

UNCLASSIFIED

AD **409 101**

DEFENSE DOCUMENTATION CENTER

FOR

SCIENTIFIC AND TECHNICAL INFORMATION

CAMERON STATION, ALEXANDRIA, VIRGINIA



UNCLASSIFIED

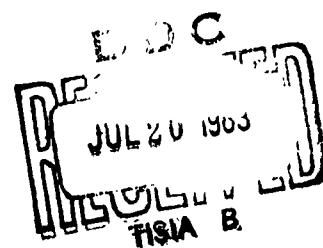
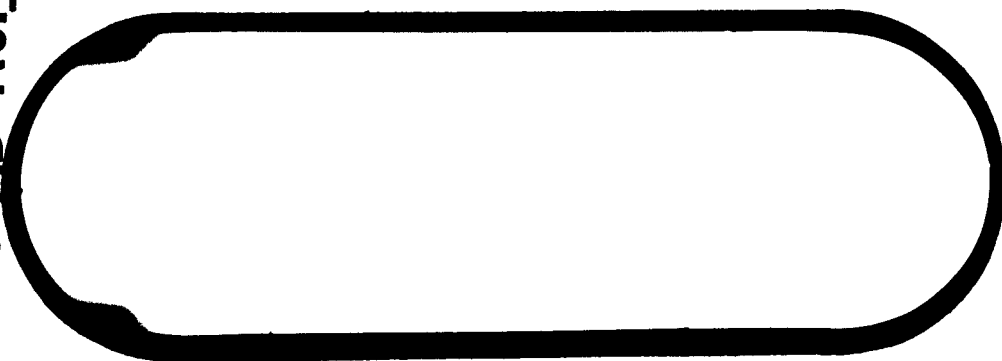
NOTICE: When government or other drawings, specifications or other data are used for any purpose other than in connection with a definitely related government procurement operation, the U. S. Government thereby incurs no responsibility, nor any obligation whatsoever; and the fact that the Government may have formulated, furnished, or in any way supplied the said drawings, specifications, or other data is not to be regarded by implication or otherwise as in any manner licensing the holder or any other person or corporation, or conveying any rights or permission to manufacture, use or sell any patented invention that may in any way be related thereto.

N-63-4-2

409 101

CATALOGED BY DDC
AS AD No. 409101

BOEING



SEATTLE, WASHINGTON

THE **BOEING** COMPANY

CODE IDENT NO. 81205

NUMBER D2-13947-3

TITLE AIR FORCE PLANT 77 FLIGHT ARTICLE MASS PROPERTIES
REPORT FOR WING II MISSILES 674 - 711.

MODEL NO. SM-80B CONTRACT NO. AF 04(694)-46

ISSUE NO. 9 ISSUED TO DPC

SPECIAL LIMITATIONS ON ASTIA DISTRIBUTION

ASTIA may distribute this report to requesting agencies subject to their security agreement, approved fields of interest, and the following:

☒ UNLIMITED—To all agencies of the Department of Defense and their contractors.

☐ LIMITED—To U. S. Military organizations only.

This report may be distributed to nonmilitary agencies not approved above subject to Boeing approval of each request.

NOTE: the LIMITED category may be checked only because of actual or potential patent, proprietary, ethical, or similar implications.

PREPARED BY	<u>P. L. Dramer</u>	<u>6/27/63</u>
SUPERVISED BY	<u>W. H. W. H.</u>	<u>6-27-3</u>
APPROVED BY	<u>Peter Romette</u>	<u>6-28-3</u>
APPROVED BY	<u>Nesue C. Brenden</u>	<u>7-2-63</u>
CLASS & DISTR	<u>R. L. Young</u>	<u>7-2-63</u>
APPROVED BY		(DATE)

REV SYM _____

U3 4287 9038 ORIG. 8/62

VOL. NO. _____ OF D2-13947-3
 SECT. _____ PAGE 1

2-8142-7

4/11/63 7-3-63

ACTIVE PAGE RECORD

SECTION	ORIG REL PAGE NO.	REV SYM	ADDED PAGES					SECTION	ORIG REL PAGE NO.	REV SYM	ADDED PAGES				
			PAGE NO.	REV SYM	PAGE NO.	REV SYM	PAGE NO.				PAGE NO.	REV SYM	PAGE NO.	REV SYM	PAGE NO.
	1								47						
	2								48						
	3								49						
	4								50						
	5								51						
	6								52						
	7								53						
	8								54						
	9								55						
	10								56						
	11								57						
	12								58						
	13								59						
	14								60						
	15								61						
	16								62						
	17								63						
	18								64						
	19								65						
	20														
	21														
	22														
	23														
	24														
	25														
	26														
	27														
	28														
	29														
	30														
	31														
	32														
	33														
	34														
	35														
	36														
	37														
	38														
	39														
	40														
	41														
	42														
	43														
	44														
	45														
	46														

U3 4801 0600 ORIG. 8/62

2-8142-2

REV SYM _____

BOEING NO. D2-13947-3
SECT. PAGE 2

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED

U3 4287 9028 ORIG. 8/82

2-8142-2

REV SYM _____

BOEING	NO.	D2-13947-3
	SECT.	PAGE 3

TABLE OF CONTENTS

	PAGE
SUMMARY	6
1.0 INTRODUCTION	7
1.1 REFERENCES	7
1.2 DISCUSSION	7
2.0 ACTUAL WEIGHT OF SEALANT ADDED AT PLANT 77	8
2.1 BOEING RESPONSIBILITY	8
2.1.1 MISSILE 674	8
2.1.2 MISSILE 676	9
2.1.3 MISSILE 679	10
2.1.4 MISSILE 681	11
2.1.5 MISSILE 683	12
2.1.6 MISSILE 686	13
2.1.7 MISSILE 687	14
2.1.8 MISSILE 688	15
2.1.9 MISSILE 690	16
2.1.10 MISSILE 693	17
2.1.11 MISSILE 695	18
2.1.12 MISSILE 697	19
2.1.13 MISSILE 700	20
2.1.14 MISSILE 702	21
2.1.15 MISSILE 704	22
2.1.16 MISSILE 706	23
2.1.17 MISSILE 707	24
2.1.18 MISSILE 709	25
2.1.19 MISSILE 711	26
2.2 AUTONETICS RESPONSIBILITY	27
2.2.1 MISSILE 674	27
2.2.2 MISSILE 676	28
2.2.3 MISSILE 679	29
2.2.4 MISSILE 681	30
2.2.5 MISSILE 683	31
2.2.6 MISSILE 686	32
2.2.7 MISSILE 687	33
2.2.8 MISSILE 688	34
2.2.9 MISSILE 690	35
2.2.10 MISSILE 693	36
2.2.11 MISSILE 695	37
2.2.12 MISSILE 697	38
2.2.13 MISSILE 700	39
2.2.14 MISSILE 702	40
2.2.15 MISSILE 704	41
2.2.16 MISSILE 706	42
2.2.17 MISSILE 707	43
2.2.18 MISSILE 709	44
2.2.19 MISSILE 711	45

		PAGE
3.0	BOEING CHANGES AT AIR FORCE PLANT 77	46
4.0	CONFIGURATION SUMMARIES	47
4.1.1	MISSILE 674	47
4.1.2	MISSILE 676	48
4.1.3	MISSILE 679	49
4.1.4	MISSILE 681	50
4.1.5	MISSILE 683	51
4.1.6	MISSILE 686	52
4.1.7	MISSILE 687	53
4.1.8	MISSILE 688	54
4.1.9	MISSILE 690	55
4.1.10	MISSILE 693	56
4.1.11	MISSILE 695	57
4.1.12	MISSILE 697	58
4.1.13	MISSILE 700	59
4.1.14	MISSILE 702	60
4.1.15	MISSILE 704	61
4.1.16	MISSILE 706	62
4.1.17	MISSILE 707	63
4.1.18	MISSILE 709	64
4.1.19	MISSILE 711	65

SUMMARY

This document is prepared in accordance with BSD Exhibit 62-110 dated 3 August 1962, "Missile Assembly Facility Requirements for Mass Properties Data." It contains the actual sealant weight and balance summary for Wing II missiles, the weight effect of all changes incorporated at Plant 77 not reported in D2-13946-X, and a configuration page for each missile included in this report.

- 1.0 INTRODUCTION
- 1.1 REFERENCES
 - 1.1.1 CCN 258 to AF O4(647)-580
 - 1.1.2 BSD Exhibit 62-110 dated 3 August 1962, Missile Assembly Facility Requirements for Mass Properties Data.
 - 1.1.3 Boeing Document D2-13946-X, "Flight Article Mass Properties Report for Minuteman Wing II Components".
- 1.2 DISCUSSION

This Mass Properties Report is presented in accordance with Section 3.2 reference 1.1.2.

Section 2.1 lists the actual weight and balance summary of Boeing sealant added at Plant 77.

Section 2.2 of the report lists the weight and balance of Autonetics sealant added at Plant 77.

Section 3.0 lists all the Boeing responsibility changes incorporated in the missile at time of delivery, not reported in reference 1.1.3.

Section 4.0 contains Configuration Summaries listing the serial numbers of major components for missiles included in this report.

2.1.1 WEIGHT AND BALANCE SUMMARY • BOEING SEALANT INSTALLED AT AF PLANT 77 MISSILE S/N 63-197 (674)						REPORT NO. D2-13947-3 DATE July 1, 1963				
31 11	32 12	DESCRIPTION	DATA	EXPENDED WEIGHT (LB)	TOTAL WEIGHT (LB)	CENTER OF GRAVITY			INERTIA SLUG FT ² x10 ⁻³	
						LONG.*	LAT.	VERT.	ROLL	PITCH
1	41	RV Spacer								
2			Silo							
3			Aero							
4	39	CTLI Section								
5			Silo							
6			Aero							
7	42	G&C Section								
8			Silo							
9			Aero							
10	44	3rd Stage Engine			.89	95.9	108.6	115.0		
11			Silo							
12			Aero							
13			Base							
14	45	Interstage 2-3			3.32	59.8	100.8	104.3		
15		(Fwd)	Silo							
16			Aero							
17			Base							
18			Silo							
19		Jettisoned	Aero							
20		Portion	Base							
21			Jett	2.31		58.9	97.5	101.7		
22	45	Interstage 2-3			.56	81.2	107.6	113.1		
23		(Aft)	Silo							
24			Aero							
25	46	2nd Stage Engine			2.39	121.3	109.4	116.2		
26			Silo							
27			Aero							
28			Base							
29	47	Interstage 1-2			2.61	65.9	103.8	109.8		
30		(Fwd)	Silo							
31			Aero							
32			Base							
33			Silo							
34		Jettisoned	Aero							
35		Portion	Base							
36			Jett	1.66		68.8	99.6	107.1		
37	47	Interstage 1-2			.86	96.9	109.8	116.4		
38		(Aft)	Silo							
39			Aero							
40	48	1st Stage Engine			2.77	199.3	112.9	122.2		
41			Silo							
42			Aero							
43			Base							
44	49	Skirt			4.02	64.2	108.2	110.9		
45			Silo							
46			Aero							
47			Base							
48		MISSILE			17.42					
49			Silo							
50			Aero							
51			Base							
52			Jett							

*Boeing Section Stations (See Missile Diagram)
2-5550-0-58

BOEING

VOL

SEC

NO D2-13947-3

PAGE

8



2.1.2 WEIGHT AND BALANCE SUMMARY • BOEING SEALANT INSTALLED AT AF PLANT 77 MISSILE S/N 63-198 (676)						REPORT NO. D2-13947-3 DATE July 1, 1963				
3 1 1	3 1 2	DESCRIPTION	DATA	EXPENDED WEIGHT (LB)	TOTAL WEIGHT (LB)	CENTER OF GRAVITY			INERTIA SLUG FT ² x10 ⁻³	
						LONG.*	LAT.	VERT.	ROLL	PITCH
1	41	RV Spacer								
2			Silo							
3			Aero							
4	39	CTLI Section								
5			Silo							
6			Aero							
7	42	G&C Section								
8			Silo							
9			Aero							
10	44	3rd Stage Engine			1.59	95.2	109.3	116.1		
11			Silo							
12			Aero							
13			Base							
14	45	Interstage 2-3			3.02	60.1	99.3	104.0		
15		(Fwd)	Silo							
16			Aero							
17			Base							
18			Silo							
19		Jettisoned	Aero							
20		Portion	Base							
21			Jett	2.17		59.9	96.2	101.1		
22	45	Interstage 2-3			.49	81.0	107.3	112.6		
23		(Aft)	Silo							
24			Aero							
25	46	2nd Stage Engine			2.13	122.6	109.2	115.9		
26			Silo							
27			Aero							
28			Base							
29	47	Interstage 1-2			2.79	65.4	104.1	110.2		
30		(Fwd)	Silo							
31			Aero							
32			Base							
33			Silo							
34		Jettisoned	Aero							
35		Portion	Base							
36			Jett	1.70		68.4	99.6	107.7		
37	47	Interstage 1-2			.86	98.0	110.5	117.9		
38		(Aft)	Silo							
39			Aero							
40	48	1st Stage Engine			2.19	198.5	113.1	122.6		
41			Silo							
42			Aero							
43			Base							
44	49	Skirt			2.55	63.1	108.0	110.4		
45			Silo							
46			Aero							
47			Base							
48		MISSILE			15.62					
49			Silo							
50			Aero							
51			Base							
52			Jett							

*Boeing Section Stations (See Missile Diagram)
2-5550-0-58

2.1.3 WEIGHT AND BALANCE SUMMARY *						REPORT NO. D2-13947-3				
BOEING SEALANT INSTALLED AT AF PLANT 77						DATE July 1, 1963				
MISSILE S/N 63-205 (679)						CENTER OF GRAVITY			INERTIA SLUG FT ² x10 ⁻³	
NO	STATION	DESCRIPTION	DATA	EXPENDED WEIGHT (LB)	TOTAL WEIGHT (LB)	LONG.*	LAT.	VERT.	ROLL	PITCH
1	41	RV Spacer								
2			Silo							
3			Aero							
4	39	CTLI Section								
5			Silo							
6			Aero							
7	42	G&C Section								
8			Silo							
9			Aero							
10	44	3rd Stage Engine			.65	102.0	107.8	113.5		
11			Silo							
12			Aero							
13			Base							
14	45	Interstage 2-3			3.02	59.8	100.5	104.6		
15		(Fwd)	Silo							
16			Aero							
17			Base							
18			Silo							
19		Jettisoned	Aero							
20		Portion	Base							
21			Jett	1.86		60.3	95.2	100.5		
22	45	Interstage 2-3			.36	81.5	108.1	113.9		
23		(Aft)	Silo							
24			Aero							
25	46	2nd Stage Engine			2.38	123.4	109.0	115.7		
26			Silo							
27			Aero							
28			Base							
29	47	Interstage 1-2			3.04	65.6	102.5	109.9		
30		(Fwd)	Silo							
31			Aero							
32			Base							
33			Silo							
34		Jettisoned	Aero							
35		Portion	Base							
36			Jett	1.88		69.2	98.0	108.2		
37	47	Interstage 1-2			.86	96.8	109.6	116.1		
38		(Aft)	Silo							
39			Aero							
40	48	1st Stage Engine			3.05	196.3	113.4	123.1		
41			Silo							
42			Aero							
43			Base							
44	49	Skirt			2.14	60.5	107.5	110.4		
45			Silo							
46			Aero							
47			Base							
48		MISSILE			15.50					
49			Silo							
50			Aero							
51			Base							
52			Jett							

