
					POS.	IMU	SYSTEM	
II ↓	108077-4 ↓	X	2AP 296	DEL	X	24/CM	201	Slip ring test
			2AP 297	MIT				For test
			2AP 298	NR	Z	4/CM		
		X	2AP 299	SPE				
			3AP 300	DEL				BR storage
	2001730 ↓	X	3AP 301	MIT			Z	Failed unit
		X	3AP 302	DEL	Z	36/LM		Slip ring test
			3AP 303+	DEL				Launched, recovered, Apollo 13
		X	3AP 304	SPE				
	2001730-2	X	3AP 305R	DEL				Failed unit
	2001730		3AP 306	DEL			Y	BR storage
	2001730		3AP 307	DEL	Y	44/CM		
	2001730-3	X	3AP 308R		Y	17/CM		Flown unit, Apollo 11
	2001730		3AP 309+	DEL				Apollo 16, launched 4/72, recovered, BR storage
	2001730	X	3AP 310+		X	27/LM	606	Launched, Apollo 10, expended
	2001730		3AP 311	MIT			DSCS-2	Failed unit
	2001730-2	X	3AP 312R	MIT				
	2001730		3AP 313	DEL	Y	24/CM		Slip ring test
			3AP 314	DEL	Y	26/LM		
			3AP 315+	FRC	Y	18		Launched, recovered, Apollo 12; F-8
			3AP 316	DEL			X	BR storage
	2001730-3	X	3AP 317R		X	17/CM		Flown unit, Apollo 11
	2001730		3AP 318	DEL	Z	37/LM		
	2001730		3AP 319	DEL				BR spare
	2001730		3AP 320+	DEL				Launched, recovered, Apollo 10, BR storage

PIPA

BLOCK	SPERRY P/N	INAC- TIVE UNIT	SERIAL NUMBER	SITE	ASSIGNED UNITS			STATUS/REMARKS
					POS.	IMU	SYSTEM	
II ↓	2001730		3AP 321 ⁺	FRC	Z	32	DFCS-1	Launched, recovered, Apollo 13; Iron Bird
	2001730-3		3AP 322R	FRC	X	18	DFCS-2	Launched, recovered, Apollo 12; F-8
	2001730		3AP 323	DEL				BR storage
	2001730		3AP 324	DEL				BR storage
	2001730		3AP 325	DEL	X	30/CM	215	
	2001730-2		3AP 326R	DEL	Z	44/CM		
	2001730		3AP 327	DEL	Z	24/CM		Slip ring test
		X	3AP 328	DEL				Failed unit
		X	3AP 329	SPE				
		X	3AP 330	SPE				
		X	3AP 331	SPE				
			3AP 332 ⁺	DEL				Launched, recovered Apollo 10, BR storage
			3AP 333	KSC	X	34/CM	222	Installed in CM 118 (Skylab 4)
			3AP 334	KSC	Y	34/CM	222	Installed in CM 118 (Skylab 4)
			3AP 335	KSC	Z	34/CM	222	Installed in CM 118 (Skylab 4)
		X	3AP 336	SPE				
			3AP 337	DEL				BR storage
		X	3AP 338 ⁺		Y	33/LM	615	LM-11, Apollo 16 - expended
		X	3AP 339 ⁺		Z	38/LM	613	Launched, expended (LM-12, Apollo 17)
			3AP 340 ⁺	DEL				Launched, recovered, Apollo 10, BR storage
		X	3AP 341 ⁺		Z	17/CM	210	Flown unit, Apollo 11

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BLOCK	SPERRY PART NUMBER	SERIAL NUMBER	SITE	ASSIGNED UNITS			STATUS/REMARKS
				POS.	IMU	SYSTEM	
NOTE: 1) The following comments explain the block designation and Sperry P/N's contained in the PIPA status and location section. The block designation contained in this section specifies the utilization or intended utilization of the PIP as being either for (I) a block I G & N system or (II) for a block II or LM G & N system. The NASA P/N's corresponding to these are: Block I — NASA No. 1000013 Block II, LM — NASA NO. 2018844 The Sperry P/N specifies the configuration of the GFE unit as built by Sperry Gyroscope Company. 2) † — following unit serial number designates a flown unit.							

