

REPORT NO. 118-KAR-10-001

**SAFETY COMPLIANCE TESTING
FOR FMVSS 118**

**Power-Operated Window, Partition,
And Roof Panel Systems**

**2010 FORD TAURUS
4-DOOR SEDAN**

NHTSA NO. CA0211

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May 26, 2010

Final Report

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16. <i>Abstract</i> Compliance tests were conducted on the subject 2010 Ford Taurus 4-Door Sedan in accordance with the specifications of the Office of Vehicle Safety Compliance Test Procedure No. TP-118-06 for the determination of FMVSS 118 compliance. Test failures identified were as follows: None			
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SECTION 1

PURPOSE OF COMPLIANCE TEST

Tests were conducted on a 2010 Ford Taurus 4-Door Sedan, manufactured by Ford Motor Co. to determine compliance with FMVSS 118 "Power-Operated Window, Partition, and Roof Panel Systems". FMVSS 118 specifies requirements for power operated window, partition and roof panel systems to minimize the likelihood of death or injury from their accidental operation.

All tests were conducted based on the current National Highway Traffic Safety Administration (NHTSA), Office of Vehicle Safety Compliance (OVSC) Laboratory Procedures, TP-118-06, dated April 12, 2006, and corresponding KARCO Engineering test procedure KTP-118, dated March 23, 2009. Detailed procedures for receiving, inspecting, testing and reporting of test results are described in the test procedures and are not repeated in this report.

SECTION 2

TEST PROCEDURE AND DATA SUMMARY

A 2010 Ford Taurus 4-Door Sedan was subjected to FMVSS 118 compliance testing. The tests were conducted at KARCO Engineering in Adelanto, California on May 25th, 2010 through May 26th, 2010. FMVSS 118 Compliance testing was performed in the following sequence:

- Vehicle Receiving Photographs
- Test Vehicle Check-in
- Power Window, Partitions and Roof Panel Identification/Documentation
- Interior, Exterior and Remote Control Switch Identification/Documentation
- Pre-Test Operation of all Power Windows, Partitions and Roof Panels
- Photograph Vehicle Ignition Switch and Master and Individual Power Window, Partition and Roof Panel Switches
- Perform Ignition Switch off Test
- Perform Ignition Key Removed Test
- Perform Exterior Key Locking System Test
- Perform Remote Control System Test
- Perform Reversal System Test
- Perform Sphere Test

DATA SUMMARY

TEST VEHICLE INFORMATION			
YEAR	2010	MAKE	FORD
MODEL	Taurus	BODY STYLE	4-Door Sedan
NHTSA NO.	CA0211	VIN	1FAHP2DW1AG132689
TEST DATE:	05/25/10 - 05/26/10		

SWITCH ACTUATION

WINDOWS, PARTITIONS, ROOF PANEL SWITCHES (WPRP)	INTERIOR KEY LOCKING SYSTEM*			EXTERIOR LOCKING SYSTEM (PASS / FAIL)
	IGNITION KEY OFF (PASS/FAIL)	IGNITION KEY REMOVED (PASS/FAIL)	IGNITION KEY REMOVED DOOR OPENED (PASS/FAIL)	
MASTER SWITCH PANEL				
Left Front (LF)	PASS	PASS	PASS	N/A
Right Front (RF)	PASS	PASS	PASS	N/A
Left Rear (LR)	PASS	PASS	PASS	N/A
Right Rear (RR)	PASS	PASS	PASS	N/A
Tail Gate (TG)	N/A	N/A	N/A	N/A
Partition	N/A	N/A	N/A	N/A
Roof Panel (RP)	N/A	N/A	N/A	N/A
INDIVIDUAL SWITCHES				
Left Front (LF)	PASS	PASS	PASS	N/A
Right Front (RF)	PASS	PASS	PASS	N/A
Left Rear (LR)	PASS	PASS	PASS	N/A
Right Rear (RR)	PASS	PASS	PASS	N/A
Tail Gate (TG)	N/A	N/A	N/A	N/A
Partition (P)	N/A	N/A	N/A	N/A
Roof Panel (RP)	N/A	N/A	N/A	N/A

REMARKS: The master switch control panel is located on the driver's side door panel and includes the individual left front window switch. Vehicle passed as soon as ignition key "off" test was performed.

***PASS =** After ignition key cycled from ON,ACC, or START to OFF position, or removed WPRP does not close, or closes until either front door is opened

DATA SUMMARY...(CONTINUED)

REMOTE ACTUATION DEVICE

VEHICLE ORIENTATION REMOTE ACTUATION DEVICE	NON-LINE OF SIGHT REMOTE (METERS)	LINE OF SIGHT REMOTE (METERS)
FRONT	N/A	N/A
DRIVER SIDE	N/A	N/A
PASSENGER SIDE	N/A	N/A
REAR	N/A	N/A

WPRP OBSTRUCTION FORCE REVERSAL

WINDOW, PARTITION, ROOF PANEL	FORCE TO REVERSE (NEWTONS)	DISTANCE WINDOW, PARTITION, OR ROOF PANEL OPENED ON REVERSAL (mm)
LEFT FRONT (LF)	See Data Sheet 8	See Data Sheet 8
RIGHT FRONT (RF)	N/A	N/A
LEFT REAR (LR)	N/A	N/A
RIGHT REAR (RR)	N/A	N/A
PARTITION (P)	N/A	N/A
ROOF PANEL (RP)	N/A	N/A
TAIL GATE (TG)	N/A	N/A

SPHERE TEST

WINDOW, PARTITION, ROOF PANEL	MASTER SWITCH	INDIVIDUAL SWITCH	PASS / FAIL
LEFT FRONT (LF)	See Data Sheet 9	See Data Sheet 9	PASS
RIGHT FRONT (RF)	See Data Sheet 9	See Data Sheet 9	PASS
LEFT REAR (LR)	See Data Sheet 9	See Data Sheet 9	PASS
RIGHT REAR (RR)	See Data Sheet 9	See Data Sheet 9	PASS
PARTITION (P)	N/A	N/A	N/A
ROOF PANEL (RP)	N/A	N/A	N/A
TAIL GATE (TG)	N/A	N/A	N/A

REMARKS: None.

The subject 2010 Ford Taurus 4-Door Sedan appeared to meet the requirements of FMVSS 118.

**SECTION 3
TEST DATA**

**DATA SHEET NO. 1
VEHICLE IDENTIFICATION**

TEST VEHICLE INFORMATION			
YEAR	2010	MAKE	FORD
MODEL	Taurus	BODY STYLE	4-Door Sedan
NHTSA NO.	CA0211	VIN	1FAHP2DW1AG132689
TEST DATE:	05/25/10 - 05/26/10		

Identify Vehicle equipped WPRP and WPRP controls

	LEFT FRONT	LEFT REAR	RIGHT FRONT	RIGHT REAR	TAIL GATE	PARTITION	ROOF PANEL
Power Windows	X	X	X	X	N/A	N/A	N/A
Interior Switches	X	X	X	X	N/A	N/A	N/A
Master Control Panel	X	X	X	X	N/A	N/A	N/A
Exterior Switches	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Remote Controller	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Auto-Reverse	X	N/A	N/A	N/A	N/A	N/A	N/A

Master Control Panel Location: **Driver Side Door Panel**

Remote Control: **None**

Window Switch Design: **Master Control Switches – Flush Mounted Rocker Switch push down to open, pull up to close.**
Individual Window Switches – Flush Mounted Rocker Switch push down to open, pull up to close.

Exterior Control Switch: **N/A**

Sunroof: **N/A**

REMARKS: Master control panel switch is located in the driver side door panel. Individual switches are located on the door panel for each door. On this vehicle the reversal feature is not required because the windows appear to meet the operational requirements of FMVSS 118 paragraph S.4.

RECORDED BY: **MATTHEW S. HUBBARD**

DATE: **05/25/10 - 05/26/10**

APPROVED BY: **MICHAEL L. DUNLAP**

DATE: **07/06/10**

**DATA SHEET NO. 2
IGNITION KEY OFF TEST**

TEST VEHICLE INFORMATION			
YEAR	2010	MAKE	FORD
MODEL	Taurus	BODY STYLE	4-Door Sedan
NHTSA NO.	CA0211	VIN	1FAHP2DW1AG132689
TEST DATE:	05/25/10 - 05/26/10		

Pre-Test Check: Window, Partition, Roof Panel Systems operate with Ignition Switch in "ON" Position		YES	X	NO	N/A		
Pre-Test Check: Window, Partition, Roof Panel Systems operate with Ignition Switch in "ACCESSORY" Position		YES	X	NO	N/A		
WINDOW SWITCHES	DOORS CLOSED		LEFT DOOR OPEN		RIGHT DOOR OPEN		PASS/FAIL
	INOP.	OPER.	INOP.	OPER.	INOP.	OPER.	
MASTER							
Left Front (LF)	N/A	X	X	N/A	X	N/A	PASS
Right Front (RF)	N/A	X	X	N/A	X	N/A	PASS
Left Rear (LR)	N/A	X	X	N/A	X	N/A	PASS
Right Rear (RR)	N/A	X	X	N/A	X	N/A	PASS
Tail Gate (TG)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Partition (P)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roof Panel (RP)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
INDIVIDUAL							
Left Front (LF)	N/A	X	X	N/A	X	N/A	PASS
Right Front (RF)	N/A	X	X	N/A	X	N/A	PASS
Left Rear (LR)	N/A	X	X	N/A	X	N/A	PASS
Right Rear (RR)	N/A	X	X	N/A	X	N/A	PASS
Tail Gate (TG)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Partition (P)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roof Panel (RP)	N/A	N/A	N/A	N/A	N/A	N/A	N/A

REMARKS: The master left front switch is the same as the individual left front switch. Test was performed with key in the "Lock" position. For the pre-test check in the "Accessory" position the key was moved from the "Lock" position to the "Accessory" position without cycling through the "On" position or starting the engine. Vehicle passed as soon as ignition "off" test was performed.

