

IMP H
COMMAND

Revision B

<u>Tone</u>	<u>PCM</u>	<u>VIA</u>	<u>FUNCTION</u>	<u>VERIFICATION</u>
19T	19P	Deployment Programmer	ACS Booms Deploy, No. 1 and No. 2	DP No. 3-5, DP No. 3-6
20T	20P	Deployment Programmer	TRF Antenna and Magnetometer Booms Deploy	DP No. 3-8, DP No. 3-7
21T	21P	Deployment Programmer	Antenna Power On	DP No. 2-10
22T	22P	Deployment Programmer	Antennas Power Off	DP No. 2-10
			Antennas Deploy Direction (Forward)	DP No. 2-11
			Antennas Disabled	DP 2-13, 2-14, 2-15, 2-16
23T	23P	Deployment Programmer	Antennas Deploy Direction (Reverse)	DP No. 2-11
24T	24P	Deployment Programmer	EFM Antenna #1 Able	DP No. 2-13
25T	25P	Deployment Programmer	EFM Antenna #2 Able	DP No. 2-14
26T	26P	Deployment Programmer	EFM Antenna #3 Able	DP No. 2-15
27T	27P	Deployment Programmer	EFM Antenna #4 Able	DP No. 2-16
28T	28P	Deployment Programmer	Kick Motor Disable Firing	DP No. 2-12
29T	29P	Deployment Programmer	Kick Motor Enable Firing	DP No. 2-12
30T	30P	Deployment Programmer	Kick Motor Fire	Range and Range Rate Data
31T	31P	ACS Electronics	ACS On	DP No. 2-19
32T	32P	ACS Electronics	ACS Off/OA Mode/Reset NEWS	DP No. 2-19

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33T	33P	ACS Electronics	Spin Up	OA Data
34T	34P	ACS Electronics	Despin	OA Data
35T	35P	ACS Electronics	ACS Mode	DP No. 2-20
36T	36P	ACS Electronics	Orient North	OA Data
37T	37P	ACS Electronics	Orient East	OA Data
38T	38P	ACS Electronics	Orient West	OA Data
39T	39P	ACS Electronics	Orient South	OA Data

40T	40P	PCM Transmitter	T/M Data to Analog Transmitter	T/M Data
41T	41P	PCM Transmitter	T/M Data to PCM Transmitter	T/M Data
42T		R & RR and PCM Receiver	Range and Range Rate Reset	T/M Signal

Frank - Low Energy Particles (IOE)

43T	42P	Experiment Programmer	Power On	Experiment Data
44T		Experiment Programmer	Power Off	Experiment Data

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<u>McDonald - Cosmic Rays (GME)</u>				
45T	43P	Experiment Programmer	MED Power On	Experiment Data
46T	44P	Experiment Programmer	LED Power On	Experiment Data
47T	45P	Experiment Programmer	LET II Power On	Experiment Data
48T		Experiment Programmer	MED Power Off	Experiment Data
49T		Experiment Programmer	LED Power Off	Experiment Data
50T		Experiment Programmer	LET II Power Off	Experiment Data
51T		Experiment Programmer	MED Heater On	AP No. 36
52T		Experiment Programmer	MED Heater Off	AP No. 36
<u>Simpson - Cosmic Ray (CHE)</u>				
53T	46P	Experiment Programmer	Power On/Reset	Status Bits, Experiment Data
54T		Experiment Programmer	Power Off	Status Bits, Experiment Data
55T		CHE	Set Bit 1	Status Bits, Experiment Data
56T		CHE	Set Bit 2	Status Bits, Experiment Data

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			<u>Barne - Plasma (LAP)</u>	
57T	47P	Experiment Programmer	Power On/Reset	Status Bits, Experiment Data
58T		Experiment Programmer	Power Off	Status Bits, Experiment Data
59T	61P	DPL Programmer/LAP	Pyro Fire/Mode Select	Status Bits, Experiment Data
18T	18P	DPL Programmer/LAP	Bypass Mode	Status Bits, Experiment Data
19T	19P	DPL Programmer/LAP	EM Level Select	Status Bits, Experiment Data
20T	20P	DPL Programmer/LAP	Analyze On/Off, 3D On/Off	Status Bits, Experiment Data

Ness - Magnetic Fields (GNF)

60T	48P	Experiment Programmer	Power On/In Flight Calibration	Status Bits, Experiment Data
61T		Experiment Programmer	Power Off	Status Bits, Experiment Data
62T		GNF	Auto Range/Normal Mode	Status Bits, Experiment Data
63T		GNF	Fixed Range/Step	Status Bits, Experiment Data
64T		GNF	Flip Command	Status Bits, Experiment Data
65T		GNF	Bypass Mode	Status Bits, Experiment Data