*Boeing Section Stations (See Missile Diagram)
2-5550-0-58

2.1.4 WEIGHT AND BALANCE SUMMARY • BOEING SEATANT INSTALLED AT AF PLANT 77 MISSILE 8/ 63-199 (681)						REPORT NO. D2-13947-3 DATE July 1, 1963				
LINE	33/2	DESCRIPTION	DATA	EXPENDED WEIGHT (LB)	TOTAL WEIGHT (LB)	CENTER OF GRAVITY			INERTIA SLUG FT ² x10 ⁻³	
						LONG.*	LAT.	VERT.	ROLL	PITCH
1	41	RV Spacer								
2			Silo							
3			Aero							
4	39	CTLI Section								
5			Silo							
6			Aero							
7	42	G&C Section								
8			Silo							
9			Aero							
10	44	3rd Stage Engine			.92	96.5	108.9	115.5		
11			Silo							
12			Aero							
13			Base							
14	45	Interstage 2-3			2.90	59.9	100.9	105.5		
15		(Fwd)	Silo							
16			Aero							
17			Base							
18			Silo							
19		Jettisoned	Aero							
20		Portion	Base							
21			Jett	1.98		59.3	97.0	102.2		
22	45	Interstage 2-3			.42	81.4	108.0	113.7		
23		(Aft)	Silo							
24			Aero							
25	46	2nd Stage Engine			1.92	126.9	108.4	114.6		
26			Silo							
27			Aero							
28			Base							
29	47	Interstage 1-2			2.29	65.2	104.6	111.2		
30		(Fwd)	Silo							
31			Aero							
32			Base							
33			Silo							
34		Jettisoned	Aero							
35		Portion	Base							
36			Jett	1.33		69.9	100.5	109.7		
37	47	Interstage 1-2			.84	98.3	110.8	118.3		
38		(Aft)	Silo							
39			Aero							
40	48	1st Stage Engine			2.36	221.1	110.5	118.1		
41			Silo							
42			Aero							
43			Base							
44	49	Skirt			3.03	67.2	107.0	108.4		
45			Silo							
46			Aero							
47			Base							
48		MISSILE			14.68					
49			Silo							
50			Aero							
51			Base							
52			Jett							

*Boeing Section Stations (See Missile Diagram)
2-5550-0-58

BOEING

VOL

NO D2-13947-3

SEC

PAGE 11

2.1.5 WEIGHT AND BALANCE SUMMARY *					REPORT NO. D2-13947-3				
BOEING SEALANT INSTALLED AT AF PLANT 77					DATE July 1, 1963				
MISSILE S/N 63-206 (683)					CENTER OF GRAVITY			INERTIA	
LINE	S	DESCRIPTION	DATA	EXPENDED WEIGHT (LB)	TOTAL WEIGHT (LB)	LONG.*	LAT.	VERT.	SLUG FT ² x10 ⁻³
									ROLL PITCH
1	41	RV Spacer							
2			Silo						
3			Aero						
4	39	CTLI Section							
5			Silo						
6			Aero						
7	42	G&C Section							
8			Silo						
9			Aero						
10	44	3rd Stage Engine			1.12	93.6	109.5	116.6	
11			Silo						
12			Aero						
13			Base						
14	45	Interstage 2-3			3.18	60.4	101.6	105.1	
15		(Fwd)	Silo						
16			Aero						
17			Base						
18			Silo						
19		Jettisoned	Aero						
20		Portion	Base						
21			Jett	2.13		58.8	97.7	101.8	
22	45	Interstage 2-3			.44	80.3	106.2	110.6	
23		(Aft)	Silo						
24			Aero						
25	46	2nd Stage Engine			1.92	120.7	109.4	116.2	
26			Silo						
27			Aero						
28			Base						
29	47	Interstage 1-2			2.91	62.3	108.3	114.7	
30		(Fwd)	Silo						
31			Aero						
32			Base						
33			Silo						
34		Jettisoned	Aero						
35		Portion	Base						
36			Jett	.99		67.2	101.8	112.8	
37	47	Interstage 1-2			.93	97.8	110.4	117.6	
38		(Aft)	Silo						
39			Aero						
40	48	1st Stage Engine			2.52	227.7	109.2	115.8	
41			Silo						
42			Aero						
43			Base						
44	49	Skirt			2.70	64.5	106.2	108.9	
45			Silo						
46			Aero						
47			Base						
48		MISSILE			15.72				
49			Silo						
50			Aero						
51			Base						
52			Jett						

*Boeing Section Stations (See Missile Diagram)
2-5550-0-58

BOEING

VOL

NO D2-13947-3

SEC

PAGE 12

2.1.6 WEIGHT AND BALANCE SUMMARY • BOEING SEALANT INSTALLED AT AF PLANT 77 MISSILE S/N 63-200 (686)						REPORT NO. D2-13947-3 DATE 7/1/63				
NO	STATION	DESCRIPTION	DATA	EXPENDED WEIGHT (LB)	TOTAL WEIGHT (LB)	CENTER OF GRAVITY			INERTIA SLUG FT ² x10 ⁻³	
						LONG.*	LAT.	VERT.	ROLL	PITCH
1	41	RV Spacer								
2			Silo							
3			Aero							
4	39	CTLI Section								
5			Silo							
6			Aero							
7	42	G&C Section								
8			Silo							
9			Aero							
10	44	3rd Stage Engine			.97	97.9	108.5	114.7		
11			Silo							
12			Aero							
13			Base							
14	45	Interstage 2-3			2.57	59.4	100.1	104.2		
15		(Fwd)	Silo							
16			Aero							
17			Base							
18			Silo							
19		Jettisoned	Aero							
20		Portion	Base							
21			Jett	1.88		59.1	97.3	102.0		
22	45	Interstage 2-3			.50	81.2	107.6	113.1		
23		(Aft)	Silo							
24			Aero							
25	46	2nd Stage Engine			1.97	124.9	108.8	115.3		
26			Silo							
27			Aero							
28			Base							
29	47	Interstage 1-2			2.42	65.3	102.9	109.5		
30		(Fwd)	Silo							
31			Aero							
32			Base							
33			Silo							
34		Jettisoned	Aero							
35		Portion	Base							
36			Jett	1.65		68.4	99.7	107.9		
37	47	Interstage 1-2			.94	94.5	107.8	112.9		
38		(Aft)	Silo							
39			Aero							
40	48	1st Stage Engine			2.12	216.7	110.4	118.0		
41			Silo							
42			Aero							
43			Base							
44	49	Skirt			3.64	68.3	108.7	109.4		
45			Silo							
46			Aero							
47			Base							
48		MISSILE			15.13					
49			Silo							
50			Aero							
51			Base							
52			Jett							

*Boeing Section Stations (See Missile Diagram)
2-5550-0-58

BOEING

VOL

NO D2-13947-3

SEC

PAGE

13

2.1.7 WEIGHT AND BALANCE SUMMARY *						REPORT NO. <u>D2-13947-3</u>				
BOEING SEALANT INSTALLED AT AF PLANT 77						DATE <u>July 1, 1963</u>				
MISSILE S/N 63-225 (687)						CENTER OF GRAVITY			INERTIA	
LINE	STATION	DESCRIPTION	DATA	EXPENDED WEIGHT (LB)	TOTAL WEIGHT (LB)				SLUG FT ² x10-3	
						LONG.*	LAT.	VERT.	ROLL	PITCH
1	41	RV Spacer								
2			Silo							
3			Aero							
4	39	CTLI Section								
5			Silo							
6			Aero							
7	42	G&C Section								
8			Silo							
9			Aero							
10	44	3rd Stage Engine		.91	96.5	108.8	115.4			
11			Silo							
12			Aero							
13			Base							
14	45	Interstage 2-3		3.17	59.1	100.8	104.7			
15		(Fwd)	Silo							
16			Aero							
17			Base							
18			Silo							
19		Jettisoned	Aero							
20		Portion	Base							
21			Jett	2.37	58.5	98.1	102.5			
22	45	Interstage 2-3		.50	80.3	106.1	110.5			
23		(Aft)	Silo							
24			Aero							
25	46	2nd Stage Engine		2.29	119.9	109.6	116.6			
26			Silo							
27			Aero							
28			Base							
29	47	Interstage 1-2		2.28	66.5	102.8	109.3			
30		(Fwd)	Silo							
31			Aero							
32			Base							
33			Silo							
34		Jettisoned	Aero							
35		Portion	Base							
36			Jett	1.57	68.8	99.7	107.8			
37	47	Interstage 1-2		.82	96.8	109.6	116.2			
38		(Aft)	Silo							
39			Aero							
40	48	1st Stage Engine		2.90	195.0	113.5	123.3			
41			Silo							
42			Aero							
43			Base							
44	49	Skirt		3.49	65.0	105.8	107.5			
45			Silo							
46			Aero							
47			Base							
48		MISSILE		16.36						
49			Silo							
50			Aero							
51			Base							
52			Jett							

*Boeing Section Stations (See Missile Diagram)
2-5550-0-58

BOEING

VOL

SEC

NO D2-13947-3

PAGE 14



2.1.8 WEIGHT AND BALANCE SUMMARY • BOEING SEALANT INSTALLED AT AF PLANT 77 MISSILE S/N 63-207(688)						REPORT NO. D2-13947-3 DATE July 1, 1963				
LINE	ITEM	DESCRIPTION	DATA	EXPENDED WEIGHT (LB)	TOTAL WEIGHT (LB)	CENTER OF GRAVITY			INERTIA SLUG FT ² x10 ⁻³	
						LONG.*	LAT.	VERT.	ROLL	PITCH
1	41	RV Spacer								
2			Silo							
3			Aero							
4	39	CTLI Section								
5			Silo							
6			Aero							
7	42	G&C Section								
8			Silo							
9			Aero							
10	44	3rd Stage Engine			1.03	98.6	108.5	114.7		
11			Silo							
12			Aero							
13			Base							
14	45	Interstage 2-3			2.70	60.3	99.5	104.1		
15		(Fwd)	Silo							
16			Aero							
17			Base							
18			Silo							
19		Jettisoned	Aero							
20		Portion	Base							
21			Jett	1.96		59.7	96.1	101.7		
22	45	Interstage 2-3			.36	81.7	108.4	114.4		
23		(Aft)	Silo							
24			Aero							
25	46	2nd Stage Engine			1.77	112.7	109.2	115.9		
26			Silo							
27			Aero							
28			Base							
29	47	Interstage 1-2			2.59	64.9	103.6	109.2		
30		(Fwd)	Silo							
31			Aero							
32			Base							
33			Silo							
34		Jettisoned	Aero							
35		Portion	Base							
36			Jett	1.41		68.5	98.5	106.3		
37	47	Interstage 1-2			.81	102.6	114.2	124.4		
38		(Aft)	Silo							
39			Aero							
40	48	1st Stage Engine			1.82	203.2	112.5	121.6		
41			Silo							
42			Aero							
43			Base							
44	49	Skirt			4.21	62.5	106.3	109.4		
45			Silo							
46			Aero							
47			Base							
48		MISSILE			15.29					
49			Silo							
50			Aero							
51			Base							
52			Jett							

*Boeing Section Stations (See Missile Diagram)
2-5550-0-58

BOEING

VOL

NO D2-13947-3

SEC

PAGE 15



2.1.9 WEIGHT AND BALANCE SUMMARY • BOEING SEALANT INSTALLED AT AF PLANT 77 MISSILE S/N 63-201 (690)						REPORT NO. D2-13947-3		DATE July 1, 1963		
NO	STATION	DESCRIPTION	DATA	EXPENDED WEIGHT (LB)	TOTAL WEIGHT (LB)	CENTER OF GRAVITY			INERTIA SLUG FT ² x10 ⁻³	
						LONG.*	LAT.	VERT.	ROLL	PITCH
1	41	RV Spacer								
2			Silo							
3			Aero							
4	39	CTLI Section								
5			Silo							
6			Aero							
7	42	G&C Section								
8			Silo							
9			Aero							
10	44	3rd Stage Engine			1.50	96.3	108.8	115.4		
11			Silo							
12			Aero							
13			Base							
14	45	Interstage 2-3			2.23	63.4	101.1	105.8		
15		(Fwd)	Silo							
16			Aero							
17			Base							
18			Silo							
19		Jettisoned	Aero							
20		Portion	Base							
21			Jett	1.13		61.8	94.3	101.8		
22	45	Interstage 2-3			.35	80.8	107.1	112.1		
23		(Aft)	Silo							
24			Aero							
25	46	2nd Stage Engine			2.39	123.7	108.8	115.2		
26			Silo							
27			Aero							
28			Base							
29	47	Interstage 1-2			2.51	65.3	102.9	109.0		
30		(Fwd)	Silo							
31			Aero							
32			Base							
33			Silo							
34		Jettisoned	Aero							
35		Portion	Base							
36			Jett	1.51		69.1	99.0	107.4		
37	47	Interstage 1-2			.71	96.4	109.4	115.7		
38		(Aft)	Silo							
39			Aero							
40	48	1st Stage Engine			3.39	207.1	111.8	120.8		
41			Silo							
42			Aero							
43			Base							
44	49	Skirt			1.87	62.7	107.6	111.3		
45			Silo							
46			Aero							
47			Base							
48		MISSILE			14.95					
49			Silo							
50			Aero							
51			Base							
52			Jett							

