

REPORT NUMBER: 120-MGA-2009-003

**SAFETY COMPLIANCE TESTING FOR
FMVSS NO. 120
TIRE SELECTION AND RIMS
FOR MOTOR VEHICLES WITH A GVWR OF MORE THAN 4,536 KG**

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

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





FINAL REPORT DATE: JULY 2, 2009

FINAL REPORT

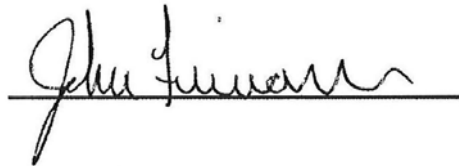
**PREPARED FOR:
U.S. DEPARTMENT OF TRANSPORTATION
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION
ENFORCEMENT
OFFICE OF VEHICLE SAFETY COMPLIANCE
MAIL CODE: NVS-220
1200 NEW JERSEY AVENUE, S.E.
WASHINGTON, D.C. 20590**

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Prepared by:  Date: July 2, 2009
Eric Peschman, Project Engineer

Reviewed by:  Date: July 2, 2009
Michael Janovicz, Program Manager

FINAL REPORT ACCEPTED BY:



July 2, 2009
Date of Acceptance

Technical Report Documentation Page

1. Report No. 120-MGA-2009-003		2. Government Accession No.		3. Recipient's Catalog No.	
4. Title and Subtitle Final Report of FMVSS 120 Compliance Testing of a 2008 Girardin G5 School Bus NHTSA No.: C80902				5. Report Date July 2, 2009	
				6. Performing Organization Code MGA	
7. Author(s) Eric Peschman, Project Engineer Michael Janovicz, Program Manager				8. Performing Organization Report No. 120-MGA-2009-003	
9. Performing Organization Name and Address MGA Research Corporation 5000 Warren Road Burlington, WI 53105				10. Work Unit No.	
				11. Contract or Grant No. DTNH22-08-D-00075	
12. Sponsoring Agency Name and Address U.S. Department of Transportation National Highway Traffic Safety Administration Enforcement Office of Vehicle Safety Compliance Mail Code: NVS-220 1200 New Jersey Avenue, S.E. Washington, D.C. 20590				13. Type of Report and Period Covered Final Report 05/04/09 – 07/02/09	
				14. Sponsoring Agency Code NVS-220	
15. Supplementary Notes					
16. Abstract A compliance test was conducted on the subject 2008 Girardin G5 School Bus, NHTSA No.: C80902, in accordance with FMVSS 120, "Tire selection and rims for motor vehicles with a GVWR of more than 4,536 kilograms," and TP-120-03. The vehicle was weighed in the unloaded and fully loaded conditions and its tires, rims, and related information were checked. Test failures: None					
17. Key Words Compliance Testing Safety Engineering FMVSS 120				18. Distribution Statement Copies of this report are available from: NHTSA Technical Information Services (NPO-411) 1200 New Jersey Ave., S.E. Washington, DC 20590 Email: tis@nhtsa.dot.gov FAX: 202-493-2833	
19. Security Classif. (of this report) Unclassified		20. Security Classif. (of this page) Unclassified		21. No. of Pages 30	22. Price

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SECTION 1
PURPOSE OF COMPLIANCE TEST

The purpose of this test report is to document the results of tests performed on a MY 2008 Girardin G5 School Bus, NHTSA No.: C80902, in accordance with the requirements stated in Federal Motor Vehicle Safety Standard (FMVSS) No. 120, "Tire selection and rims for motor vehicles with a GVWR of more than 4,536 kilograms."

This standard establishes requirements to ensure that applicable vehicles are equipped with tires of adequate size and load rating and rims of appropriate size and type designation.

SECTION 2

TEST PROCEDURE AND DISCUSSION OF RESULTS

Testing of the 2008 Girardin G5 School Bus, NHTSA No.: C80902, was conducted at MGA Research Corporation in accordance with NHTSA TP-120-03, dated April 10, 2000 and MGA-TP-120-03 dated November 20, 2002. The vehicle mounted tires and rims were surveyed to ensure that the rims were suitable for the tires and that the tires inflated to the maximum inflation pressure stated on the tire sidewall were appropriate for the vehicle's certified Gross Axle Weight Ratings (GAWR). The vehicle certification and tire information labeling was surveyed to ensure that the vehicle manufacturer's recommended rims were suitable for the recommended tires, and that the recommended tires inflated to the recommended inflation pressures stated on the labeling were appropriate for the vehicle's certified GAWRs. The vehicle was ballasted and weighed in three different loading conditions to determine if axle or tire overloading could occur. The three loading conditions were:

Condition 1 – Unloaded Vehicle Weight (UVW).

