



NATIONAL AERONAUTICS AND SPACE ADMINISTRATION  
MANNED SPACECRAFT CENTER  
HOUSTON, TEXAS 77058

IN REPLY REFER TO: 70-FS55-77


MAR 2 1970

MEMORANDUM TO: Apollo Spacecraft Program Office  
Attention: PD7/Richard H. Kohrs

FROM : FS/Chief, Flight Support Division

SUBJECT : Final Apollo 13 (Mission H2) prelaunch erasable load  
(MANCHE 72 Rev 3)

1. Enclosure 1 consists of the final values for the parameters in the Apollo 13 (Mission H2) prelaunch erasable load for the CMC.
2. The number to the left of the parameter mnemonic denotes the number of revisions to the value of the corresponding parameter that have been incorporated in publications of the Apollo 13 erasable load.
3. A single or double star (\* or \*\*) next to a parameter mnemonic denotes that it is also in the inflight erasable load. These parameters would have to be verified or reloaded in order to completely initialize the CMC in orbit. A single star denotes loading by ground uplink; a double star denotes loading by the astronaut via the DSKY.
4. Enclosure 2 is the inflight erasable load in uplink format. All values in the inflight erasable load are consistent with the values in the prelaunch erasable load.
5. Enclosure 3 consists of planned changes to the Apollo 13 erasable load, with values when known.
6. Questions or comments regarding erasable loads should be directed to Mr. J. W. Jurgensen, extension 2111.

  
Lynwood C. Dunseith

Enclosures 3

FS55:JWJurgensen:jvm

FINAL H-2 PRELAUNCH ERASABLE LOAD (MANCHE72 REV3)

REV	MNEMONIC	ADDR	OCTAL	SF	ENGINEERING VALUE	VALUE IN AGC UNITS
-----	----------	------	-------	----	-------------------	--------------------

	FLAGWRD1+	0	0075 00000	-0		
--	-----------	---	------------	----	--	--

	FLAGWRD3+	0	0077 00000	-0		
--	-----------	---	------------	----	--	--

	FLAGWRD8+	0	0104 00200	-0		
--	-----------	---	------------	----	--	--

1	* EMDOT	+	0 0110 01164	3	6.760000000+001 LBS/SEC	3.066284421-001 KG/CS
---	---------	---	--------------	---	-------------------------	-----------------------

2	PIPTIME	+	0 1204 01665 1205 22560	28	1.555800000+007	1.555800000+007
---	---------	---	----------------------------	----	-----------------	-----------------

PREDICTED VALUE OF AGC CLOCK AT L/O 43p13

	PADLNG	+	0 1263 30653 1264 23562	0	7.760996295-001	7.760996295-001
--	--------	---	----------------------------	---	-----------------	-----------------

PAD 39A

*	PGNCSALT+	0	1272 00000 1273 00055	29	2.933070866+002 FT	8.940000000+001 M
---	-----------	---	--------------------------	----	--------------------	-------------------

FINAL H-2 PRELAUNCH ERASABLE LOAD (MANCHE72 REV3)

REV	MNEMONIC	ADDR	OCTAL	SF	ENGINEERING VALUE	VALUE IN ACC UNITS
*	CDUCHKWD+	0 1341	00005	14	5.000000000+000	5.000000000+000 CS
*	RTED1	+ 0 1345	06510	3	1.660263700+000	1.660263700+000
			1346 07025			
*	DVTHRESH+	0 1347	00620	-2	2.000000000+000 FT/SEC	6.096000000-003 M/CS
*	HORIZONTAL+	0 1350	00000	29	2.400000000+001	2.400000000+004
			1351 27340			
*	ALTVAR	+ 0 1352	37723	-16	1.521687955-005	1.521687955-005
FOR MAXIMUM VALUE OF IMUVAR + ALTVAR						
1 *	PRIASY	+ 0 1452	77316	-6		-2.908706665-004
1 *	PIPASCFX+	0 1453	74561	-9		-2.000331879-004
*	PPIASY	+ 0 1454	77143	-6		-3.929138184-004
1 *	PIPASCFY+	0 1455	74705	-9		-1.000196075-004