SECTION IV

IMU LOCATION AND INSTRUMENT ASSIGNMENT

BLOCK I

IMU S/N	SYSTEM S/N	SITE	IRIG S/N			PIPA S/N		
			X	Y	Z	X	Y	Z
<u>Block I MIT Systems</u>								
4		MIT	3A 30	3A 7	2A 28	2AP 64	2AP 51	2AP 81
5		MIT	1A 10	2A 23	4A 22	2AP 94	2AP 98	2AP 95
<u>Block I Series 0</u>								
LRN	NA	MSC	2A 1	2A 2	1A 5	1AP 4	1AP 14	1AP 9
2	6	NR	2A 14	2A 7	2A 6	1AP 23	1AP 22	2AP 43
3	7	MSC	2A 12	2A 9	2A 10	1AP 25	2AP 39	2AP 44
4	8	MSC	2A 18		2A 17	2AP 53	2AP 52	2AP 46
5	20	MSC		2A 16	2A 15	2AP 28	2AP 29	2AP 31
<u>Block I Series 50</u>								
6	SP	MSC				2AP 54	2AP 56	2AP 57
1	17	MSC		3A 10		2AP 62	2AP 84	2AP 66
2		DEL						
<u>Block I Series 100</u>								
3	110	MSC	3A 3	5A 16	2A 26	2AP 34	2AP 35	2AP 42
4	123	MSC	3A 27	5A 9	4A 23		2AP 65	
5	111	MIT	4A 19	4A 16	4A 25	2AP 47	2AP 45	2AP 50
6	109	MSC		5A 5		2AP 30	2AP 60	2AP 33
7	SP	MSC	4A 8	3A 25				
8	SP	MSC	3A 24	4A 7	4A 24			
9		MSC						
10	12	Langley AFB	5A 3	4A 9	4A 3	2AP134	2AP135	2AP114
11	122	Exhibit						

B. IMU LOCATION AND INSTRUMENT ASSIGNMENT

BLOCK II ACTIVE -

IMU S/N	SYSTEM S/N	VEHICLE	SITE	IRIG S/N			PIPA S/N		
				X	Y	Z	X	Y	Z
9	DFCS-2	F-8	DEL	8A142	8A136	8A143	2AP219R	2AP189	2AP209
18			FRC	7A27	7A85 †	7A69 †	3AP322R†	3AP315 †	2AP233†
20†			DEL	9A40	9A14	9A22	2AP195 †	2AP140R†	2AP238 †
22†			DEL	8A205†	8A206†	8A204†	2AP180 †	2AP269R†	2AP252 †
25	205	CM-116	DEL	8A128†	8A121†	8A120†	2AP110R	2AP276	2AP282
30	213	CM-119	DEL	8A114†	8A115†	8A109†	3AP325	2AP261	2AP148
31	215	CM-111	DEL	8A211†	8A212†	8A210†	2AP82R	2AP264R	2AP91R
32	221	CM-117	NR	7C91	7C206	7B34	2AP78A	2AP295 †	3AP321 †
34	DFCS-1	Iron Bird	FRC	8A117†	8A102	8A101	3AP333	3AP334	3AP335
35	222	CM-118	KSC	10A1	10A7	10A5	2AP165	2AP284R	2AP267
44			DEL	8A208	8A209	8A207	2AP186	3AP307	3AP326R
45†			DEL	7A52 †	7A128†	7C190†	2AP201	2AP268	2AP275
<u>Block II MIT System</u>									
2	200		MIT	814*	100A*	102*	2AP131	2AP113	2AP108
SV	Servo		MIT	84*	86B*	94*			
6	600		MIT	99A*	92*	PPDI**	2AP204	2AP125	2AP151

