

REPORT NUMBER: 220-MGA-2009-005

**SAFETY COMPLIANCE TESTING FOR
FMVSS NO. 220
SCHOOL BUS ROLLOVER PROTECTION**

**GIRARDIN MINIBUS, INC.
2008 GIRARDIN G5 SCHOOL BUS
NHTSA NO.: C80902**

**PREPARED BY:
MGA RESEARCH CORPORATION
5000 WARREN ROAD
BURLINGTON, WI 53105**




TEST DATE: NOVEMBER 3, 2010


FINAL REPORT DATE: JANUARY 12, 2011

FINAL REPORT

**PREPARED FOR:
U.S. DEPARTMENT OF TRANSPORTATION
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION
ENFORCEMENT
OFFICE OF VEHICLE SAFETY COMPLIANCE
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Technical Report Documentation Page

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SECTION 1
PURPOSE OF COMPLIANCE TEST

Tests were conducted on a 2008 Girardin G5 School Bus, NHTSA No.: C80902, in accordance with the specifications of the Office of Vehicle Safety Compliance (OVSC) Test Procedure, TP-220-02, to determine compliance to the requirements of Federal Motor Vehicle Safety Standards (FMVSS) 220, "School Bus Rollover Protection".

This program is sponsored by the National Highway Traffic Safety Administration (NHTSA), under Contract No.: DTNH22-08-D-00075.

SECTION 2
TEST DATA SUMMARY

Based on the tests performed, the 2008 Girardin G5 School Bus, NHTSA No.: C80902 appears to meet the requirements of FMVSS 220. The ambient temperature during testing was 23° C.

TEST RESULTS

S4.a	The downward vertical movement of any point on the application plate shall not exceed 130 mm.	PASS
S4.b	Each emergency exit shall be capable of:	
	Unlatching per FMVSS 217	PASS
	Opening per FMVSS 217	PASS

Comments: None

SECTION 3
COMPLIANCE TEST DATA

The following data sheets document the results of testing on the 2008 Girardin G5 School Bus, NHTSA No. C80902.

DATA SHEET 1
VEHICLE INFORMATION

Test Vehicle: **2008 GIRARDIN G5 SCHOOL BUS**
Test Lab: **MGA RESEARCH CORPORATION**

NHTSA No.: **C80902**
Test Date: **11/03/10**

Contract No.:	DTNH22-08-D-00075
Laboratory Name:	MGA Research Corporation

INCOMPLETE VEHICLE

Manufacturer:	Ford Motor Company
Model:	G5
VIN:	1FD4E45PX8DB40217
Certification Date:	05/08

COMPLETED VEHICLE (SCHOOL BUS)

Manufacturer:	Girardin Minibus Inc.
Make/Model:	Girardin G5
VIN:	1FD4E45PX8DB40217
NHTSA No.:	C80902
Color:	Yellow
GVWR:	6,373 kg / 14,050 lb
Build Date:	06/08
Certification Date:	05/08

DATES

Vehicle Receipt:	02/19/09
Start of Compliance Test:	11/03/10
Completion of Compliance Test:	11/03/10

Comments: All tests were performed in accordance with the references outlined in: TP-220-02.

DATA SHEET 1 (CONTINUED)

VEHICLE INFORMATION

SCHOOL BUS UNLOADED VEHICLE WEIGHT (UVW)

	Units	As Delivered (UVW) (Axle)		
		Front	Rear	Total
Left	kg	730	1,472	
Right	kg	900	1,440	
Ratio	%	35.9	64.1	
Totals	kg	1,630	2,912	4,542

SCHOOL BUS ROOF AND APPLICATION PLATE DATA

Dimensions	School Bus Roof	Calculated Roof Plate	Actual Roof Plate
Length (mm):	5,232	4,927	4,877
Width (mm):	2,080	914	914

Note: The vehicle was centered laterally and longitudinally under the roof load application plate.

School Bus Has: Rigid Frame; Unibody

Components Removed From Vehicle Before Testing : Front – Center roof air vent

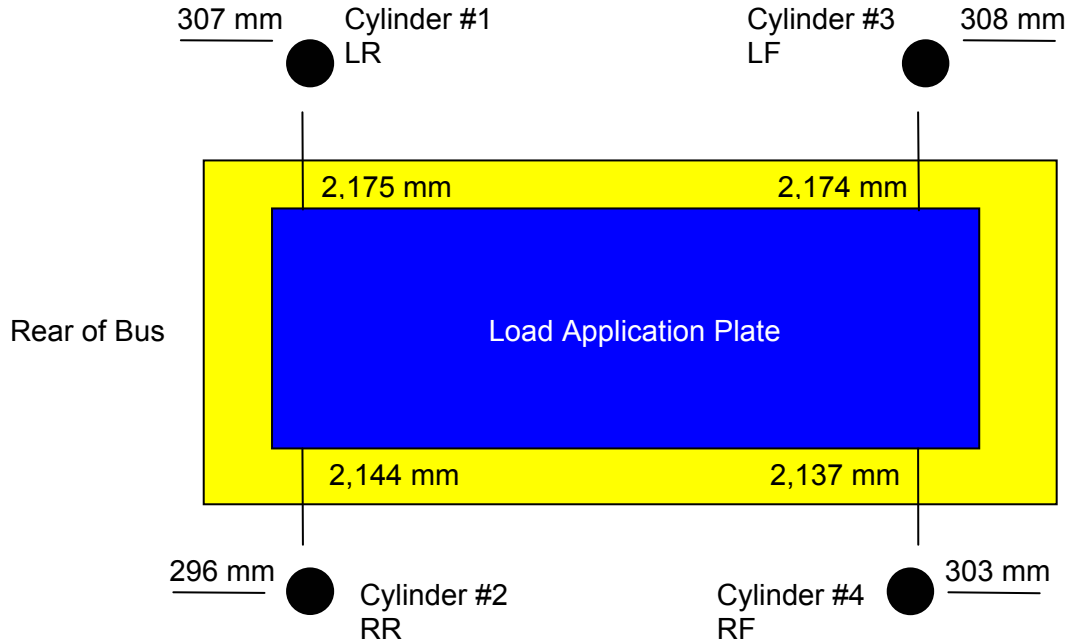
DATA SHEET 1 (CONTINUED)

VEHICLE INFORMATION

LINEAR DISPLACEMENT TRANSDUCER LOCATION

Description	LF	RF	LR	RR
Perpendicular Distance from closest corner of load application plate (mm)	308	303	307	296
From closest outside edge of load application plate (mm)	2,144	2,175	2,137	2,174

Note: LR = Left Rear, RR = Right Rear, LF = Left Front, and RF = Right Front



Comments: Bus body offset from frame 10 mm on rear.