FINAL H-2 PRELAUNCH ERASABLE LOAD (MANCHE72 REV3)

REV	MNEMONIC	ADDR	OCTAL	SF	ENGINEERING VALUE	VALUE IN AGC UNITS
1 *	PPIASZ	+ 0	1456 77667	-6		-6.866455078-005
1 *	PIPASCFZ	+ 0	1457 71220	-9		-4.099607468-004
1 *	NPDY	+ 0	1460 77646	-5		-1.697540283-004
	* NPDY	+ 0	1461 77332	-5		-5.588531494-004
1 *	NBDZ	+ 0	1462 76617	-5		-1.190185547-003
1 *	ADIAZ	+ 0	1463 00710	-3		3.479003906-003
1 *	ADIAZ	+ 0	1464 00023	-3		1.449584961-004
1 *	ADIAZ	+ 0	1465 00665	-3		3.334045410-003
1 *	ADSPAZ	+ 0	1466 77731	-3		-2.899169922-004
1 *	ADSRAY	+ 0	1467 00000	-3		0.000000000+000
1 *	ADSRAZ	+ 0	1470 77615	-3		-8.697509766-004
2 *	TEPHEM	+ 0	1705 00011	42	2.445120000+009	2.445120000+009
			1707 03366			
			1710 11000			

TEPHEM TO MIDNIGHT PRIOR TO APRIL 10 1970



FINAL H-2 PRELAUNCH EPASABLE LOAD (MANCHE72 REV3)

REV	MNEMONIC	ADDR	OCTAL	SF	ENGINEERING VALUE	VALUE IN AGC UNITS
1 *	A70	+ 0	1711 30623 1712 37367	0	2.788765975+002	7.746572159-001
1 *	UNITW	+ 0	1713 00000 1714 23066	0	3.644078970-005	3.644078970-005
1 *	UNITW	+ 2	1715 00000 1716 26474	0	4.313886166-005	4.313886166-005
1 *	UNITW	+ 4	1717 37777 1720 37777	0	9.999999963-001	9.999999963-001
2	REFSMAT+	0	1735 12705 1736 00440	1	6.803000010-001	6.803000010-001

REV 3 OF E LOAD TAPE

2	REFSMAT+	2	1737 06436 1740 27025	1	4.100000010-001	4.100000010-001
---	----------	---	--------------------------	---	-----------------	-----------------

TEPHEM TO MIDNIGHT PRIOR TO APRIL 10 1970

FINAL H-2 PRELAUNCH ERASABLE LOAD (MANCHE72 REV3)

REV	MNEMONIC	ADDR	OCTAL	SF	ENGINEERING VALUE	VALUE IN AGC UNITS
1 *	EK1VAL	+ 0	1767 00001 1770 24315	23	1.884800000+004 LBF SEC	8.384008100+002 KG M/CS
1 *	EK2VAL	+ 0	1771 00000 1772 22274	23	6.606500000+003 LBF SEC	2.938717610+002 KG M/CS
*	EK3VAL	+ 0	1773 00552	9	2.545450000+004 LBF	1.132272571+001 KG M/CS2
1 *	FANG	+ 0	1774 02210 1775 25231	7	2.038500000+004 LBF	9.067699762+000 KG M/CS2
*	E3J22R2M+	0	1776 12160	58	9.204790479+016	9.204790479+016 M5/CS2
*	E32C31RM+	0	1777 03363	80	1.312892560+023	1.312892560+023 M6/CS2
*	WRENDPOS+	0	2000 00137	19	1.000000000+004 FT	3.048000000+003 M
*	WRENDVFL+	0	2001 00763	0	1.000000000+001 FT/SEC	3.048000000-002 M/CS
*	RMAX	+ 0	2002 00023	19	2.000000000+003 FT	6.096000000+002 M
*	VMAX	+ 0	2003 00001	7	2.000000000+000 FT/SEC	6.096000000-003 M/CS

