



**Aerospace
Systems Division**

Lunar Seismic Profiling Experiment
EEE Parts List

NO.	REV. NO.
ATM 1039	
PAGE <u>1</u>	OF <u>9</u>
DATE 12 August 1971	

The purpose of this ATM is to list all electronic, electrical, and electro-mechanical parts used in the Lunar Seismic Profiling Experiment flight model. The tabulation of these EEE parts is divided into those used in the central station electronics, explosive packages, and subcontracted items.

Prepared by J. T. Staats
J. T. Staats
ALSEP Reliability

Approved by S. J. Ellison
S. J. Ellison, Manager
ALSEP Reliability



**Aerospace
Systems Division**

Lunar Seismic Profiling Experiment
EEE Parts List

NO.	REV. NO.
ATM 1039	
PAGE <u>2</u>	OF <u>9</u>
DATE 12 August 1971	

CENTRAL STATION ELECTRONICS

Central Electronics 2347800

<u>P/N</u>	<u>Name</u>	<u>Qty</u>	<u>Cat</u>	<u>Vendor</u>	<u>Vendor #</u>	<u>MIL-SPEC</u>
2346217-13	Connector	1	3	Hughes	WSW	- - - -
2335661-2	Thermistor	1	3	Fenwal	GB42	- - - -

Digital Processor 2347815 (Board #1)

2346201-1	Nand Gate	7	1	TI	54L	85M03766
2346201-2	Hex Invert	11	1	TI	54L	85M03766
2346201-3	Nand Gate	5	1	TI	54L	85M03766
2346201-4	Nand Gate	6	1	TI	54L	85M03766
2346201-5	Nand Gate	1	1	TI	54L	85M03766
2346201-11	Flip Flop	10	1	TI	54L	85M03766
2346201-16	Flip Flop	3	1	TI	54L	85M03766
2346207-15	Hex Invert	1	1	TI	54	85M03766
2346207-18	Multivib	3	1	TI	54	85M03766
RCR05G332JS	Resistor	1	2	A-B	RCR05G	R-39008
RCR05G272JS	Resistor	1	2	A-B	RCR05G	R-39008
2346230-25	Capacitor	3	2	Aero	CKR05	C-39014
2346231-36	Capacitor	2	2	Aero	CKR06	C-39014

Digital Processor 7347825 (Board #2)

2346201-1	Nand Gate	2	1	TI	54L	85M03766
2346201-2	Hex Invert	2	1	TI	54L	85M03766
2346201-3	Nand Gate	10	1	TI	54L	85M03766
2346201-7	And-or	2	1	TI	54L	85M03766
2346201-11	Flip Flop	1	1	TI	54L	85M03766
2346201-18	Nand Gate	1	1	TI	54L	85M03766
2346207-18	Multivib	2	1	TI	54L	85M03766
2335191-1	Transistor	1	2	TI	2N3045	AC472-005
2346230-25	Capacitor	7	2	Aero	CKR05	C-39014
2346231-36	Capacitor	1	2	Aero	CKR06	C-39014
2346240-13	Capacitor	2	2	Sprague	CSR13	C-39003
2340392-5	Diode	1	2	Dickson	IN4618	19500/391
RCR05G303JS	Resistor	1	2	A-B	RCR056	R-39008
RCR05G222JS	Resistor	1	2	A-B	RCR05G	R-39008



**Aerospace
Systems Division**

Lunar Seismic Profiling Experiment
EEE Parts List

NO.	REV. NO.
ATM 1039	
PAGE 3	OF 9
DATE 12 August 1971	

Digital Processor 2347825 (Board #2) (Continued)

<u>P/N</u>	<u>Name</u>	<u>Qty</u>	<u>Cat</u>	<u>Vendor</u>	<u>Vendor #</u>	<u>MIL-SPEC</u>
RCR05G391JS	Resistor	1	2	A-B	RCR05G	R-39008
RCR05G471JS	Resistor	1	2	A-B	RCR05G	R-39008
RCR05G272JS	Resistor	1	2	A-B	RCR05G	R-39008
RCR05G243JS	Resistor	1	2	A-B	RCR05G	R-39008
RCR07G202JS	Resistor	3	2	A-B	RCR07G	R-39008

Digital Processor 2347835 (Board #3)