*Boeing Section Stations (See Missile Diagram)
2-5550-0-58

BOEING

VOL

SEC

NO D2-13947-3

PAGE 16



2.1.10 WEIGHT AND BALANCE SUMMARY • BOEING SEALANT INSTALLED AT AF PLANT 77 MISSILE S/N 63-208 (693)						REPORT NO. D2-1397-3 DATE July 1, 1963				
S/N	STATION	DESCRIPTION	DATA	EXPENDED WEIGHT (LB)	TOTAL WEIGHT (LB)	CENTER OF GRAVITY			INERTIA SLUG FT ² x10 ⁻³	
						LONG.*	LAT.	VERT.	ROLL	PITCH
1	41	RV Spacer								
2			Silo							
3			Aero							
4	39	CTLI Section								
5			Silo							
6			Aero							
7	42	G&C Section								
8			Silo							
9			Aero							
10	44	3rd Stage Engine			1.19	101.2	107.8	113.5		
11			Silo							
12			Aero							
13			Base							
14	45	Interstage 2-3			2.47	58.4	100.4	104.3		
15		(Fwd)	Silo							
16			Aero							
17			Base							
18			Silo							
19		Jettisoned	Aero							
20		Portion	Base							
21			Jett	1.94		58.6	98.2	102.8		
22	45	Interstage 2-3			.33	82.3	109.4	116.2		
23		(Aft)	Silo							
24			Aero							
25	46	2nd Stage Engine			2.38	121.8	109.1	115.8		
26			Silo							
27			Aero							
28			Base							
29	47	Interstage 1-2			2.09	68.1	100.6	106.7		
30		(Fwd)	Silo							
31			Aero							
32			Base							
33			Silo							
34		Jettisoned	Aero							
35		Portion	Base							
36			Jett	1.53		70.2	98.6	106.5		
37	47	Interstage 1-2			.84	95.7	108.8	114.6		
38		(Aft)	Silo							
39			Aero							
40	48	1st Stage Engine			2.46	206.0	111.8	120.4		
41			Silo							
42			Aero							
43			Base							
44	49	Skirt			3.18	64.5	108.2	109.6		
45			Silo							
46			Aero							
47			Base							
48		MISSILE			14.67					
49			Silo							
50			Aero							
51			Base							
52			Jett							

*Boeing Section Stations (See Missile Diagram)
2-5550-0-58

BOEING

VOL

NO D2-13947-3

SEC

PAGE 17

2.1.1 WEIGHT AND BALANCE SUMMARY • BOEING SEALANT PROVIDED AT AF PLANT 77 MISSILE S/N 63-183 (695)						REPORT NO. <u>D2-13947-3</u> DATE <u>July 1, 1963</u>				
LINE	ITEM	DESCRIPTION	DATA	EXPENDED WEIGHT (LB)	TOTAL WEIGHT (LB)	CENTER OF GRAVITY			INERTIA SLUG FT ² x10 ⁻³	
						LONG.*	LAT.	VERT.	ROLL	PITCH
1	41	RV Spacer								
2			Silo							
3			Aero							
4	39	CTLI Section								
5			Silo							
6			Aero							
7	42	G&C Section								
8			Silo							
9			Aero							
10	44	3rd Stage Engine			.22	121.6	103.6	105.8		
11			Silo							
12			Aero							
13			Base							
14	45	Interstage 2-3			2.41	60.2	99.5	102.8		
15		(Fwd)	Silo							
16			Aero							
17			Base							
18			Silo							
19		Jettisoned	Aero							
20		Portion	Base							
21			Jett	1.68		59.5	95.7	99.7		
22	45	Interstage 2-3			.16	76.7	100.4	100.5		
23		(Aft)	Silo							
24			Aero							
25	46	2nd Stage Engine			.60	174.9	101.1	101.9		
26			Silo							
27			Aero							
28			Base							
29	47	Interstage 1-2			1.86	65.4	104.3	109.8		
30		(Fwd)	Silo							
31			Aero							
32			Base							
33			Silo							
34		Jettisoned	Aero							
35		Portion	Base							
36			Jett	.79		74.3	97.9	107.0		
37	47	Interstage 1-2			.85	87.6	102.4	103.2		
38		(Aft)	Silo							
39			Aero							
40	48	1st Stage Engine			.57	287.2	100.9	101.5		
41			Silo							
42			Aero							
43			Base							
44	49	Skirt			2.47	67.2	104.9	105.2		
45			Silo							
46			Aero							
47			Base							
48		MISSILE			9.14					
49			Silo							
50			Aero							
51			Base							
52			Jett							

*Boeing Section Stations (See Missile Diagram)
2-5550-0-58

BOEING

VOL

SEC

NO D2-13947-3

PAGE 18



2.1.12 WEIGHT AND BALANCE SUMMARY *						REPORT NO. <u>D2-13947-3</u>				
BOEING SEALANT INSTALLED AT AF PLANT 77						DATE <u>July 1, 1963</u>				
MISSILE S/N <u>63-202 (697)</u>						CENTER OF GRAVITY			INERTIA	
ITEM	S/N	DESCRIPTION	DATA	EXPENDED WEIGHT (LB)	TOTAL WEIGHT (LB)	LONG.*	LAT.	VERT.	ROLL	PITCH
1	41	RV Spacer								
2			Silo							
3			Aero							
4	39	CTLI Section								
5			Silo							
6			Aero							
7	42	G&C Section								
8			Silo							
9			Aero							
10	44	3rd Stage Engine			1.17	105.1	108.7	114.8		
11			Silo							
12			Aero							
13			Base							
14	45	Interstage 2-3			2.89	59.6	101.7	105.5		
15		(Fwd)	Silo							
16			Aero							
17			Base							
18			Silo							
19		Jettisoned	Aero							
20		Portion	Base							
21			Jett	1.93		58.5	98.0	102.3		
22	45	Interstage 2-3			.29	81.0	107.3	112.6		
23		(Aft)	Silo							
24			Aero							
25	46	2nd Stage Engine			2.32	126.6	108.2	114.2		
26			Silo							
27			Aero							
28			Base							
29	47	Interstage 1-2			2.58	65.7	103.8	109.8		
30		(Fwd)	Silo							
31			Aero							
32			Base							
33			Silo							
34		Jettisoned	Aero							
35		Portion	Base							
36			Jett	1.63		69.1	100.1	107.7		
37	47	Interstage 1-2			.64	98.5	111.0	118.6		
38		(Aft)	Silo							
39			Aero							
40	48	1st Stage Engine			2.35	199.5	112.7	121.8		
41			Silo							
42			Aero							
43			Base							
44	49	Skirt			2.86	67.3	109.0	110.6		
45			Silo							
46			Aero							
47			Base							
48		MISSILE			15.10					
49			Silo							
50			Aero							
51			Base							
52			Jett							

*Boeing Section Stations (See Missile Diagram)
2-5550-0-58

BOEING

VOL

SEC

NO D2-13947-3

PAGE 19

2.1.1 WEIGHT AND BALANCE						REPORT NO. D2-13947-3				
BOEING SEALANT INSTALLED AT AF PLANT 77						DATE July 1, 1963				
MISSILE S/N 63-209 (700)						CENTER OF GRAVITY			INERTIA	
STATION	STATION	DESCRIPTION	DATA	EXPENDED WEIGHT (LB)	TOTAL WEIGHT (LB)	CENTER OF GRAVITY			SLUG FT ² x10 ⁻³	
						LONG.*	LAT.	VERT.	ROLL	PITCH
1	41	RV Spacer								
2			Silo							
3			Aero							
4	39	CTLI Section								
5			Silo							
6			Aero							
7	42	G&C Section								
8			Silo							
9			Aero							
10	44	3rd Stage Engine			.97	96.8	108.7	115.2		
11			Silo							
12			Aero							
13			Base							
14	45	Interstage 2-3			3.06	60.8	100.7	104.4		
15		(Fwd)	Silo							
16			Aero							
17			Base							
18			Silo							
19		Jettisoned	Aero							
20		Portion	Base							
21			Jett	2.16		58.4	97.9	101.9		
22	45	Interstage 2-3			.71	79.6	105.2	108.8		
23		(Aft)	Silo							
24			Aero							
25	46	2nd Stage Engine			2.31	128.0	107.6	114.1		
26			Silo							
27			Aero							
28			Base							
29	47	Interstage 1-2			2.34	65.2	103.9	109.8		
30		(Fwd)	Silo							
31			Aero							
32			Base							
33			Silo							
34		Jettisoned	Aero							
35		Portion	Base							
36			Jett	1.29		69.1	99.1	107.3		
37	47	Interstage 1-2			.75	96.2	109.2	115.3		
38		(Aft)	Silo							
39			Aero							
40	48	1st Stage Engine			2.67	196.3	113.1	122.5		
41			Silo							
42			Aero							
43			Base							
44	49	Skirt			2.53	65.5	106.3	108.7		
45			Silo							
46			Aero							
47			Base							
48		MISSILE			15.34					
49			Silo							
50			Aero							
51			Base							
52			Jett							

*Boeing Section Stations (See Missile Diagram)
2-5550-0-58

BOEING

VOL

SEC

NO D2-13947-3

PAGE

20



2.1.14 WEIGHT AND BALANCE SUMMARY • BOEING SPALANT INSTALLED AT AF PLANT 77 MISSILE S/N 63-203 (702)						REPORT NO. D2-13947-3				
						DATE July 1, 1963				
LINE	ITEM	DESCRIPTION	DATA	EXPENDED WEIGHT (LB)	TOTAL WEIGHT (LB)	CENTER OF GRAVITY			INERTIA	
						LONG.*	LAT.	VERT.	SLUG FT ² X10 ⁻³	ROLL PITCH
1	41	RV Spacer								
2			Silo							
3			Aero							
4	39	CTLI Section								
5			Silo							
6			Aero							
7	42	G&C Section								
8			Silo							
9			Aero							
10	44	3rd Stage Engine			1.15	100.3	108.7	115.0		
11			Silo							
12			Aero							
13			Base							
14	45	Interstage 2-3			2.95	60.0	101.1	105.0		
15		(Fwd)	Silo							
16			Aero							
17			Base							
18			Silo							
19		Jettisoned	Aero							
20		Portion	Base							
21		Jett		1.93		59.2	97.0	101.6		
22	45	Interstage 2-3			.39	80.6	106.7	111.4		
23		(Aft)	Silo							
24			Aero							
25	46	2nd Stage Engine			1.89	124.8	108.6	114.9		
26			Silo							
27			Aero							
28			Base							
29	47	Interstage 1-2			2.70	65.1	103.8	109.2		
30		(Fwd)	Silo							
31			Aero							
32			Base							
33			Silo							
34		Jettisoned	Aero							
35		Portion	Base							
36		Jett		1.55		68.6	99.3	106.3		
37	47	Interstage 1-2			.58	99.0	111.4	119.0		
38		(Aft)	Silo							
39			Aero							
40	48	1st Stage Engine			3.04	209.3	111.3	119.5		
41			Silo							
42			Aero							
43			Base							
44	49	Skirt			3.04	63.0	106.0	107.7		
45			Silo							
46			Aero							
47			Base							
48		MISSILE			15.74					
49			Silo							
50			Aero							
51			Base							
52			Jett							

*Boeing Section Stations (See Missile Diagram)
2-5550-O-58

BOEING

VOL

SEC

NO D2-13947-3

PAGE

21



2.1.15 WEIGHT AND BALANCE SUMMARY • BOEING SEALANT INSTALLED AT AF PLANT 77 MISSILE S/N 63-210 (704)						REPORT NO. D2-13947-3 DATE July 1, 1963				
LINE	ITEM	DESCRIPTION	DATA	EXPENDED WEIGHT (LB)	TOTAL WEIGHT (LB)	CENTER OF GRAVITY			INERTIA SLUG FT ² x10-3	
						LONG.°	LAT.	VERT.	ROLL	PITCH
1	41	RV Spacer								
2			Silo							
3			Aero							
4	39	CTLI Section								
5			Silo							
6			Aero							
7	42	G&C Section								
8			Silo							
9			Aero							
10	44	3rd Stage Engine			.96	96.6	108.8	115.3		
11			Silo							
12			Aero							
13			Base							
14	45	Interstage 2-3			2.38	59.8	99.5	103.7		
15		(Fwd)	Silo							
16			Aero							
17			Base							
18			Silo							
19		Jettisoned	Aero							
20		Portion	Base							
21			Jett	1.73		59.3	96.7	101.6		
22	45	Interstage 2-3			.91	78.7	103.5	106.0		
23		(Aft)	Silo							
24			Aero							
25	46	2nd Stage Engine			3.33	138.4	106.6	111.4		
26			Silo							
27			Aero							
28			Base							
29	47	Interstage 1-2			2.16	65.5	101.6	109.2		
30		(Fwd)	Silo							
31			Aero							
32			Base							
33			Silo							
34		Jettisoned	Aero							
35		Portion	Base							
36			Jett	1.53		65.5	101.6	109.2		
37	47	Interstage 1-2			.60	96.3	109.2	115.4		
38		(Aft)	Silo							
39			Aero							
40	48	1st Stage Engine			2.65	197.4	113.0	122.4		
41			Silo							
42			Aero							
43			Base							
44	49	Skirt			4.44	64.0	103.7	105.4		
45			Silo							
46			Aero							
47			Base							
48		MISSILE			17.43					
49			Silo							
50			Aero							
51			Base							
52			Jett							

*Boeing Section Stations (See Missile Diagram)
2-5550-0-58

BOEING

VOL

SEC

NO D2-13947-3

PAGE 22



2.1.16 WEIGHT AND BALANCE SUMMARY • BOEING SEALANT INCORPORATED AT AF PLANT 77 MISSILE S/N 63-226 (706)						REPORT NO. D2-13947-3 DATE July 1, 1963				
Q 13 1	Q 13 2	DESCRIPTION	DATA	EXPENDED WEIGHT (LB)	TOTAL WEIGHT (LB)	CENTER OF GRAVITY			INERTIA SLUG FT ² x10 ⁻³	
						LONG.*	LAT.	VERT.	ROLL	PITCH
1	41	RV Spacer								
2			Silo							
3			Aero							
4	39	CTLI Section								
5			Silo							
6			Aero							
7	42	G&C Section								
8			Silo							
9			Aero							
10	44	3rd Stage Engine			1.18	102.6	107.8	113.5		
11			Silo							
12			Aero							
13			Base							
14	45	Interstage 2-3			2.83	61.0	108.6	110.9		
15		(Fwd)	Silo							
16			Aero							
17			Base							
18			Silo							
19		Jettisoned	Aero							
20		Portion	Base							
21			Jett	2.00		59.0	97.4	102.5		
22	45	Interstage 2-3			.47	82.0	108.7	115.1		
23		(Aft)	Silo							
24			Aero							
25	46	2nd Stage Engine			2.16	127.1	108.3	114.3		
26			Silo							
27			Aero							
28			Base							
29	47	Interstage 1-2			3.04	65.6	103.2	109.0		
30		(Fwd)	Silo							
31			Aero							
32			Base							
33			Silo							
34		Jettisoned	Aero							
35		Portion	Base							
36			Jett	2.06		68.6	100.0	106.9		
37	47	Interstage 1-2			.78	97.2	110.0	116.8		
38		(Aft)	Silo							
39			Aero							
40	48	1st Stage Engine			2.85	202.8	112.4	121.3		
41			Silo							
42			Aero							
43			Base							
44	49	Skirt			3.05	64.4	108.3	110.6		
45			Silo							
46			Aero							
47			Base							
48		MISSILE			16.36					
49			Silo							
50			Aero							
51			Base							
52			Jett							