FINAL H-2 PRELAUNCH ERASABLE LOAD (MANCHE72 REV3)

REV	MNEMONIC	ADDR	OCIAL	SF	ENGINEERING VALUE	VALUE IN ACC UNITS
*	WORBFCS	+ 0	2004 00000	19	0.000000000+000 FT	0.000000000+000 M
*	WORPVFL	+ 0	2005 00000	7	0.000000000+000 FT/SEC	0.000000000+000 M/CS
*	S22WSURL	+ 0	2006 00471	19	3.280839895+004 FT	1.000000000+004 M
*	RPVAR	+ 0	2007 00364 2010 04400	28	4.000000000+006	4.000000000+006 M2
1 *	504LM	+ 0	2011 77772 2012 46750	0	-3.529451787-004	-3.529451787-004 RAD
1 *	504LM	+ 2	2013 77773 2014 57473	0	-2.753883600-004	-2.753883600-004 RAD
1 *	504LM	+ 4	2015 00006 2016 06361	0	3.785528243-004	3.785528243-004 RAD
1 *	FMSALT	+ 0	2017 00002 2020 26244	29	2.900010000+005 FT	8.839230480+004 M

FINAL H-2 PRELAUNCH ERASABLE LOAD (MANCHE72 REV3)

REV	MNEMONIC	ADDR	OCTAL	SF	ENGINEERING VALUE	VALUE IN AGC UNITS
* ATIGINC + 0		2021 00001		28	3.000000000+000 MIN	1.800000000+004 CS
		2022 03120				
* PTIGINC + 0		2023 00001		28	3.000000000+000 MIN	1.800000000+004 CS
		2024 03120				
2 * RLS + 0		2025 00311		27	5.423410433+006 FT	1.653055500+006 M
		2026 31177				
2 * RLS + 2		2027 77700		27	-1.708351378+006 FT	-5.207055000+005 M
		2030 55774				
2 * RLS + 4		2031 77762		27	-3.645751312+005 FT	-1.111225000+005 M
		2032 55732				
1 * TIMEMO + 0		2033 00011		42	2.520715962+009	2.520715962+009 CS
		2034 14374				
		2035 11272				

FINAL H-2 PRELAUNCH ERASABLE LOAD (MANCHE72 REV3)

REV	MNEMONIC	ADDR	OCTAL	SF	ENGINEERING VALUE	VALUE IN AGC UNITS
1 *	VECOEM	+ 0	2036	77767-203	-3.804196602-065	-3.804196602-065 M/CS9
			2037	77461		
1 *	VECOEM	+ 2	2040	00006-203	2.962264762-065	2.962264762-065 M/CS9
			2041	07520		
1 *	VECOEM	+ 4	2042	00003-203	1.463919346-065	1.463919346-065 M/CS9
			2043	02526		
1 *	VECOEM	+ 6	2044	00015-177	4.143419700-057	4.143419700-057 M/CS8
			2045	00107		
1 *	VECOEM	+ 8	2046	00022-177	6.033388334-057	6.033388334-057 M/CS8
			2047	35751		
1 *	VECOEM	+10	2050	00012-177	3.393663041-057	3.393663041-057 M/CS8
			2051	24655		
1 *	VECOEM	+12	2052	00077-151	1.361771010-048	1.361771010-048 M/CS7
			2053	25776		

FINAL H-2 PRELAUNCH FPASABLE LOAD (MANCHE72 REV3)