Recorded By: *[Signature]*

Approved By: *Michael Janovic*

Date: 11/03/10

DATA SHEET 2

FORCE APPLICATION AND DEFLECTION INFORMATION

Test Vehicle: **2008 GIRARDIN G5 SCHOOL BUS**
 Test Lab: **MGA RESEARCH CORPORATION**

NHTSA No.: **C80902**
 Test Date: **11/03/10**

FORCE APPLICATION PLATE LOAD CALCULATION

Unloaded Delivered Weight (UDW):	4,542 kg
Calculated Test Load = 1.5 * UDW:	6,813 kg (66,813 N)
Range of Test Load (-1% to -3%):	64,808 N – 66,145 N

FORCE APPLICATION PLATE LOAD

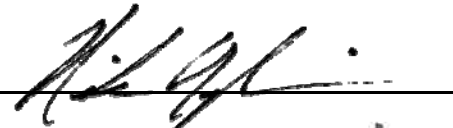
		Pre-load		Maximum Load		Deflection B-A (mm)
		Displacement A (mm)	Load (N)	Displacement B (mm)	Load (N)	
Cylinder	1 (LR)	0	500	141	16,850	141
	2 (RR)	2	304	53	16,632	51
	3 (LF)	0	520	46	16,543	46
	4 (RF)	2	422	80	16,458	78
Total Load			1,746		66,483	


FORCE APPLICATION PLATE DEFLECTION

		Pre-load	Maximum Load	Deflection B-A (mm)	Deflection ≤ 130 mm?	
		Displacement A (mm)	Displacement B (mm)		Yes - Pass	No - Fail
Corner of Force Application Plate*	1 (LR)	0	43	43	PASS	
	2 (RR)	2	55	53	PASS	
	3 (LF)	1	32	31	PASS	
	4 (RF)	1	52	51	PASS	
Average Deflection				45		

Note: LR = Left Rear, RR = Right Rear, LF = Left Front, and RF = Right Front

Comments: Deflection at each corner of the required force application plate area was measured with the use of laser indicators positioned near the four most outboard corners of the vehicle's roof.

Recorded By: 

Approved By: 

Date: 11/03/10

DATA SHEET 3

FORCE AND OPENING AREA TEST OF EMERGENCY EXITS

Test Vehicle: **2008 GIRARDIN G5 SCHOOL BUS**
 Test Lab: **MGA RESEARCH CORPORATION**


NHTSA No.: **C80902**
 Test Date: **11/03/10**

		Yes - Pass	No - Fail
Can all exits be manually released and extended by a single person without tools, remote controls, and without the engine running?		PASS	
Is emergency exit door releasable from inside the school bus?	BEFORE LOAD:	PASS	
	MAXIMUM LOAD:	PASS	
	AFTER LOAD:	PASS	
Is emergency exit door releasable from outside the school bus?	BEFORE LOAD:	PASS	
	MAXIMUM LOAD:	PASS	
	AFTER LOAD:	PASS	

Note: BEFORE, MAXIMUM & AFTER LOAD, refer to the time when the assessment was made relative to load being applied to the school bus roof with the force application plate.

Comments: None

Recorded By: 

Approved By: 

Date: 11/03/10

DATA SHEET 4

FORCE AND OPENING AREA TEST OF EMERGENCY EXITS (INTERIOR)

Test Vehicle: **2008 GIRARDIN G5 SCHOOL BUS**
 Test Lab: **MGA RESEARCH CORPORATION**

NHTSA No.: **C80902**
 Test Date: **11/03/10**

FORCE TO RELEASE (UNLATCH) THE EMERGENCY EXITS

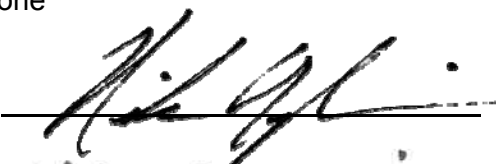
Exit Location	BEFORE LOAD (N)	Force ≤ 178 N?		MAXIMUM LOAD (N)	Force ≤ 178 N?		AFTER LOAD (N)	Force ≤ 178 N?		Type of Motion
		Yes - Pass	No - Fail		Yes - Pass	No - Fail		Yes - Pass	No - Fail	
Rear Emergency Exit Door	39	PASS		41	PASS		52	PASS		Rotary
	40			43			40			
	42			40			44			
	Average: 40			Average: 41			Average: 45			


FORCE TO EXTEND (OPEN) THE EMERGENCY EXITS

Exit Location	BEFORE LOAD (N)	Force ≤ 178 N?		MAXIMUM LOAD (N)	Force ≤ 178 N?		AFTER LOAD (N)	Force ≤ 178 N?		Type of Motion
		Yes - Pass	No - Fail		Yes - Pass	No - Fail		Yes - Pass	No - Fail	
Rear Emergency Exit Door	13	PASS		19	PASS		18	PASS		Push Out
	18			13			18			
	18			12			22			
	Average: 16			Average: 15			Average: 19			

Note: BEFORE, MAXIMUM & AFTER LOAD, refer to the time when the assessment was made relative to load being applied to the school bus roof with the force application plate.