Condition 2 – Vehicle in Condition 1 state plus the addition of ballast to simulate twenty passengers (one adult driver, one wheelchair position and eighteen students).

Condition 3 – Vehicle in Condition 2 state plus the addition of ballast to simulate cargo loading. Target vehicle load is the certified gross vehicle weight rating (GVWR).

The vehicle mounted tires inflated to the inflation pressure labeled on the tire sidewall and the vehicle labeled tires inflated to the recommended cold inflation pressures have load ratings appropriate to carry the maximum loads as required by FMVSS No. 120. The vehicle rims are suitable for the vehicle tires and contain the required markings.

SECTION 2...continued
TEST PROCEDURE AND DISCUSSION OF RESULTS

Model Year/Mfr. /Make/Model:	2008 Girardin G5	
Incomplete Vehicle Make/Model:	Ford	
NHTSA No.:	C80902	
GVWR:	6,373 KG / 14,050 lbs	
Build Date for Bus Chassis:	06/08	
VIN:	1FD4E45PX8DB40217	
Designated Seating Capacity:	(1 Driver, 18 Passengers, 1 Wheelchair)	
Vehicle Type:	School Bus	
Tire Pressure from certification label (at capacity):	Front: 450 KPa	Rear: 550 KPa
Odometer Reading:	2750 Miles	
Dealer Installed Optional Accessories	None Noted	

SUMMARY

Requirements	Pass/Fail
TIRE AND RIM SELECTION (S5.1) Installed tires and rims are suitable for vehicle	Pass
Rim Marking (S5.2) Rims contain all required markings of proper dimensions	Pass
LABEL INFORMATION (S5.3) Vehicle has proper certification/tire information label. Label tires at recommended inflation pressure and rims are suitable for vehicle.	Pass
Weight Distribution (49 CFR 567 Certification) Vehicle loaded with occupants and cargo does not exceed GVWR	Pass
Results: Test data indicates compliance with FMVSS 120	Pass

SECTION 3
COMPLIANCE TEST DATA
DATA SHEET 1
GENERAL TIRE AND RIM DATA

Test Vehicle: **2008 GIRARDIN G5 SCHOOL BUS** NHTSA No.: **C80902**
 Test Lab: **MGA RESEARCH CORPORATION** Test Dates **05/04/09 – 05/08/09**

GENERAL DATA

Tire Type: (Passenger car or other)	Light Truck
Are the tire and rim sizes the same for all axles, including the spare?	Yes – No Spare
Does the tire size fitted to the axles appear on the Certification or Tire label? (If NO, describe)	Yes
Number of axles	2
Dual tires on rear axle(s)	Yes

TIRE DATA FROM SIDEWALL

	Right Front
Manufacturer	Michelin
Brand	LTX M/S
Tire Size	LT225/75R16
Maximum Tire Load Rating (KG)	Single: 1,215 kg Dual: 1,120 kg
De-rated Tire Load Rating (KG)	N/A
Maximum Inflation Pressure (KPa)	550
Tire has DOT symbol (Yes/No)	Yes
DOT serial number	DOT B3JHFBXX0908

MOUNTED TIRE VS. AXLE RATING COMPARISON
 (AT SIDEWALL MAXIMUM INFLATION PRESSURE)

	Front Axle	Rear Axle
A. GAWR (KG) from certification label	2,087	4,309
B. (No. of tires) x (tire load rating (KG) from above table)	2,430	4,480
C. Is "B" equal to or greater than "A"? (Yes/No)	Yes	Yes

DATA SHEET 1...continued
GENERAL TIRE AND RIM DATA

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

NHTSA No.: **C80902**
 Test Dates: **05/04/09 – 05/08/09**

RIM MARKINGS

	Right Front
A. Source of published dimensions (letter designation)	T
B. Rim Size	16 x 6 K
C. Does rim contain DOT symbol? (Yes/No)	Yes
D. Manufacturer's name, symbol or trademark (copy format)	Fumagalli
E. Date of manufacture or symbol	03 24 08
Do items A-C appear on weather side of rim? (Yes/No)	Yes
Letter height (not less than 3mm)	4 mm
Lettering (impressed or embossed)	Impressed
Are all rim markings legible? (Yes/No)	Yes
Do all markings comply with requirements? (Yes/No)	Yes
Rims are suitable for tires on vehicles? (Yes/No)	Yes

RIM MEASUREMENTS

	Right Front
Rim width	152 mm
Rim diameter	406 mm
Rim measurements same as rim markings? (Yes/No)	Yes

Requirements	Pass/Fail
TIRE AND RIM SELECTION (S5.1) Installed tires and rims are suitable for vehicle	Pass
Rim Marking (S5.2) Rims contain all required markings of proper dimensions	Pass