*Boeing Section Stations (See Missile Diagram)
2-5550-0-58

1.1.17 WEIGHT AND BALANCE SUMMARY • BOEING SEALANT INSTALLED AT AF PLANT 77 MISSILE S/N 63-204 (707)						REPORT NO. D2-13947-3 DATE July 1, 1963				
LINE	S.S.	DESCRIPTION	DATA	EXPENDED WEIGHT (LB)	TOTAL WEIGHT (LB)	CENTER OF GRAVITY			INERTIA SLUG FT ² x10-3	
						LONG.*	LAT.	VERT.	ROLL	PITCH
1	41	RV Spacer								
2			Silo							
3			Aero							
4	39	CTLI Section								
5			Silo							
6			Aero							
7	42	G&C Section								
8			Silo							
9			Aero							
10	44	3rd Stage Engine			.89	100.4	108.5	114.6		
11			Silo							
12			Aero							
13			Base							
14	45	Interstage 2-3			3.02	59.7	100.2	104.2		
15		(Fwd)	Silo							
16			Aero							
17			Base							
18			Silo							
19		Jettisoned	Aero							
20		Portion	Base							
21			Jett	2.16		59.2	96.8	101.6		
22	45	Interstage 2-3			.57	79.1	104.3	107.3		
23		(Aft)	Silo							
24			Aero							
25	46	2nd Stage Engine			2.19	123.9	108.6	114.9		
26			Silo							
27			Aero							
28			Base							
29	47	Interstage 1-2			2.89	64.1	104.1	109.4		
30		(Fwd)	Silo							
31			Aero							
32			Base							
33			Silo							
34		Jettisoned	Aero							
35		Portion	Base							
36			Jett	1.57		69.7	98.9	108.0		
37	47	Interstage 1-2			.93	96.1	109.1	115.2		
38		(Aft)	Silo							
39			Aero							
40	48	1st Stage Engine			2.39	228.2	109.0	115.6		
41			Silo							
42			Aero							
43			Base							
44	49	Skirt			3.44	65.8	105.4	106.7		
45			Silo							
46			Aero							
47			Base							
48		MISSILE			16.32					
49			Silo							
50			Aero							
51			Base							
52			Jett							

*Boeing Section Stations (See Missile Diagram)
2-5550-0-58

BOEING

VOL

SEC

NO D2-13947-3

PAGE 24



2.1.18 WEIGHT AND BALANCE SUMMARY • BOEING SEALANT INSTALLED AT AF PLANT 77 MISSILE S/N 63-211 (709)						REPORT NO. D2-13947-3 DATE July 1, 1963				
NO	STATION	DESCRIPTION	DATA	EXPENDED WEIGHT (LB)	TOTAL WEIGHT (LB)	CENTER OF GRAVITY			INERTIA SLUG FT ² x10 ⁻³	
						LONG.*	LAT.	VERT.	ROLL	PITCH
1	41	RV Spacer								
2			Silo							
3			Aero							
4	39	CTLI Section								
5			Silo							
6			Aero							
7	42	G&C Section								
8			Silo							
9			Aero							
10	44	3rd Stage Engine			.81	94.2	108.7	115.3		
11			Silo							
12			Aero							
13			Base							
14	45	Interstage 2-3			3.01	61.3	99.6	103.5		
15		(Fwd)	Silo							
16			Aero							
17			Base							
18			Silo							
19		Jettisoned	Aero							
20		Portion	Base							
21			Jett	2.37		61.6	97.0	101.3		
22	45	Interstage 2-3			.38	80.5	106.5	111.2		
23		(Aft)	Silo							
24			Aero							
25	46	2nd Stage Engine			2.47	112.9	106.0	113.0		
26			Silo							
27			Aero							
28			Base							
29	47	Interstage 1-2			3.08	68.0	99.3	107.7		
30		(Fwd)	Silo							
31			Aero							
32			Base							
33			Silo							
34		Jettisoned	Aero							
35		Portion	Base							
36			Jett	2.20		71.1	95.3	106.0		
37	47	Interstage 1-2			.70	96.3	109.2	115.5		
38		(Aft)	Silo							
39			Aero							
40	48	1st Stage Engine			2.35	215.2	110.7	118.4		
41			Silo							
42			Aero							
43			Base							
44	49	Skirt			2.87	65.5	106.0	107.6		
45			Silo							
46			Aero							
47			Base							
48		MISSILE			15.67					
49			Silo							
50			Aero							
51			Base							
52			Jett							

*Boeing Section Stations (See Missile Diagram)
2-5550-0-58

2.1.19 WEIGHT AND BALANCE SUMMARY *						REPORT NO. D2-13947-3			
BOEING SEALANT INSTALLED AT AF PLANT 77						DATE July 1, 1963			
MISSILE S/N 63-215 (711)						CENTER OF GRAVITY			INERTIA
LINE NO.	STATION	DESCRIPTION	DATA	EXPENDED WEIGHT (LB)	TOTAL WEIGHT (LB)	LONG.*	LAT.	VERT.	SLUG FT ² x10 ⁻³
									ROLL PITCH
1	41	RV Spacer							
2			Silo						
3			Aero						
4	39	CTLI Section							
5			Silo						
6			Aero						
7	42	G&C Section							
8			Silo						
9			Aero						
10	44	3rd Stage Engine			1.08	97.4	107.8	113.7	
11			Silo						
12			Aero						
13			Base						
14	45	Interstage 2-3			3.11	58.6	101.3	105.3	
15		(Fwd)	Silo						
16			Aero						
17			Base						
18			Silo						
19		Jettisoned	Aero						
20		Portion	Base						
21			Jett	1.99		59.2	97.1	101.9	
22	45	Interstage 2-3			.47	81.6	108.3	114.3	
23		(Aft)	Silo						
24			Aero						
25	46	2nd Stage Engine			2.27	120.7	109.1	115.8	
26			Silo						
27			Aero						
28			Base						
29	47	Interstage 1-2			2.59	65.3	102.5	108.2	
30		(Fwd)	Silo						
31			Aero						
32			Base						
33			Silo						
34		Jettisoned	Aero						
35		Portion	Base						
36			Jett	1.60		69.0	98.7	106.3	
37	47	Interstage 1-2			.70	97.6	110.3	117.3	
38		(Aft)	Silo						
39			Aero						
40	48	1st Stage Engine			1.93	236.9	107.8	113.4	
41			Silo						
42			Aero						
43			Base						
44	49	Skirt			2.96	64.5	103.6	104.8	
45			Silo						
46			Aero						
47			Base						
48		MISSILE			15.11				
49			Silo						
50			Aero						
51			Base						
52			Jett						

*Boeing Section Stations (See Missile Diagram)
2-5550-0-58

2.2.1 WEIGHT AND BALANCE SUMMARY - AUTONETICS
SEALANT INSTALLED AT AF PLANT 77.
MISSILE S/N 63-197 (674)

REPORT NO. **D2-13947-3**
DATE **July 1, 1963**

NO	STATION	DESCRIPTION	DATA	EXPENDED WEIGHT (LB)	TOTAL WEIGHT (LB)	CENTER OF GRAVITY			INERTIA SLUG FT ² x10 ⁻³	
						LONG.*	LAT.	VERT.	ROLL	PITCH
1	41	RV Spacer								
2			Silo							
3			Aero							
4	39	CTLI Section								
5			Silo							
6			Aero							
7	42	G&C Section								
8			Silo							
9			Aero							
10	44	3rd Stage Engine			1.75	117.5	100.4	100.6		
11			Silo							
12			Aero							
13			Base							
14	45	Interstage 2-3								
15		(Fwd)	Silo							
16			Aero							
17			Base							
18			Silo							
19		Jettisoned	Aero							
20		Portion	Base							
21			Jett							
22	45	Interstage 2-3								
23		(Aft)	Silo							
24			Aero							
25	46	2nd Stage Engine			2.22	168.2	100.4	100.5		
26			Silo							
27			Aero							
28			Base							
29	47	Interstage 1-2								
30		(Fwd)	Silo							
31			Aero							
32			Base							
33			Silo							
34		Jettisoned	Aero							
35		Portion	Base							
36			Jett							
37	47	Interstage 1-2								
38		(Aft)	Silo							
39			Aero							
40	48	1st Stage Engine			2.42	293.2	100.0	100.7		
41			Silo							
42			Aero							
43			Base							
44	49	Skirt								
45			Silo							
46			Aero							
47			Base							
48		MISSILE			6.39					
49			Silo							
50			Aero							
51			Base							
52			Jett							

* Boeing Section Stations (See Missile Diagram).
2-5550-0-58

BOEING

VOL
SEC

NO D2-13947-3
PAGE 27



2.2.2 WEIGHT AND BALANCE SUMMARY - AUTONETICS
SEALANT INSTALLED AT AF PLANT 77.
MISSILE S/N 63-198 (676)

REPORT NO. D2-13947-3
DATE July 1, 1963

NO	DESCRIPTION	DATA	EXPENDED WEIGHT (LB)	TOTAL WEIGHT (LB)	CENTER OF GRAVITY			INERTIA SLUG FT ² x10 ⁻³	
					LONG.*	LAT.	VERT.	ROLL	PITCH
1	41 RV Spacer								
2		Silo							
3		Aero							
4	39 CTLI Section								
5		Silo							
6		Aero							
7	42 G&C Section								
8		Silo							
9		Aero							
10	44 3rd Stage Engine			2.30	117.5	100.4	100.6		
11		Silo							
12		Aero							
13		Base							
14	45 Interstage 2-3								
15	(Fwd)	Silo							
16		Aero							
17		Base							
18		Silo							
19	Jettisoned	Aero							
20	Portion	Base							
21		Jett							
22	45 Interstage 2-3								
23	(Aft)	Silo							
24		Aero							
25	46 2nd Stage Engine			1.81	168.3	100.6	100.7		
26		Silo							
27		Aero							
28		Base							
29	47 Interstage 1-2								
30	(Fwd)	Silo							
31		Aero							
32		Base							
33		Silo							
34	Jettisoned	Aero							
35	Portion	Base							
36		Jett							
37	47 Interstage 1-2								
38	(Aft)	Silo							
39		Aero							
40	48 1st Stage Engine			2.09	293.1	100.0	100.7		
41		Silo							
42		Aero							
43		Base							
44	49 Skirt								
45		Silo							
46		Aero							
47		Base							
48	MISSILE			6.20					
49		Silo							
50		Aero							
51		Base							
52		Jett							

* Boeing Section Stations (See Missile Diagram).
2-5550-0-58

BOEING

VOL
SEC

NO D2-13947-3
PAGE 28



2.2.3 WEIGHT AND BALANCE SUMMARY - AUTONETICS SEALANT INSTALLED AT AF PLANT 77. MISSILE S/N 63-205 (679)						REPORT NO. <u>D2-13947-3</u>		DATE <u>July 1, 1963</u>		
3 11 1	13 12	DESCRIPTION	DATA	EXPENDED WEIGHT (LB)	TOTAL WEIGHT (LB)	CENTER OF GRAVITY			INERTIA SLUG FT ² x10-3	
						LONG.°	LAT.	VERT.	ROLL	PITCH
1	41	RV Spacer								
2			Silo							
3			Aero							
4	39	CTLI Section								
5			Silo							
6			Aero							
7	42	G&C Section								
8			Silo							
9			Aero							
10	44	3rd Stage Engine			1.69	117.5	100.4	100.6		
11			Silo							
12			Aero							
13			Base							
14	45	Interstage 2-3								
15		(Fwd)	Silo							
16			Aero							
17			Base							
18			Silo							
19		Jettisoned	Aero							
20		Portion	Base							
21			Jett							
22	45	Interstage 2-3								
23		(Aft)	Silo							
24			Aero							
25	46	2nd Stage Engine			2.41	168.2	100.6	100.8		
26			Silo							
27			Aero							
28			Base							
29	47	Interstage 1-2								
30		(Fwd)	Silo							
31			Aero							
32			Base							
33			Silo							
34		Jettisoned	Aero							
35		Portion	Base							
36			Jett							
37	47	Interstage 1-2								
38		(Aft)	Silo							
39			Aero							
40	48	1st Stage Engine			2.32	293.2	100.0	101.0		
41			Silo							
42			Aero							
43			Base							
44	49	Skirt								
45			Silo							
46			Aero							
47			Base							
48		MISSILE			6.42					
49			Silo							
50			Aero							
51			Base							
52			Jett							

* Boozing Section Stations (See Missile Diagram).
2-5550-0-58

BOEING

VOL

NO D2-13947-3

SEC

PAGE 29

2.2.4 WEIGHT AND BALANCE SUMMARY - AUTONETICS SEALANT INSTALLED AT AF PLANT 77. MISSILE S/N 63-199 (681)						REPORT NO. D2-13947-3		DATE July 1, 1963		
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52	DESCRIPTION	DATA	EXPENDED WEIGHT (LB)	TOTAL WEIGHT (LB)	CENTER OF GRAVITY			INERTIA SLUG FT ² x10 ⁻³	
						LONG.*	LAT.	VERT.	ROLL	PITCH
1	41	RV Spacer								
2			Silo							
3			Aero							
4	39	CTLI Section								
5			Silo							
6			Aero							
7	42	G&C Section								
8			Silo							
9			Aero							
10	44	3rd Stage Engine		2.26	117.7	100.6	101.1			
11			Silo							
12			Aero							
13			Base							
14	45	Interstage 2-3								
15		(Fwd)	Silo							
16			Aero							
17			Base							
18			Silo							
19		Jettisoned	Aero							
20		Portion	Base							
21			Jett							
22	45	Interstage 2-3								
23		(Aft)	Silo							
24			Aero							
25	46	2nd Stage Engine		2.06	168.1	100.5	100.6			
26			Silo							
27			Aero							
28			Base							
29	47	Interstage 1-2								
30		(Fwd)	Silo							
31			Aero							
32			Base							
33			Silo							
34		Jettisoned	Aero							
35		Portion	Base							
36			Jett							
37	47	Interstage 1-2								
38		(Aft)	Silo							
39			Aero							
40	48	1st Stage Engine		2.76	293.5	100.0	100.7			
41			Silo							
42			Aero							
43			Base							
44	49	Skirt								
45			Silo							
46			Aero							
47			Base							
48		MISSILE		7.08						
49			Silo							
50			Aero							
51			Base							
52			Jett							

