

**Report No.  
3151176-55**

**CHILD RESTRAINT SYSTEM  
COMPONENT TESTS  
FMVSS 213**

**Model No.  
Orbit Toddler Car Seat**

**SGS North America Inc.  
Consumer Testing Services  
291 Fairfield Avenue  
Fairfield, NJ 07004**



**September 4, 2013**

**FINAL REPORT**

**213-SGS-13-55**


**PREPARED FOR**

**U.S. DEPARTMENT OF TRANSPORTATION  
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION  
ENFORCEMENT  
OFFICE OF VEHICLE SAFETY COMPLIANCE  
1200 NEW JERSEY AVE, SE (ROOM W45-304)  
WASHINGTON, D.C. 20590**

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**Report No.:** 3151176-55

**Prepared by:** SGS North America Inc.

**Approved by:**   
Frank Savino

**Date:** September 4, 2013

**Report Accepted by:**

**Contract Technical Manager, O.V.S.C.  
Office of Vehicle Safety Compliance**



**Accepted By:** \_\_\_\_\_

**Acceptance Date:** September 4, 2013

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4. Title and Sub-Title CHILD RESTRAINT SYSTEM, COMPONENT PARTS, Model No.: Orbit Toddler Car Seat		5. Report Date: September 4, 2013	
6. Performing Organization Code SGS-213-13-55		7. Author: Frank Savino, Project Manager	
8. Performing Organization Report No. SGS-DOT-213-13-55		9. Performing Organization Name and Address: SGS North America Inc. 291 Fairfield Avenue Fairfield, NJ 07004	
10. Work Unit No.		11. Order Number DTNH22-12-D-00263	
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16. Abstract THIS REPORT PRESENTS THE RESULTS OF TESTS PERFORMED IN ACCORDANCE WITH FEDERAL MOTOR VEHICLE SAFETY STANDARD NO. 213 ON CHILD RESTRAINT SYSTEM COMPONENT PARTS.  MODEL NUMBER: Orbit Toddler Car Seat ALL TESTS WERE SATISFACTORILY COMPLETED.			
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## **SECTION 1**

### **PURPOSE AND TEST PROCEDURES**

## **PURPOSE AND TEST PROCEDURES**

**Purpose:** The purpose of this report was to determine if the production child restraint components parts supplied by the National Highway Traffic Safety Administration met the requirements of Federal Motor Vehicle Safety Standard Number 213 - "Child Restraint System".

**Test Procedures:** The "SGS North America Inc. Laboratories Test Procedure for FMVSS No. 213" dated July 2012 submitted and approved by the office of Vehicle Safety Compliance National Highway Traffic Safety Administration contains the specific procedures used to conduct this test. This procedure shall not be interpreted to be in conflict with any portion of FMVSS No. 213 and amendments in effect as noted in the applicable order.