*MIT-build IRIG's

**Nortronics-built IRIG

† Flown Units

BLOCK II INACTIVE -

IMU S/N	SYSTEM S/N	VEHICLE*	SITE	IRIG S/N			PIPA S/N		
				X	Y	Z	X	Y	Z
LRN	NA		DEL	7A169	7C33	4C28	2AP146	2AP149	2AP152
PP1	-		GAC	7A134	7A41	7C136	2AP130	2AP133	2AP132
PP2	NA		MSC	6A21	7A76	7A68	2AP190	2AP224	2AP187
1			MSC	6A22	6A20	6A16	3AP127	3AP137	2AP128
2	602		DEL	7A5	7A24	7A3	2AP143	2AP157	2AP160
3	604		FRC	7A73	7A175	3C6	2AP194	2AP158	2AP156
4	201		NR	7A135	7B174	7B192	2AP142	2AP145	2AP298
5	202	CM-098	DEL	7A4	7A193	7A12	2AP155	2AP161	2AP167
6†	603	LM-1	Expended	7A103	7A132	7A81	2AP168	2AP163	2AP213
7†	214	CM-110	DEL						
8†	204	CM-101	DEL				2AP176	2AP212	2AP184
10	207		DEL	7C109	7A112	7A123			
11†	609	LM-5	Expended	8A110	8A108	8A106	2AP196	2AP249	2AP286R
12†	614	LM-10	Expended	8A201	8A203	8A202	2AP172	2AP171	2AP292
13†	610	LM-7	Expended	8A127	8A127	8A132	2AP192	2AP210	2AP200
14†	209	CM-104	DEL						
15†	607	LM-6	Expended	8A113	8A118	8A116	2AP164	2AP177	2AP198
17†	210	CM-107	NR	4C18	4C1	4C26	3AP317R	3AP308R	2AP341
19†	605	LM-3	Expended	7A98	7A83	7A130	2AP289	2AP285	2AP237
21†	611	LM-8	Expended	8C124	8A139	8A122	2AP222	2AP92R	2AP228
23†	208	CM-103	DEL						
24			DEL	9A42	9A41	9A7	2AP296	3AP313	3AP327
26	608	LM-2	DEL	7C147	7A84	7A148	2AP230	3AP314	2AP283
27†	606	LM-4	Expended	7A107	7A204	7A53	3AP310	2AP291	2AP290
28			DEL						
29	216	CM-113	DEL						
33†	615	LM-11	Expended	8A138	8A135	8A137	2AP272	3AP338	2AP294
36			DEL	9A31	9A25	9A28	2AP104R	2AP107R	3AP302
37	Display	LM-9	KSC				2AP79A	2AP123R	3AP318
38†	613	LM-12	Expended	8A130	8A134	8A131	2AP262	2AP206	3AP339
39			DEL						
46†	211	CM-108	NR						
47†	212	CM-109	DEL						
48†	217	CM-112	DEL						

† Systems flown

* For IMU's which have flown, this column indicates the vehicle in which the flight was made.

SECTION V

G & N SYSTEM LOCATION — IMU AND SPACECRAFT ASSIGNMENT

BLOCK	SYSTEM S/N	IMU S/N	SPACECRAFT	SITE	REMARKS
Block I Series 0	LRN 6 7 8 20	LRN 2 3 4 5		MSC NR MSC MSC MSC	
Block I Series 50	17	1		MSC	Launched and recovered 8/26/66
Block I Series 100	12 109 110 122 123	10 6 3 11 4	CM 020	Langley AFB MSC MSC NR DEL	Expended Launched and recovered 11/9/67 Launched and recovered 4/14/68
Block II MIT Systems	200 Servo 600	2 5V 6		MIT MIT MIT	

BLOCK	SYSTEM S/N	IMU S/N	SPACECRAFT	SITE	REMARKS
Block II Command Module	201	4	House	NR	G & C Lab
	202	5	CM 098	DEL	Vehicle inactive
	204	8	CM 101	DEL	Launched 10/11/68, Apollo, recovered
	205	22	CM 116	DEL	Launched 5/25/73, Skylab-II
	206	45	CM 106	DEL	Launched 18 May 1969, Apollo 10, recovered
	207	10		DEL	Engineering Laboratory
	208	23	CM 103	DEL	Launched 12/21/68, Apollo 8, recovered
	209	14	CM 104	DEL	Launched 3/69, Apollo 9, recovered
	210	17	CM 107	NR	Apollo 11, launched 7/69, recovered
	211	46	CM 108	DEL	Apollo 12, launched 11/69, recovered
	212	47	CM 109	DEL	Apollo 13, flown 4/70, recovered
	213	25	CM 119	DEL	SKY LAB backup
	214	7	CM 110	DEL	Apollo 14, Launched 1/71, recovered
	215		CM 111		Apollo-Soyuz Docking Mission
	216	29	CM 113	DEL	Apollo 16, launched 4/72, recovered
	217	48	CM 112	DEL	Apollo 15, Launched 7/71, recovered
	218	20	CM 114	DEL	Apollo 17, Launched 12/72, recovered
	221	31	CM 117		Skylab III, launched, recovered
	222	34	CM 118	KSC	Skylab IV
Block II Lunar Module	602	2		DEL	Inactive, IMU in bondroom
	603	6	LM 1		Launched 1/22, vehicle expended, Apollo 5
	604	3		FRC	
	605	19	LM 3		Launched 3/69, vehicle expended, Apollo 9
	606	27	LM 4		Launched 18 May 1969, Apollo 10, expended
	607	15	LM 6		Apollo 12, expended 11/69
	608	26	LM 2	DEL	
	609	11	LM 5		Expended unit, Apollo 11, 7/69
	610	13	LM 7		Apollo 13, expended 4/70
	611	21	LM 8		Apollo 14, Expended 2/71
	613	38	LM 12		Apollo 17, expended 12/72
	614	12	LM 10		Apollo 15, expended 7/71
	615	33	LM 11		Apollo 16, expended 4/72