RECORDED BY: **MATTHEW S. HUBBARD** DATE: **05/25/10 - 05/26/10**
 APPROVED BY: **MICHAEL L. DUNLAP** DATE: **07/06/10**

**DATA SHEET NO. 3
IGNITION KEY REMOVED TEST**

TEST VEHICLE INFORMATION			
YEAR	2010	MAKE	FORD
MODEL	Taurus	BODY STYLE	4-Door Sedan
NHTSA NO.	CA0211	VIN	1FAHP2DW1AG132689
TEST DATE:	05/25/10 - 05/26/10		

WINDOW SWITCHES	DOORS CLOSED		LEFT DOOR OPEN		RIGHT DOOR OPEN		PASS/ FAIL
	INOP.	OPER.	INOP.	OPER.	INOP.	OPER.	
MASTER							
Left Front (LF)	N/A	X	X	N/A	X	N/A	PASS
Right Front (RF)	N/A	X	X	N/A	X	N/A	PASS
Left Rear (LR)	N/A	X	X	N/A	X	N/A	PASS
Right Rear (RR)	N/A	X	X	N/A	X	N/A	PASS
Tail Gate (TG)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Partition (P)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roof Panel (RP)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
INDIVIDUAL							
Left Front (LF)	N/A	X	X	N/A	X	N/A	PASS
Right Front (RF)	N/A	X	X	N/A	X	N/A	PASS
Left Rear (LR)	N/A	X	X	N/A	X	N/A	PASS
Right Rear (RR)	N/A	X	X	N/A	X	N/A	PASS
Tail Gate (TG)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Partition (P)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roof Panel (RP)	N/A	N/A	N/A	N/A	N/A	N/A	N/A

REMARKS: The master left front switch is the same as the individual left front switch. Vehicle passed as soon as ignition key "off" test was performed.

RECORDED BY: **MATTHEW S. HUBBARD**

DATE: **05/25/10 - 05/26/10**

APPROVED BY: **MICHAEL L. DUNLAP**

DATE: **07/06/10**

**DATA SHEET NO. 4
EXTERIOR KEY LOCKING SYSTEM**

TEST VEHICLE INFORMATION			
YEAR	2010	MAKE	FORD
MODEL	Taurus	BODY STYLE	4-Door Sedan
NHTSA NO.	CA0211	VIN	1FAHP2DW1AG132689
TEST DATE:	05/25/10 - 05/26/10		

EXTERIOR LOCKING CONTROL SWITCH TEST				
Can Any WPRP Be Operated by Directly Using A Key in an Exterior Locking Control Switch?	Yes	N/A	No	X
If Yes: Is Continuous Activation of the Switch Required	Yes	N/A	No	X

IDENTIFY WINDOW, PARTITION AND ROOF PANEL POSITIONS WHICH ARE OPERABLE WITH EXTERIOR KEY.

LOCATION	OPERABLE W/KEY		CONTINUOUS ACTION		PASS / FAIL
	YES	NO	YES	NO	
LEFT FRONT (LF)	N/A	X	N/A	N/A	N/A
RIGHT FRONT (RF)	N/A	X	N/A	N/A	N/A
LEFT REAR (LR)	N/A	X	N/A	N/A	N/A
RIGHT REAR (RR)	N/A	X	N/A	N/A	N/A
PARTITION (P)	N/A	N/A	N/A	N/A	N/A
ROOF PANEL (RP)	N/A	N/A	N/A	N/A	N/A
TAIL GATE (TG)	N/A	N/A	N/A	N/A	N/A

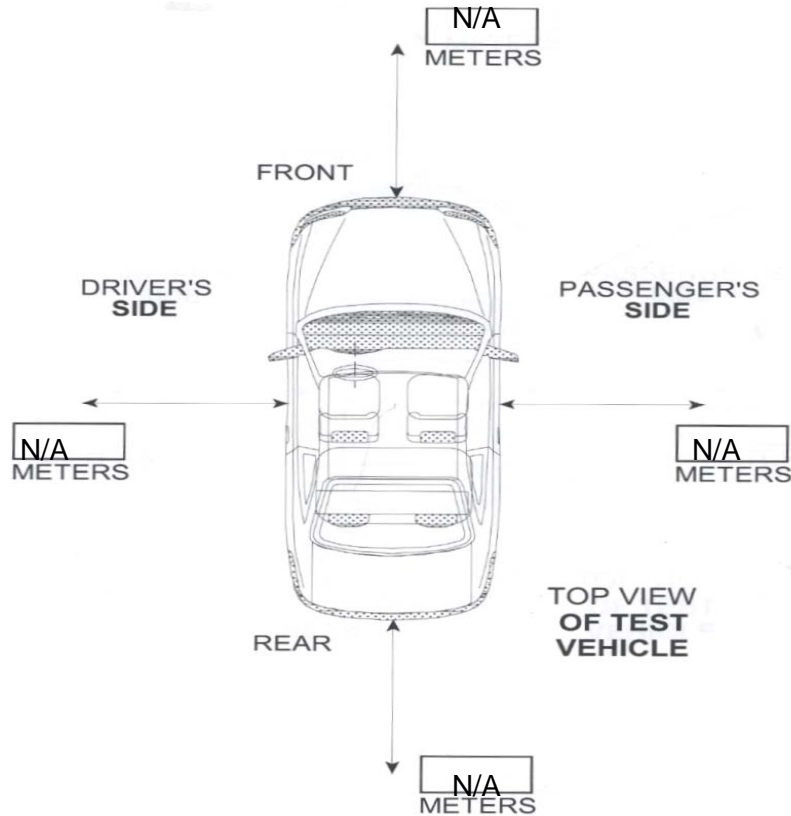
REMARKS:

RECORDED BY: MATTHEW S. HUBBARD DATE: 05/25/10 - 05/26/10
 APPROVED BY: MICHAEL L. DUNLAP DATE: 07/06/10

**DATA SHEET NO. 5
MAXIMUM OPERATING RANGE FOR LINE-OF-SIGHT REMOTE**

TEST VEHICLE INFORMATION			
YEAR	2010	MAKE	FORD
MODEL	Taurus	BODY STYLE	4-Door Sedan
NHTSA NO.	CA0211	VIN	1FAHP2DW1AG132689
TEST DATE:	05/25/10 - 05/26/10		

If range of operation exceeds 11 meters in any of the below measured directions, the window, partition, and roof panel must meet the reversing requirements of FMVSS 118. Continuous activation of remote device is required to close windows, partition and roof panel YES () NO (X).



REMARKS: The vehicle is not equipped with a remote actuation device that allows the windows to be opened.

RECORDED BY: **MATTHEW S. HUBBARD**

DATE: **05/25/10 - 05/26/10**

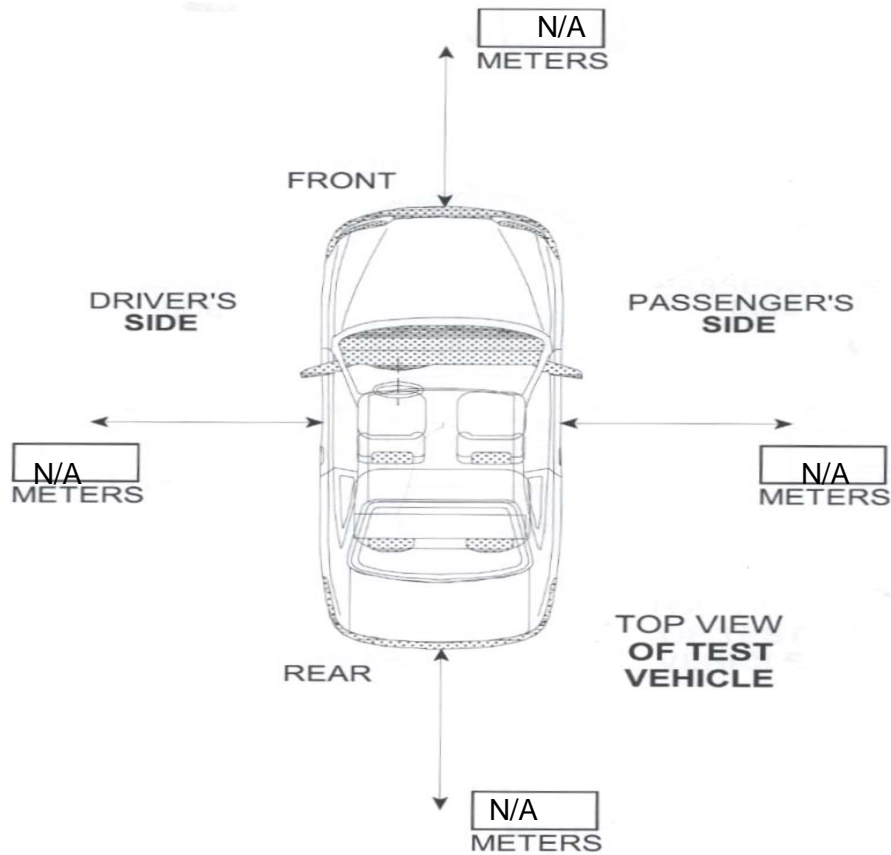
APPROVED BY: **MICHAEL L. DUNLAP**

DATE: **07/06/10**

**DATA SHEET NO. 6
MAXIMUM OPERATING RANGE FOR NON-LINE-OF-SIGHT REMOTE**

TEST VEHICLE INFORMATION			
YEAR	2010	MAKE	FORD
MODEL	Taurus	BODY STYLE	4-Door Sedan
NHTSA NO.	CA0211	VIN	1FAHP2DW1AG132689
TEST DATE:	05/25/10 - 05/26/10		

If range of operation exceeds 6 meters in any of the below measured directions, the window, partition, and roof panel must meet the reversing requirements of FMVSS 118. Continuous activation of remote device is required to close windows, partition and roof panel YES () NO (X).