REV	MNEMONIC	ADDR	OCTAL	SF	ENGINEERING VALUE	VALUE IN AGC UNITS
1 *	VECOEM	+14	2054 77747-151 2055 50503		-5.287845729-049	-5.287845729-049 M/CS7
1 *	VECOEM	+16	2056 77764-151 2057 75066		-2.371360897-049	-2.371360897-049 M/CS7
1 *	VECOEM	+18	2060 00010-125 2061 32477		1.267325573-041	1.267325573-041 M/CS6
1 *	VECOEM	+20	2062 77616-125 2063 55641		-1.629624284-040	-1.629624284-040 M/CS6
1 *	VECOEM	+22	2064 77703-125 2065 50475		-8.714412406-041	-8.714412406-041 M/CS6
1 *	VECOEM	+24	2066 77433 -99 2067 73503		-2.196874339-032	-2.196874339-032 M/CS5
1 *	VECOEM	+26	2070 77501 -99 2071 77051		-1.829909688-032	-1.829909688-032 M/CS5

FINAL H-2 PRELAUNCH ERASABLE LOAD (MANCHE72 REV3)

REV	MNEMONIC	ADDR	OCTAL	SE	ENGINEERING VALUE	VALUE IN AGC UNITS
1 *	VECOEM	+28	2072 77621 2073 53532	-99	-1.065376979-032	-1.065376979-032 M/CS5
1 *	VECOEM	+30	2074 76161 2075 64227	-73	-5.883100595-024	-5.883100595-024 M/CS4
1 *	VECOEM	+32	2076 00476 2077 02346	-73	2.055521450-024	2.055521450-024 M/CS4
1 *	VECOEM	+34	2100 00213 2101 01672	-73	8.986427331-025	8.986427331-025 M/CS4
1 *	VECOEM	+36	2102 00643 2103 27314	-47	1.820293921-016	1.820293921-016 M/CS3
1 *	VECOFM	+38	2104 04076 2105 21423	-47	9.153043057-016	9.153043057-016 M/CS3
1 *	VECOEM	+40	2106 02200 2107 26131	-47	4.999008725-016	4.999008725-016 M/CS3

FINAL H-2 PRELAUNCH ERASABLE LOAD (MANCHE72 REV3)

REV	MNEMONIC	ADDR	OCIAL	SF	ENGINEERING VALUE	VALUE IN ACC UNITS
1 *	VECOEM	+42	2110 10341 2111 33317	-21	1.257825755-007	1.257825755-007 M/CS2
1 *	VECOEM	+44	2112 77034 2113 65247	-21	-1.406685612-008	-1.406685612-008 M/CS2
1 *	VECOEM	+46	2114 77617 2115 73321	-21	-3.263803450-009	-3.263803450-009 M/CS2
1 *	VECOEM	+48	2116 77302 2117 43346	5	-6.208831072-001	-6.208831072-001 M/CS
1 *	VECOEM	+50	2120 67237 2121 71001	5	-8.687927008+000	-8.687927008+000 M/CS
1 *	VECOEM	+52	2122 73231 2123 43753	5	-4.700930119+000	-4.700930119+000 M/CS
1 *	VECOEM	+54	2124 72065 2125 42562	31	-3.956952080+008	-3.956952080+008 M



FINAL H-2 PRELAUNCH EPASABLE LOAD (MANCHE72 REV3)

REV	MNEMONIC	ADDR	OCTAL	SF	ENGINEERING VALUE	VALUE IN AGC UNITS
1 *	VFCOFM	+56	2126 00471 2127 15165	31	4.107972000+007	4.107972000+007 M
1 *	VFCOFM	+58	2130 00104 2131 30027	31	9.011384000+006	9.011384000+006 M
1 *	RESO	+ 0	2132 17316 2133 12110	38	4.340893766+011 FT	1.323104420+011 M
1 *	RESO	+ 2	2134 07464 2135 05025	38	2.142374266+011 FT	6.529956762+010 M
1 *	RESO	+ 4	2136 03227 2137 30062	38	0.289959811+010 FT	2.831579750+010 M
1 *	VFSO	+ 0	2140 67162 2141 44435	9	-4.607383473+004 FT/SEC	-1.404330482+002 M/CS
1 *	VFSO	+ 2	2142 16760 2143 16057	9	7.858063042+004 FT/SEC	2.395137615+002 M/CS

FINAL H-2 PRELAUNCH FRASABLE LOAD (MANCHE72 REV3)