* See Section Stations (See Missile Diagram).
2-5550-0-58

DOEING

VOL

SEC

NO D2-13947-3

PAGE 30



2.2.5 WEIGHT AND BALANCE SUMMARY - AUTONETICS SEALANT INSTALLED AT AF PLANT 77. MISSILE S/N 63-206 (683)						REPORT NO. <u>D2-13947-3</u> DATE <u>July 1, 1963</u>				
NO.	STATION	DESCRIPTION	DATA	EXPENDED WEIGHT (LB)	TOTAL WEIGHT (LB)	CENTER OF GRAVITY			INERTIA SLUG FT ² X10 ⁻³	
						LONG.*	LAT.	VERT.	ROLL	PITCH
1	41	RV Spacer								
2			Silo							
3			Aero							
4	39	CTLI Section								
5			Silo							
6			Aero							
7	42	G&C Section								
8			Silo							
9			Aero							
10	44	3rd Stage Engine			1.33	117.4	100.3	100.5		
11			Silo							
12			Aero							
13			Base							
14	45	Interstage 2-3								
15		(Fwd)	Silo							
16			Aero							
17			Base							
18			Silo							
19		Jettisoned	Aero							
20		Portion	Base							
21			Jett							
22	45	Interstage 2-3								
23		(Aft)	Silo							
24			Aero							
25	46	2nd Stage Engine			2.05	168.3	100.6	100.8		
26			Silo							
27			Aero							
28			Base							
29	47	Interstage 1-2								
30		(Fwd)	Silo							
31			Aero							
32			Base							
33			Silo							
34		Jettisoned	Aero							
35		Portion	Base							
36			Jett							
37	47	Interstage 1-2								
38		(Aft)	Silo							
39			Aero							
40	48	1st Stage Engine			3.14	293.2	100.0	100.3		
41			Silo							
42			Aero							
43			Base							
44	49	Skirt								
45			Silo							
46			Aero							
47			Base							
48		MISSILE			6.52					
49			Silo							
50			Aero							
51			Base							
52			Jett							

* Boozing Section Stations (See Missile Diagram).
2-5550-0-58

2.2.6. WEIGHT AND BALANCE SUMMARY - AUTONETICS
SEALANT INSTALLED AT AF PLANT 77.
MISSILE S/N 63-200 (686)

REPORT NO. D2-13947-3

DATE July 1, 1963

LINE ITEM	S/N	DESCRIPTION	DATA	EXPENDED WEIGHT (LB)	TOTAL WEIGHT (LB)	CENTER OF GRAVITY			INERTIA SLUG FT ² x 10 ⁻³	
						LONG.*	LAT.	VERT.	ROLL	PITCH
1	41	RV Spacer								
2			Silo							
3			Aero							
4	39	CTLI Section								
5			Silo							
6			Aero							
7	42	G&C Section								
8			Silo							
9			Aero							
10	44	3rd Stage Engine			2.38	117.4	100.3	100.4		
11			Silo							
12			Aero							
13			Base							
14	45	Interstage 2-3								
15		(Fwd)	Silo							
16			Aero							
17			Base							
18			Silo							
19		Jettisoned	Aero							
20		Portion	Base							
21			Jett							
22	45	Interstage 2-3								
23		(Aft)	Silo							
24			Aero							
25	46	2nd Stage Engine			2.47	168.2	100.6	100.7		
26			Silo							
27			Aero							
28			Base							
29	47	Interstage 1-2								
30		(Fwd)	Silo							
31			Aero							
32			Base							
33			Silo							
34		Jettisoned	Aero							
35		Portion	Base							
36			Jett							
37	47	Interstage 1-2								
38		(Aft)	Silo							
39			Aero							
40	48	1st Stage Engine			2.33	293.2	100.0	100.7		
41			Silo							
42			Aero							
43			Base							
44	49	Skirt								
45			Silo							
46			Aero							
47			Base							
48		MISSILE			7.18					
49			Silo							
50			Aero							
51			Base							
52			Jett							

* Boeing Section Stations (See Missile Diagram).
 2-3330-0-58

BOEING

VOL

NO D2-13947-3

SEC

PAGE

32



2.2.7. WEIGHT AND BALANCE SUMMARY - AUTONETICS
 SEALANT INSTALLED AT AF PLANT 77.
 MISSILE S/N 63-225 (687)

REPORT NO. D2-13947-3
 DATE July 1, 1963

NO.	S/N	DESCRIPTION	DATA	EXPENDED WEIGHT (LB)	TOTAL WEIGHT (LB)	CENTER OF GRAVITY			INERTIA	
						LONG.*	LAT.	VERT.	SLUG FT ² x10 ⁻³	ROLL
1	41	RV Spacer								
2			Silo							
3			Aero							
4	39	CTLI Section								
5			Silo							
6			Aero							
7	42	G&C Section								
8			Silo							
9			Aero							
10	44	3rd Stage Engine			.78	117.6	100.5	100.8		
11			Silo							
12			Aero							
13			Base							
14	45	Interstage 2-3								
15		(Fwd)	Silo							
16			Aero							
17			Base							
18			Silo							
19		Jettisoned	Aero							
20		Portion	Base							
21			Jett							
22	45	Interstage 2-3			1.55	168.3	100.4	100.5		
23		(Aft)	Silo							
24			Aero							
25	46	2nd Stage Engine								
26			Silo							
27			Aero							
28			Base							
29	47	Interstage 1-2								
30		(Fwd)	Silo							
31			Aero							
32			Base							
33			Silo							
34		Jettisoned	Aero							
35		Portion	Base							
36			Jett							
37	47	Interstage 1-2								
38		(Aft)	Silo							
39			Aero							
40	48	1st Stage Engine			2.24	293.4	100.0	100.7		
41			Silo							
42			Aero							
43			Base							
44	49	Skirt								
45			Silo							
46			Aero							
47			Base							
48		MISSILE			4.57					
49			Silo							
50			Aero							
51			Base							
52			Jett							

* Being Section Stations (See Missile Diagram).
 2-5550-0-58

BOEING

VOL
 SEC

NO D2-13947-3
 PAGE 33



2.2.8 WEIGHT AND BALANCE SUMMARY - AUTONETICS
SEALANT INSTALLED AT AF PLANT 77.
MISSILE S/N 63-207 (688)

REPORT NO. D2-13947.3
DATE July 1, 1963

NO	STATION	DESCRIPTION	DATA	EXPENDED WEIGHT (LB)	TOTAL WEIGHT (LB)	CENTER OF GRAVITY			INERTIA SLUG FT ² x 10 ⁻³	
						LONG.*	LAT.	VERT.	ROLL	PITCH
1	41	RV Spacer								
2			Silo							
3			Aero							
4	39	CTLI Section								
5			Silo							
6			Aero							
7	42	G&C Section								
8			Silo							
9			Aero							
10	44	3rd Stage Engine			1.81	117.4	100.2	100.4		
11			Silo							
12			Aero							
13			Base							
14	45	Interstage 2-3								
15		(Fwd)	Silo							
16			Aero							
17			Base							
18			Silo							
19		Jettisoned	Aero							
20		Portion	Base							
21			Jett							
22	45	Interstage 2-3								
23		(Aft)	Silo							
24			Aero							
25	46	2nd Stage Engine			2.27	168.0	100.5	100.6		
26			Silo							
27			Aero							
28			Base							
29	47	Interstage 1-2								
30		(Fwd)	Silo							
31			Aero							
32			Base							
33			Silo							
34		Jettisoned	Aero							
35		Portion	Base							
36			Jett							
37	47	Interstage 1-2								
38		(Aft)	Silo							
39			Aero							
40	48	1st Stage Engine			2.96	293.3	100.0	100.7		
41			Silo							
42			Aero							
43			Base							
44	49	Skirt								
45			Silo							
46			Aero							
47			Base							
48		MISSILE			7.04					
49			Silo							
50			Aero							
51			Base							
52			Jett							

* Boozing Section Stations (See Missile Diagram).
2-5550-0-58

DOEING

VOL

NO D2-13947.3

SER

PAGE

34

2.2.9 WEIGHT AND BALANCE SUMMARY - AUTONETICS SEALANT INSTALLED AT AF PLANT 77. MISSILE S/N 63-201 (690)						REPORT NO. <u>D2-13947-3</u> DATE <u>July 1, 1963</u>				
S/N	STATION	DESCRIPTION	DATA	EXPENDED WEIGHT (LB)	TOTAL WEIGHT (LB)	CENTER OF GRAVITY			INERTIA SLUG FT ² x10 ⁻³	
						LONG.*	LAT.	VERT.	ROLL	PITCH
1	41	RV Spacer								
2			Silo							
3			Aero							
4	39	CTLI Section								
5			Silo							
6			Aero							
7	42	G&C Section								
8			Silo							
9			Aero							
10	44	3rd Stage Engine			1.11	117.5	100.3	100.5		
11			Silo							
12			Aero							
13			Base							
14	45	Interstage 2-3								
15		(Fwd)	Silo							
16			Aero							
17			Base							
18			Silo							
19		Jettisoned	Aero							
20		Portion	Base							
21			Jett							
22	45	Interstage 2-3								
23		(Aft)	Silo							
24			Aero							
25	46	2nd Stage Engine			2.11	168.2	100.3	100.4		
26			Silo							
27			Aero							
28			Base							
29	47	Interstage 1-2								
30		(Fwd)	Silo							
31			Aero							
32			Base							
33			Silo							
34		Jettisoned	Aero							
35		Portion	Base							
36			Jett							
37	47	Interstage 1-2								
38		(Aft)	Silo							
39			Aero							
40	48	1st Stage Engine			2.72	293.3	100.0	100.6		
41			Silo							
42			Aero							
43			Base							
44	49	Skirt								
45			Silo							
46			Aero							
47			Base							
48		MISSILE			5.94					
49			Silo							
50			Aero							
51			Base							
52			Jett							

* Being Section Stations (See Missile Diagram).
2-5550-0-58

DOEING

VOL
SEC

NO D2-13947-3
PAGE 35



2.2.10 EIGHT AND BALANCE SUMMARY - AUTONETICS SEALANT INSTALLED AT AF PLANT 77. MISSILE S/N 63-208 (693)						REPORT NO. <u>D2-13947-3</u> DATE <u>July 1, 1963</u>				
M I S S I L E S	I T E M N O	DESCRIPTION	DATA	EXPENDED WEIGHT (LB)	TOTAL WEIGHT (LB)	CENTER OF GRAVITY			INERTIA SLUG FT ² x10 ⁻³	
						LONG.°	LAT.	VERT.	ROLL	PITCH
1	41	RV Spacer								
2			Silo							
3			Aero							
4	39	CTLI Section								
5			Silo							
6			Aero							
7	42	G&C Section								
8			Silo							
9			Aero							
10	44	3rd Stage Engine			2.52	117.4	100.3	100.5		
11			Silo							
12			Aero							
13			Base							
14	45	Interstage 2-3								
15		(Fwd)	Silo							
16			Aero							
17			Base							
18			Silo							
19		Jettisoned	Aero							
20		Portion	Base							
21			Jett							
22	45	Interstage 2-3								
23		(Aft)	Silo							
24			Aero							
25	46	2nd Stage Engine			1.98	168.2	100.7	100.9		
26			Silo							
27			Aero							
28			Base							
29	47	Interstage 1-2								
30		(Fwd)	Silo							
31			Aero							
32			Base							
33			Silo							
34		Jettisoned	Aero							
35		Portion	Base							
36			Jett							
37	47	Interstage 1-2								
38		(Aft)	Silo							
39			Aero							
40	48	1st Stage Engine			2.93	293.2	100.0	100.6		
41			Silo							
42			Aero							
43			Base							
44	49	Skirt								
45			Silo							
46			Aero							
47			Base							
48		MISSILE			7.43					
49			Silo							
50			Aero							
51			Base							
52			Jett							

* Seeing Section Stations (See Missile Diagram).
2-5550-0-58

BOEING

VOL
SEC

NO D2-13947-3
PAGE 36



2.2.11 WEIGHT AND BALANCE SUMMARY - AUTONETICS SEALANT INSTALLED AT AF PLANT 77. MISSILE S/N 63-183 (695)					REPORT NO. <u>D2-13947-3</u>		DATE <u>July 1, 1963</u>			
M I S S I L E	S T A T I O N	DESCRIPTION	DATA	EXPENDED WEIGHT (LB)	TOTAL WEIGHT (LB)	CENTER OF GRAVITY			INERTIA SLUG FT ² x10-3	
						LONG.°	LAT.	VERT.	ROLL	PITCH
1	41	RV Spacer								
2			Silo							
3			Aero							
4	39	CTLI Section								
5			Silo							
6			Aero							
7	42	G&C Section								
8			Silo							
9			Aero							
10	44	3rd Stage Engine			1.49	117.5	100.4	100.6		
11			Silo							
12			Aero							
13			Base							
14	45	Interstage 2-3								
15		(Fwd)	Silo							
16			Aero							
17			Base							
18			Silo							
19		Jettisoned	Aero							
20		Portion	Base							
21			Jett							
22	45	Interstage 2-3								
23		(Aft)	Silo							
24			Aero							
25	46	2nd Stage Engine			1.92	168.2	100.8	101.0		
26			Silo							
27			Aero							
28			Base							
29	47	Interstage 1-2								
30		(Fwd)	Silo							
31			Aero							
32			Base							
33			Silo							
34		Jettisoned	Aero							
35		Portion	Base							
36			Jett							
37	47	Interstage 1-2								
38		(Aft)	Silo							
39			Aero							
40	48	1st Stage Engine			2.66	293.3	100.0	100.7		
41			Silo							
42			Aero							
43			Base							
44	49	Skirt								
45			Silo							
46			Aero							
47			Base							
48		MISSILE			6.07					
49			Silo							
50			Aero							
51			Base							
52			Jett							

* Boeing Section Stations (See Missile Diagram).
2-5550-0-58

BOEING

VOL

SEC

NO D2-13947-3

PAGE 37



2.2.13 WEIGHT AND BALANCE SUMMARY - AUTONETICS
 SEALANT INSTALLED AT AF PLANT 77.
 MISSILE S/N 63-202 (697)

REPORT NO. D2-13947-3
 DATE July 1, 1963

NO	STATION	DESCRIPTION	DATA	EXPENDED WEIGHT (LB)	TOTAL WEIGHT (LB)	CENTER OF GRAVITY			INERTIA SLUG FT ² x10 ⁻³	
						LONG.°	LAT.	VERT.	ROLL	PITCH
1	41	RV Spacer								
2			Silo							
3			Aero							
4	39	CTLI Section								
5			Silo							
6			Aero							
7	42	G&C Section								
8			Silo							
9			Aero							
10	44	3rd Stage Engine			2.20	117.5	100.3	100.6		
11			Silo							
12			Aero							
13			Base							
14	45	Interstage 2-3								
15		(Fwd)	Silo							
16			Aero							
17			Base							
18			Silo							
19		Jettisoned	Aero							
20		Portion	Base							
21			Jett							
22	45	Interstage 2-3								
23		(Aft)	Silo							
24			Aero							
25	46	2nd Stage Engine			1.61	169.8	100.8	101.0		
26			Silo							
27			Aero							
28			Base							
29	47	Interstage 1-2								
30		(Fwd)	Silo							
31			Aero							
32			Base							
33			Silo							
34		Jettisoned	Aero							
35		Portion	Base							
36			Jett							
37	47	Interstage 1-2								
38		(Aft)	Silo							
39			Aero							
40	48	1st Stage Engine			2.78	293.3	100.0	100.5		
41			Silo							
42			Aero							
43			Base							
44	49	Skirt								
45			Silo							
46			Aero							
47			Base							
48		MISSILE			6.59					
49			Silo							
50			Aero							
51			Base							
52			Jett							