REMARKS: The vehicle is not equipped with a remote actuation device that allows the windows to be opened.

RECORDED BY: **MATTHEW S. HUBBARD**

DATE: **05/25/10 - 05/26/10**

APPROVED BY: **MICHAEL L. DUNLAP**

DATE: **07/06/10**

**DATA SHEET NO. 7
AUTO REVERSAL**

TEST VEHICLE INFORMATION			
YEAR	2010	MAKE	FORD
MODEL	Taurus	BODY STYLE	4-Door Sedan
NHTSA NO.	CA0211	VIN	1FAHP2DW1AG132689
TEST DATE:	05/25/10 - 05/26/10		

IDENTIFY WINDOW, PARTITION AND ROOF PANEL POSITIONS WHICH ARE EQUIPPED WITH AUTO REVERSAL.

Is vehicle equipped with Auto Reversal	YES	X	NO	N/A
--	-----	----------	----	-----

SWITCHES EQUIPPED WITH AUTO REVERSAL	MASTER	INDIVIDUAL
LEFT FRONT (LF)	X	X
RIGHT FRONT (RF)	N/A	N/A
LEFT REAR (LR)	N/A	N/A
RIGHT REAR (RR)	N/A	N/A
PARTITION (P)	N/A	N/A
ROOF PANEL (RP)	N/A	N/A
TAIL GATE (TG)	N/A	N/A

REMARKS: The master switch is the same as the individual switch for the left front window. The vehicle passed as soon as ignition key "off" was performed. The left front window is equipped with one touch auto express feature. The reversal feature is not required because the window appears to meet the operational requirements of FMVSS 118 paragraph S.4.

RECORDED BY: **MATTHEW S. HUBBARD** DATE: **05/25/10 - 05/26/10**
 APPROVED BY: **MICHAEL L. DUNLAP** DATE: **07/06/10**

**DATA SHEET NO. 8
AUTO REVERSAL**

TEST VEHICLE INFORMATION			
YEAR	2010	MAKE	FORD
MODEL	Taurus	BODY STYLE	4-Door Sedan
NHTSA NO.	CA0211	VIN	1FAHP2DW1AG132689
TEST DATE:	05/25/10 - 05/26/10		

Distance window is open from top seam to start position.

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WPRP OBSTRUCTION FORCE REVERSAL

LEADING EDGE LEFT FRONT WINDOW	FORCE TO REVERSE (NEWTONS)	DISTANCE WINDOW, PARTITION, OR ROOF PANEL OPENED ON REVERSAL (mm)
5mm semi rigid rod	44.7	222.2
25mm semi rigid rod	91.0	201.0
50mm semi rigid rod	72.1	168.8
100mm semi rigid rod	91.3	139.2
200mm semi rigid rod	90.9	39.2

Distance window is open from top seam to start position.

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WPRP OBSTRUCTION FORCE REVERSAL

REAR EDGE LEFT FRONT WINDOW	FORCE TO REVERSE (NEWTONS)	DISTANCE WINDOW, PARTITION, OR ROOF PANEL OPENED ON REVERSAL (mm)
5mm semi rigid rod	39.2	226.6
25mm semi rigid rod	81.2	201.0
50mm semi rigid rod	69.1	178.1
100mm semi rigid rod	93.4	150.5
200mm semi rigid rod	101.9	43.1

REMARKS: The master switch is the same as the individual switch for the left front window. The vehicle passed as soon as ignition key "off" was performed. The reversal feature is not required because the window appears to meet the operational requirements of FMVSS 118 paragraph S.4.

RECORDED BY: **MATTHEW S. HUBBARD**

DATE: **05/25/10 - 05/26/10**

APPROVED BY: **MICHAEL L. DUNLAP**

DATE: **07/06/10**

**DATA SHEET NO. 9
SPHERE TEST**

TEST VEHICLE INFORMATION			
YEAR	2010	MAKE	FORD
MODEL	Taurus	BODY STYLE	4-Door Sedan
NHTSA NO.	CA0211	VIN	1FAHP2DW1AG132689
TEST DATE:	05/25/10 - 05/26/10		

SPHERE TEST CONDUCTED ON MASTER SWITCH CONTROL PANEL

WINDOW	FORCE APPLIED TO ACTIVATE SWITCH (NEWTONS)	SWITCH ACTIVATED (YES / NO)	PASS / FAIL
LEFT FRONT (LF)	146.0	NO	PASS
RIGHT FRONT (RF)	167.9	NO	PASS
LEFT REAR (LR)	166.4	NO	PASS
RIGHT REAR (RR)	140.5	NO	PASS
PARTITION (P)	N/A	N/A	N/A
ROOF PANEL (RP)	N/A	N/A	N/A
TAIL GATE (TG)	N/A	N/A	N/A

SPHERE TEST CONDUCTED ON INDIVIDUAL SWITCH

WINDOW	FORCE APPLIED TO ACTIVATE SWITCH (NEWTONS)	SWITCH ACTIVATED (YES / NO)	PASS / FAIL
LEFT FRONT (LF)	146.0	NO	PASS
RIGHT FRONT (RF)	159.8	NO	PASS
LEFT REAR (LR)	158.4	NO	PASS
RIGHT REAR (RR)	146.1	NO	PASS
PARTITION (P)	N/A	N/A	N/A
ROOF PANEL (RP)	N/A	N/A	N/A
TAIL GATE (TG)	N/A	N/A	N/A

REMARKS: The master switch is the same as the individual switch for the left front window.

RECORDED BY: **MATTHEW S. HUBBARD**

DATE: **05/25/10 - 05/26/10**

APPROVED BY: **MICHAEL L. DUNLAP**

DATE: **07/06/10**

SECTION 4
PHOTOGRAPHS

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Figure 1: Frontal ¾ View From Right Side of Vehicle

2010 Ford Taurus
NHTSA NO. CA0211
FMVSS NO. 118



2010 Ford Taurus
NHTSA NO. CA0211
FMVSS NO. 118

Figure 2: Rear ¾ View From Left Side of Vehicle

MFD. BY FORD MOTOR CO.

DATE: 12/09
 FRONT GAWR: 1279KG/2820LB
 GVWR: 2386KG/5260LB
 REAR GAWR: 1143KG/2520LB

THIS VEHICLE CONFORMS TO ALL APPLICABLE FEDERAL MOTOR
 VEHICLE SAFETY, BUMPER, AND THEFT PREVENTION STANDARDS
 IN EFFECT ON THE DATE OF MANUFACTURE SHOWN ABOVE

VIN: 1FAHP2DW1AG132689 TYPE: Passenger Car
 MAXIMUM LOAD = OCCUPANTS + LUGGAGE = 430KG/ 950LB
 OCCUPANTS = 5 TOTAL; 2 FRONT, 3 REAR

TIRE (FR): P235/60R17 RIMS (FR): 17x7.5J
 (RR): P235/60R17 (RR): 17x7.5J
 PRESSURE (FR): 260 kPa/ 38 PSI COLD (RR): 260 kPa/ 38 PSI COLD



1FAHP2DW1AG132689

TRAILER TOWING - SEE OWNER GUIDE

EXT PNT: WS	INT TR	TP/PS	R	AXLE	TR	SPR	DSO:	F0126
	75	2	1A	J	EECC	TOA		R0126
		1200912072980			CMC	▽5U5A-5420472-AA		

2010 Ford Taurus
 NHTSA NO. CA0211
 FMVSS NO. 118

Figure 3: Vehicle Certification Label

TIRE AND LOADING INFORMATION

SEATING CAPACITY TOTAL : 5 FRONT: 2 REAR: 3

The combined weight of occupants : 430 kg or 950 lbs. and cargo should never exceed :

1FAHP2DW1AG132689

TIRE	SIZE	COLD TIRE PRESSURE
FRONT	P235/60R17	260 KPA, 38 PSI
REAR	P235/60R17	260 KPA, 38 PSI
SPARE	T155/70D17	415 KPA, 60 PSI