## SECTION 2

### INSPECTION DATA AND TEST DATA

**INSPECTION AND TEST DATA**  
**FMVSS NO. 213 - CHILD RESTRAINT SYSTEMS**

**Report No.:** 3151176-55

**Child Restraint System Identification**

**Manufacturer:**

**Name:** Orbit Baby Inc.

**Address:** 8445 Central Ave.  
Newark, CA 94560-3431

**Model:** Toddler Car Seat

**Technicians:** Mark Ostrovsky and John Roycraft

**Project Manager:** Frank Savino



### **WEBBING PERFORMANCE TESTS (a213-5.4.1)**

**Report No.:** 3151176-55

**Test Date:** September 3, 2013

#### **Laboratory Ambient Conditions During Testing**

Temperature: 73 ° F

Relative Humidity: 50 %

**Webbing Usage on Restraint:** Harness

<b><u>Test</u></b>	<b><u>Compliance Requirement</u></b>	<b><u>Test Result</u></b>	<b><u>Pass/Fail</u></b>
Non-Degraded Webbing (FMVSS 209, S5.1 (b))	New webbing breaking strength, 15,000 N (webbing used to secure CRS to vehicle) or 11,000 N (webbing used to secure child within CRS)	1. 15,600 2. 16,900 3. 17,400 Median: 16,900	Pass
Resistance to Abrasion (FMVSS 209, S4.2(d) & S5.1(d))  Abrasion Cycles Performed 2500 (2500 Required)	Median breaking strength, Newtons (75% of median baseline strength)	1. 17,400 2. 17,300 3. 16,800 Median: 17,300  Strength Retained: 100+%	Pass
Resistance to Buckle Abrasion (FMVSS 209, S5.3(c))  Abrasion cycles Performed 2500 (2500 Required)	Median breaking strength, Newtons (75% of median baseline strength)	1. N/A 2. N/A 3. N/A Median: N/A	N/A

**WEBBING PERFORMANCE TESTS (a213-5.4.1) (Continued)****Report No.:** 3151176-55**Test Date:** September 3, 2013

<b><u>Test</u></b>	<b><u>Compliance Requirement</u></b>	<b><u>Test Result</u></b>	<b><u>Pass/Fail</u></b>
Resistance to Light (FMVSS 209, S4.2 (e) & S5.1(e))  Exposure Time 100 Hr. (100 Hours Required)	Median breaking strength, Newtons (60% of median baseline strength)	1. 16,200 2. 16,400 3. 16,400  Median: 16,400  Strength Retained: 97.0%	Pass
	Color Retention >= No. 2 on the Geometric Gray Scale	1. 4 2. 4 3. 4	Pass
Resistance to Micro- Organisms (FMVSS 209, S4.2 (f), S5.1 (f))	Median breaking strength, Newtons (85% of median baseline strength)	1. N/A 2. N/A 3. N/A  Median: N/A	N/A
Width Requirement (FMVSS 213, S5.4.1.3)	Width >= 38 mm) If webbing contacts the test dummy torso	1. 39.0 2. 39.0 3. 39.0	Pass

**Remarks:****Technicians:** John Roycraft**Project Manager:** Frank Savino

### **WEBBING PERFORMANCE TESTS (a213-5.4.1)**

**Report No.:** 3151176-55

**Test Date:** September 3, 2013

**Laboratory Ambient Conditions During Testing**

Temperature: 73 ° F

Relative Humidity: 50 %

**Webbing Usage on Restraint:** Adjuster

<b><u>Test</u></b>	<b><u>Compliance Requirement</u></b>	<b><u>Test Result</u></b>	<b><u>Pass/Fail</u></b>
Non-Degraded Webbing (FMVSS 209, S5.1 (b))	New webbing breaking strength, 15,000 N (webbing used to secure CRS to vehicle) or 11,000 N (webbing used to secure child within CRS)	1. 15,400 2. 16,200 3. 16,200 Median: 16,200	Pass
Resistance to Abrasion (FMVSS 209, S4.2(d) & S5.1(d))  Abrasion Cycles Performed 2500 (2500 Required)	Median breaking strength, Newtons (75% of median baseline strength)	1. 16,000 2. 15,800 3. 15,900 Median: 15,900  Strength Retained: 98.1%	Pass
Resistance to Buckle Abrasion (FMVSS 209, S5.3(c))  Abrasion cycles Performed 2500 (2500 Required)	Median breaking strength, Newtons (75% of median baseline strength)	1. N/A 2. N/A 3. N/A Median: N/A	N/A