Remarks: None

Tested By: Brian Roach

Approved By: Michael Janusz

Date: May 8, 2009

DATA SHEET 2

CERTIFICATION AND TIRE LABEL INFORMATION

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

NHTSA No.: **C80902**
 Test Dates: **05/04/09 – 05/08/09**

LABEL INFORMATION

Label Design (Combined Certification and Tire Label):	Yes
Label Design (Separate Tire Information Label):	No
Label in English? (Yes/No)	Yes
Block capital letter and numbers are not less than 2.4 mm in height (yes/no):	Yes
Label is permanently affixed; describe method of affixing (rivets, glue, etc.)	Yes/ Glue
Does label text color contrast with background? (yes/no)	Yes
Location of Label(s) on the vehicle:	Above Windshield on the Driver's Side

TIRE AND RIM DATA FROM LABEL (FOR EACH GAWR/GVWR)

GVWR: 6,373 KG	Front Axle	Rear Axle
Tire Size	LT225/75R16E	LT225/75R16E
Rim Size	16 x 6.0 K	16 x 6.0 K
Recommended inflation pressure (KPa)	450	550
Are labeled rims suitable for labeled tires (Yes/No) ¹	Yes	Yes
Referenced load rating at label recommended inflation pressure (KG) ¹	1060	1120

¹ Referenced source for tire/rim match and load rating data: 2009 Tire & Rim Assoc. Year Book

CERTIFICATION/TIRE LABEL MAXIMUM CAPACITY COMPARISON

GVWR: 6,373 KG	Front axle	Rear Axle
A.GAWR (KG) FROM CERTIFICATION LABEL	(C) 2,087	(D) 4,309
B.(No. of tires) x (Tire load rating (KG))	2,120	4,480
Is "B" equal or greater than "A"? (Yes/No)	Yes	Yes
Is (C) plus (D) equal to or greater than GVWR? (Yes/No)	Yes	

Requirements	Pass/Fail
LABEL INFORMATION (S5.3) Vehicle has proper certification/tire information label. Label tires at recommended inflation pressure and rims are suitable for vehicle.	Pass

Tested By: Brian Road
 Date: May 8, 2009

Approved By: Michael Janusz

DATA SHEET 3
WEIGHT DISTRIBUTION

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

NHTSA No.: **C80902**
Test Dates **05/04/09 – 05/08/09**

FLUID LEVELS				
Fuel:		FULL		
Coolant:		FULL		
Other Fluids: <u>Washer fluid, brake fluid, etc.</u>		FULL		
TIRE PRESSURES				
Tire	Left Front	Right Front	Left Rear	Right Rear
Tire Pressure (KPa)	450	450	550	550
OCCUPANT AND CARGO LOADS				
Total Occupant Load (KG): [# of designated seating positions x 68 KG per adult or 54 KG per student]		1,094 (1-driver, 19-students)		
Manufacturer's Rated Cargo Load (KG): [If not stated on vehicle or provided in owner's manual leave blank]				
Certified GVWR - Measured UVW - Total Occupant Load = Rated Cargo Load <u>6,373</u> KG – <u>4,596</u> KG – <u>1,094</u> KG = <u>683</u> KG (must be positive)				
Describe Placement of Cargo:		Behind driver's seat, in center aisle and behind rearmost seats		

WEIGHT DISTRIBUTION

ITEM	Tire or Vehicle Rating* (KG)	CONDITION 1 UVW (KG)		CONDITION 2 Cond. 1 + occupants (KG)		CONDITION 3 Cond. 2 + cargo (KG)	
		Measured	Overload	Measured	Overload	Measured	Overload
Left Front Tire	1,060	738	No	870	No	1,010	No
Right Front Tire	1,060	892	No	996	No	1,057	No
Front Axle	2,087	1,630	No	1,866	No	2,067	No
Left Rear Tire	2,240	1,398	No	1,864	No	2,160	No
Right Rear Tire	2,240	1,568	No	1,960	No	2,146	No
Rear Axle	4,309	2,966	No	3,824	No	4,306	No
Total Vehicle	6,373	4,596	No	5,690	No	6,373	No

* Vehicle and axle weight ratings (GVWR & GAWR) are located on the vehicle certification label plate. Vehicle tire load ratings are based upon the inflation pressure specified on the certification label plate for each respective axle, as determined from the appropriate tire manufacturer's specification table.