* Booring Section Stations (See Missile Diagram).
 2-5550-0-58

DOEING

VOL

SEC

NO D2-13947-3

PAGE 38

2.2.13 WEIGHT AND BALANCE SUMMARY - AUTONETICS
 SEALANT INSTALLED AT AF PLANT 77.
 MISSILE S/N 63-209 (700)

REPORT NO. D2-13947-3
 DATE July 1, 1963

NO	STATION	DESCRIPTION	DATA	EXPENDED WEIGHT (LB)	TOTAL WEIGHT (LB)	CENTER OF GRAVITY			INERTIA SLUG FT ² x10-3	
						LONG.*	LAT.	VERT.	ROLL	PITCH
1	41	RV Spacer								
2			Silo							
3			Aero							
4	39	CTLI Section								
5			Silo							
6			Aero							
7	42	G&C Section								
8			Silo							
9			Aero							
10	44	3rd Stage Engine			1.41	117.5	100.4	100.6		
11			Silo							
12			Aero							
13			Base							
14	45	Interstage 2-3 (Fwd)								
15			Silo							
16			Aero							
17			Base							
18			Silo							
19		Jettisoned Portion	Aero							
20			Base							
21			Jett							
22	45	Interstage 2-3 (Aft)								
23			Silo							
24			Aero							
25	46	2nd Stage Engine			1.84	168.9	100.6	100.7		
26			Silo							
27			Aero							
28			Base							
29	47	Interstage 1-2 (Fwd)								
30			Silo							
31			Aero							
32			Base							
33			Silo							
34		Jettisoned Portion	Aero							
35			Base							
36			Jett							
37	47	Interstage 1-2 (Aft)								
38			Silo							
39			Aero							
40	48	1st Stage Engine			2.91	293.3	100.0	101.2		
41			Silo							
42			Aero							
43			Base							
44	49	Skirt								
45			Silo							
46			Aero							
47			Base							
48		MISSILE			6.16					
49			Silo							
50			Aero							
51			Base							
52			Jett							

* Boeing Section Stations (See Missile Diagram).
 2-5550-0-58

BOEING

VOL
 SEC

NO D2-13947-3
 PAGE 39



2-2.1*

WEIGHT AND BALANCE SUMMARY - AUTONETICS SEALANT INSTALLED AT AF PLANT 77. MISSILE S/N 63-203 (702)						REPORT NO. <u>D2-13947-3</u>		DATE <u>July 1, 1963</u>		
NO	STATION	DESCRIPTION	DATA	EXPENDED WEIGHT (LB)	TOTAL WEIGHT (LB)	CENTER OF GRAVITY			INERTIA SLUG FT ² x10 ⁻³	
						LONG.*	LAT.	VERT.	ROLL	PITCH
1	41	RV Spacer								
2			Silo							
3			Aero							
4	39	CTLI Section								
5			Silo							
6			Aero							
7	42	G&C Section								
8			Silo							
9			Aero							
10	44	3rd Stage Engine			2.09	117.4	100.3	100.4		
11			Silo							
12			Aero							
13			Base							
14	45	Interstage 2-3								
15		(Fwd)	Silo							
16			Aero							
17			Base							
18			Silo							
19		Jettisoned	Aero							
20		Portion	Base							
21			Jett							
22	45	Interstage 2-3								
23		(Aft)	Silo							
24			Aero							
25	46	2nd Stage Engine			2.17	168.1	100.5	100.6		
26			Silo							
27			Aero							
28			Base							
29	47	Interstage 1-2								
30		(Fwd)	Silo							
31			Aero							
32			Base							
33			Silo							
34		Jettisoned	Aero							
35		Portion	Base							
36			Jett							
37	47	Interstage 1-2								
38		(Aft)	Silo							
39			Aero							
40	48	1st Stage Engine			2.33	293.5	100.0	101.1		
41			Silo							
42			Aero							
43			Base							
44	49	Skirt								
45			Silo							
46			Aero							
47			Base							
48		MISSILE			6.59					
49			Silo							
50			Aero							
51			Base							
52			Jett							

* Being Section Stations (See Missile Diagram).
2-5550-0-58

BOEING

VOL
SECNO D2-13947-3
PAGE 40

2.2.15

WEIGHT AND BALANCE SUMMARY - AUTOMETICS SEALANT INSTALLED AT AF PLANT 77. MISSILE S/N 63-210 (704)						REPORT NO. <u>D2-13947-3</u>		DATE <u>July 1, 1963</u>		
3 1 1	13 1 2	DESCRIPTION	DATA	EXPENDED WEIGHT (LB)	TOTAL WEIGHT (LB)	CENTER OF GRAVITY			INERTIA SLUG FT ² x10-3	
						LONG.*	LAT.	VERT.	ROLL	PITCH
1	41	RV Spacer								
2			Silo							
3			Aero							
4	39	CTLI Section								
5			Silo							
6			Aero							
7	42	G&C Section								
8			Silo							
9			Aero							
10	44	3rd Stage Engine			1.63	117.5	100.4	100.6		
11			Silo							
12			Aero							
13			Base							
14	45	Interstage 2-3								
15		(Fwd)	Silo							
16			Aero							
17			Base							
18			Silo							
19		Jettisoned	Aero							
20		Portion	Base							
21			Jett							
22	45	Interstage 2-3								
23		(Aft)	Silo							
24			Aero							
25	46	2nd Stage Engine			1.75	168.3	100.5	100.6		
26			Silo							
27			Aero							
28			Base							
29	47	Interstage 1-2								
30		(Fwd)	Silo							
31			Aero							
32			Base							
33			Silo							
34		Jettisoned	Aero							
35		Portion	Base							
36			Jett							
37	47	Interstage 1-2								
38		(Aft)	Silo							
39			Aero							
40	48	1st Stage Engine			2.96	293.2	100.0	100.7		
41			Silo							
42			Aero							
43			Base							
44	49	Skirt								
45			Silo							
46			Aero							
47			Base							
48		MISSILE			6.34					
49			Silo							
50			Aero							
51			Base							
52			Jett							

* Being Section Stations (See Missile Diagram).
2-5550-0-58

BOEING

VOL

SEC

NO D2-13947-3

PAGE

41

2.2.16

WEIGHT AND BALANCE DATA - AUTONAUTICS SEALANT INSTALLATION - PLANT 77. MISSILE S/N 63-226 (706)					REPORT NO. <u>D2-13947-3</u>		DATE <u>July 1, 1963</u>			
NO.	REV.	DESCRIPTION	DATA	EXPENDED WEIGHT (LB)	TOTAL WEIGHT (LB)	CENTER OF GRAVITY			INERTIA SLUG FT ² x10 ⁻³	
						LONG.°	LAT.	VERT.	ROLL	PITCH
1	41	RV Spacer								
2			Silo							
3			Aero							
4	39	CTLI Section								
5			Silo							
6			Aero							
7	42	G&C Section								
8			Silo							
9			Aero							
10	44	3rd Stage Engine			1.57	117.5	100.3	100.5		
11			Silo							
12			Aero							
13			Base							
14	45	Interstage 2-3								
15		(Fwd)	Silo							
16			Aero							
17			Base							
18			Silo							
19		Jettisoned	Aero							
20		Portion	Base							
21			Jett							
22	45	Interstage 2-3								
23		(Aft)	Silo							
24			Aero							
25	46	2nd Stage Engine			1.51	168.6	101.0	101.2		
26			Silo							
27			Aero							
28			Base							
29	47	Interstage 1-2								
30		(Fwd)	Silo							
31			Aero							
32			Base							
33			Silo							
34		Jettisoned	Aero							
35		Portion	Base							
36			Jett							
37	47	Interstage 1-2								
38		(Aft)	Silo							
39			Aero							
40	48	1st Stage Engine			2.98	293.3	100.0	101.1		
41			Silo							
42			Aero							
43			Base							
44	49	Skirt								
45			Silo							
46			Aero							
47			Base							
48		MISSILE			6.06					
49			Silo							
50			Aero							
51			Base							
52			Jett							

* Boeing Section Stations (See Missile Diagram).
2-5550-0-58

DOEING

VOL
SECNO D2-13947-3
PAGE 42

2.2.17

WEIGHT AND BALANCE SUMMARY - AUTONETICS SEALANT INSTALLED AT AFILANT 77. MISSILE S/N 63-204 (707)						REPORT NO. D2-1397.3		DATE July 1, 1963		
NO.	REV.	DESCRIPTION	DATA	EXPENDED WEIGHT (LB)	TOTAL WEIGHT (LB)	CENTER OF GRAVITY			INERTIA SLUG FT ² x10-3	
						LONG.*	LAT.	VEPT.	ROLL	PITCH
1	41	RV Spacer								
2			Silo							
3			Aero							
4	39	CTLI Section								
5			Silo							
6			Aero							
7	42	G&C Section								
8			Silo							
9			Aero							
10	44	3rd Stage Engine			1.73	117.4	100.2	100.3		
11			Silo							
12			Aero							
13			Base							
14	45	Interstage 2-3								
15		(Fwd)	Silo							
16			Aero							
17			Base							
18			Silo							
19		Jettisoned	Aero							
20		Portion	Base							
21			Jett							
22	45	Interstage 2-3								
23		(Aft)	Silo							
24			Aero							
25	46	2nd Stage Engine			3.55	167.7	100.4	100.4		
26			Silo							
27			Aero							
28			Base							
29	47	Interstage 1-2								
30		(Fwd)	Silo							
31			Aero							
32			Base							
33			Silo							
34		Jettisoned	Aero							
35		Portion	Base							
36			Jett							
37	47	Interstage 1-2								
38		(Aft)	Silo							
39			Aero							
40	48	1st Stage Engine			2.75	293.2	100.0	100.6		
41			Silo							
42			Aero							
43			Base							
44	49	Skirt								
45			Silo							
46			Aero							
47			Base							
48		MISSILE			8.03					
49			Silo							
50			Aero							
51			Base							
52			Jett							

* Boozing Section Stations (See Missile Diagrams).
2-5550-0-58

DATE/NO

VOL

NO D2-1397.3

SEC

PAGE 43

2.2.19

WEIGHT AND BALANCE SUMMARY - AUTONET SEALANT INSTALLED AT AF PLANT 77. MISSILE S/N 63-215 (711)						REPORT NO. D2-13947-3		DATE July 1, 1963		
LINE	ITEM	DESCRIPTION	DATA	EXPENDED WEIGHT (LB)	TOTAL WEIGHT (LB)	CENTER OF GRAVITY			INERTIA SLUG FT ² X10 ⁻³	
						LONG.*	LAT.	VERT.	ROLL	PITCH
1	41	RV Spacer								
2			Silo							
3			Aero							
4	39	CTLI Section								
5			Silo							
6			Aero							
7	42	G&C Section								
8			Silo							
9			Aero							
10	44	3rd Stage Engine			2.22	118.0	100.9	101.5		
11			Silo							
12			Aero							
13			Base							
14	45	Interstage 2-3								
15		(Fwd)	Silo							
16			Aero							
17			Base							
18			Silo							
19		Jettisoned	Aero							
20		Portion	Base							
21			Jett							
22	45	Interstage 2-3								
23		(Aft)	Silo							
24			Aero							
25	46	2nd Stage Engine			2.31	168.1	100.4	100.5		
26			Silo							
27			Aero							
28			Base							
29	47	Interstage 1-2								
30		(Fwd)	Silo							
31			Aero							
32			Base							
33			Silo							
34		Jettisoned	Aero							
35		Portion	Base							
36			Jett							
37	47	Interstage 1-2								
38		(Aft)	Silo							
39			Aero							
40	48	1st Stage Engine			2.44	293.3	100.0	100.5		
41			Silo							
42			Aero							
43			Base							
44	49	Skirt								
45			Silo							
46			Aero							
47			Base							
48		MISSILE			6.97					
49			Silo							
50			Aero							
51			Base							
52			Jett							

* Bearing Station Stations (See Missile Diagram).
2-5550-0-58

DOEING

VOL

SEC

NO D2-13947-3

PAGE 45



3.0 BOEING CHANGES				REPORT NO. <u>D2-13947-3</u>			
MISSILE S/N <u>674 - 711</u>				DATE <u>July 1, 1963</u>			
The following changes were made on the Boeing Components at Air Force Plant 77: These changes were not reported in D2-13946-X.							
MISSILE SECTION	ITEM AFFECTED	PART NO.	CHANGE NO.	WEIGHT CHANGE	HORIZ. C.G.	LAT. C.G.	VERT. C.G.
<u>ECP 620</u>							
44 4C	Instl. Kit-Electr. Cable	25-27523	ECP 620	+0.01	62.3	106.4	118.0
47 7b	Interstage Inst. I-II	25-36478	ECP 620	+0.32	49.5	100.0	100.0
49 9b	Sect. 49 Instl.	25-36079	ECP 620	+0.77	49.6	100.0	100.0
<u>NOTE:</u> This change was accomplished at Plant 77 on missiles 690 (63-201) thru 711 (63-215), but not including CTLI Missile 695 (63-183).							
<u>ECP 540</u>	Raceway sealing was not accomplished on CTLI Missile 695 (63-183) per ECP 540.						