**WEBBING PERFORMANCE TESTS (a213-5.4.1) (Continued)****Report No.:** 3151176-55**Test Date:** September 3, 2013

<b><u>Test</u></b>	<b><u>Compliance Requirement</u></b>	<b><u>Test Result</u></b>	<b><u>Pass/Fail</u></b>
Resistance to Light (FMVSS 209, S4.2 (e) & S5.1(e))  Exposure Time 100 Hr. (100 Hours Required)	Median breaking strength, Newtons (60% of median baseline strength)	1. 15,800 2. 15,500 3. 16,000  Median: 15,800  Strength Retained: 97.5%	Pass
	Color Retention >= No. 2 on the Geometric Gray Scale	1. 5 2. 5 3. 5	Pass
Resistance to Micro- Organisms (FMVSS 209, S4.2 (f), S5.1 (f))	Median breaking strength, Newtons (85% of median baseline strength)	1. N/A 2. N/A 3. N/A  Median: N/A	N/A
Width Requirement (FMVSS 213, S5.4.1.3)	Width >= 38 mm) If webbing contacts the test dummy torso	1. 26.0 2. 26.0 3. 26.0	N/A

**Remarks:****Technicians:** John Roycraft**Project Manager:** Frank Savino

### **WEBBING PERFORMANCE TESTS (a213-5.4.1)**

**Report No.:** 3151176-55

**Test Date:** September 3, 2013

#### **Laboratory Ambient Conditions During Testing**

Temperature: 73 ° F

Relative Humidity: 50 %

**Webbing Usage on Restraint:** Latch

<b><u>Test</u></b>	<b><u>Compliance Requirement</u></b>	<b><u>Test Result</u></b>	<b><u>Pass/Fail</u></b>
Non-Degraded Webbing (FMVSS 209, S5.1 (b))	New webbing breaking strength, 15,000 N (webbing used to secure CRS to vehicle) or 11,000 N (webbing used to secure child within CRS)	1. 17,300 2. 17,200 3. 17,000 Median: 17,200	Pass
Resistance to Abrasion (FMVSS 209, S4.2(d) & S5.1(d))  Abrasion Cycles Performed 2500 (2500 Required)	Median breaking strength, Newtons (75% of median baseline strength)	1. 15,600 2. 16,900 3. 16,700 Median: 16,700  Strength Retained: 97.1%	Pass
Resistance to Buckle Abrasion (FMVSS 209, S5.3(c))  Abrasion cycles Performed 2500 (2500 Required)	Median breaking strength, Newtons (75% of median baseline strength)	1. N/A 2. N/A 3. N/A Median: N/A	N/A

**WEBBING PERFORMANCE TESTS (a213-5.4.1) (Continued)****Report No.:** 3151176-55**Test Date:** September 3, 2013

<b><u>Test</u></b>	<b><u>Compliance Requirement</u></b>	<b><u>Test Result</u></b>	<b><u>Pass/Fail</u></b>
Resistance to Light (FMVSS 209, S4.2 (e) & S5.1(e))  Exposure Time 100 Hr. (100 Hours Required)	Median breaking strength, Newtons (60% of median baseline strength)	1. 17,400 2. 16,500 3. 16,600  Median: 16,600  Strength Retained: 96.5%	Pass
	Color Retention >= No. 2 on the Geometric Gray Scale	1. 5 2. 5 3. 5	Pass
Resistance to Micro- Organisms (FMVSS 209, S4.2 (f), S5.1 (f))	Median breaking strength, Newtons (85% of median baseline strength)	1. N/A 2. N/A 3. N/A  Median: N/A	N/A
Width Requirement (FMVSS 213, S5.4.1.3)	Width >= 38 mm) If webbing contacts the test dummy torso	1. 39.0 2. 40.0 3. 40.0	N/A