SEE OWNERS MANUAL FOR ADDITIONAL INFORMATION

5U5A-1532-AA (TLU)

Figure 4: Tire Information Placard

2010 Ford Taurus
 NHTSA NO. CA0211
 FMVSS NO. 118



FMVSS 118
2010 FORD TAURUS
CA0211
TEST DATE 05/25/10 – 05/26/10
VEHICLE IGNITION SWITCH

2010 Ford Taurus
NHTSA NO. CA0211
FMVSS NO. 118

Figure 5: Ignition Switch



Figure 6: Left Front Master Power Window Switch

2010 Ford Taurus
NHTSA NO. CA0211
FMVSS NO. 118



Figure 7: Right Front Power Window Switch

2010 Ford Taurus
NHTSA NO. CA0211
FMVSS NO. 118



Figure 8: Left Rear Power Window Switch

2010 Ford Taurus
NHTSA NO. CA0211
FMVSS NO. 118



Figure 9: Right Rear Power Window Switch

2010 Ford Taurus
NHTSA NO. CA0211
FMVSS NO. 118



Figure 10: Exterior Locking System (Driver Door)

2010 Ford Taurus
NHTSA NO. CA0211
FMVSS NO. 118



Figure 11: Exterior Locking System (Key)

2010 Ford Taurus
NHTSA NO. CA0211
FMVSS NO. 118



2010 Ford Taurus
NHTSA NO. CA0211
FMVSS NO. 118

Figure 12: Overall Test Set-Up

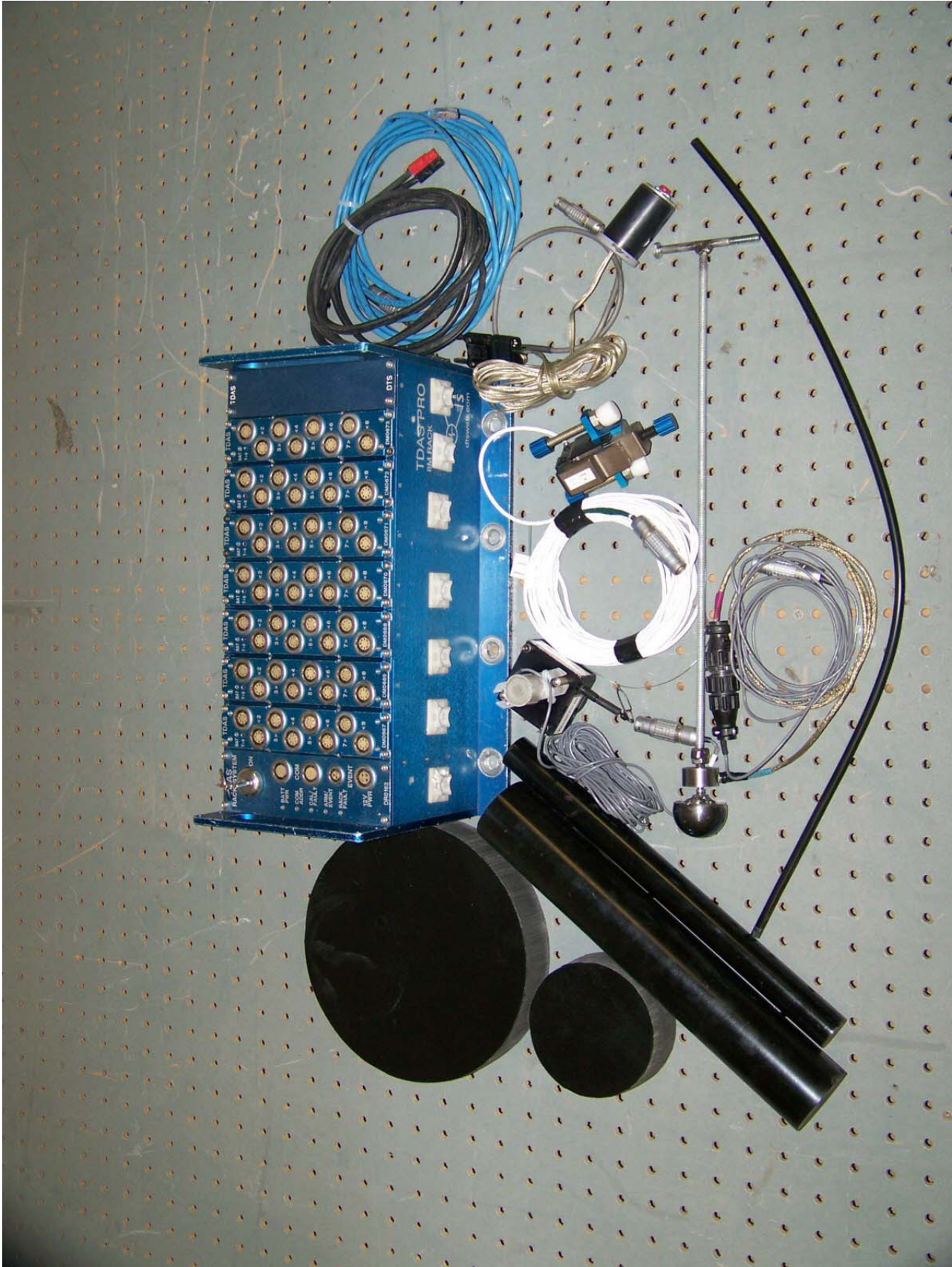


Figure 13: Instrumentation

2010 Ford Taurus
NHTSA NO. CA0211
FMVSS NO. 118



Figure 14: Left Front Window

2010 Ford Taurus
NHTSA NO. CA0211
FMVSS NO. 118



Figure 15: Left Front Window Test Set-Up Leading Edge

2010 Ford Taurus
NHTSA NO. CA0211
FMVSS NO. 118



Figure 16: Left Front Window Test Set-Up Rear Edge

2010 Ford Taurus
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FMVSS NO. 118



Figure 17: Sphere Test Master Control Panel

2010 Ford Taurus
NHTSA NO. CA0211
FMVSS NO. 118



Figure 18: Sphere Test Right Front Window Switch

2010 Ford Taurus
NHTSA NO. CA0211
FMVSS NO. 118



Figure 19: Sphere Test Left Rear Window Switch

2010 Ford Taurus
NHTSA NO. CA0211
FMVSS NO. 118



Figure 20: Sphere Test Right Rear Window Switch

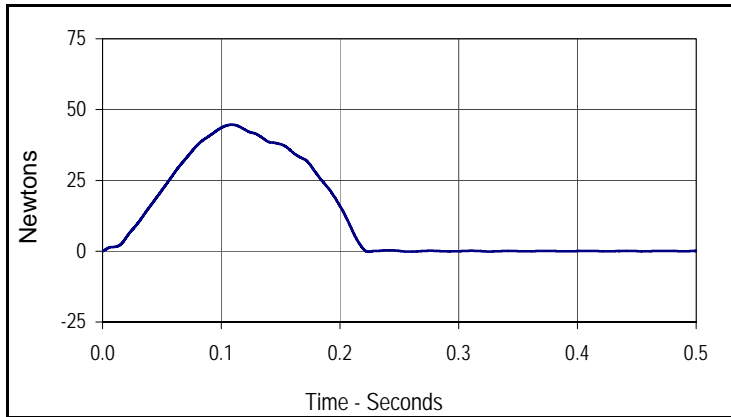
2010 Ford Taurus
NHTSA NO. CA0211
FMVSS NO. 118

SECTION 5
DATA PLOTS

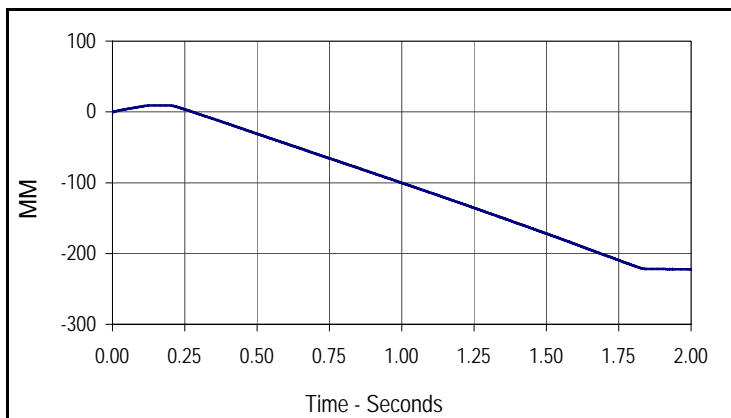
Plot		Page
1	Left Front Window: Window Force 5mm Leading Edge	37
2	Left Front Window: Window Travel 5mm Leading Edge	37
3	Left Front Window: Window Force 25mm Leading Edge	37
4	Left Front Window: Window Travel 25mm Leading Edge	37
5	Left Front Window: Window Force 50mm Leading Edge	38
6	Left Front Window: Window Travel 50mm Leading Edge	38
7	Left Front Window: Window Force 100mm Leading Edge	38
8	Left Front Window: Window Travel 100mm Leading Edge	38
9	Left Front Window: Window Force 200mm Leading Edge	39
10	Left Front Window: Window Travel 200mm Leading Edge	39
11	Left Front Window: Window Force 5mm Rear Edge	40
12	Left Front Window: Window Travel 5mm Rear Edge	40
13	Left Front Window: Window Force 25mm Rear Edge	40
14	Left Front Window: Window Travel 25mm Rear Edge	40
15	Left Front Window: Window Force 50mm Rear Edge	41
16	Left Front Window: Window Travel 50mm Rear Edge	41
17	Left Front Window: Window Force 100mm Rear Edge	41
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	Test Equipment List and Calibration Information	45