DATA SHEET 3...continued

WEIGHT DISTRIBUTION

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

NHTSA No.: **C80902**
Test Dates **05/04/09 – 05/08/09**

Requirements	Pass/Fail
Weight Distribution (49 CFR 567 Certification) Vehicle loaded with occupants and cargo does not exceed GVWR	Pass

Remarks: None

Tested By: Brian Roach

Approved By: Michael Janusz

Date: May 8, 2009

SECTION 4
INSTRUMENTATION AND EQUIPMENT LIST

Test Vehicle: **2008 GIRARDIN G5 SCHOOL BUS** NHTSA No.: **C80902**
 Test Lab: **MGA RESEARCH CORPORATION** Test Dates **05/04/09 – 05/08/09**

	Digital Caliper	Vehicle Scale	Tape Measure
Make	Mitutoyo	GSE	Stanley
Model	CD-6" GS	465	Powerlock
Serial # (s)	0004174	004804	545
Range	0-152 mm	0 to 20,000 lb	0 to 8 m
Accuracy	0.01 mm	0.25% static	1 mm
Cal. Date	01/07/09	09/09/08	11/11/08
Cal. Due Date	07/07/09	09/09/09	05/11/09

SECTION 4...continued
INSTRUMENTATION AND EQUIPMENT LIST

SCALE CALIBRATION SHEET

REPORT OF INSPECTION AND CALIBRATION											
<i>Confidential</i>					<i>Trade Secret</i>						
Operating Under A2LA Accreditation #2006.01; Performed by Certified Scale Inc. N57 W13640 Carmen Avenue, Menomonee Falls, WI 53051. As Directed by MGA Research Corporation											
TYPE <u>DIGITAL FLOOR</u>		CLASS <u>III</u>		MODEL <u>465</u>		CAPACITY <u>20,000</u>					
MANUFACTURER <u>GSE</u>		SERIAL # <u>004804</u>		ID# <u>NONE</u>		MAX. LOAD <u>15,000</u>					
LOCATION <u>BUS AND TRUCK BAY 1</u>		MINIMUM DIVISION <u>5</u>		UNITS <u>Lbs.</u>							
TEST AND UNCERTAINTY PROCEDURE JUSTIFICATION					NIST TRACEABLE TEST STANDARDS USED THIS CALIBRATION						
PLEASE REFER TO TEST JUSTIFICATION AND UNCERTAINTY POLICY MADE PART OF SCALE MAINTENANCE					50# NUMBERS <u>2800</u> THRU <u>2811</u>						
AND CALIBRATION PROCEDURE MANUAL; SERIAL # MGA-704-L1					500# NUMBERS THRU						
<input type="checkbox"/> THERE WAS NO DEVIATION IN PROCEDURE AS WRITTEN					1000# NUMBERS <u>NSI 01</u> THRU <u>NSI 15</u>						
<input checked="" type="checkbox"/> DEVIATION FROM PROCEDURE IS NOTED HEREUPON					SUBSTITUTION LOAD <input type="checkbox"/>						
TEST WEIGHT CERTIFICATION					ESTIMATE OF ENVIRONMENTAL CONDITIONS						
PLEASE REFER TO TEST STANDARD TRACEABILITY DOCUMENTS MADE PART OF SCALE MAINTENANCE					Temperature <u>109°</u> Humidity <u>47%</u> Air Movement <u>Minimal</u>						
AND CALIBRATION PROCEDURE MANUAL; SERIAL # MGA-704-L1					Vibration <u>Minimal</u> Other <u>none</u>						
VISUAL INSPECTION					LOCATION OF TEST/NOTICE OF SUB-CONTRACTOR						
FUNCTIONALITY; as left <input checked="" type="checkbox"/>					<input type="checkbox"/> This test was conducted at Certified Scale Inc. facility, Menomonee Falls, WI						
REPEATABILITY/SENSITIVITY; as left <input checked="" type="checkbox"/>					<input checked="" type="checkbox"/> This test was conducted within the customer facility; located at:						
PHYSICAL CONDITION; as left <input checked="" type="checkbox"/>					5000 Warren Road, Burlington, WI 53105						
SUITABILITY FOR INTENDED USE <input type="checkbox"/>					<input type="checkbox"/> Subcontracted to:						
*** FINAL TEST RESULTS ***											
TEST POINT	As FOUND			A C C E P T	R E J E C T	As LEFT		A C C E P T	R E J E C T	TOLERANCES	
	EXPECTED VALUE	MEASURED VALUE	ERROR			MEASURED VALUE	ERROR			LOW LIMIT	HIGH LIMIT
SCALE #1											
DISTRIBUTION	1000	<u>995</u>	<u><5</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>1000</u>	<u>0</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	995	1005
DISTRIBUTION	2000	<u>1995</u>	<u><5</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>2000</u>	<u>0</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1995	2005
DISTRIBUTION	3000	<u>2995</u>	<u><5</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>3000</u>	<u>0</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2990	3010
DISTRIBUTION	4000	<u>3995</u>	<u><5</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>4000</u>	<u>0</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3990	4010
DISTRIBUTION	5000	<u>4990</u>	<u><10</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>5000</u>	<u>0</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4990	5010
DISTRIBUTION	10,000	<u>9990</u>	<u><10</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>10000</u>	<u>0</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9980	10,020
DISTRIBUTION	15,000	<u>14985</u>	<u><15</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>15000</u>	<u>0</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	14,970	15,030
DISTRIBUTION	17000 18,000	<u>16985</u>	<u><15</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>17000</u>	<u>0</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	17,960	18,040
PAGE (1) OF (2)											
*** FINAL CONCLUSIONS ***											
As FOUND: ACCEPT <input checked="" type="checkbox"/> REJECT <input type="checkbox"/> As LEFT: ACCEPT <input checked="" type="checkbox"/> REJECT <input type="checkbox"/> ACTION PENDING: <input type="checkbox"/>											
*** STATEMENT OF ESTIMATED UNCERTAINTY AND CONFIDENCE ***											
<input type="checkbox"/> ESTIMATED UNCERTAINTY OF THIS CALIBRATION IS _____; BY CSI TYPE EVALUATION DEFAULT; WITH A CONFIDENCE LEVEL OF 99%.											
<input checked="" type="checkbox"/> UNCERTAINTY OF THIS CALIBRATION IS UNKNOWN BY STATISTICAL CALCULATION; ASSUMED EQUAL TO $\pm 50\%$ OF THE MINIMUM VALID DIVISION.											
Technician's Comments/Observations/Opinions: <u>Adjusted Calibration APPROVED</u>											
MGA2 - M4-005											
<small>*** THIS REPORT IS APPLICABLE ONLY TO THE DEVICE IDENTIFIED IN THE LOCATION SPECIFIED AS PART OF THIS REPORT. ***</small>											
The serial number of this report is <u>090907MGA02</u> This report may not be duplicated without written consent of Certified Scale Inc.											
, this report, page <u>(1)</u> of <u>(1)</u> was completed on <u>9/6/2008</u> by <u>B. [Signature]</u>											
Next scheduled Full Calibration is due <u>12/2008</u> Date <u>9-9-2009</u> Next Preventive Maintenance visit is due <u>None</u> Date _____											
Revision - 0 Certified Scale Inc. - Quality Procedure Manual - Controlled Document R-510L1RIC (File #5.10.c)											