2346201-1	Nand Gate	3	1	TI	54L	85M03766
2346201-2	Hex Invert	14	1	TI	54L	85M03766
2346201-3	Nand Gate	6	1	TI	54L	85M03766
2346201-4	Nand Gate	1	1	TI	54L	85M03766
2346201-6	And-Or	14	1	TI	54L	85M03766
2346201-7	And-Or	6	1	TI	54L	85M03766
2346201-16	Flip Flop	9	1	TI	54L	85M03766
RCR05G331JS	Resistor	1	2	A-B	RCR05G	R-39008
6230-25	Capacitor	1	2	Aero	CKR05	C-39014
46231-36	Capacitor	1	2	Aero	CKR06	C-39014

DC/DC Converter Assembly 2347813

2335661-2	Thermistor	1	3	Fenwal	GB42MM	----
-----------	------------	---	---	--------	--------	------

DC/DC Converter 2347808 (Board #1)

2346230-10	Capacitor	1	2	Aero	CKR05	C-39014
2346230-17	Capacitor	1	2	Aero	CKR05	C-39014
2346230-25	Capacitor	1	2	Aero	CKR05	C-39014
2346231-16	Capacitor	1	2	Aero	CKR05	C-39014
2346231-36	Capacitor	3	2	Aero	CKR05	C-39014
2346234-4	Capacitor	1	2	Aero	CKR12	C-39014
2346240-22	Capacitor	1	2	Sprague	CSR13	C-39003
2346240-34	Capacitor	2	2	Sprague	CSR13	C-39003
2346240-78	Capacitor	4	2	Sprague	CSR13	C-39003
2346240-86	Capacitor	1	2	Sprague	CSR13	C-39003



**Aerospace
Systems Division**

Lunar Seismic Profiling Experiment
EEE Parts List

NO.	REV. NO.
ATM 1039	
PAGE <u>4</u>	OF <u>9</u>
DATE 12 August 1971	

DC/DC Converter 2347808 (Board #1) (Continued)

<u>P/N</u>	<u>Name</u>	<u>Qty</u>	<u>Cat</u>	<u>Vendor</u>	<u>Vendor #</u>	<u>MIL-SPEC</u>
2346240-93	Capacitor	2	2	Sprague	CSR13	C-39003
S1N5417	Diode	8	1	Semtech	1N5417	85M03896
S1N916B	Diode	5	1	Fairchild	1N916B	85M01305
2346223	Inductor	5	3	Schott	---	T-39013
S2N4863	Transistor	3	1	Solitron	2N4863	85M03773
S2N222A	Transistor	1	1	TI	2N222A	85M02699
RCR97G471JS	Resistor	1	2	A-B	RCR07G	R-39008
RCR07G153JS	Resistor	1	2	A-B	RCR07G	R-39008
RCR07G912JS	Resistor	1	2	A-B	RCR07G	R-39008
RCR07G560JS	Resistor	1	2	A-B	RCR07G	R-39008
RCR07G620JS	Resistor	1	2	A-B	RCR07G	R-39008
RCR07G392JS	Resistor	1	2	A-B	RCR07G	R-39008
RCR07G102JS	Resistor	1	2	A-B	RCR07G	R-39008
RWR71S3241FS	Resistor	1	2	Dale	RWR71S	R-39007
RNR55E2802FS	Resistor	1	2	Mepco	RNR55E	R-55182
*RNR55E----FS	Resistor	1	2	Mepco	RNR55E	R-55182
6228-1	Transformer	1	3	Schott	---	T-39013
2346269-1	Transformer	1	3	Schott	---	T-39013
SM105G	Regulator	1	1	Natl	SM105G	85M03889

DC/DC Converter 2365406 (Board #2)

S1N939A	Diode	1	1	Dickson	1N939A	85M01678
2340338-20	Diode	1	1	Dickson	1N4584A	85M01678
RNR55E2741FS	Resistor	1	2	Mepco	RNR55E	R-55182
RNR55E2002FS	Resistor	1	2	Mepco	RNR55E	R-55182
RNR55E1002FS	Resistor	1	2	Mepco	RNR55E	R-55182
RNR55E4320FS	Resistor	1	2	Mepco	RNR55E	R-55182
RNR55E1331FS	Resistor	1	2	Mepco	RNR55E	R-55182
RNR55E1211FS	Resistor	1	2	Mepco	RNR55E	R-55182
RNR55E3011FS	Resistor	1	2	Mepco	RNR55E	R-55182
RNR55E5231FS	Resistor	1	2	Mepco	RNR55E	R-55182
RNR55E5361FS	Resistor	1	2	Mepco	RNR55E	R-55182