Test Vehicle: 2010 Ford Taurus 4-Door Sedan
 Test Program: FMVSS 118

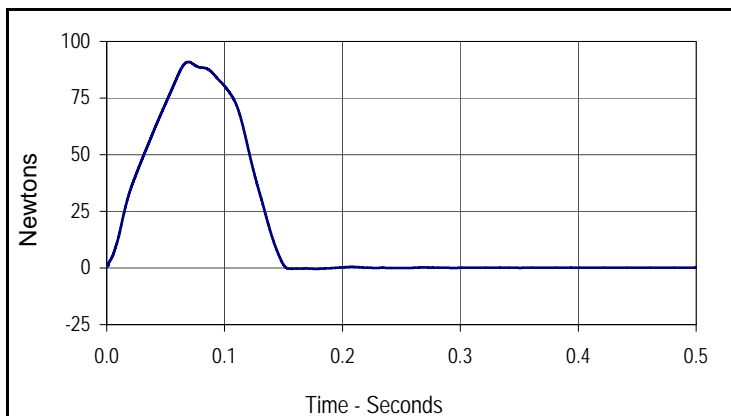
Test Date: 5/25/10 - 5/26/10
 NHTSA No.: CA0211



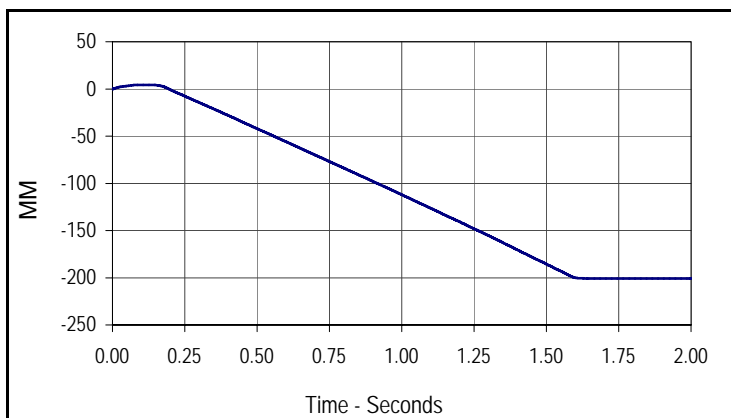
Curve Description			
Left Front Window			
Window Force 5MM Leading Edge			
CURNO	Type	SAE Class	Units
001	FIL	60	Newtons
Max	Time	Min	Time
44.7	0.1	-0.2	0.2



Curve Description			
Left Front Window			
Window Travel 5MM Leading Edge			
CURNO	Type	SAE Class	Units
002	FIL	60	MM
Max	Time	Min	Time
9.3	0.2	-222.2	2.9



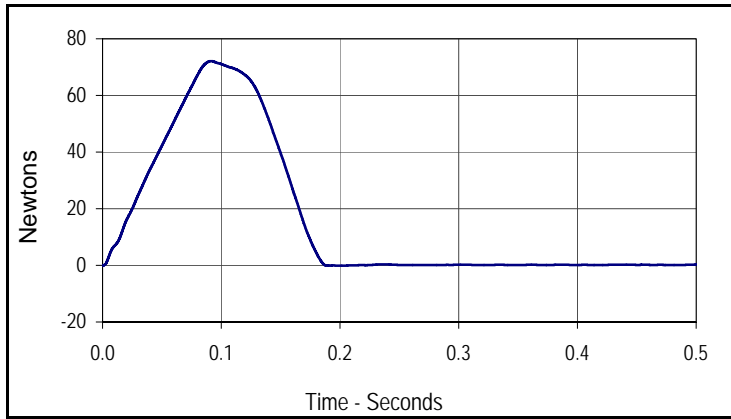
Curve Description			
Left Front Window			
Window Force 25MM Leading Edge			
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003	FIL	60	Newtons
Max	Time	Min	Time
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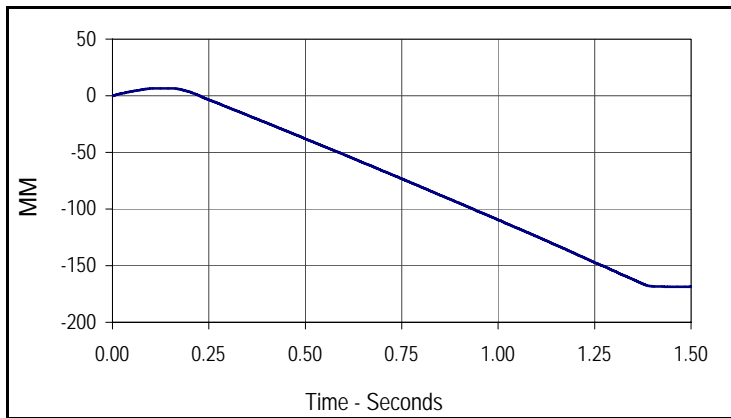
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Left Front Window			
Window Travel 25MM Leading Edge			
CURNO	Type	SAE Class	Units
004	FIL	60	MM
Max	Time	Min	Time
4.4	0.1	-201.0	2.7

Test Vehicle: 2010 Ford Taurus 4-Door Sedan
 Test Program: FMVSS 118

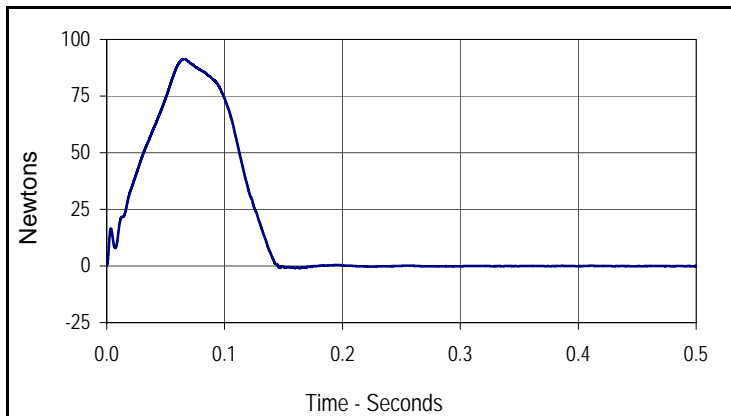
Test Date: 5/25/10 - 5/26/10
 NHTSA No.: CA0211



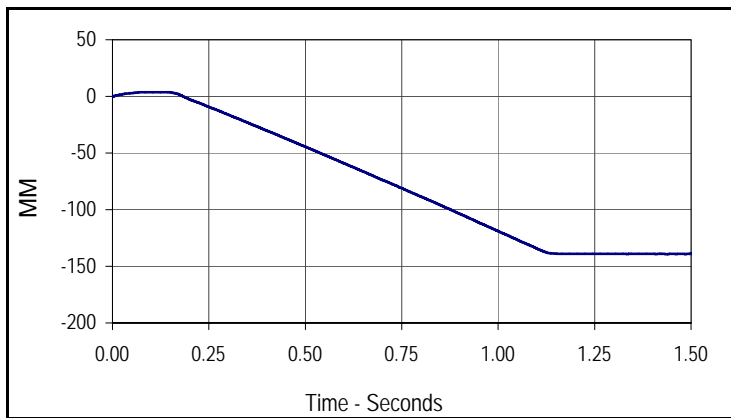
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Left Front Window			
Window Force 50MM Leading Edge			
CURNO	Type	SAE Class	Units
005	FIL	60	Newtons
Max	Time	Min	Time
72.1	0.1	-0.1	0.2



Curve Description			
Left Front Window			
Window Travel 50MM Leading Edge			
CURNO	Type	SAE Class	Units
006	FIL	60	MM
Max	Time	Min	Time
6.6	0.1	-168.8	3.0



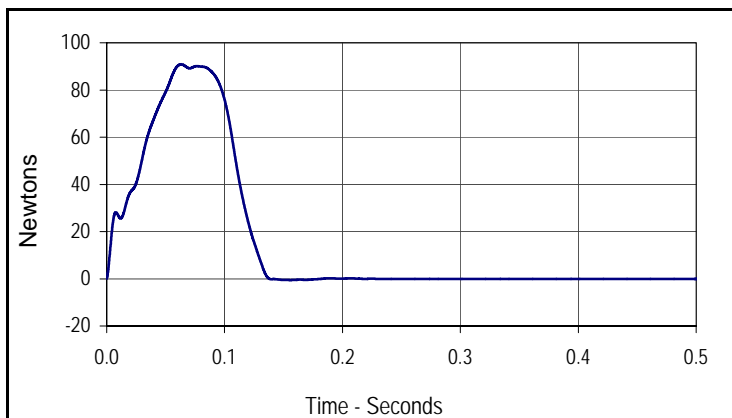
Curve Description			
Left Front Window			
Window Force 100MM Leading Edge			
CURNO	Type	SAE Class	Units
007	FIL	60	Newtons
Max	Time	Min	Time
91.3	0.1	-1.0	0.2