REV	MNEMONIC	ADDR	OCTAL	SF	ENGINEERING VALUE	VALUE IN AGC UNITS
1 *	VFSO	+ 4	2144 06373 2145 07034	9	3.407173207+004 FT/SEC	1.038506393+002 M/CS
1 *	OMEGAFS	+ 0	2146 00531 2147 10621	-26	3.140253058-010	3.140253058-010 REV/CS
*	INTVAR	+ 0	2377 00142	15	1.960000000+002	1.960000000+002 M2
1	AZIMUTH	+ 0	2400 70004 2401 76573	0	-8.989100000+001 DEG	-2.496972222-001 REV
	LATITUDE+	0	2402 02426 2403 00022	0	2.860842218+001 DEG	7.946783940-002 REV

PAD 39A

1	TAZEL1	+ 0	2432 55006	-1	-1.068080000+002 DEG	-2.966888888-001 REV
1	TAZEL1	+ 1	2433 77221	-2	-2.011000000+000 DEG	-5.586111112-003 REV

PAGE 13

FINAL H-2 PRELAUNCH FPASABLE LOAD (MANCHE72 REV3)

REV	MNEMONIC	ACDR	OCTAL	SE	ENGINEERING VALUE	VALUE IN AGC UNITS
1	TAZEL1	+	2 2434 63611	-1	-6.881100000+001 DEG	-1.911416667-001 REV
1	TAZEL1	+	3 2435 77220	-2	-2.016000000+000 DEG	-5.600000000-003 REV
2	LAUNCHAZ	+	0 2633 06316 2634 30064	0	7.204291600+001 DEG	2.001192111-001 REV
*	WMIDFOS	+	0 3000 00436	19	3.000000000+004 FT	9.144000000+003 Y
30,000 FEET						
*	WMIDVEL	+	0 3001 02732	0	3.000000000+001 FT/SEC	9.144000000-002 Y/CS
30 FT/SEC						
*	RVAR	+	0 3002 00000 3003 00000	-16	0.000000000+000	0.000000000+000
*	RVARMIN	+	0 3004 77777 3005 77777 3006 42757	40	-4.000000000+004 FT2	-3.716121600+003 Y2

(200FT)<sup>2</sup> (A NEGATIVE NUMBER FOR CODING EASE)

FINAL H-2 PRELAUNCH FRASABLE LOAD (MANCHE72 REV3)

REV	MNEMONIC	ADDR	OCTAL	SF	ENGINEERING VALUE	VALUE IN AGC UNITS
1 *	LADPAD	+ 0	3007 11463	0	3.000000000-001	3.000000000-001
1 *	LODPAD	+ 0	3010 05605	0	1.800000000-001	1.800000000-001
1 *	ALFAPAD	+ 0	3011 74133	-1	-2.149000000+001	-5.069444445-002
1 *	ETDECAY	+ 0	3012 00075	14	6.120000000-001 SEC	6.120000000+001 CS
*	ESTROKER	+ 0	3013 00005	14	5.000000000+000	5.000000000+000 CDU OPUL
*	EKPRIME	+ 0	3014 00123	-5	1.583099000-004	1.583099000-004 R/CS/RAD
*	EKPRIME	+ 1	3015 00175	-5	2.384186000-004	2.384186000-004 R/CS/RAD
*	EKTLX/I	+ 0	3016 17433	18	1.274000000+005	1.274000000+005
*	EKTLX/I	+ 1	3017 04500	16	9.472000000+003	9.472000000+003
*	EKTLX/T	+ 2	3020 00334	16	8.800000000+002	8.800000000+002
*	EREPRAC	+ 0	3021 01000	2	1.250000000-001	1.250000000-001

THIS VALUE IS DOUBLED BEFORE IT IS USED

FINAL H-2 PRELAUNCH FRASABLE LOAD (MANCHE72 REV3)