Comments: None

Recorded By: 

Approved By: 

Date: 11/03/10

DATA SHEET 5

FORCE AND OPENING AREA TEST OF EMERGENCY EXITS (EXTERIOR)

Test Vehicle: **2008 GIRARDIN G5 SCHOOL BUS**
 Test Lab: **MGA RESEARCH CORPORATION**

NHTSA No.: **C80902**
 Test Date: **11/03/10**

FORCE TO RELEASE (UNLATCH) THE EMERGENCY EXITS

Exit Location	BEFORE LOAD (N)	Force ≤ 178 N?		MAXIMUM LOAD (N)	Force ≤ 178 N?		AFTER LOAD (N)	Force ≤ 178 N?		Type of Motion
		Yes - Pass	No - Fail		Yes - Pass	No - Fail		Yes - Pass	No - Fail	
Rear Emergency Exit Door	155	PASS		162	PASS		132	PASS		Rotary
	131			144			130			
	118			149			125			
	Average: 135			Average: 152			Average: 129			


FORCE TO EXTEND (OPEN) THE EMERGENCY EXITS

Exit Location	BEFORE LOAD (N)	Force ≤ 178 N?		MAXIMUM LOAD (N)	Force ≤ 178 N?		AFTER LOAD (N)	Force ≤ 178 N?		Type of Motion
		Yes - Pass	No - Fail		Yes - Pass	No - Fail		Yes - Pass	No - Fail	
Rear Emergency Exit Door	17	PASS		18	PASS		26	PASS		Pull
	15			16			19			
	14			15			20			
	Average: 15			Average: 16			Average: 22			

Note: BEFORE, MAXIMUM & AFTER LOAD, refer to the time when the assessment was made relative to load being applied to the school bus roof with the force application plate.

Comments: None

Recorded By: 

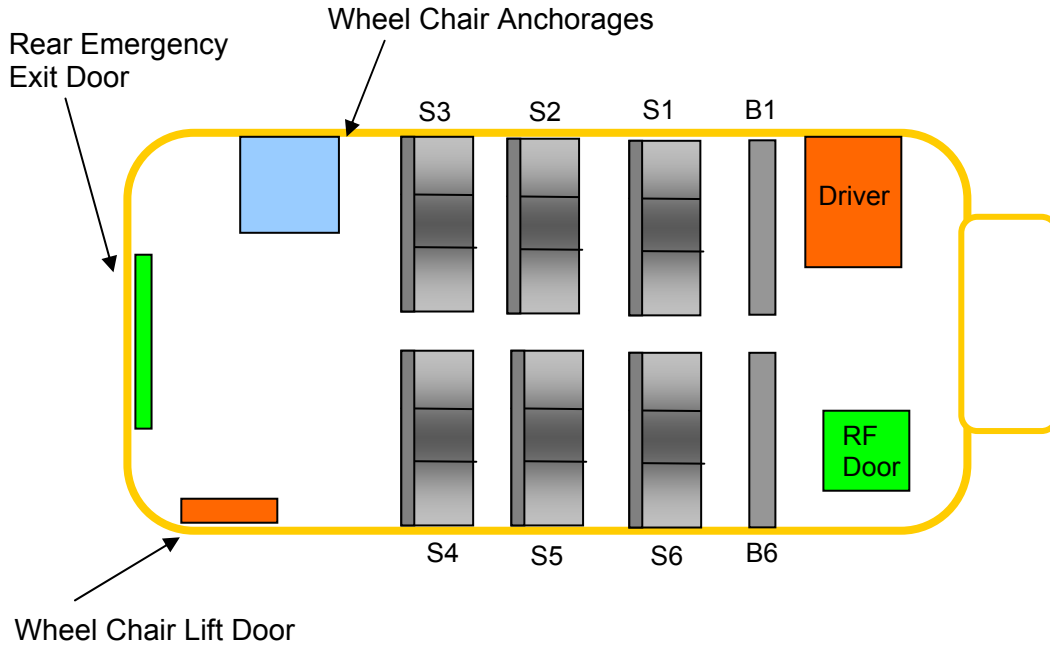
Approved By: 

Date: 11/03/10

DATA SHEET 6
EMERGENCY EXIT MEASUREMENTS

Test Vehicle: **2008 GIRARDIN G5 SCHOOL BUS**
Test Lab: **MGA RESEARCH CORPORATION**

NHTSA No.: **C80902**
Test Date: **11/03/10**



	Height (mm)	Width (mm)	Required Test Form (Ellipsoid or Parallelepiped)	Opening allowed unobstructed passage of the test form?	
				Yes – Pass	No – Fail
1 Rear Emergency Exit Door	1,328	840	Parallelepiped	PASS	

Comments: None

Recorded By: *[Signature]*

Approved By: *[Signature]*

Date: 11/03/10

SECTION 4
INSTRUMENTATION AND EQUIPMENT LIST

Equipment	Manufacturer	Serial No.	Cal. Date	Next Cal. Date
Steel Tape	Stanley	580	04/22/10	10/22/10
Cylinder #1 Load Cell	Interface	315453	09/30/10	03/30/11
Cylinder #1 Displacement Pot.	Ametek	0108-27166	10/05/10	04/05/11
Cylinder #2 Load Cell	Interface	321811	10/04/10	04/04/11
Cylinder #2 Displacement Pot.	Ametek	0304-21633	10/05/10	04/05/11
Cylinder #3 Load Cell	Interface	326710	10/01/10	04/01/11
Cylinder #3 Displacement Pot.	Ametek	0108-27168	10/05/10	04/05/11
Cylinder #4 Load Cell	Interface	321788	09/30/10	03/30/11
Cylinder #4 Displacement Pot.	Ametek	0108-27167	10/05/10	04/05/11
Force Gauge	Quantrol	DMLC1120014	10/15/10	04/15/11
Inclinometer	Pro 360	006	09/24/10	03/24/11

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PHOTOGRAPHS

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Test Vehicle: 2008 GIRARDIN G5 SCHOOL BUS NHTSA No.: C80902
Procedure: FMVSS 220 Test Date: 11/03/10



Frontal View of School Bus Before Testing (as received by MGA)

Test Vehicle: 2008 GIRARDIN G5 SCHOOL BUS NHTSA No.: C80902
Procedure: FMVSS 220 Test Date: 11/03/10



Frontal View of School Bus After Testing

Test Vehicle: 2008 GIRARDIN G5 SCHOOL BUS
Procedure: FMVSS 220

NHTSA No.: C80902
Test Date: 11/03/10



Rear View of School Bus Before Testing (as received by MGA)

Test Vehicle: 2008 GIRARDIN G5 SCHOOL BUS
Procedure: FMVSS 220

NHTSA No.: C80902
Test Date: 11/03/10



Rear View of School Bus After Testing

Test Vehicle: 2008 GIRARDIN G5 SCHOOL BUS NHTSA No.: C80902
Procedure: FMVSS 220 Test Date: 11/03/10