2-5550-0-59

BOEING | VOL. | NO. D2-13947-3
 | SEC. | PAGE 46 →

4.1.1 CONFIGURATION SUMMARY		REPORT NO.	D2-13947-3
MISSILE S/N 63-197 (674)		DATE	July 1, 1963
COMPONENT		PART NO.	SERIAL NO.
Cable Assembly-Electrical	Stage 3	25306-102	AFB0008
Flight Control Unit	Stage 3	25302-102	AFB0020
Motor	Stage 3	01A00063-005	0032019
Heat Deflector Support	Stage 3	25-36379-1	0000202
Interstage Assembly-Insulated	Stage 2-3	25-36103-1	0000205
Angular Accelerometer Unit	Stage 2	25170-102	AAW0185
Battery Assembly	Stage 2	66603-107	AAV0335
Cable Assembly-Electrical	Stage 2	25305-102	AFD0020
Flight Control Unit	Stage 2	25300-102	AFA0026
Motor	Stage 2	366978-59	0022021
Heat Deflector Support	Stage 2	25-36378-1	0000211
Interstage Assembly-Insulated	Stage 1-2	25-36101-1	0000214
Battery Assembly	Stage 1	66603-107	AAV0363
Cable Assembly-Electrical	Stage 1	25304-102	AFC0026
Flight Control Unit	Stage 1	25301-102	AEX0025
Motor	Stage 1	U32300-11	0012015
Heat Deflector Support	Stage 1	25-36377-1	0000203
Skirt Assembly	Stage 1	25-36080-1	0000205

8-5590-0-61 RI

REV SYM _____

~~BEING~~ NO. D2-13947-3
SECT. PAGE 47

4.1.2 CONFIGURATION SUMMARY		REPORT NO. <u>D2-13947-3</u>	
MISSILE S/N <u>63-198 (676)</u>		DATE <u>July 1, 1963</u>	
COMPONENT		PART NO.	SERIAL NO.
Cable Assembly-Electrical	Stage 3	25306-102	AFB0024
Flight Control Unit	Stage 3	25302-102	AFB0024
Motor	Stage 3	01A00063-005	0032018
Heat Deflector Support	Stage 3	25-36379-1	0000203
Interstage Assembly-Insulated	Stage 2-3	25-36103-1	0000917
Angular Accelerometer Unit	Stage 2	25170-102	AAW0188
Battery Assembly	Stage 2	66603-107	AAV0366
Cable Assembly-Electrical	Stage 2	25305-102	AFD0021
Flight Control Unit	Stage 2	25300-102	AFA0024
Motor	Stage 2	366978-59	0022019
Heat Deflector Support	Stage 2	25-36378-1	0000200
Interstage Assembly-Insulated	Stage 1-2	25-36101-1	0000231
Battery Assembly	Stage 1	66603-107	AAV0336
Cable Assembly-Electrical	Stage 1	25304-102	APC0020
Flight Control Unit	Stage 1	25301-102	AEZ0026
Motor	Stage 1	U32300-11	0012016
Heat Deflector Support	Stage 1	25-36377-1	0000204
Skirt Assembly	Stage 1	25-36080-1	0000212

8-5550-0-61 R1

REV SYM _____

4.1.3 CONFIGURATION SUMMARY		REPORT NO. <u>D2-13947-3</u>	
MISSILE S/N <u>63-205 (679)</u>		DATE <u>July 1, 1963</u>	
COMPONENT		PART NO.	SERIAL NO.
Cable Assembly-Electrical	Stage 3	25306-102	AFB0026
Flight Control Unit	Stage 3	25302-102	AFB0025
Motor	Stage 3	01A00063-005	0032016
Heat Deflector Support	Stage 3	25-36379-1	0000198
Interstage Assembly-Insulated	Stage 2-3	25-36103-1	0000201
Angular Accelerometer Unit	Stage 2	25170-102	AAM0193
Battery Assembly	Stage 2	66603-107	AAV0365
Cable Assembly-Electrical	Stage 2	25305-102	AFD0024
Flight Control Unit	Stage 2	25300-102	AFB0027
Motor	Stage 2	366978-59	0022016
Heat Deflector Support	Stage 2	25-36378-1	0000918
Interstage Assembly-Insulated	Stage 1-2	25-36101-1	0000204
Battery Assembly	Stage 1	66603-107	AAV0323
Cable Assembly-Electrical	Stage 1	25304-102	AFC0018
Flight Control Unit	Stage 1	25301-102	AEZ0027
Motor	Stage 1	U32300-11	0012017
Heat Deflector Support	Stage 1	25-36377-1	0000201
Skirt Assembly	Stage 1	25-36080-1	0000216

2-5550-0-61 R1

REV SYM _____

BOEING	NO. <u>D2-13947-3</u>
SECT.	PAGE <u>49</u>

4.1.4 CONFIGURATION SUMMARY		REPORT NO. <u>D2-13947-3</u>	
MISSILE S/N <u>63-199 (681)</u>		DATE <u>July 13, 1963</u>	
COMPONENT		PART NO.	SERIAL NO.
Cable Assembly-Electrical	Stage 3	25306-102	AFE0016
Flight Control Unit	Stage 3	25302-102	AFB0023
Motor	Stage 3	01A00063-005	0032017
Heat Deflector Support	Stage 3	25-36379-1	0000346
Interstage Assembly-Insulated	Stage 2-3	25-36103-1	0000211
Angular Accelerometer Unit	Stage 2	25170-102	AAM0196
Battery Assembly	Stage 2	66603-107	AAV0321
Cable Assembly-Electrical	Stage 2	25305-102	AFD0023
Flight Control Unit	Stage 2	25300-102	AFA0028
Motor	Stage 2	366978-59	0022025
Heat Deflector Support	Stage 2	25-36378-1	0000917
Interstage Assembly-Insulated	Stage 1-2	25-36101-1	0000207
Battery Assembly	Stage 1	66603-107	AAV0401
Cable Assembly-Electrical	Stage 1	25304-102	AFC0028
Flight Control Unit	Stage 1	25301-102	AEZ0028
Motor	Stage 1	U32300-11	0012019
Heat Deflector Support	Stage 1	25-36377-1	0000211
Skirt Assembly	Stage 1	25-36080-1	0000203

2-5550-0-61 R1

REV SYM _____

BOEING	NO. <u>D2-13947-3</u>
SECT.	PAGE <u>50</u>

4.1.4 CONFIGURATION SUMMARY		REPORT NO. <u>D2-13947-3</u>	
MISSILE S/N <u>63-199 (681)</u>		DATE <u>July 1, 1963</u>	
COMPONENT		PART NO.	SERIAL NO.
Cable Assembly-Electrical	Stage 3	25306-102	AFEO016
Flight Control Unit	Stage 3	25302-102	AFBO023
Motor	Stage 3	01A00063-005	0032017
Heat Deflector Support	Stage 3	25-36379-1	0000346
Interstage Assembly-Insulated	Stage 2-3	25-36103-1	0000211
Angular Accelerometer Unit	Stage 2	25170-102	AAM0196
Battery Assembly	Stage 2	66603-107	AAV0321
Cable Assembly-Electrical	Stage 2	25305-102	AFD0023
Flight Control Unit	Stage 2	25300-102	AFA0028
Motor	Stage 2	366978-59	0022025
Heat Deflector Support	Stage 2	25-36378-1	0000917
Interstage Assembly-Insulated	Stage 1-2	25-36101-1	0000207
Battery Assembly	Stage 1	66603-107	AAV0401
Cable Assembly-Electrical	Stage 1	25304-102	AFC0028
Flight Control Unit	Stage 1	25301-102	AEO0028
Motor	Stage 1	U32300-11	0012019
Heat Deflector Support	Stage 1	25-36377-1	0000211
Skirt Assembly	Stage 1	25-36080-1	0000203

2-5550-0-61 R1

REV SYM _____

4.1.5 CONFIGURATION SUMMARY		REPORT NO. <u>D2-13947-3</u>	
MISSILE S/N <u>63-206 (683)</u>		DATE <u>July 1, 1963</u>	
COMPONENT		PART NO.	SERIAL NO.
Cable Assembly-Electrical	Stage 3	25306-102	AFB0039
Flight Control Unit	Stage 3	25302-102	AFB0033
Motor	Stage 3	01A00063-005	0032015
Heat Deflector Support	Stage 3	25-36379-1	0000205
Interstage Assembly-Insulated	Stage 2-3	25-36103-1	0000187
Angular Accelerometer Unit	Stage 2	25170-102	AAM0155
Battery Assembly	Stage 2	66603-107	AAV0273
Cable Assembly-Electrical	Stage 2	25305-102	AFD0027
Flight Control Unit	Stage 2	25300-102	AFA0007
Motor	Stage 2	366978-59	0022026
Heat Deflector Support	Stage 2	25-36378-1	0000208
Interstage Assembly-Insulated	Stage 1-2	25-36101-1	0000206
Battery Assembly	Stage 1	66603-107	AAV0179
Cable Assembly-Electrical	Stage 1	25304-102	AFC0029
Flight Control Unit	Stage 1	25301-102	AEZ0030
Motor	Stage 1	U32300-11	0012018
Heat Deflector Support	Stage 1	25-36377-1	0000917
Skirt Assembly	Stage 1	25-36080-1	0000231

2-5550-0-61 R1

REV SYM _____

BOEING NO. D2-13947-3
 SECT. _____ PAGE 51

4.1.6 CONFIGURATION SUMMARY		REPORT NO.	D2-13947-3
MISSILE S/N 63-200 (686)		DATE	July 1, 1963
COMPONENT		PART NO.	SERIAL NO.
Cable Assembly-Electrical	Stage 3	25306-102	AFB0028
Flight Control Unit	Stage 3	25302-102	AFB0028
Motor	Stage 3	01A00063-005	0032014
Heat Deflector Support	Stage 3	25-36379-1	0000213
Interstage Assembly-Insulated	Stage 2-3	25-36103-1	0000356
Angular Accelerometer Unit	Stage 2	25170-102	AAM0202
Battery Assembly	Stage 2	66603-107	AAV0375
Cable Assembly-Electrical	Stage 2	25305-102	AFD0022
Flight Control Unit	Stage 2	25300-102	AFA0031
Motor	Stage 2	366978-59	0022023
Heat Deflector Support	Stage 2	25-36378-1	0000206
Interstage Assembly-Insulated	Stage 1-2	25-36101-1	0000213
Battery Assembly	Stage 1	66603-107	AAV0392
Cable Assembly-Electrical	Stage 1	25304-102	AFC0023
Flight Control Unit	Stage 1	25301-102	AEZ0032
Motor	Stage 1	U32300-11	0012020
Heat Deflector Support	Stage 1	25-36377-1	0000223
Skirt Assembly	Stage 1	25-36080-1	0000201

2-5550-0-61 R1

REV SYM _____

~~BEING~~ NO. D2-13947-3
SECT. PAGE 52

4.1.7 CONFIGURATION SUMMARY		REPORT NO. <u>D2-13947-3</u>	
MISSILE S/N <u>63-225 (687)</u>		DATE <u>July 1, 1963</u>	
COMPONENT		PART NO.	SERIAL NO.
Cable Assembly-Electrical	Stage 3	25306-102	AFEO029
Flight Control Unit	Stage 3	25302-102	AFB0027
Motor	Stage 3	01A00063-005	0032025
Heat Deflector Support	Stage 3	25-36379-1	0000207
Interstage Assembly-Insulated	Stage 2-3	25-36103-1	0000915
Angular Accelerometer Unit	Stage 2	25170-102	AAO0204
Battery Assembly	Stage 2	66603-107	AAV0395
Cable Assembly-Electrical	Stage 2	25305-102	AFD0026
Flight Control Unit	Stage 2	25300-102	AFAO032
Motor	Stage 2	366978-59	0022024
Heat Deflector Support	Stage 2	25-36378-1	0000346
Interstage Assembly-Insulated	Stage 1-2	25-36101-1	0000201
Battery Assembly	Stage 1	66603-107	AAV0344
Cable Assembly-Electrical	Stage 1	25304-102	AFC0030
Flight Control Unit	Stage 1	25301-102	AEZ0035
Motor	Stage 1	U32300-13	0012046
Heat Deflector Support	Stage 1	25-36377-1	0000221
Skirt Assembly	Stage 1	25-36080-1	0000208

2-5550-0-61 R1

REV SYM _____

BOEING	NO. <u>D2-13947-3</u>
SECT.	PAGE <u>53</u>

4.1.8 CONFIGURATION SUMMARY		REPORT NO. <u>D2-13947-3</u>	
MISSILE S/N <u>63-207 (688)</u>		DATE <u>July 1, 1963</u>	
COMPONENT		PART NO.	SERIAL NO.
Cable Assembly-Electrical	Stage 3	25306-102	AFE0040
Flight Control Unit	Stage 3	25302-102	AFE0029
Motor	Stage 3	01A00063-005	0032024
Heat Deflector Support	Stage 3	25-36379-1	0000211
Interstage Assembly-Insulated	Stage 2-3	25-36103-1	0000206
Angular Accelerometer Unit	Stage 2	25170-102	AAM0199
Battery Assembly	Stage 2	66603-107	AAV0393
Cable Assembly-Electrical	Stage 2	25305-102	AFD0028
Flight Control Unit	Stage 2	25300-102	AFA0029
Motor	Stage 2	366978-59	0022027
Heat Deflector Support	Stage 2	25-36378-1	0000231
Interstage Assembly-Insulated	Stage 1-2	25-36101-1	0000217
Battery Assembly	Stage 1	66603-107	AAV0397
Cable Assembly-Electrical	Stage 1	25304-102	AFC0025
Flight Control Unit	Stage 1	25301-102	AEZ0033
Motor	Stage 1	U32300-11	0012022
Heat Deflector Support	Stage 1	25-36377-1	0000217
Skirt Assembly	Stage 1	25-36080-1	0000209

2-5550-0-61 R1

REV SYM _____

BOEING	NO. <u>D2-13947-3</u>
SECT.	PAGE <u>54</u>

4.3.9 CONFIGURATION SUMMARY		REPORT NO. <u>D2-13947-3</u>	
MISSILE S/N <u>63-201 (690)</u>		DATE <u>July 1, 1963</u>	
COMPONENT		PART NO.	SERIAL NO.
Cable Assembly-Electrical	Stage 3	25306-102	AFE0038
Flight Control Unit	Stage 3	25302-102	AFB0030
Motor	Stage 3	01A00063-005	0032023
Heat Deflector Support	Stage 3	25-36379-1	0000245
Interstage Assembly-Insulated	Stage 2-3	25-36103-1	0000212
Angular Accelerometer Unit	Stage 2	25170-102	AAW0183
Battery Assembly	Stage 2	66603-107	AAV0394
Cable Assembly-Electrical	Stage 2	25305-102	AFD0030
Flight Control Unit	Stage 2	25300-102	AFA0030
Motor	Stage 2	366978-59	0022029
Heat Deflector Support	Stage 2	25-36378-1	0000207
Interstage Assembly-Insulated	Stage 1-2	25-26101-1	0000356
Battery Assembly	Stage 1	66603-107	AAV0342
Cable Assembly-Electrical	Stage 1	25304-102	AFC0024
Flight Control Unit	Stage 1	25301-102	AEZ0034
Motor	Stage 1	U32300-13	0012045
Heat Deflector Support	Stage 1	25-36377-1	0000218
Skirt Assembly	Stage 1	25-36080-1	0000214

2-5550-0-61 R1

REV SYM _____

BOEING NO. D2-13947-3
SECT. _____ PAGE 55

4.1.10 CONFIGURATION SUMMARY		REPORT NO. <u>D2-13947-3</u>	
MISSILE S/N <u>63-208 (693)</u>		DATE <u>July 1, 1963</u>	
COMPONENT		PART NO.	SERIAL NO.
Cable Assembly-Electrical	Stage 3	25306-102	AFE0033
Flight Control Unit	Stage 3	25302-102	AFB0031
Motor	Stage 3	01A00063-005	0032022
Heat Deflector Support	Stage 3	25-36379-1	0000206
Interstage Assembly-Insulated	Stage 2-3	25-36103-1	0000232
Angular Accelerometer Unit	Stage 2	25170-102	AAM0207
Battery Assembly	Stage 2	66603-107	AAV0411
Cable Assembly-Electrical	Stage 2	25305-102	AFD0031
Flight Control Unit	Stage 2	25300-102	AFA0036
Motor	Stage 2	366978-59	0022028
Heat Deflector Support	Stage 2	25-36378-1	0000202
Interstage Assembly-Insulated	Stage 1-2	25-36101-1	0000917
Battery Assembly	Stage 1	66603-107	AAV0341
Cable Assembly-Electrical	Stage 1	25304-102	AFC0031
Flight Control Unit	Stage 1	25301-102	AEZ0036
Motor	Stage 1	U32300-13	0012043
Heat Deflector Support	Stage 1	25-36377-1	0000206
Skirt Assembly	Stage 1	25-36080-1	0000207