* Select 1 of 11 values at assembly test



**Aerospace
Systems Division**

Lunar Seismic Profiling Experiment
EEE Parts List

NÖ.	REV. NO.
ATM 1039	
PAGE 5	OF 9
DATE 12 August 1971	

Transmitter - 2347820

<u>P/N</u>	<u>Name</u>	<u>Qty</u>	<u>Cat</u>	<u>Vendor</u>	<u>Vendor #</u>	<u>MIL-SPEC</u>
RNR55E1211FS	Resistor	1	2	Mepco	RNR55E	R-55182
RNR55E75R0FS	Resistor	2	2	Mepco	RNR55E	R-55182
RNR55E1820FS	Resistor	1	2	Mepco	RNR55E	R-55182
RNR55E6810FS	Resistor	1	2	Mepco	RNR55E	R-55182
RNR55E49R9FS	Resistor	3	2	Mepco	RNR55E	R-55182
RNR55E3320FS	Resistor	1	2	Mepco	RNR55E	R-55182
RNR55E1210FS	Resistor	1	2	Mepco	RNR55E	R-55182
RNR57C10R0FS	Resistor	1	2	Mepco	RNR57C	R-55182
RNR55E1002FS	Resistor	1	2	Mepco	RNR55E	R-55182
RNR55E4751FS	Resistor	3	2	Mepco	RNR55E	R-55182
RNR55E1003FS	Resistor	1	2	Mepco	RNR55E	R-55182
RNR55E2210FS	Resistor	2	2	Mepco	RNR55E	R-55182
2346230-9	Capacitor	1	2	Aero	CKR05	C-39014
2346231-4	Capacitor	6	2	Aero	CKR06	C-39014
2346230-8	Capacitor	2	2	Aero	CRK05	C-39014
2346230-17	Capacitor	1	2	Aero	CKR05	C-39014
2346230-20	Capacitor	1	2	Aero	CKR05	C-39014
2340391-17	Capacitor	1	3	ATC	100B-471	----
ECY10270G5	Capacitor	1	2	Corning	ECY10	M-S-400A
ECY10241J3	Capacitor	1	2	Corning	ECY10	M-S-400A
2346283-10	Capacitor	3	3	Johanson	JMC52	C-14409
2346246-35	Capacitor	4	2	Sprague	337D	C-39006
2346231-36	Capacitor	1	2	Aero	CKR06	C-39014
2346230-25	Capacitor	3	2	Aero	CKR05	C-39014
2346230-12	Capacitor	1	2	Aero	CKR05	C-39014
2346230-14	Capacitor	1	2	Aero	CKR05	C-39014
2346233-5	Capacitor	1	2	Aero	CKR11	C-39014
2340319-6	Choke	1	3	Delevan	1025	----
2365416	Choke	1	3	BxA	2365416	----
2340319-23	Choke	3	3	Delevan	1025	----
2340319-7	Choke	2	3	Delevan	1025	----
2340319-38	Choke	2	3	Delevan	1025	----
2340319-2	Choke	1	3	Delevan	1025	----
2340319-1	Choke	1	3	Delevan	1025	----
2340319-13	Choke	1	3	Delevan	1025	----
2340319-12	Choke	1	3	Delevan	1025	----



**Aerospace
Systems Division**

Lunar Seismic Profiling Experiment
EEE Parts List

NO.	REV. NO.
ATM 1039	
PAGE <u>6</u>	OF <u>9</u>
DATE 8/12/71	

Transmitter - 2347820 (Continued)