Full View of Left Side of School Bus Before Testing (as received by MGA)

Test Vehicle: 2008 GIRARDIN G5 SCHOOL BUS NHTSA No.: C80902
Procedure: FMVSS 220 Test Date: 11/03/10



Full View of Right Side of School Bus Before Testing (as received by MGA)

Test Vehicle: 2008 GIRARDIN G5 SCHOOL BUS
Procedure: FMVSS 220

NHTSA No.: C80902
Test Date: 11/03/10



Full View of Right Side of School Bus After Testing

Test Vehicle: 2008 GIRARDIN G5 SCHOOL BUS
Procedure: FMVSS 220

NHTSA No.: C80902
Test Date: 11/03/10



Left Front 3/4 View of School Bus Before Testing (as received by MGA)

Test Vehicle: 2008 GIRARDIN G5 SCHOOL BUS
Procedure: FMVSS 220

NHTSA No.: C80902
Test Date: 11/03/10



Left Front 3/4 View of School Bus After Testing Right

Test Vehicle: 2008 GIRARDIN G5 SCHOOL BUS
Procedure: FMVSS 220
NHTSA No.: C80902
Test Date: 11/03/10



Front ¾ View of School Bus Before Testing (as received by MGA)

Test Vehicle: 2008 GIRARDIN G5 SCHOOL BUS
Procedure: FMVSS 220

NHTSA No.: C80902
Test Date: 11/03/10



Right Front ¾ View of School Bus After Testing

Test Vehicle: 2008 GIRARDIN G5 SCHOOL BUS
Procedure: FMVSS 220

NHTSA No.: C80902
Test Date: 11/03/10



Right Rear ¾ View of School Bus Before Testing (as received by MGA)

Test Vehicle: 2008 GIRARDIN G5 SCHOOL BUS
Procedure: FMVSS 220

NHTSA No.: C80902
Test Date: 11/03/10



Right Rear ¾ View of School Bus After Testing

Test Vehicle: 2008 GIRARDIN G5 SCHOOL BUS
Procedure: FMVSS 220

NHTSA No.: C80902
Test Date: 11/03/10



Loading Device Placed Against Bus's Roof at Maximum Load Condition (Front)

Test Vehicle: 2008 GIRARDIN G5 SCHOOL BUS
Procedure: FMVSS 220

NHTSA No.: C80902
Test Date: 11/03/10



Loading Device Placed Against Bus's Roof at Maximum Load Condition (Rear)

Test Vehicle: 2008 GIRARDIN G5 SCHOOL BUS
Procedure: FMVSS 220

NHTSA No.: C80902
Test Date: 11/03/10



Backup Roof Deflection Measuring Device at Maximum Load Condition (Left Front)

Test Vehicle: 2008 GIRARDIN G5 SCHOOL BUS
Procedure: FMVSS 220

NHTSA No.: C80902
Test Date: 11/03/10



Backup Roof Deflection Measuring Device at Maximum Load Condition (Left Rear)

Test Vehicle: 2008 GIRARDIN G5 SCHOOL BUS
Procedure: FMVSS 220

NHTSA No.: C80902
Test Date: 11/03/10



Backup Roof Deflection Measuring Device at Maximum Load Condition (Right Front)

Test Vehicle: 2008 GIRARDIN G5 SCHOOL BUS
Procedure: FMVSS 220

NHTSA No.: C80902
Test Date: 11/03/10



Backup Roof Deflection Measuring Device at Maximum Load Condition (Right Rear)

Test Vehicle: 2008 GIRARDIN G5 SCHOOL BUS NHTSA No.: C80902
Procedure: FMVSS 220 Test Date: 11/03/10