**Remarks:****Technicians:** John Roycraft**Project Manager:** Frank Savino

### **WEBBING PERFORMANCE TESTS (a213-5.4.1)**

**Report No.:** 3151176-55

**Test Date:** September 3, 2013

#### **Laboratory Ambient Conditions During Testing**

Temperature: 73 ° F

Relative Humidity: 50 %

**Webbing Usage on Restraint:** Tether

<b><u>Test</u></b>	<b><u>Compliance Requirement</u></b>	<b><u>Test Result</u></b>	<b><u>Pass/Fail</u></b>
Non-Degraded Webbing (FMVSS 209, S5.1 (b))	New webbing breaking strength, 15,000 N (webbing used to secure CRS to vehicle) or 11,000 N (webbing used to secure child within CRS)	1. 16,900 2. 17,500 3. 17,100 Median: 17,100	Pass
Resistance to Abrasion (FMVSS 209, S4.2(d) & S5.1(d))  Abrasion Cycles Performed 2500 (2500 Required)	Median breaking strength, Newtons (75% of median baseline strength)	1. 17,000 2. 16,800 3. 16,700 Median: 16,800  Strength Retained: 98.2%	Pass
Resistance to Buckle Abrasion (FMVSS 209, S5.3(c))  Abrasion cycles Performed 2500 (2500 Required)	Median breaking strength, Newtons (75% of median baseline strength)	1. N/A 2. N/A 3. N/A Median: N/A	N/A

**WEBBING PERFORMANCE TESTS (a213-5.4.1) (Continued)****Report No.:** 3151176-55**Test Date:** September 3, 2013

<b><u>Test</u></b>	<b><u>Compliance Requirement</u></b>	<b><u>Test Result</u></b>	<b><u>Pass/Fail</u></b>
Resistance to Light (FMVSS 209, S4.2 (e) & S5.1(e))  Exposure Time 100 Hr. (100 Hours Required)	Median breaking strength, Newtons (60% of median baseline strength)	1. 16,800 2. 16,900 3. 16,800  Median: 16,800  Strength Retained: 98.2%	Pass
	Color Retention >= No. 2 on the Geometric Gray Scale	1. 5 2. 5 3. 5	Pass
Resistance to Micro- Organisms (FMVSS 209, S4.2 (f), S5.1 (f))	Median breaking strength, Newtons (85% of median baseline strength)	1. N/A 2. N/A 3. N/A  Median: N/A	N/A
Width Requirement (FMVSS 213, S5.4.1.3)	Width >= 38 mm) If webbing contacts the test dummy torso	1. 39.0 2. 39.0 3. 39.0	N/A

**Remarks:****Technicians:** John Roycraft**Project Manager:** Frank Savino



**BELT BUCKLE AND ADJUSTMENT HARDWARE  
PERFORMANCE TESTS (S213-S5.4.2/S209-S4.3)**

**Report No.:** 3151176-55

**Test Date:** August 21, 2013

**Item Code:** Orbit Toddler Car Seat

**Laboratory Ambient Conditions During Testing**

**Temperature:** 73 °F

**Relative Humidity:** 50 %

Test	Compliance Requirement	Test Result	Pass/Fail
<b>Corrosion Resistance</b> (FMVSS 209), (S4.3.(a) (2))  Exposure Time 24 Hours (24 Hours Required)  Drying Time 1 Hour (1 Hour Required)	No Corrosion (NC)	1. NC  2. NC  3. NC	Pass  Pass  Pass
Push Buttons S213; S5.4.3.5 (c)	Area $\geq$ 0.6 sq. in.)	0.71	Pass
	Linear Dimensions	0.81 x 0.88	N/A
Lever Release	Cylinder Insertion	N/A	N/A
Other	Two-finger Access	N/A	N/A