2-5550-0-61 R1

REV SYM _____

BOEING NO. D2-13947-3
 SECT. _____ PAGE 56

4.1.11 CONFIGURATION SUMMARY		REPORT NO. <u>D2-13947-3</u>	
MISSILE S/N <u>63-183 (695)</u>		DATE <u>7/1/63</u>	
COMPONENT		PART NO.	SERIAL NO.
Cable Assembly-Electrical	Stage 3	25306-102	AFB0034
Flight Control Unit	Stage 3	25302-102	AFB0034
Motor	Stage 3	01A00063	0032021
Heat Deflector Support	Stage 3	25-36379-1	0000221
Interstage Assembly-Insulated	Stage 2-3	25-36103-1	0000214
Angular Accelerometer Unit	Stage 2	25170-102	AAM0206
Battery Assembly	Stage 2	66603-107	AAV0410
Cable Assembly-Electrical	Stage 2	25305-102	AFD0038
Flight Control Unit	Stage 2	25300-102	AFA0037
Motor	Stage 2	366978-59	0022030
Heat Deflector Support	Stage 2	25-36378-1	0000213
Interstage Assembly-Insulated	Stage 1-2	25-36101-1	0000218
Battery Assembly	Stage 1	66603-107	AAV0347
Cable Assembly-Electrical	Stage 1	25304-102	AFC0032
Flight Control Unit	Stage 1	25301-102	AEZ0037
Motor	Stage 1	U32300-13	0012044
Heat Deflector Support	Stage 1	25-36377-1	0000205
Skirt Assembly	Stage 1	25-36080-1	0000232

2-5550-0-61 R1

REV SYM _____

4.1.12 CONFIGURATION SUMMARY		REPORT NO. <u>D2-13947-3</u>	
MISSILE S/N <u>63-202 (697)</u>		DATE <u>July 1, 1963</u>	
COMPONENT		PART NO.	SERIAL NO.
Cable Assembly-Electrical	Stage 3	25306-102	AFE0032
Flight Control Unit	Stage 3	25302-102	AFB0037
Motor	Stage 3	01A00063-005	0032027
Heat Deflector Support	Stage 3	25-36379-1	0000218
Interstage Assembly-Insulated	Stage 2-3	25-36103-1	0000218
Angular Accelerometer Unit	Stage 2	25170-102	AAW0198
Battery Assembly	Stage 2	66603-107	AAV0407
Cable Assembly-Electrical	Stage 2	25305-102	AFD0025
Flight Control Unit	Stage 2	25300-102	AFA0033
Motor	Stage 2	366978-59	0022031
Heat Deflector Support	Stage 2	25-36378-1	0000214
Interstage Assembly-Insulated	Stage 1-2	25-36101-1	0000222
Battery Assembly	Stage 1	66603-107	AAV0412
Cable Assembly-Electrical	Stage 1	25304-102	AFC0027
Flight Control Unit	Stage 1	25301-102	AEZ0038
Motor	Stage 1	U32300-11	0012023
Heat Deflector Support	Stage 1	25-36377-1	0000213
Skirt Assembly	Stage 1	25-36080-1	0000217

2-5550-0-61 R1

REV SYM. _____

BOEING NO. D2-13947-3
SECT. _____ PAGE 58

4.1.13 CONFIGURATION SUMMARY		REPORT NO. <u>D2-13947-3</u>	
MISSILE S/N <u>63-209 (700)</u>		DATE <u>July 1, 1963</u>	
COMPONENT		PART NO.	SERIAL NO.
Cable Assembly-Electrical	Stage 3	25306-102	AFB0031
Flight Control Unit	Stage 3	25302-102	AFB0022
Motor	Stage 3	01A00063-005	0032026
Heat Deflector Support	Stage 3	25-36379-1	0000216
Interstage Assembly-Insulated	Stage 2-3	25-36103-1	0000215
Angular Accelerometer Unit	Stage 2	25170-102	AAW0049
Battery Assembly	Stage 2	66603-107	AAV0305
Cable Assembly-Electrical	Stage 2	25305-102	AFD0029
Flight Control Unit	Stage 2	25300-102	AFB0034
Motor	Stage 2	366978-79	0022040
Heat Deflector Support	Stage 2	25-36378-1	0000356
Interstage Assembly-Insulated	Stage 1-2	25-36101-1	0000208
Battery Assembly	Stage 1	66603-107	AAV0404
Cable Assembly-Electrical	Stage 1	25304-102	AFB0038
Flight Control Unit	Stage 1	25301-102	AEZ0040
Motor	Stage 1	U32300-11	0012024
Heat Deflector Support	Stage 1	25-36377-1	0000210
Skirt Assembly	Stage 1	25-36080-1	0000919

2-5550-0-61 R1

REV SYM _____

BEING NO. D2-13947-3
 SECT. _____ PAGE 59

4.1.14 CONFIGURATION SUMMARY		REPORT NO. <u>D2-13947-3</u>	
MISSILE S/N <u>63-208 (702)</u>		DATE <u>July 1, 1963</u>	
COMPONENT		PART NO.	SERIAL NO.
Cable Assembly-Electrical	Stage 3	25306-102	AFE0030
Flight Control Unit	Stage 3	25302-102	AFB0038
Motor	Stage 3	01A00063-005	0032031
Heat Deflector Support	Stage 3	25-36379-1	0000212
Interstage Assembly-Insulated	Stage 2-3	25-36103-1	0000217
Angular Accelerometer Unit	Stage 2	25170-102	AAM0175
Battery Assembly	Stage 2	66603-107	AAV0322
Cable Assembly-Electrical	Stage 2	25305-102	AFD0032
Flight Control Unit	Stage 2	25300-102	AFA0025
Motor	Stage 2	366978-79	0022034
Heat Deflector Support	Stage 2	25-36378-1	0000218
Interstage Assembly-Insulated	Stage 1-2	25-36101-1	0000219
Battery Assembly	Stage 1	66603-107	AAV0417
Cable Assembly-Electrical	Stage 1	25304-102	AFC0039
Flight Control Unit	Stage 1	25301-102	AEZ0041
Motor	Stage 1	U32300-13	0012048
Heat Deflector Support	Stage 1	25-36377-1	0000219
Skirt Assembly	Stage 1	25-36080-1	0000218

2-5550-0-61 R1

REV SY A. _____

BEING NO. D2-13947-3
SECT. _____ PAGE 60

4.1.15 CONFIGURATION SUMMARY		REPORT NO. <u>D2-13947-3</u>	
MISSILE S/N <u>63-210 (704)</u>		DATE <u>July 1, 1963</u>	
COMPONENT		PART NO.	SERIAL NO.
Cable Assembly-Electrical	Stage 3	25306-102	AFE0035
Flight Control Unit	Stage 3	25302-102	AFB0041
Motor	Stage 3	01A00063-005	0032030
Heat Deflector Support	Stage 3	25-36379-1	0000208
Interstage Assembly-Insulated	Stage 2-3	25-36103-1	0000207
Angular Accelerometer Unit	Stage 2	25170-102	AAM0215
Battery Assembly	Stage 2	66603-107	AAV0418
Cable Assembly-Electrical	Stage 2	25305-102	AFD0034
Flight Control Unit	Stage 2	25300-102	AFA0040
Motor	Stage 2	366978-79	0022038
Heat Deflector Support	Stage 2	25-36378-1	0000222
Interstage Assembly-Insulated	Stage 1-2	25-36101-1	0000915
Battery Assembly	Stage 1	66603-107	AAV0405
Cable Assembly-Electrical	Stage 1	25304-102	AFC0033
Flight Control Unit	Stage 1	25301-102	AEZ0017
Motor	Stage 1	U32300-13	0012047
Heat Deflector Support	Stage 1	25-36377-1	0000216
Skirt Assembly	Stage 1	25-36080-1	0000215

2-5550-0-61 R1

REV SYM _____

BOEING	NO. <u>D2-13947-3</u>
SECT.	PAGE <u>61</u>

4.1.16 CONFIGURATION SUMMARY		REPORT NO. <u>D2-13947-3</u>	
MISSILE S/N <u>63-226 (706)</u>		DATE <u>July 1, 1963</u>	
COMPONENT		PART NO.	SERIAL NO.
Cable Assembly-Electrical	Stage 3	25306-102	AFE0042
Flight Control Unit	Stage 3	25302-102	AFB0043
Motor	Stage 3	01A00063-005	0032034
Heat Deflector Support	Stage 3	25-36379-1	0000222
Interstage Assembly-Insulated	Stage 2-3	25-36103-1	0000203
Angular Accelerometer Unit	Stage 2	25170-102	AAM0216
Battery Assembly	Stage 2	66603-107	AAV0511
Cable Assembly-Electrical	Stage 2	25305-102	AFD0041
Flight Control Unit	Stage 2	25300-102	AFA0042
Motor	Stage 2	366978-79	0022043
Heat Deflector Support	Stage 2	25-36378-1	0000223
Interstage Assembly-Insulated	Stage 1-2	25-36101-1	0000221
Battery Assembly	Stage 1	66603-107	AAV0506
Cable Assembly-Electrical	Stage 1	25304-102	AFC0035
Flight Control Unit	Stage 1	25301-102	AEZ0044
Motor	Stage 1	U32300-13	0012053
Heat Deflector Support	Stage 1	25-36377-1	0000229
Skirt Assembly	Stage 1	25-36080-1	0000223

2-5550-0-61 R1

REV SYM _____

BOEING	NO. <u>D2-13947-3</u>
SECT.	PAGE 62

4.1.17 CONFIGURATION SUMMARY		REPORT NO. <u>D2-13947-3</u>	
MISSILE S/N <u>63-204 (707)</u>		DATE <u>July 1, 1963</u>	
COMPONENT		PART NO.	SERIAL NO.
Cable Assembly-Electrical	Stage 3	25306-102	AFB0037
Flight Control Unit	Stage 3	25302-102	AFB0039
Motor	Stage 3	01A00063-005	0032029
Heat Deflector Support	Stage 3	25-36379-1	0000209
Interstage Assembly-Insulated	Stage 2-3	25-36103-1	0000246
Angular Accelerometer Unit	Stage 2	25170-102	AAM0217
Battery Assembly	Stage 2	66603-107	AAV0495
Cable Assembly-Electrical	Stage 2	25305-102	AFD0035
Flight Control Unit	Stage 2	25300-102	AFA0041
Motor	Stage 2	366978-79	0022037
Heat Deflector Support	Stage 2	25-36378-1	0000232
Interstage Assembly-Insulated	Stage 1-2	25-36101-1	0000203
Battery Assembly	Stage 1	66603-107	AAV0396
Cable Assembly-Electrical	Stage 1	25304-102	AFC0034
Flight Control Unit	Stage 1	25301-102	AEZ0043
Motor	Stage 1	U32300-13	0012025
Heat Deflector Support	Stage 1	25-36377-1	0000248
Skirt Assembly	Stage 1	25-36080-1	0000346

2-5550-0-61 R1

REV SYM _____

BOEING NO. D2-13947-3
 SECT. _____ PAGE 63

4.1.18 CONFIGURATION SUMMARY		REPORT NO. <u>D2-13947-3</u>	
MISSILE S/N <u>63-211 (709)</u>		DATE <u>July 1, 1963</u>	
COMPONENT		PART NO.	SERIAL NO.
Cable Assembly-Electrical	Stage 3	25306-102	AFE0045
Flight Control Unit	Stage 3	25302-102	AFB0042
Motor	Stage 3	01A00063-005	0032035
Heat Deflector Support	Stage 3	25-36379-1	0000231
Interstage Assembly-Insulated	Stage 2-3	25-36103-1	0000225
Angular Accelerometer Unit	Stage 2	25170-102	AAW0222
Battery Assembly	Stage 2	66603-107	AAV0398
Cable Assembly-Electrical	Stage 2	25305-102	AFD0046
Flight Control Unit	Stage 2	25300-102	AFA0035
Motor	Stage 2	366978-79	0022035
Heat Deflector Support	Stage 2	25-36378-1	0000209
Interstage Assembly-Insulated	Stage 1-2	25-36101-1	0000223
Battery Assembly	Stage 1	66603-107	AAV0420
Cable Assembly-Electrical	Stage 1	25304-102	AFC0048
Flight Control Unit	Stage 1	25301-102	AEZ0042
Motor	Stage 1	U32300-13	0012050
Heat Deflector Support	Stage 1	25-36377-1	0000239
Skirt Assembly	Stage 1	25-36080-1	0000222

2-5550-0-61 R1

REV SYM _____

BEING NO. D2-13947-3
SECT. PAGE 64

4.1.19 CONFIGURATION SUMMARY		REPORT NO. <u>D2-1394-3</u>	
MISSILE S/N <u>63-215 (711)</u>		DATE <u>July 1, 1963</u>	
COMPONENT		PART NO.	SERIAL NO.
Cable Assembly-Electrical	Stage 3	25306-102	AFE0036
Flight Control Unit	Stage 3	25302-102	AFB0040
Motor	Stage 3	01A00063-005	0032036
Heat Deflector Support	Stage 3	25-36379-1	0000219
Interstage Assembly-Insulated	Stage 2-3	25-36103-1	0000238 \
Angular Accelerometer Unit	Stage 2	25170-102	AAW0226
Battery Assembly	Stage 2	66603-107	AAV0419
Cable Assembly-Electrical	Stage 2	25305-102	AFD0049
Flight Control Unit	Stage 2	25300-102	AFA0039
Motor	Stage 2	366978-79	0022039
Heat Deflector Support	Stage 2	25-36378-1	0000215
Interstage Assembly-Insulated	Stage 1-2	25-36101-1	0000232
Battery Assembly	Stage 1	66603-107	AAV0391
Cable Assembly-Electrical	Stage 1	25304-102	AFC0022
Flight Control Unit	Stage 1	25301-102	AEZ0031
Motor	Stage 1	U32300-13	0012049
Heat Deflector Support	Stage 1	25-36377-1	0000207
Skirt Assembly	Stage 1	25-36080-1	0000210

2-5550-0-61 R1

REV SYM _____

BOEING	NO. <u>D2-13947-3</u>
SECT.	PAGE <u>65</u>