The calibration sheet incorrectly shows the next scheduled full calibration due December 2008. The calibration interval for this instrument is 12 months. The next scheduled full calibration is due September 9, 2009.

SECTION 4...continued
INSTRUMENTATION AND EQUIPMENT LIST

SCALE CALIBRATION SHEET

<i>Confidential</i> REPORT OF INSPECTION AND CALIBRATION <i>Trade Secret</i>											
Operating Under A2LA Accreditation #2006.01; Performed by Certified Scale Inc. N57 W13640 Carmen Avenue, Menomonee Falls, WI 53051. As Directed by MGA Research Corporation											
TYPE <u>DIGITAL FLOOR</u>		CLASS <u>III</u>		MODEL <u>465</u>		CAPACITY <u>20,000</u>					
MANUFACTURER <u>GSE</u>		SERIAL # <u>004804</u>		ID# <u>NONE</u>		MAX. LOAD <u>15,000</u>					
LOCATION <u>BUS AND TRUCK BAY 2</u>		MINIMUM DIVISION <u>5</u>		UNITS <u>Lbs.</u>							
TEST AND UNCERTAINTY PROCEDURE JUSTIFICATION					NIST TRACEABLE TEST STANDARDS USED THIS CALIBRATION						
PLEASE REFER TO TEST JUSTIFICATION AND UNCERTAINTY POLICY MADE PART OF SCALE MAINTENANCE AND CALIBRATION PROCEDURE MANUAL; SERIAL # MGA-704-L1					50# NUMBERS <u>0500</u> THRU <u>8219</u>						
<input type="checkbox"/> THERE WAS NO DEVIATION IN PROCEDURE AS WRITTEN					500# NUMBERS <u>NSF 01</u> THRU <u>NSF 15</u>						
<input checked="" type="checkbox"/> DEVIATION FROM PROCEDURE IS NOTED HEREUPON					SUBSTITUTION LOAD <input type="checkbox"/>						
TEST WEIGHT CERTIFICATION					ESTIMATE OF ENVIRONMENTAL CONDITIONS						
PLEASE REFER TO TEST STANDARD TRACEABILITY DOCUMENTS MADE PART OF SCALE MAINTENANCE AND CALIBRATION PROCEDURE MANUAL; SERIAL # MGA-704-L1					Temperature <u>69</u> Humidity <u>47</u> % Air Movement <u>minimal</u>						
Vibration <u>minimal</u> Other <u>none</u>											
VISUAL INSPECTION					LOCATION OF TEST/NOTICE OF SUB-CONTRACTOR						
FUNCTIONALITY; as left <input checked="" type="checkbox"/>					<input type="checkbox"/> This test was conducted at Certified Scale Inc. facility, Menomonee Falls, WI						
REPEATABILITY/SENSITIVITY; as left <input checked="" type="checkbox"/>					<input checked="" type="checkbox"/> This test was conducted within the customer facility; located at:						
PHYSICAL CONDITION; as left <input checked="" type="checkbox"/>					5000 Warren Road, Burlington, WI 53105						
SUITABILITY FOR INTENDED USE <input checked="" type="checkbox"/>					<input type="checkbox"/> Subcontracted to:						
*** FINAL TEST RESULTS ***											
TEST POINT	As Found			A C C E P T	R E J E C T	As Left		A C C E P T	R E J E C T	TOLERANCES	
	EXPECTED VALUE	MEASURED VALUE	ERROR			MEASURED VALUE	ERROR			LOW LIMIT	HIGH LIMIT
SCALE #											
DISTRIBUTION	1000	995	(5)	<input checked="" type="checkbox"/>		1000	0	<input checked="" type="checkbox"/>		995	1005
DISTRIBUTION	2000	1995	(5)	<input checked="" type="checkbox"/>		2000	0	<input checked="" type="checkbox"/>		1995	2005
DISTRIBUTION	3000	2995	(5)	<input checked="" type="checkbox"/>		3000	0	<input checked="" type="checkbox"/>		2990	3010