**BELT BUCKLE AND ADJUSTMENT HARDWARE  
PERFORMANCE TESTS (S213-S5.4.2/S209-S4.3) (Continued)**

**Report No.:** 3151176-55

<b>Test</b>	<b>Compliance Requirement</b>	<b>Test Result</b>		<b>Pass/Fail</b>	
Buckle Latch (FMVSS 209 S4.3(g)) Follows <b>Corrosion Resistance</b> Cycles 200 (200 Required)	No Functional Deterioration (NFD)	1.	NFD	1.	Pass
		2.	NFD	2.	Pass
		3.	NFD	3.	Pass
Buckle Latch (FMVSS 209 S4.3(g)) <b>Corrosion Resistance</b> metal to metal buckles Note: Cycle Button; Perform manual latching and unlatching prior to partial engagement test. Measurements truncated to one decimal place.	Partial Engagement Separation Force <5 lb.	Test Result As Received (Results in Pounds)		Test Result After <b>Corrosion Resistance</b>	
		Front	Reverse	Front	Reverse
		<u>Sample 1</u>	<u>Sample 1</u>	<u>Sample 1</u>	<u>Sample 1</u>
		1) P	1) P	1) P	1) P
		2) P	2) P	2) P	2) P
		3) P	3) P	3) P	3) P
		<u>Sample 2</u>	<u>Sample 2</u>	<u>Sample 2</u>	<u>Sample 2</u>
		1) P	1) P	1) P	1) P
		2) P	2) P	2) P	2) P
		3) P	3) P	3) P	3) P
		<u>Sample 3</u>	<u>Sample 3</u>	<u>Sample 3</u>	<u>Sample 3</u>
		1) P	1) P	1) P	1) P
		2) P	2) P	2) P	2) P
		3) P	3) P	3) P	3) P

**Remarks:** P = Pass

**Technicians:** Mark Ostrovsky and John Roycraft

**Project Manager:** Frank Savino

**BELT BUCKLE AND ADJUSTMENT HARDWARE  
PERFORMANCE TESTS (S213-S5.4.2/S209-S4.3)**

**Report No.:** 3151176-55

**Test Date:** August 21, 2013

**Item Code:** Orbit Toddler Car Seat

**Laboratory Ambient Conditions During Testing**

**Temperature:** 73 °F

**Relative Humidity:** 50 %

<u>Test</u>	<u>Compliance Requirement</u>	<u>Test Result</u>	<u>Pass/Fail</u>
<b>Temperature Resistance</b> (FMVSS 209), (S4.3.(b))  Exposure Time 24 Hours (24 Hours Required)  Drying Time 1 Hour (1 Hour Required)	No Functional Deterioration (NFD)	1. NFD  2. NFD  3. NFD	Pass  Pass  Pass
Push Buttons S213; S5.4.3.5 (c)	Area $\geq$ 0.6 sq. in.	0.71	Pass
	Linear Dimensions	0.81 x 0.88	N/A
Lever Release	Cylinder Insertion	N/A	N/A
Other	Two-finger Access	N/A	N/A

**BELT BUCKLE AND ADJUSTMENT HARDWARE  
PERFORMANCE TESTS (S213-S5.4.2/S209-S4.3) (Continued)**

Report No.: 3151176-55

<u>Test</u>	<u>Compliance Requirement</u>	<u>Test Result</u>		<u>Pass/Fail</u>	
Buckle Latch (FMVSS 209 S4.3(g)) Follows <b>Temperature Resistance</b> Cycles 200 (200 Required))	No Functional Deterioration (NFD)	1.	NFD	1.	Pass
		2.	NFD	2.	Pass
		3.	NFD	3.	Pass
Buckle Latch (FMVSS 209 S4.3(g)) <b>Temperature Resistance</b> metal to metal buckles Note: Cycle Button; Perform manual latching and unlatching prior to partial engagement test. Measurements truncated to one decimal place.	Partial Engagement Separation Force  <5 lb.	Test Result As Received (Results in Pounds)		Test Result After <b>Temperature Resistance</b>	
		Front	Reverse	Front	Reverse
		<u>Sample 1</u>	<u>Sample 1</u>	<u>Sample 1</u>	<u>Sample 1</u>
		1) P	1) P	1) P	1) P
		2) P	2) P	2) P	2) P
		3) P	3) P	3) P	3) P
		<u>Sample 2</u>	<u>Sample 2</u>	<u>Sample 2</u>	<u>Sample 2</u>
		1) P	1) P	1) P	1) P
		2) P	2) P	2) P	2) P
		3) P	3) P	3) P	3) P
		<u>Sample 3</u>	<u>Sample 3</u>	<u>Sample 3</u>	<u>Sample 3</u>
		1) P	1) P	1) P	1) P
		2) P	2) P	2) P	2) P
		3) P	3) P	3) P	3) P