REV	MNEMONIC	ADDR	OCTAL	SE	ENGINEERING VALUE	VALUE IN AGC UNITS
*	FREFFRAC+	1	3022 00232	2	3.750000000-002	3.750000000-002
1**	PACTOFF	+ 0	3023 77677	14	-1.517000000+000 DEG	-6.394099051+001 CDU PULS
1**	YACTOFF	+ 0	3024 00067	14	1.315800000+000 DEG	5.546048472+001 CDU PULS
*	HPN10	+ 0	3025 37777	0	9.999389648-001	9.999389648-001
*	HPN11/2	+ 0	3026 00000	1	0.000000000+000	0.000000000+000
*	HPN12	+ 0	3027 00000	0	0.000000000+000	0.000000000+000
*	HPD11/2	+ 0	3030 54360	1	-1.220581055+000	-1.220581055+000
*	HPD12	+ 0	3031 21075	0	5.349731445-001	5.349731445-001
*	HPN20	+ 0	3032 37777	0	9.999389648-001	9.999389648-001
*	HPN21/2	+ 0	3033 60465	1	-9.621582031-001	-9.621582031-001
*	HPN22	+ 0	3034 00000	0	0.000000000+000	0.000000000+000
*	HPD21/2	+ 0	3035 54360	1	-1.220581055+000	-1.220581055+000
*	HPD22	+ 0	3036 21075	0	5.349731445-001	5.349731445-001

FINAL H-2 PRELAUNCH ERASABLE LOAD (MANCHE72 REV3)

REV	MNEMONIC	ADDR	OCTAL	SE	ENGINEERING VALUE	VALUE IN AGC UNITS
*	HPN30	+ 0 3037	37777	0	9.999389648-001	9.999389648-001
*	HPN31/2	+ 0 3040	57142	1	-1.050415039+000	-1.050415039+000
*	HPN32	+ 0 3041	33106	0	8.480224609-001	8.480224609-001
*	HPD31/2	+ 0 3042	50741	1	-1.441162109+000	-1.441162109+000
*	HPD32	+ 0 3043	31162	0	7.882080078-001	7.882080078-001
**	DAPDATR1+	0 3066	31102	-0		
**	DAPDATR2+	0 3067	01111	-0		
1**	LEMMASS	+ 0 3073	07316	16	3.342090000+004 LPS	1.515946524+004 KG
1**	CSMMASS	+ 0 3074	16065	16	6.367810000+004 LPS	2.888390030+004 KG
	POLYNUM	+ 0 3261	00005	14	5.000000000+000	5.000000000+000
1	POLYNUM	+ 1 3262	77777	5	-7.646894000-002 DEG	-2.124137222-004 REV
			3263 74411			
1	POLYNUM	+ 3 3264	00051	-9	1.799880000-001 DEG/SEC	4.999666667-006 REV/CS
			3265 36055			

FINAL H-2 PRELAUNCH ERASABLE LOAD (MANCHE72 REV3)

REV	MNEMONIC	ADDR	OCTAL	SF	ENGINEERING VALUE	VALUE IN AGC UNITS
1	POLYNUM + 5	3266	00543	-23	9.298907000-003 DEG/SEC2	2.583029722-009 REV/CS2
		3267	00222			
1	POLYNUM + 7	3270	76132	-37	-1.492420000-004 DEG/SEC3	-4.145611111-013 REV/CS3
		3271	57562			
1	POLYNUM + 9	3272	04121	-51	2.078269000-006 DEG/SEC4	5.772969445-017 REV/CS4
		3273	33143			
1	POLYNUM +11	3274	72576	-65	-1.601873000-008 DEG/SEC5	-4.449647223-021 REV/CS5
		3275	53233			
1	POLYNUM +13	3276	02272	-79	4.401981000-011 DEG/SEC6	1.222772500-025 REV-CS6
		3277	37152			
	SATPLRT + 0	3300	00000	0	1.000000000+000 DEG/SEC	2.777777778-005 REV/CS
		3301	16441			
1	RPSTART + 0	3302	02241	14	1.185000000+001 SEC	1.185000000+003 CS