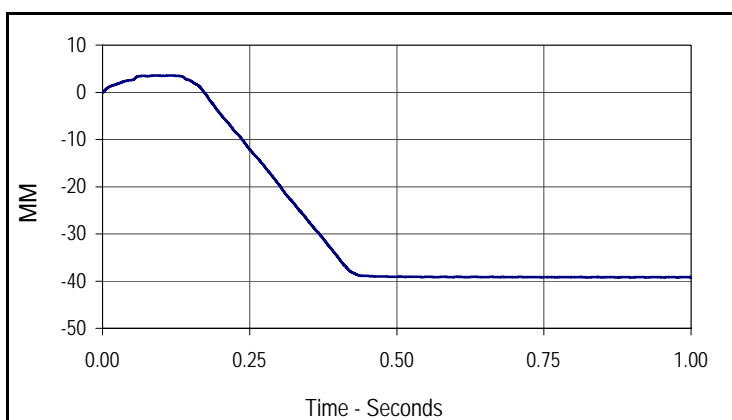
Curve Description			
Left Front Window			
Window Travel 100MM Leading Edge			
CURNO	Type	SAE Class	Units
008	FIL	60	MM
Max	Time	Min	Time
3.8	0.1	-139.2	2.3

Test Vehicle: 2010 Ford Taurus 4-Door Sedan
 Test Program: FMVSS 118

Test Date: 5/25/10 - 5/26/10
 NHTSA No.: CA0211



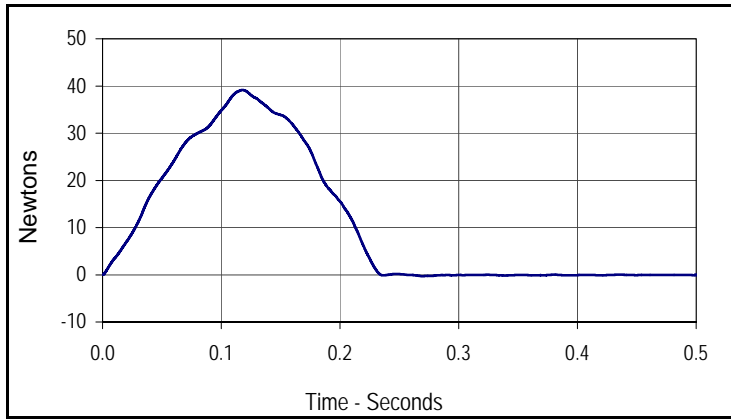
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Max	Time	Min	Time
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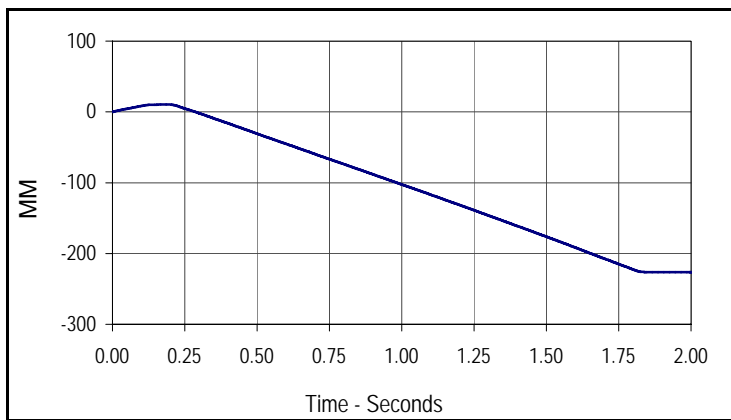
Curve Description			
Left Front Window			
Window Travel 200MM Leading Edge			
CURNO	Type	SAE Class	Units
010	FIL	60	MM
Max	Time	Min	Time
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Test Vehicle: 2010 Ford Taurus 4-Door Sedan
 Test Program: FMVSS 118

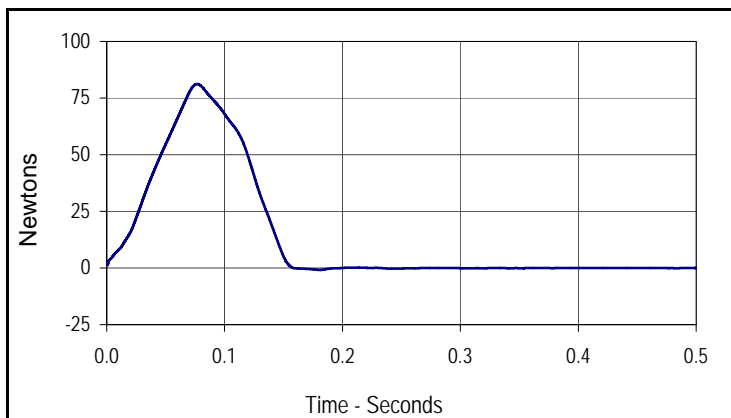
Test Date: 5/25/10 - 5/26/10
 NHTSA No.: CA0211



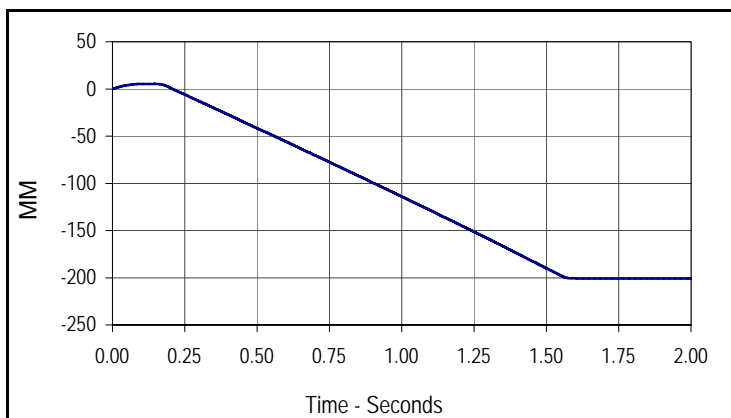
Curve Description			
Left Front Window			
Window Force 5MM Rear Edge			
CURNO	Type	SAE Class	Units
011	FIL	60	Newtons
Max	Time	Min	Time
39.2	0.1	-0.3	0.3



Curve Description			
Left Front Window			
Window Travel 5MM Rear Edge			
CURNO	Type	SAE Class	Units
012	FIL	60	MM
Max	Time	Min	Time
10.4	0.2	-226.6	3.0



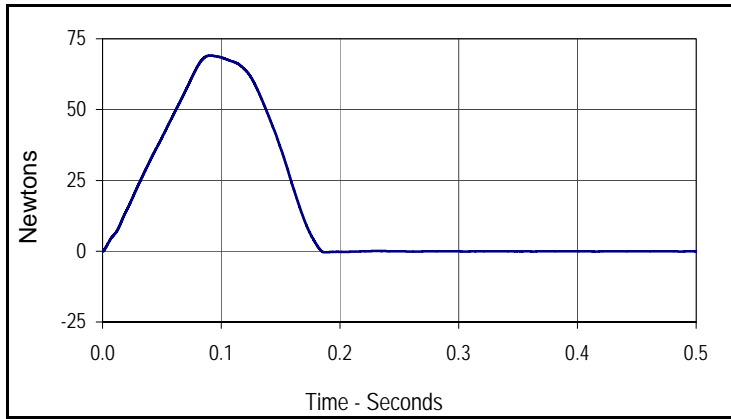
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Left Front Window			
Window Force 25MM Rear Edge			
CURNO	Type	SAE Class	Units
013	FIL	60	Newtons
Max	Time	Min	Time
81.2	0.1	-0.8	0.2



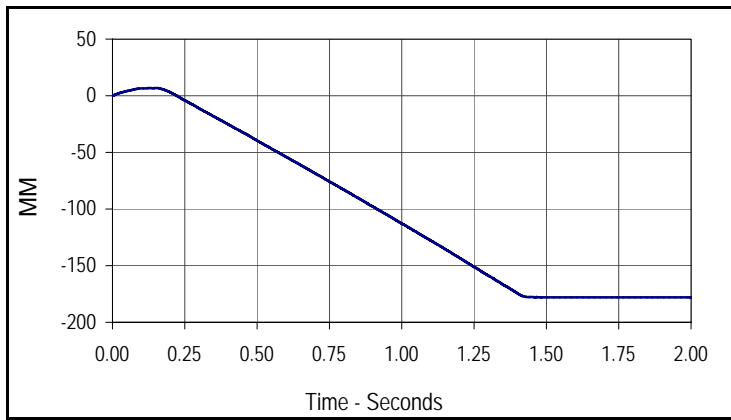
Curve Description			
Left Front Window			
Window Travel 25MM Rear Edge			
CURNO	Type	SAE Class	Units
014	FIL	60	MM
Max	Time	Min	Time
5.4	0.1	-201.0	3.0