DISTRIBUTION	4000	3995	(5)	<input checked="" type="checkbox"/>		4000	0	<input checked="" type="checkbox"/>		3990	4010
DISTRIBUTION	5000	4990	(10)	<input checked="" type="checkbox"/>		5000	0	<input checked="" type="checkbox"/>		4990	5010
DISTRIBUTION	10,000	9990	(10)	<input checked="" type="checkbox"/>		10000	0	<input checked="" type="checkbox"/>		9980	10,020
DISTRIBUTION	15,000	14985	(15)	<input checked="" type="checkbox"/>		15000	0	<input checked="" type="checkbox"/>		14,970	15,030
DISTRIBUTION	17000 18,000	16985	(15)	<input checked="" type="checkbox"/>		17000	0	<input checked="" type="checkbox"/>		17,960	18,040
PAGE (1) OF (2)											
*** FINAL CONCLUSIONS ***											
As Found: ACCEPT <input checked="" type="checkbox"/> REJECT <input type="checkbox"/> As Left: ACCEPT <input checked="" type="checkbox"/> REJECT <input type="checkbox"/> ACTION PENDING: <input type="checkbox"/>											
*** STATEMENT OF ESTIMATED UNCERTAINTY AND CONFIDENCE ***											
<input type="checkbox"/> ESTIMATED UNCERTAINTY OF THIS CALIBRATION IS _____; BY CSI TYPE EVALUATION DEFAULT; WITH A CONFIDENCE LEVEL OF 99%.											
<input checked="" type="checkbox"/> UNCERTAINTY OF THIS CALIBRATION IS UNKNOWN BY STATISTICAL CALCULATION; ASSUMED EQUAL TO ±50% OF THE MINIMUM VALID DIVISION.											
Technician's Comments/Observations/Opinions: <u>Adjusted Calibration APPROVED</u>											
MGA2-10c605											
<small>*** THIS REPORT IS APPLICABLE ONLY TO THE DEVICE IDENTIFIED IN THE LOCATION SPECIFIED AS PART OF THIS REPORT. ***</small>											
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.this report, page (1) of (1) was completed on <u>9/6/2008</u> by <u>B. [Signature]</u>											
Next scheduled Full Calibration is due <u>12/2008</u> . Next Preventive Maintenance visit is due <u>None</u>											
Revision - 0 Date <u>9-9-2009</u> Date <u>None</u>											
Certified Scale Inc. - Quality Procedure Manual - Controlled Document R-510L1RIC (File #5.10.c)											

The calibration sheet incorrectly shows the next scheduled full calibration due December 2008. The calibration interval for this instrument is 12 months. The next scheduled full calibration is due September 9, 2009.

**SECTION 5
PHOTOGRAPHS**

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

NHTSA No.: C80902
Test Dates: 05/04/09 – 05/08/09



Three-Quarter Frontal View of Left Side of Vehicle

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

NHTSA No.: C80902
Test Dates: 05/04/09 – 05/08/09



Three-Quarter Rear View of Left Side of Vehicle

Test Vehicle: 2008 GIRARDIN G5 SCHOOL BUS
Test Lab: MGA RESEARCH CORPORATION
NHTSA No.: C80902
Test Dates: 05/04/09 – 05/08/09

 MFD BY GIRARDIN BUSES INC
DRUMMONDVILLE, ONTARIO, CANADA, J2B 6V4



DATE OF MANUFACTURE: JUNE 2008
BODY NUMBER: 08-24233
INC. VEH. MFD. BY: FORD
GWWR: 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
Test Lab: MGA RESEARCH CORPORATION