<u>P/N</u>	<u>Name</u>	<u>Qty</u>	<u>Cat</u>	<u>Vendor</u>	<u>Vendor #</u>	<u>MIL-SPEC</u>
2340389-1	Transistor	1	2	RCA	2N3866	19500/398
S2N918	Transistor	2	1	TI	2N918	85M01674
2346250-2	Transistor	1	2	RCA	2N5071	19500/442
SM2N2907A	Transistor	1	1		2N2907A	50M60198
S2N2222A	Transistor	1	1	TI	2N2222A	85M02699
2340355-1	Diode	1	1	Dickson	1N4370	85M02713
S1N916B	Diode	1	1	Fairchild	1N916B	85M01305
2340379-1	Pin Diode	2	3	H-P	5082	----
2346288-4	Crystal	1	3	McCoy	---	C-3098
RCR07G122JS	Resistor	1	2	A-B	RCR07	R-39008

EXPLOSIVE PACKAGE ASSEMBLY

Firing Circuit Assy - 2348393

Signal Processor 2348355 (X8)

SM107G-1	Op Amp	2	1	Natl	SM107G	85M03910
2346230-25	Capacitor	1	2	Aero	CKR05	C-39014
2346231-24	Capacitor	1	2	Aero	CKR06	C-39014
2346231-32	Capacitor	1	2	Aero	CKR06	C-39014
SM1N914	Diode	2	1	TI	1N914	50M60197
RNR55E6810FR/S	Resistor	1	2	Mepco	RNR55E	R-55182
RNR55E3012FR/S	Resistor	1	2	Mepco	RNR55E	R-55182
RNR55E2212FR/S	Resistor	1	2	Mepco	RNR55E	R-55182
RNR55E4750FR/S	Resistor	2	2	Mepco	RNR55E	R-55182
*RNR55EXXXFR/S	Resistor	3	2	Mepco	RNR55E	R-55182
RNR55E3320FR/S	Resistor	1	2	Mepco	RNR55E	R-55182
RNR55E1002FR/S	Resistor	2	2	Mepco	RNR55E	R-55182
RNR55E8250FR/S	Resistor	1	2	Mepco	RNR55E	R-55182
RNR55E1502FR/S	Resistor	2	2	Mepco	RNR55E	R-55182
RNR55E6190FR/S	Resistor	1	2	Mepco	RNR55E	R-55182
RNR55E2001FR/S	Resistor	1	2	Mepco	RNR55E	R-55182

*Select at Assembly Test: 9091, 1002, 1102, 1212, 1302, 2102, 1402, 1502, 1692,
1822, 1912, 2002



**Aerospace
Systems Division**

Lunar Seismic Profiling Experiment
EEE Parts List

NO.	REV. NO.
ATM 1039	
PAGE <u>7</u>	OF <u>9</u>
DATE 12 August 1971	

Signal Processor 2348355 (X8) (Continued)

<u>P/N</u>	<u>Name</u>	<u>Qty</u>	<u>Cat</u>	<u>Vendor</u>	<u>Vendor #</u>	<u>MIL-SPEC</u>
RNR55E5620FR/S	Resistor	2	2	Mepco	RNR55E	R-55182
RNR55E1821FR/S	Resistor	1	2	Mepco	RNR55E	R-55182
RNR55E1001FR/S	Resistor	2	2	Mepco	RNR55E	R-55182
RNR55E1000FR/S	Resistor	1	2	Mepco	RNR55E	R-55182
RNR55E1820FR/S	Resistor	1	2	Mepso	RNR55E	R-55182
RCR20G222JM/S	Resistor	1	2	A-B	RCR20G	R-39008
2346201-11	Flip Flop	2	1	TI	54L	85M03766
2346207-3	Nand Gate	1	1	TI	54	85M03766
2346207-18	Multivibrator	2	1	TI	54	85M03766
S1N751A	Diode	1	1	Dickson	1N751A	85M01308
SM4419C	Transistor	3	1	TI	2N2432A	50M60205

Firing Pulse Gen 2348359 (X8)

SM4419A	Transistor	1	1	TI	2N2432A	50M60205
1N914	Diode	2	1	TI	1N914	50M60197
RNR55E1001FR/S	Resistor	1	2	Mepco	RNR55E	R-55182
RNR55E1000FR/S	Resistor	1	2	Mepco	RNR55E	R-55182
RCR20G681JS	Resistor	1	2	A-B	RCR20G	R-39008
2340388-1	Rectifier	1	2	GE	2N1777A	19500/168
2346231-24	Capacitor	1	2	Aero	CKR06	C-39014
2346246-17	Capacitor	2	2	Sprague	337D	C-39006
2346231-36	Capacitor	1	2	Aero	CKR06	C-39014
RNR55E1003FR/S	Resistor	1	2	Mepco	RNR55E	R-55182