Test Vehicle: 2010 Ford Taurus 4-Door Sedan
 Test Program: FMVSS 118

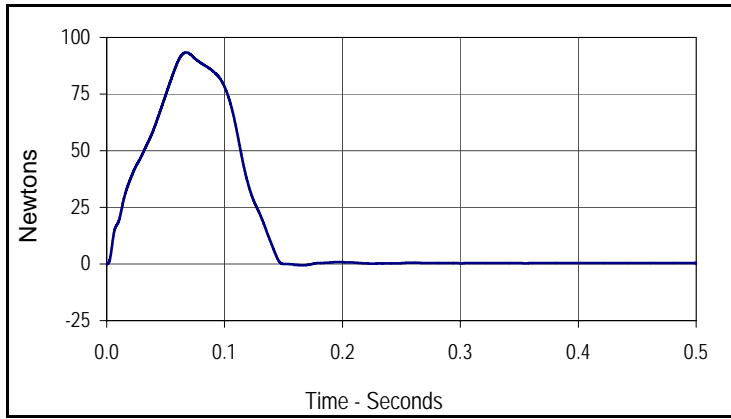
Test Date: 5/25/10 - 5/26/10
 NHTSA No.: CA0211



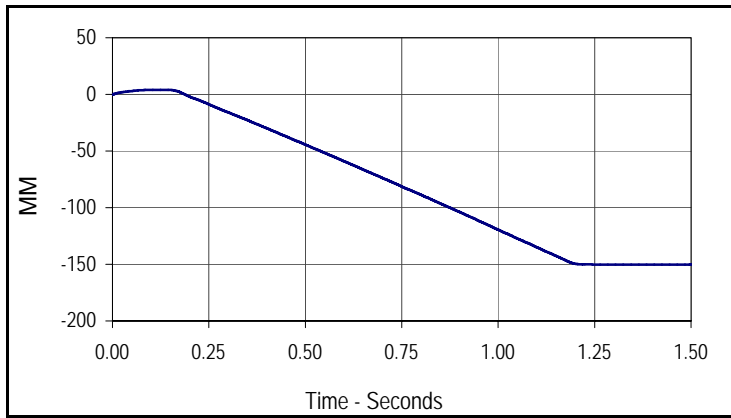
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Left Front Window			
Window Force 50MM Rear Edge			
CURNO	Type	SAE Class	Units
015	FIL	60	Newtons
Max	Time	Min	Time
69.1	0.1	-0.4	0.2



Curve Description			
Left Front Window			
Window Travel 50MM Rear Edge			
CURNO	Type	SAE Class	Units
016	FIL	60	MM
Max	Time	Min	Time
6.7	0.2	-178.1	2.1



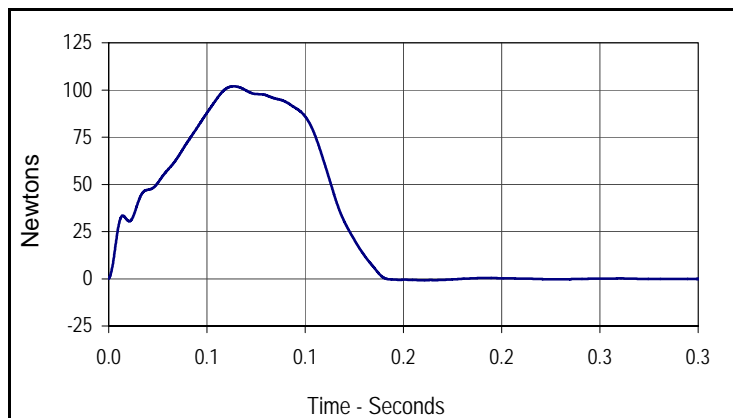
Curve Description			
Left Front Window			
Window Force 100MM Rear Edge			
CURNO	Type	SAE Class	Units
017	FIL	60	Newtons
Max	Time	Min	Time
93.4	0.1	-0.6	0.2



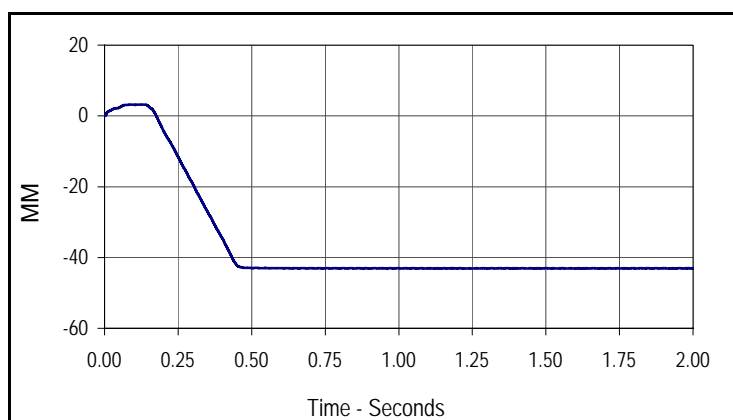
Curve Description			
Left Front Window			
Window Travel 100MM Rear Edge			
CURNO	Type	SAE Class	Units
018	FIL	60	MM
Max	Time	Min	Time
4.0	0.1	-150.5	2.3

Test Vehicle: 2010 Ford Taurus 4-Door Sedan
 Test Program: FMVSS 118

Test Date: 5/25/10 - 5/26/10
 NHTSA No.: CA0211



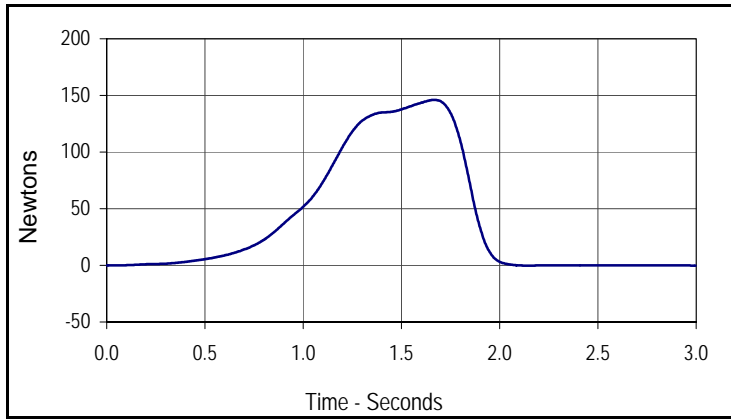
Curve Description			
Left Front Window			
Window Force 200MM Rear Edge			
CURNO	Type	SAE Class	Units
019	FIL	60	Newtons
Max	Time	Min	Time
101.9	0.1	-0.8	0.2



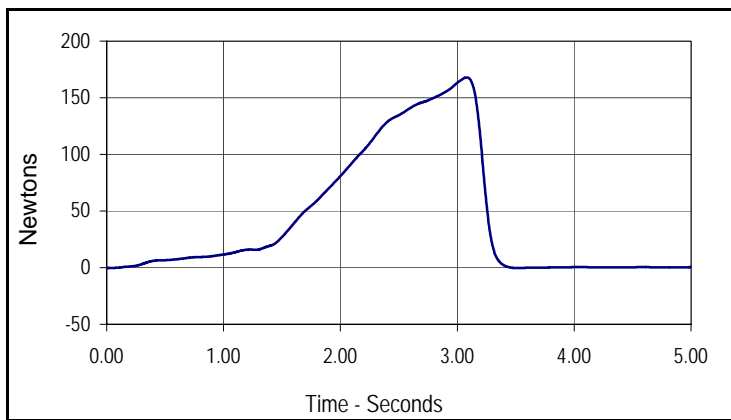
Curve Description			
Left Front Window			
Window Travel 200MM Rear Edge			
CURNO	Type	SAE Class	Units
020	FIL	60	MM
Max	Time	Min	Time
3.2	0.1	-43.1	2.0

Test Vehicle: 2010 Ford Taurus 4-Door Sedan
 Test Program: FMVSS 118

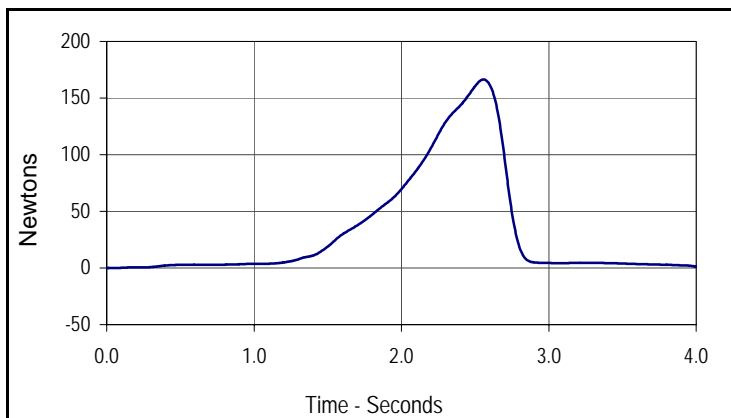
Test Date: 5/25/10 - 5/26/10
 NHTSA No.: CA0211



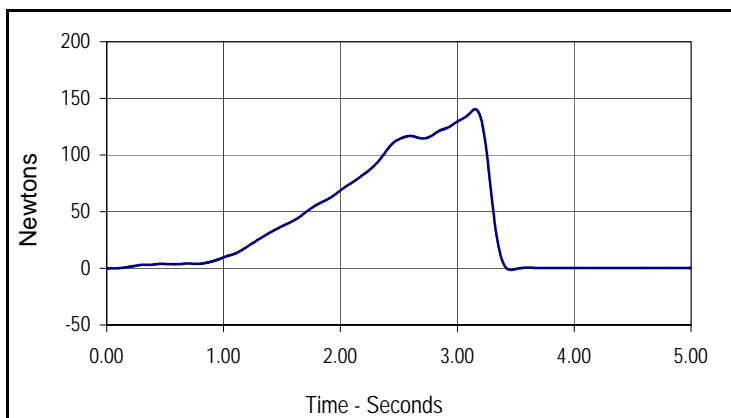
Curve Description			
Master Switch Test			
Master Switch Left Front Window			
CURNO	Type	SAE Class	Units
021	FIL	60	Newtons
Max	Time	Min	Time
146.0	1.7	-0.2	2.1