NHTSA No.: C80902
Test Dates: 05/04/09 – 05/08/09



Tire Manufacturer

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

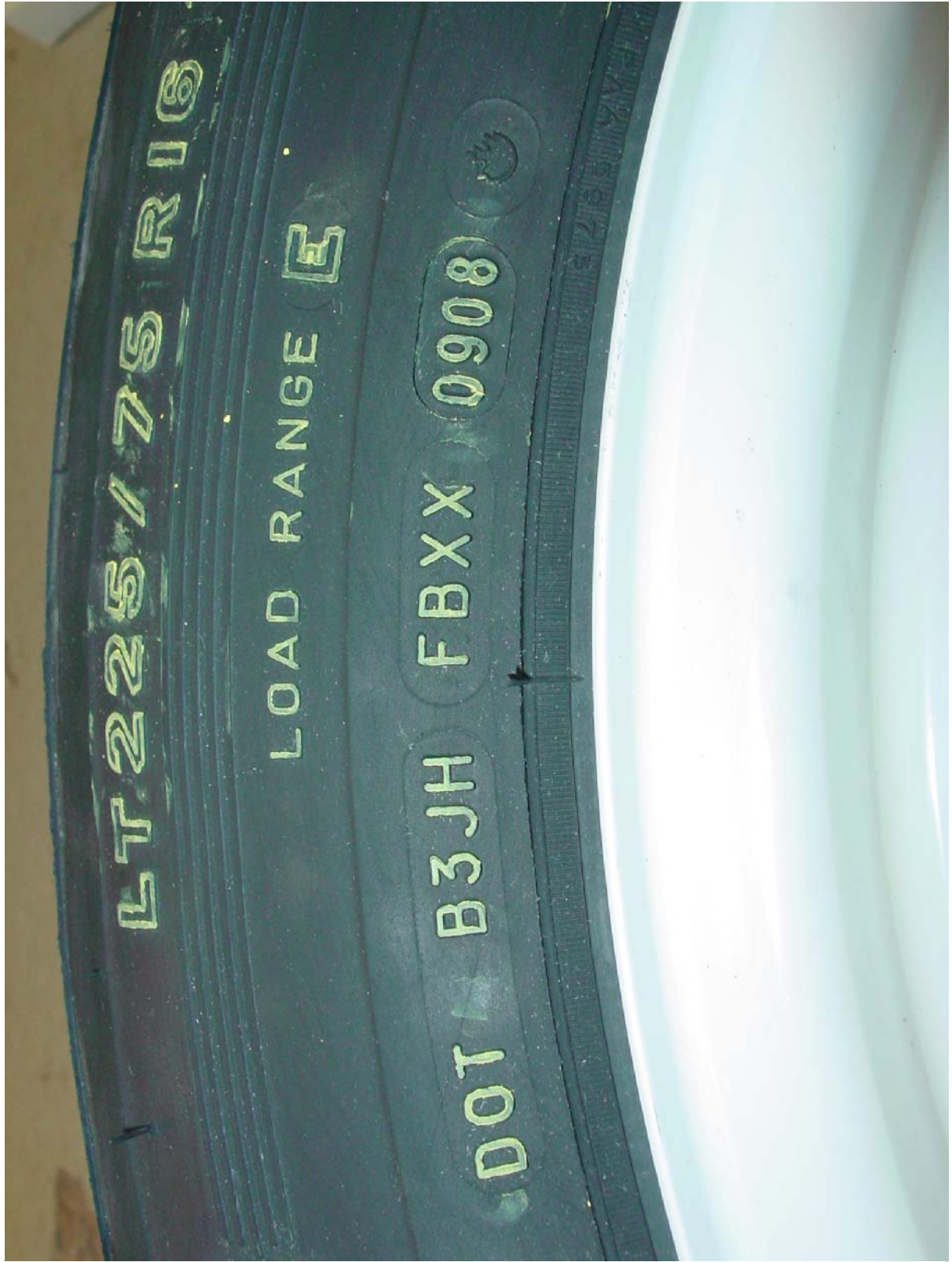
NHTSA No.: C80902
Test Dates: 05/04/09 – 05/08/09