FINAL H-2 PRELAUNCH ERASABLE LOAD (MANCHE72 REV3)

REV	MNEPOMIC	ADDR	OCTAL	SF	ENGINEERING VALUE	VALUE IN AGC UNITS
1	POLYSTOP+	0 7303	42631	14	1.495000000+002 SEC	-1.495000000+004 CS
	SATRATE +	0 3321	00000	12	0.000000000+000	0.000000000+000 CUTPTPUL
	SATRATE +	1 3322	00344	12	5.700000000+001	5.700000000+001 CUTPTPUL

2.5 DEGREE ATTITUDE ERROR, 0.75 VOLTS

	SATRATE +	2 3323	77433	12	-5.700000000+001	-5.700000000+001 CUTPTPUL
	SATRATE +	3 3324	00000	12	0.000000000+000	0.000000000+000 CUTPTPUL
	SATSCALE+	0 3331	10000	2	1.000000000+000	1.000000000+000

0.3 VOLTS/DEG

1 *	P37RANGE+	0 3376	01603	0	1.185640000+003 N.MI.	5.489074074-002 #REV#
	LAT(SPL)+	0 3400	02265	0	2.648000016+001 DEG	7.355555600-002 REV
			3401	04227		

26.48 DEG NORTH GEODFTIC



FINAL H-2 PRELAUNCH ERASABLE LOAD (MANCHE72 REV3)

REV	MNEMONIC	ADDR	OCTAL	SE	ENGINEERING VALUE	VALUE IN ACC UNITS
	LNG(SPL)+	0	3402 76370	0	-1.704999999+001 DEG	-4.736111110-002 REV
			3403 41106			

-17.05 DEG WEST GEODETIC

ECSTEER	+	0	3424 10000	2	1.000000000+000	1.000000000+000
TR6JCP	+	0	3513 00004	-0		
TR6JCP	+	1	3514 00006	-0		
TR6JCP	+	2	3515 31413	-0		
TR6JCP	+	3	3516 53140	-0		
TR6JCP	+	4	3517 00006	-0		
TR6JCP	+	5	3520 40025	-0		
TR6JCP	+	6	3521 21140	-0		
TR6JCP	+	7	3522 05357	-0		

FINAL H-2 PRELAUNCH ERASABLE LOAD (MANCHE72 REV3)

REV	MNEMONIC	ADDR	OCTAL	SF	ENGINEERING VALUE	VALUE IN AGC UNITS
	TB6JCP	+ 8	3523	01550	-0	
	TB6JCP	+ 9	3524	10067	-0	
	TB6JCP	+10	3525	11573	-0	
	TB6JCP	+11	3526	04106	-0	
	TB6JCP	+12	3527	35055	-0	
	TB6JCP	+13	3530	05251	-0	
	TB6JCP	+14	3531	01543	-0	
	TB6JCP	+15	3532	00006	-0	
	TB6JCP	+16	3533	41413	-0	
	TB6JCP	+17	3534	53046	-0	
	TB6JCP	+18	3535	01574	-0	
	TB6JCP	+20	3537	21046	-0	
	TB6JCP	+21	3540	33300	-0	

FINAL H-2 PRELAUNCH EPASABLE LOAD (MANCHE72 REV3)

REV	MNEMONIC	ADDR	OCTAL	SF	ENGINEERING VALUE	VALUE IN AGC UNITS
	TB6JCP	+22	3541	04676	-0	
	TB6JCP	+23	3542	20707	-0	
	TB6JCP	+24	3543	37663	-0	
	TB6JCP	+25	3544	05150	-0	
	TB6JCP	+26	3545	01525	-0	
	TB6JCP	+27	3546	10067	-0	
	TB6JCP	+28	3547	05340	-0	
	TB6JCP	+29	3550	35017	-0	
	TB6JCP	+30	3551	00006	-0	
	TB6JCP	+31	3552	05012	-0	
	TB6JCP	+32	3553	35031	-0	
	TB6JCP	+33	3554	00006	-0	
	TB6JCP	+34	3555	05011	-0	