Remarks:

P = Pass

Technicians:

Mark Ostrovsky and John Roycraft

Project Manager:

Frank Savino

## **APPENDIX A**

### **EQUIPMENT LIST AND CALIBRATION**

**SGS NORTH AMERICA INC.  
TEST EQUIPMENT**

<u>NO.</u>	<u>ITEM</u>	<u>MANUFACTURER</u>	<u>MODEL</u>	<u>SERIAL NO.</u>	<u>CAL. PERIOD</u>	<u>DATE OF LAST CAL.</u>	<u>ACCURACY</u>	<u>REMARKS</u>
<b><u>WEBBING TESTING</u></b>								
1	Steel Ruler	Mitutoyo	182-125	---	1 Year	7/13	+/-0.01 inch	Webbing Width
2	Hex-Bar Abrader	U.S. Testing	---	---	1Year*	6/13	---	*Timer-Counter Assembly and Weights
3	Weatherometer	Atlas Electric Co.	CXW	CB-12295	1 Year*	5/13	+/-1%	*Temp. and Voltage Meters
4	Weatherometer	Atlas Electric Co.	CXW	CB-1214	1 Year*	5/13	+/-1%	*Temp. and Voltage Meters
5	Weatherometer	Atlas Electric Co.	XW-WT	W0-3009	1 Year*	5/13	+/-1%	*Temp. and Voltage Meters
6	Color Change - Gray Scale	AATCC	---	---	---	---	---	Visual Comparison
7	Universal Testing Machine	Instron	1115	3289	1 Year	6/13	+/-1%	Webbing Strength
8	Universal Testing Machine	Instron	TTC	4344	1 Year	6/13	+/-1%	Webbing Strength
9	2" Split Drum Grips	U.S. Testing Co.	---	---	---	---	---	Instron Fixture

**SGS NORTH AMERICA INC.  
TEST EQUIPMENT**

<u>NO.</u>	<u>ITEM</u>	<u>MANUFACTURER</u>	<u>MODEL</u>	<u>SERIAL NO.</u>	<u>CAL. PERIOD</u>	<u>DATE OF LAST CAL.</u>	<u>ACCURACY</u>	<u>REMARKS</u>
<b><u>BUCKLE TESTING</u></b>								
10	Salt Spray Chamber	Singleton Corp.	SCCH22	SCCH22-21947	---	---	---	Checked daily in accordance with ASTM B-117
11	Temperature Recorder	Honeywell	DR4300	0318Y359 016800003	1 Year	4/13	+/- 5°F	Monitor Salt Spray Temperature
12	Temperature Humidity Chamber	Blue-M	FR-386PC	AA221	1Year	4/13	+/-2°C +/-5% R.H	Temperature-Humidity Exposure
13	Temperature Humidity Chamber	Blue-M	FR-386PBX	AA278	1Year	4/13	+/-2°C +/-5% R.H	Temperature-Humidity Exposure
14	Temperature Humidity Chamber	Blue-M	LR-386B-MP1	L3-122	1 Year	1/13	+/-2°C +/-5% R.H	Temperature-Humidity Exposure
15	Temperature Chamber	Despatch	52392 V29	037-15	1 Year	4/13	+/-2°C +/-5% R.H	Temperature Exposure
16	Temperature Recorder	Bristol	N15-T25	736652	1 Year	4/13	+/-1%	Temperature Measurement
17	Pushbutton Latch Fixture	U.S. Testing	---	---	1 Year*	6/13	---	Force checked prior to use. *Timer Counter