Roof, After Removal of Loading Device, Viewed From the Bus Exterior

Test Vehicle: 2008 GIRARDIN G5 SCHOOL BUS
Procedure: FMVSS 220

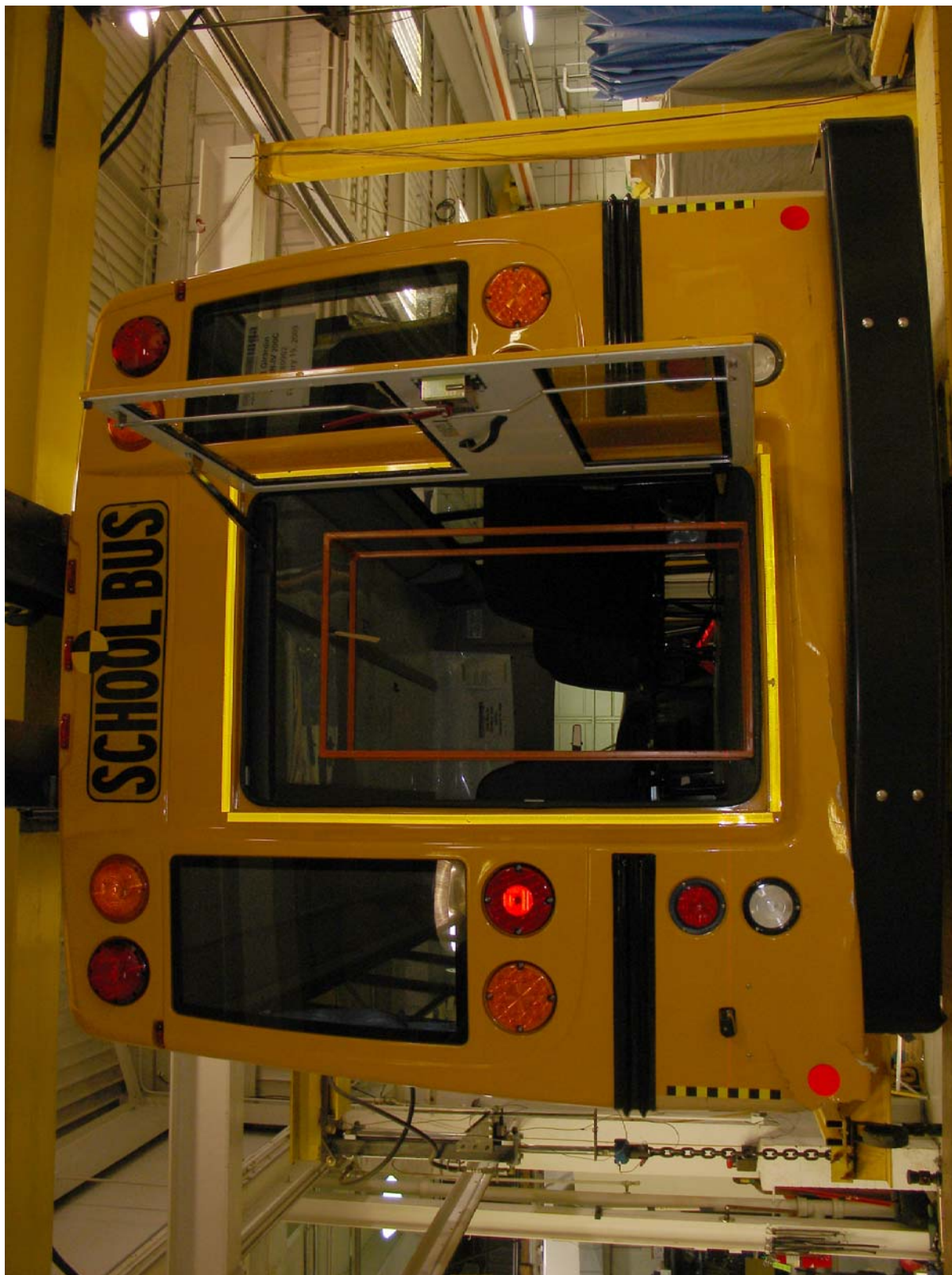
NHTSA No.: C80902
Test Date: 11/03/10



Roof, After Removal of Loading Device, Viewed From the Bus Interior

Test Vehicle: 2008 GIRARDIN G5 SCHOOL BUS
Procedure: FMVSS 220

NHTSA No.: C80902
Test Date: 11/03/10



Rear Exit Door Open With Parallelepiped In Place

Test Vehicle: 2008 GIRARDIN G5 SCHOOL BUS NHTSA No.: C80902
Procedure: FMVSS 220 Test Date: 11/03/10



MFD BY: GIRARDIN MINIBUS INC
DRUMMONDVILLE, QUEBEC, CANADA, J2B 6V4



DATE OF MANUFACTURE: JUNE 2008

BODY NUMBER: 08-24233

INC. VEH. MFD. BY: FORD 05/08

GVWR: 14050 LB / 6373 KG

GAWR-FRONT: 4600 LB / 2087 KG WITH: LT225/75R16E

RIMS: 16 X 6.0K AT 450 KPA / 65 PSI COLD SINGLE

GAWR-REAR: 9500 LBS / 4309 KG WITH: LT225/75R16E

RIMS: 16 X 6.0K AT 550 KPA / 80 PSI COLD DUAL

V.I.N.: 1FD4E45PX8DB40217

CLASSIFICATION: SCHOOL BUS

THIS VEHICLE CONFORMS TO ALL APPLICABLE FEDERAL
MOTOR VEHICLE SAFETY STANDARDS IN EFFECT
ON THE DATE OF MANUFACTURE SHOWN ABOVE.

MAX. PERMITTED SEATED PASSENGERS INCL. DRIVER: 19

MAX. PERMITTED WHEELCHAIR CAPACITY: 1

Test Vehicle: 2008 GIRARDIN G5 SCHOOL BUS NHTSA No.: C80902
 Procedure: FMVSS 220 Test Date: 11/03/10

INCOMPLETE VEHICLE MFD. BY FORD MOTOR COMPANY

DATE: 05/08	4600LB 2087KG	TIRES	14050LB/ 6373KG
FRONT GAWR:		RIMS	GVWR:
WITH LT225/75R16E			REAR GAWR: 9500LB 4309KG
16x6.0K			WITH LT225/75R16E
AT 450 kPa/ 65 PSI COLD			16x6.0K
VIN: 1FD4E45PX8DB40217			AT 550 kPa/ 80 PSI COLD