Switch and Actuator Assembly 2348590 (X8)

2346242-1	Switch	1	3	Microswitch	1HM25	S-8805
-----------	--------	---	---	-------------	-------	--------

Base Plate Assembly 2348552 (X8)

2340369-1, -3	Connectors	2	3	Microdot	MCDB1	C-24308
2348391-2	Connector	1	3	Microdot	MCDBX	----



**Aerospace
Systems Division**

Lunar Seismic Profiling Experiment
EEE Parts List

NO.	REV. NO.
ATM 1039	
PAGE 8	OF 9
DATE 12 August 1971	

Receiver - 2348371 (X8)

<u>P/N</u>	<u>Name</u>	<u>Qty</u>	<u>Cat</u>	<u>Vendor</u>	<u>Vendor #</u>	<u>MIL-SPEC</u>
*RCR07GXXXJS	Resistor	1	2	A-B	RCR07G	R-39008

P. W. Board Assy - 2348350 (X8)

2346296-1	Op Amp	2	5	Mot	MC1590G	-883II
SM107G-1	Op Amp	4	1	Natl	SM107G-1	85M03910
2346231-12	Capacitor	9	2	Aero	CKR06	C-39014
2346230-6	Capacitor	1	2	Aero	CKR05	C-39014
2346283-10	Capacitor	2	3	Johanson	JMC5	C-14409
ECY102R2C5	Capacitor	1	2	Corning	ECY10	M-S-400A
2346230-1	Capacitor	1	2	Aero	CKR05	C-39014
ECY105R6J5	Capacitor	1	2	Corning	ECY10	M-S-400A
2346230-24	Capacitor	1	2	Aero	CKR05	C-39014
2346231-24	Capacitor	1	2	Aero	CKR06	C-39014
2346231-36	Capacitor	1	2	Aero	CKR06	C-39014
1N914	Diode	1	1	TI	1N914	50M60197
2340319-14	Inductor	1	3	Delevan	1025	----
2340319-9	Inductor	1	3	Delevan	1025	----
2340319-2-3	Inductor	4	3	Delevan	1025	----
2340319-12	Inductor	1	3	Delevan	1025	----
2340319-13	Inductor	1	3	Delevan	1025	----
2340366-1	Transistor	1	4	Siliconix	2N4416A	19500/428
RNR55E1000FR/S	Resistor	1	2	Mepco	RNR55E	R-55182
RNR55E5111FR/S	Resistor	1	2	Mepco	RNR55E	R-55182
RNR55E1001FR/S	Resistor	3	2	Mepco	RNR55E	R-55182
RNR55E1002FR/S	Resistor	1	2	Mepco	RNR55E	R-55182
RNR55E1211FR/S	Resistor	1	2	Mepco	RNR55E	R-55182
RNR55E3012FR/S	Resistor	1	2	Mepco	RNR55E	R-55182
RNR55E3571FR/S	Resistor	1	2	Mepco	RNR55E	R-55182
RNR55E3321FR/S	Resistor	1	2	Mepco	RNR55E	R-55182
RNR55E4750FR/S	Resistor	1	2	Mepco	RNR55E	R-55182
2335661-2	Thermistor	1	3	Fenwal	GB42MM	----
2346256-1	Crystal Filter	1	3	McCoy	SPCL	----

*Select 1 of 11 values at Assembly Test



**Aerospace
Systems Division**

Lunar Seismic Profiling Experiment
Subcontractor EEE Parts

NO. | REV. NO.

ATM 1039

PAGE 9 OF 9

DATE 12 August 1971

Bulova Watch Company

(Thermal Battery Timers)

<u>P/N</u>	<u>Name</u>	<u>Qty</u>	<u>Cat</u>	<u>Vendor</u>	<u>Vendor #</u>	<u>MIL-SPEC</u>
A87186	Switch, Micro	16	3	Microswitch	Z1SX39-T	S-8805

Catalyst Research Corporation

(Thermal Battery)

2348416	Battery, Thermal	8	3	CRC	404380	----
---------	---------------------	---	---	-----	--------	------