FINAL H-2 PRELAUNCH ERASABLE LOAD (MANCHE72 REV3)

REV	MNEMONIC	ADDR	OCTAL	SF	ENGINEERING VALUE	VALUE IN AGC UNITS
	TR6JCB	+35	3556	00006	-0	
	TR6JCB	+36	3557	30025	-0	
1	TR6JCB	+37	3560	53337	-0	
	TR6JCB	+38	3561	05303	-0	
	TR6JCB	+39	3562	01750	-0	
	TR6JCB	+40	3563	45017	-0	
	TR6JCB	+41	3564	00006	-0	
	TR6JCB	+42	3565	03012	-0	
	TR6JCB	+43	3566	45031	-0	
	TR6JCB	+44	3567	00006	-0	
	TR6JCB	+45	3570	03011	-0	
	TR6JCB	+46	3571	25573	-0	
	TR6JCB	+47	3572	05340	-0	

FINAL H-2 PREFLAUNCH ERASABLE LOAD (MANCHE72 REV3)

REV	MNEMONIC	ADDR	OCTAL	SE	ENGINEERING VALUE	VALUE IN AGC UNITS
	TR6JCP	+48	3573	00000	-0	
	TR6JCP	+49	3574	00006	-0	
	TR6JCP	+50	3575	30025	-0	
	TR6JCP	+51	3576	01537	-0	

## FINAL H-2 PRELAUNCH EPASABLE LOAD (MANCHE72 REV3)

	A	B	C	D	F	F	G	H	I	J	K	L	M			
ID	V71	V71	V71	V71	ID	V71	V71	V71	ID	V71	V71	V71	ID	V72		
01	00021	00015	00010	00013	01	00023	00023	00024	00024	01	00024	00022	00023	00021	01	00017
02	01452	01706	01345	01767	02	02000	02021	02042	02064	02	02106	02130	03000	03025	02	00110
03	77316	00011	06510	00001	03	00137	00001	00003	77703	03	02200	00104	00436	37777	03	01164
04	74561	03366	07025	24315	04	00763	03120	02526	50475	04	26131	30027	02732	00000	04	01341
05	77143	11000	00620	00000	05	00023	00001	00015	77433	05	10341	17316	00000	00000	05	00005
06	74705	30623	00000	22274	06	00001	03120	00107	73503	06	33317	12110	00000	54360	06	01477
07	77667	37367	27340	00552	07	00000	00311	00022	77501	07	77034	07464	77777	21075	07	00000
10	71220	00000	37723	02210	10	00000	31177	35751	77051	10	65247	05025	77777	37777	10	02377
11	77646	23966		25231	11	00471	77700	00012	77621	11	77617	03227	42757	60465	11	00142
12	77332	00000		12160	12	00364	55774	24655	53532	12	73321	30062	11463	00000	12	03021
13	76617	26474		03363	13	04400	77762	00077	76161	13	77302	67162	05605	54360	13	01000
14	00710	37777			14	77772	55732	25776	64227	14	43346	44435	74133	21075	14	03022
15	00023	37777			15	46750	00011	77747	00476	15	67237	16760	00075	37777	15	00232
16	00665				16	77773	14374	50503	02346	16	71001	16057	00005	57142	16	03376
17	77731				17	57473	11272	77764	00213	17	73231	06373	00123	33106	17	01603
20	00000				20	00006	77767	75066	01672	20	43753	07034	00175	50741	20	
21	77615				21	06361	77461	00010	00643	21	72065	00531	17433	31162	21	
22					22	00002	00006	32477	27314	22	42562	10621	04500		22	
23					23	26244	07520	77616	04076	23	00471		00334		23	
24					24			55641	21423	24	15165				24	

RO3 parameters

To reflect mass property changes

HORIZALT

TEPHEM

To reflect time of lift-off

WRENDPOS

609.6m 00023

WRENDVEL

0.006096m/cs 00144

RLS

To reflect improvement in knowledge  
of landing site