TIRES
RIMS
DUAL

Equipped with the Ford School Bus Prep Pkg

EXT PNT: BY

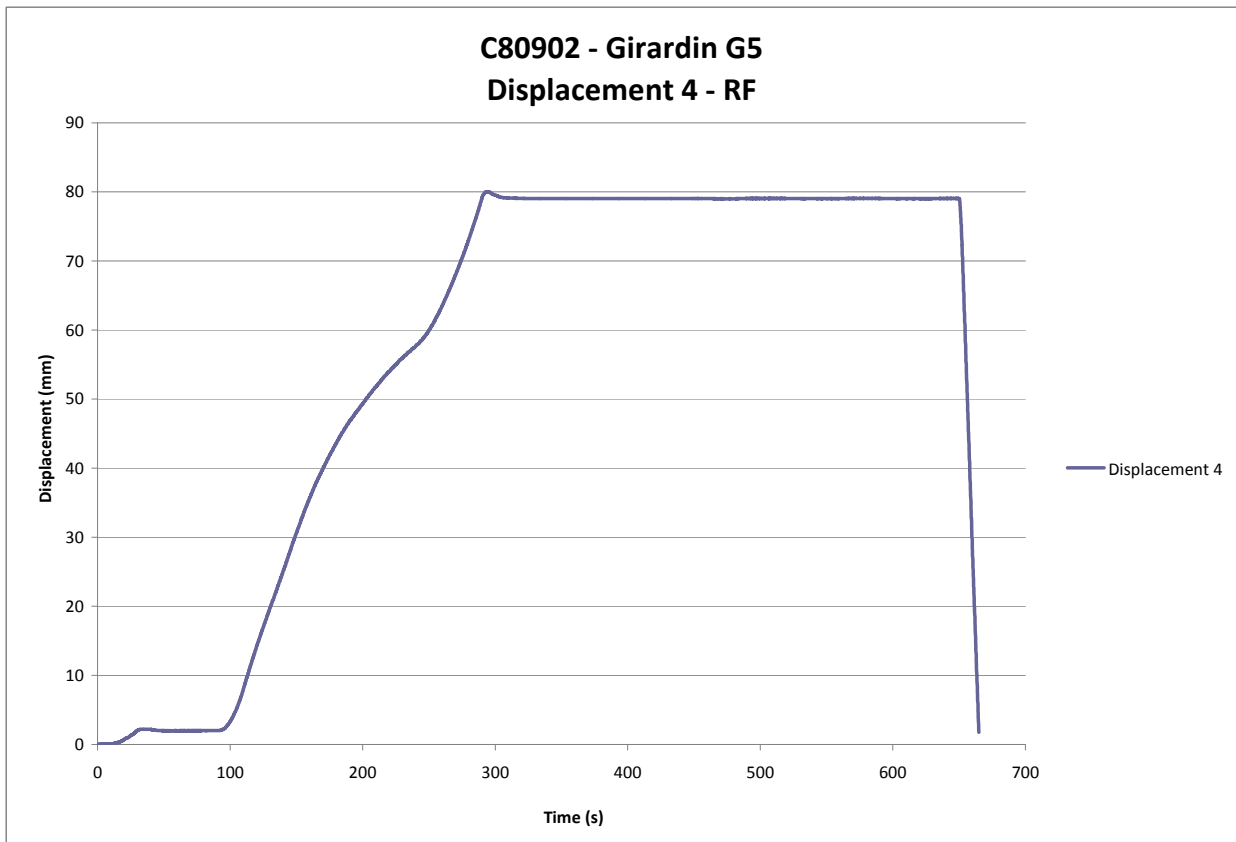
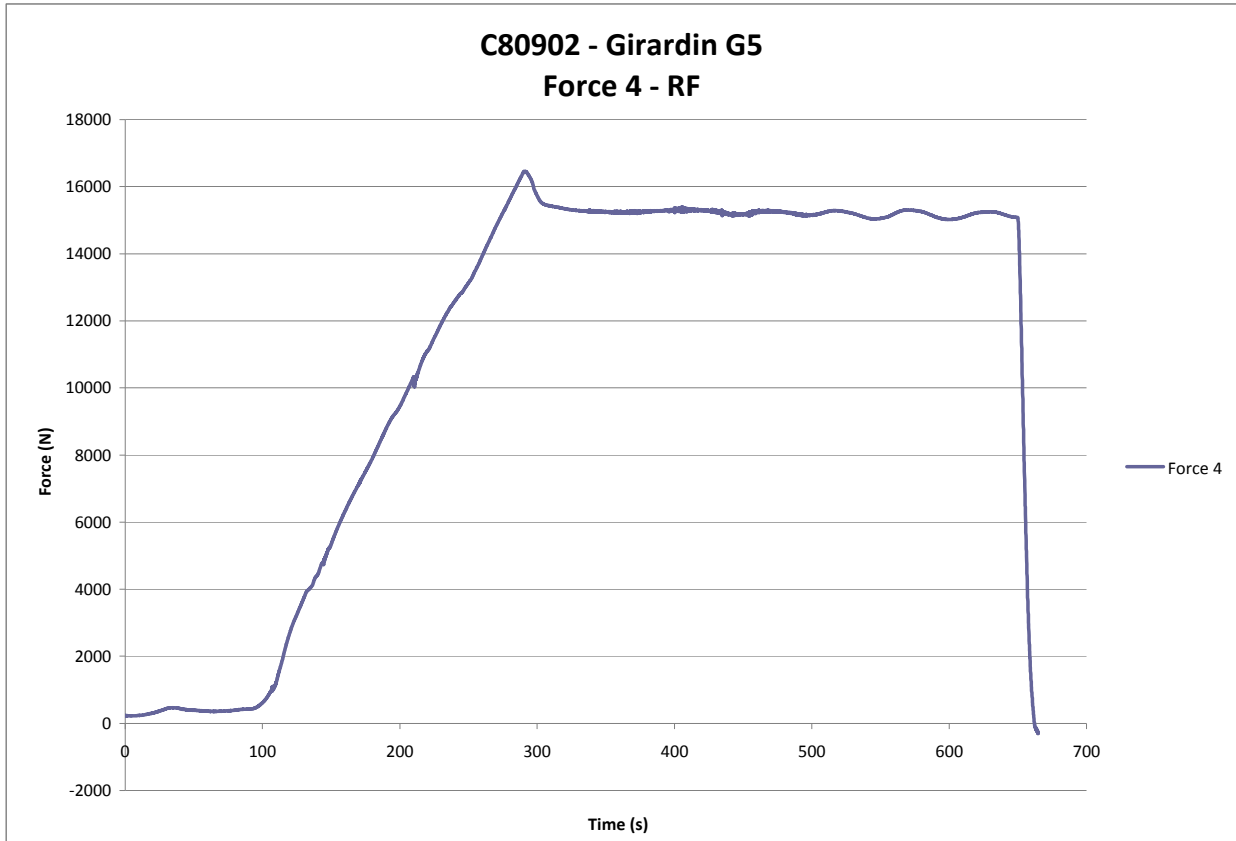
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						ULN	▽ 5U5A-3520472-AA