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<u>Krimigis - Charged Particles (APP)</u>				
66T	49P	Experiment Programmer	Power On/Reset	Experiment Data, AP No. 1
67T		Experiment Programmer	Power Off	Experiment Data, AP No. 1
68T		APP	H. V. #1 On	AP No. 1 (Commuted)
69T		APP	H. V. #2 On	AP No. 1 (Commuted)
70T		APP	Gain #A Down	AP No. 1 (Commuted)
71T		APP	Gain #B Down	AP No. 1 (Commuted)
123T		APP	Calibrate Disable	AP No. 1 & DP 3-21
<u>Williams - Particle Experiment (GWP)</u>				
72T	50P	Experiment Programmer	Power On/Initiate, Execute	Experiment Data, DP No. 2-25 and AP No. 9 (Commuted)
73T		Experiment Programmer	Power Off	Experiment Data
74T		GWP	Pulse One	DP No. 2-25 & AP No. 9 (Commuted)
75T		GWP	Pulse Zero	DP No. 2-25 & AP No. 9 (Commuted)

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			<u>Bridge - Plasma (MAP)</u>	
76T	51P	Experiment Programmer	Power On/Acquisition Mode	Experiment Data, DP No. 2-26
77T		Experiment Programmer	Power Off	Experiment Data
78T		MAP	Tracking Mode, No Threshold	DP No. 2-27
79T		MAP	Tracking Mode, Threshold #1	DP No. 2-28
80T		MAP	Tracking Mode, Threshold #2	DP No. 2-29
81T		MAP	Non Tracking Mode	DP No. 2-26 thru DP No. 2-30
82T		MAP	Calibration Mode	DP No. 2-30
<u>Stone - Electron Isotopes (CAI)</u>				
83T	52P	Experiment Programmer	Power On/Command L0	Status Bits, Experiment Data and DP No. 3-9
84T		Experiment Programmer	Power Off	Status Bits, Experiment Data and DP No. 3-9
85T		CAI	Command L1	Status Bits, Experiment Data
86T		CAI	Command A1	Status Bits, Experiment Data
87T		CAI	Command A2	Status Bits, Experiment Data
88T		CAI	Command A3	Status Bits, Experiment Data
89T		CAI	Command A4	Status Bits, Experiment Data

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			<u>Cline - Solar Electrons (GCE)</u>	
90T	53P		Experiment Programmer Power On/Reset	T/M DS 1, 2, 3, 4
91T			Experiment Programmer Power Off	T/M DS 1, 2, 3, 4
92T			GCE Change Gain	T/M DS 1, 2, 3, 4
93T			GCE Experiment Mode	T/M DS 1, 2, 3, 4
<u>Gloeckler - Ion and Electron (MAE)</u>				
97T	54P		Experiment Programmer Power On	Experiment Data
98T			Experiment Programmer All Power Off	Experiment Data
99T			Experiment Programmer High Voltage Power On	AP No. 15 (Commuted)
100T			MAE Sun Gate Mode	Status Bit, Experiment Data
101T			MAE Detector Bias On	AP No. 47
102T			MAE Detector Bias Off	AP No. 47
	55P		MAE UJET Power On	DP No. 3-18
	*62P		MAE UJET Power Off	DP No. 3-18

*Asterisk denotes a change in function and/or nomenclature from previous issue.

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			<u>Ogilvie - Ion Composition (GOP)</u>	
103T	56P	Experiment Programmer	Power On/Normal Mode	DP 2-31/DP 2-36
104T		GOP	Power Off	DP 2-31
105T		GOP	Command No. 1 High Voltage Stepper	AP No. 48
106T		GOP	Command No. 2 High Voltage On	AP No. 48
107T		GOP	Command No. 3 High Voltage Off	AP No. 48
118T		GOP	Full Scan Mode	DP No. 2-36

Scarf - Plasma Wave (TRF)

112T	57P	Experiment Programmer	Power On/Reset	AP No. 5 / DP No. 3-10, 3-11
113T		Experiment Programmer	Power Off	AP No. 5
114T		TRF	LFWF 1 E/B Switch	DP No. 3-10
115T		TRF	NB 2 a ₁ Inhibit	DP No. 3-11

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			<u>Goldsmith - Data System Test (IE13)</u>	
94T		Experiment Programmer	Power On	TBD
95T		Experiment Programmer	Power Off	TBD
96T		IE13	Command DST Reset	TBD
108T		IE13	Command DST Select Format 2	TBD
109T		IE13	Command DST Select Variable Format	
110T		IE13	Command DST High Bit Rate	TBD
111T		IE13	Command DST Select Bi-Phase Mode	TBD
	64P	IE13	TBD	TBD

Maag and Slifer - Thermal & Solar Test (IE12 & IP10)

*116T		Experiment Programmer	Power On	DP 2-17
*117T		Experiment Programmer	Power Off	DP 2-17

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119T		Spare		
120T	58P	Experiment Programmer	Reset - All Experiment Power Off	S/C TM
121T	59P	Experiment Programmer	Battery Heater On	DP No. 2-18/AP No. 19
122T	60P	Experiment Programmer	Battery Heater Off	DP No. 2-18/AP No. 19
124T	*63P	Deployment Programmer	Spare Pyro	
125T		Spare		

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