Tire Model Number

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

NHTSA No.: C80902
Test Dates: 05/04/09 – 05/08/09



Tire DOT Serial Number

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

NHTSA No.: C80902
Test Dates: 05/04/09 – 05/08/09



Tire Size Designation

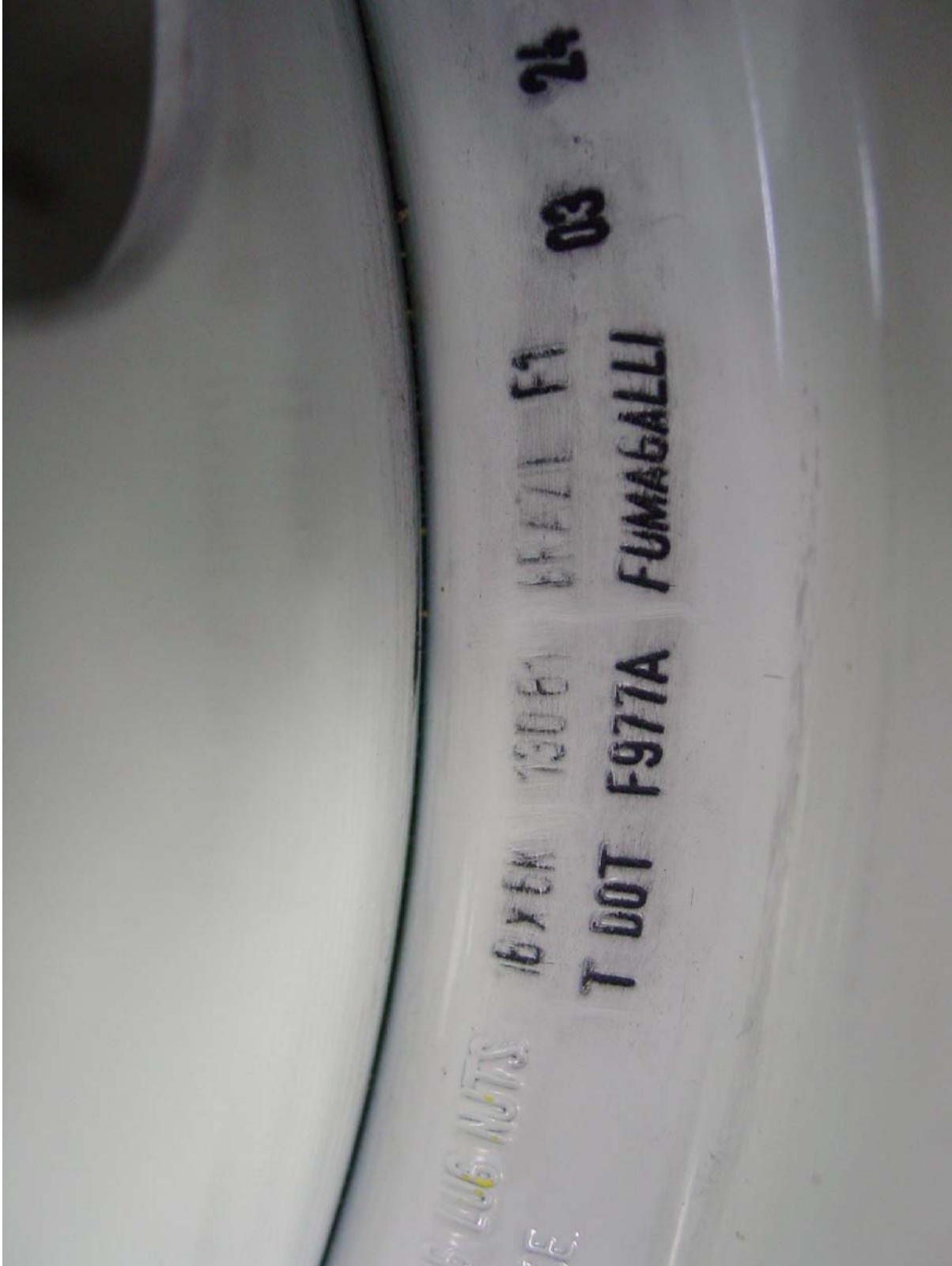
Test Vehicle: 2008 GIRARDIN G5 SCHOOL BUS
Test Lab: MGA RESEARCH CORPORATION
NHTSA No.: C80902
Test Dates: 05/04/09 – 05/08/09



Tire Load Ratings

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

NHTSA No.: C80902
Test Dates: 05/04/09 – 05/08/09



Rim Size, DOT Source of Published Information and Manufacturer

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

NHTSA No.: C80902
Test Dates: 05/04/09 – 05/08/09



Date of Manufacture Markings

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

NHTSA No.: C80902
Test Dates: 05/04/09 – 05/08/09



Vehicle on Scales Doing Measurement of Front Axle Loads

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

NHTSA No.: C80902
Test Dates: 05/04/09 – 05/08/09



Vehicle on Scales Doing Measurement of Rear Axle Loads

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

NHTSA No.: C80902
Test Dates: 05/04/09 – 05/08/09



Simulated Occupant Loading

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

NHTSA No.: C80902
Test Dates: 05/04/09 – 05/08/09



Simulated Cargo Loading