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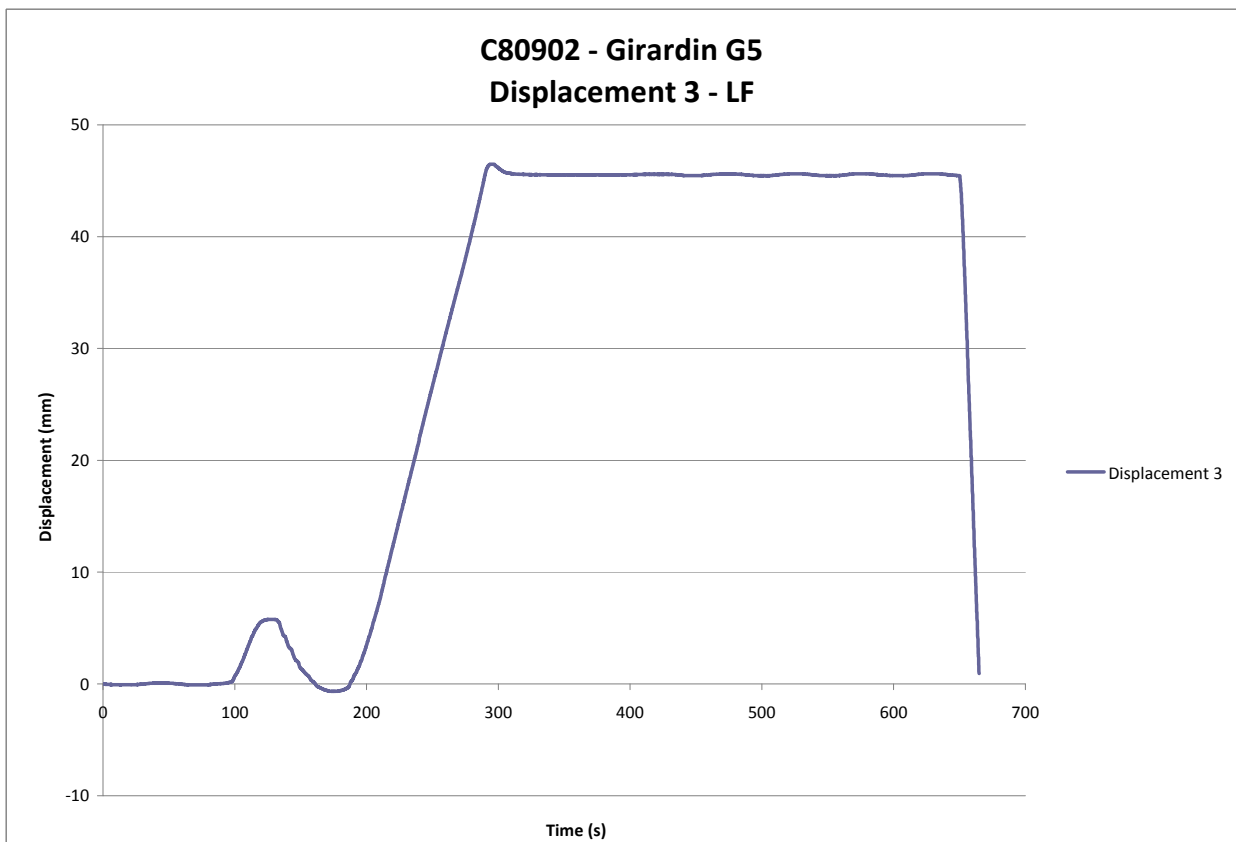
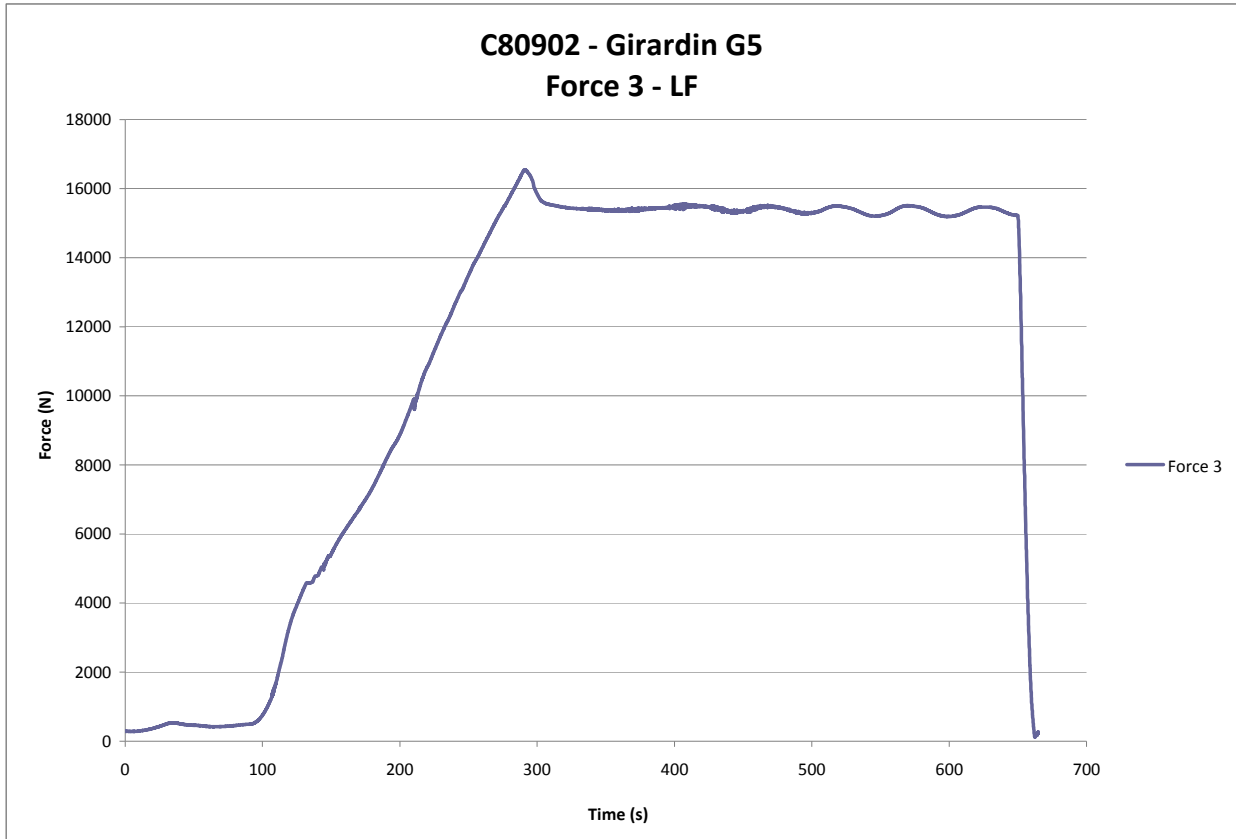
MADE IN U.S.A.