**STANDARD LABORATORY CONDITIONING**

18	Temperature / Humidity Recorder	Dickson	TH800	07150222	1Year	4/13	+/-2°F +/-5% R.H.	Monitor Room Conditioning
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## **APPENDIX B**

### **INTERPRETATION AND/OR DEVIATIONS FROM FMVSS NO. 213**



**NO INTERPRETATIONS OR DEVIATIONS FROM FMVSS NO. 213**

## **APPENDIX C**

### **PHOTOGRAPHS**

### **LISTS OF PHOTOGRAPHS**

The following section identifies photographed testing equipment.

Page Number	Description of Photograph
C-2	Corrosion Resistance
C-3	Temperature Humidity Chamber
C-4	Temperature Chamber
C-5	Button Cycling Apparatus
C-6	Breaking Strength Apparatus
C-7	Resistance to Light
C-8	Hex Bar Abrasion Apparatus

The following section identifies photographs of the seat.

Photograph Number	Description of Photograph
C-9	Top of Box
C-10	Side of Box
C-11	Front of Seat
C-12	Side of Seat
C-13	Back of Seat
C-14	Registration Card

C-2



C-3



Temperature/Humidity Chamber

C-4



Temperature Chamber

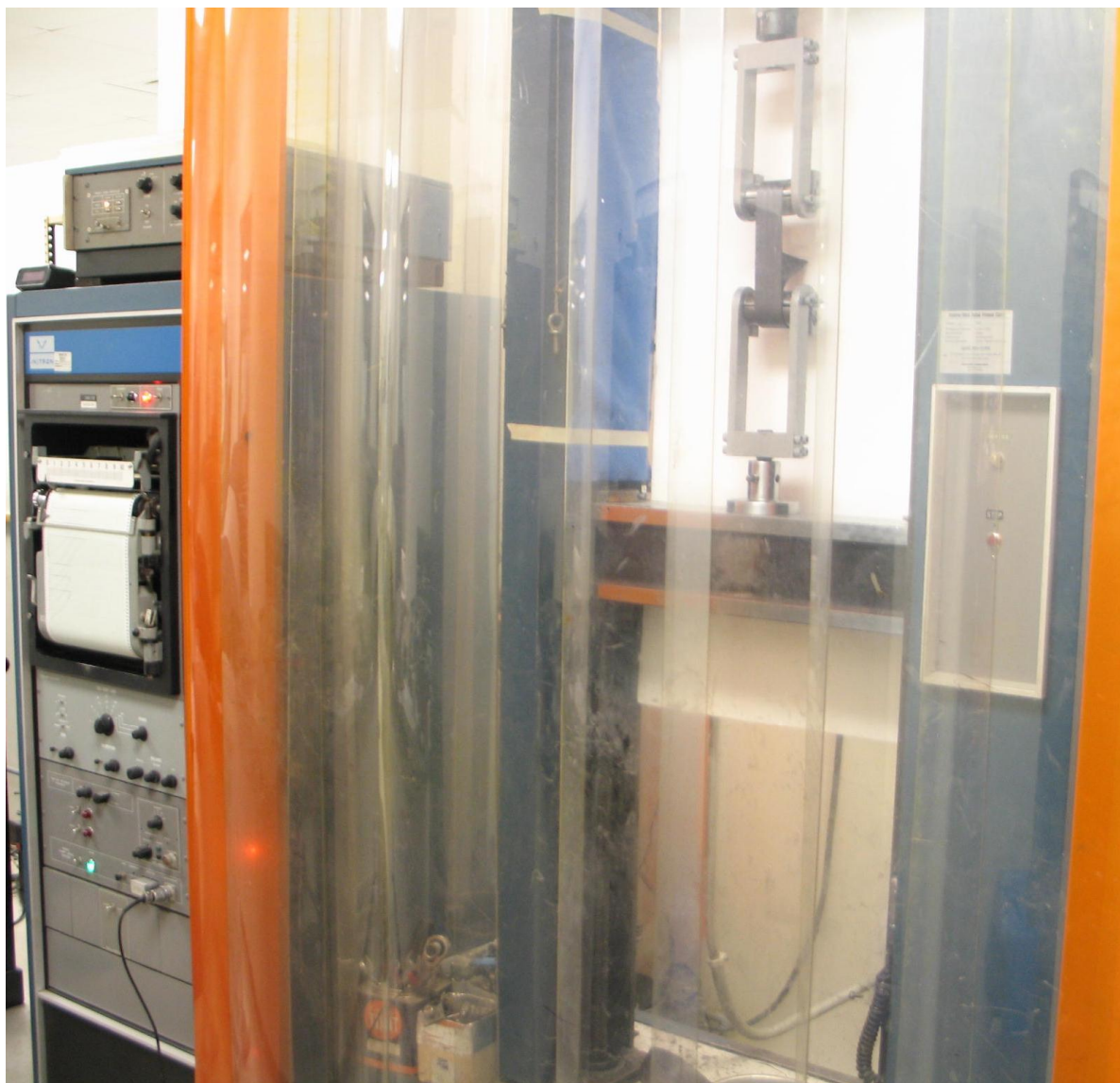
C-5



Button Cycling Apparatus



C-6



Instron Universal Testing Machine

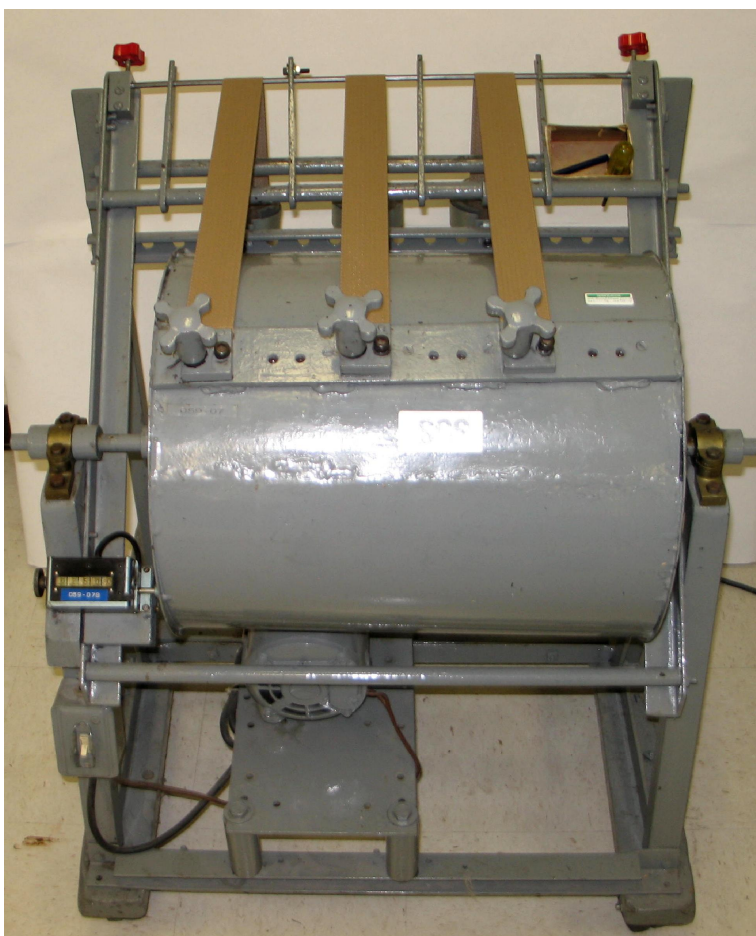


C-7



Weatherometer

C-8



Hex Bar Abrasion Apparatus

C-9





C-10

**#55 ORBIT TODDLER C10**



C-11





C-12



C-13