Incomplete Vehicle Label

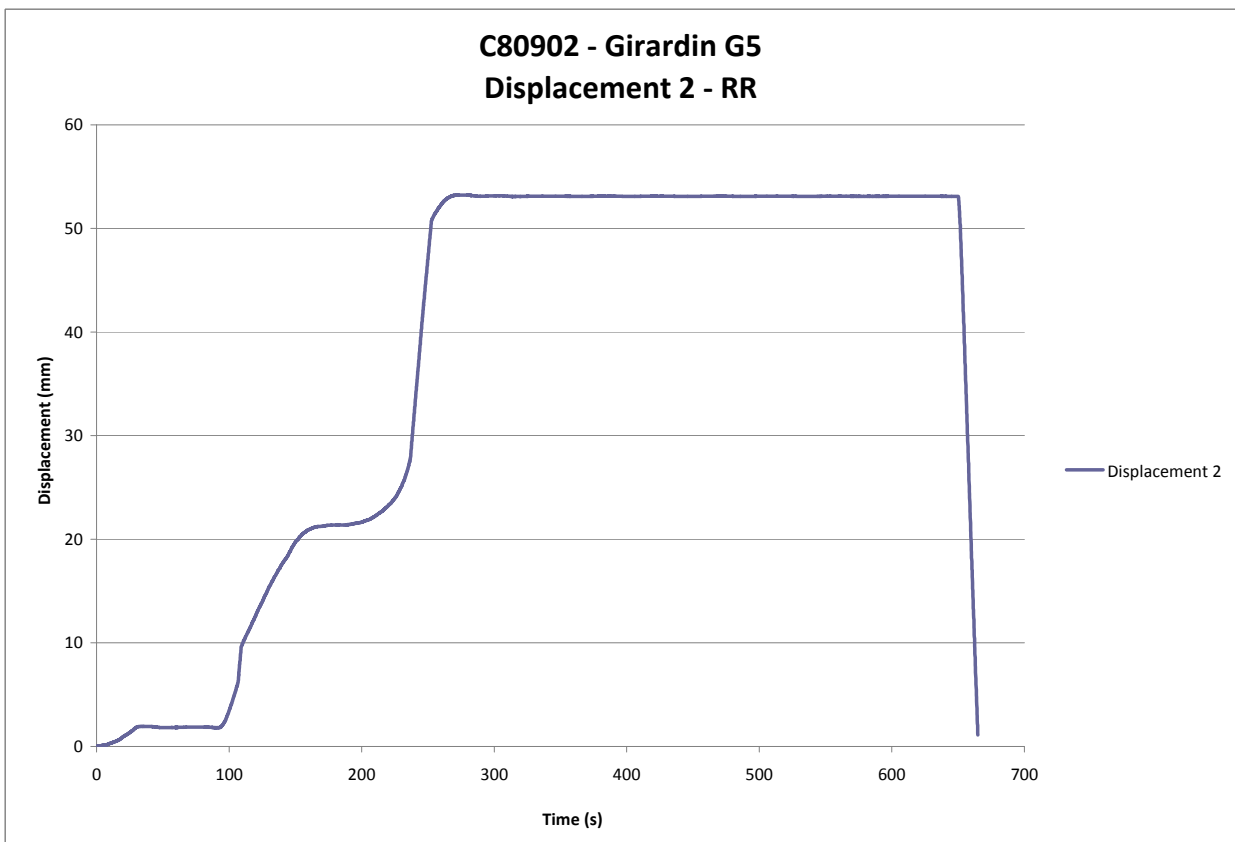
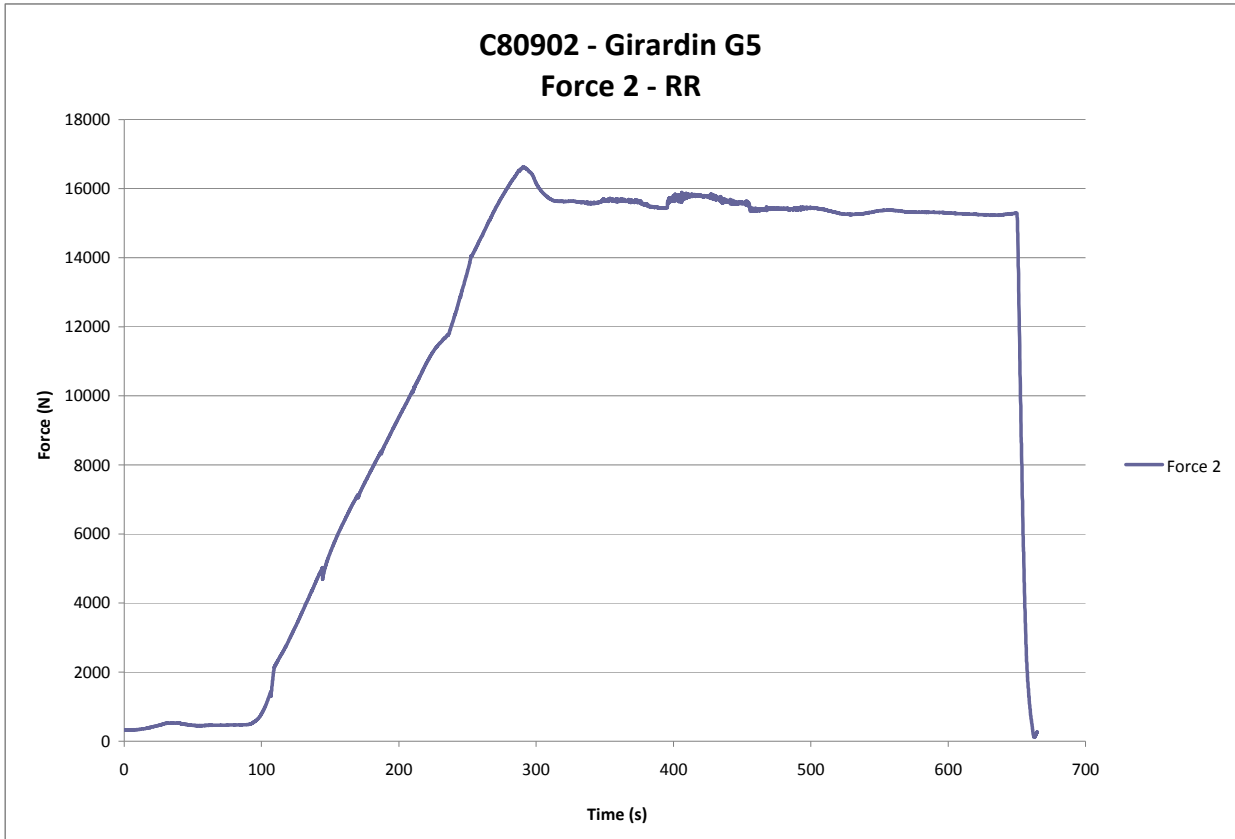
SECTION 6
TEST PLOTS



SECTION 6
TEST PLOTS



SECTION 6
TEST PLOTS



SECTION 6
TEST PLOTS