Curve Description			
Master Switch Test			
Master Switch Right Front Window			
CURNO	Type	SAE Class	Units
022	FIL	60	Newtons
Max	Time	Min	Time
167.9	3.1	-0.4	3.5



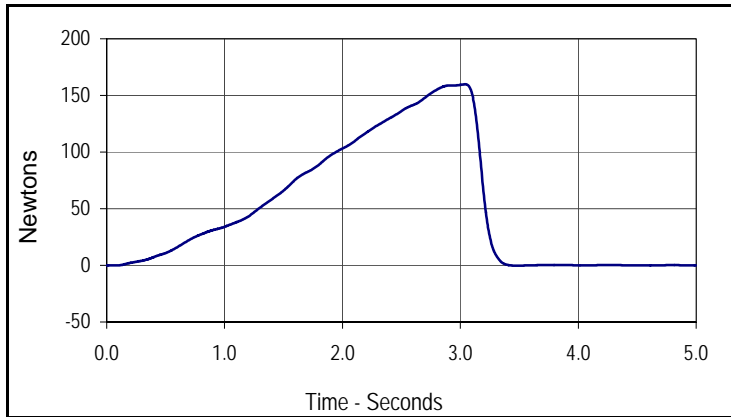
Curve Description			
Master Switch Test			
Master Switch Left Rear Window			
CURNO	Type	SAE Class	Units
023	FIL	60	Newtons
Max	Time	Min	Time
166.4	2.6	0.0	4.1



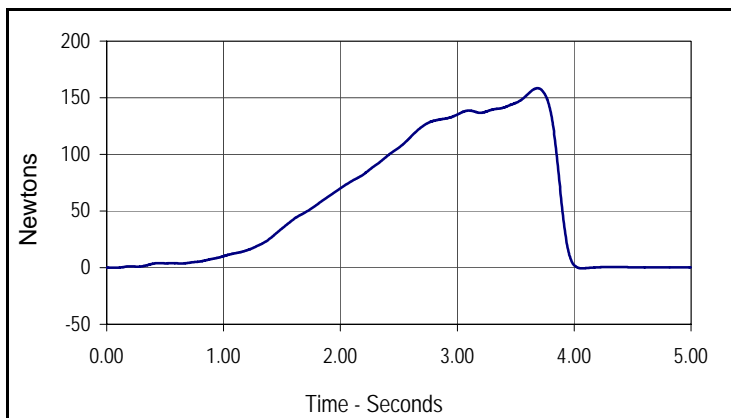
Curve Description			
Master Switch Test			
Master Switch Right Rear Window			
CURNO	Type	SAE Class	Units
024	FIL	60	Newtons
Max	Time	Min	Time
140.5	3.2	-1.3	3.5

Test Vehicle: 2010 Ford Taurus 4-Door Sedan
 Test Program: FMVSS 118

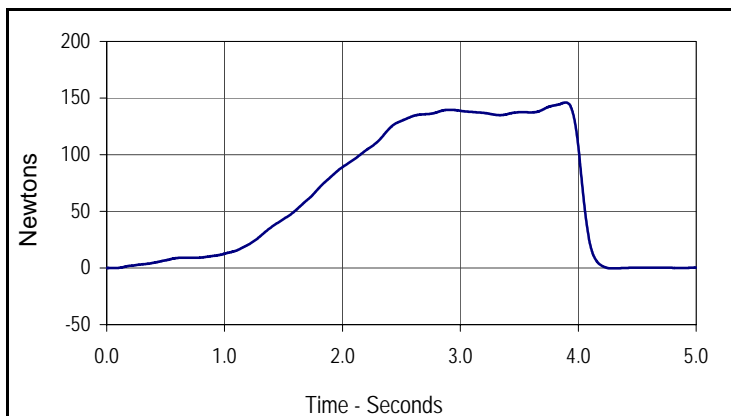
Test Date: 5/25/10 - 5/26/10
 NHTSA No.: CA0211



Curve Description			
Individual Switch Test			
Individual Switch Right Front Window			
CURNO	Type	SAE Class	Units
025	FIL	60	Newtons
Max	Time	Min	Time
159.8	3.0	-0.3	3.5



Curve Description			
Individual Switch Test			
Individual Switch Left Rear Window			
CURNO	Type	SAE Class	Units
026	FIL	60	Newtons
Max	Time	Min	Time
158.4	3.7	-0.6	4.1



Curve Description			
Individual Switch Test			
Individual Switch Right Rear Window			
CURNO	Type	SAE Class	Units
027	FIL	60	Newtons
Max	Time	Min	Time
146.1	3.9	-0.4	4.3

FMVSS 118
Test Equipment List and Calibration Information
5/25/10 - 5/26/10
2010 Ford Taurus 4-Door Sedan

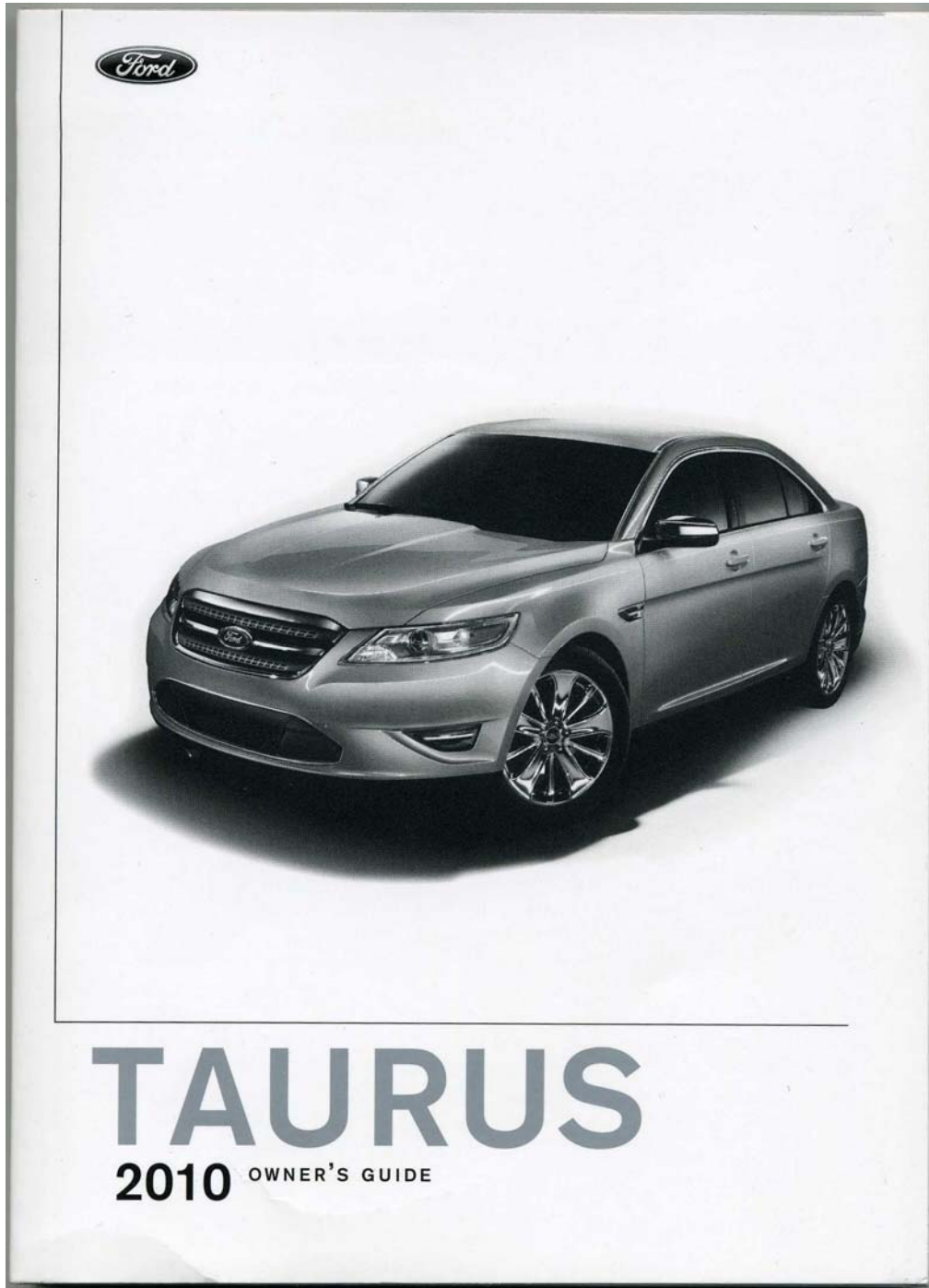
Description	Manufacturer	Model No.	Serial No.	Limit	Accuracy	Cal. Date	Due Cal.
DAS	DTS	TDAS Pro	DM0429	N/A	SAE J211	03/08/10	03/08/11
Laptop Computer	Toshiba	Satellite	LAP02	N/A	N/A	N/A	N/A
Load Cell	Denton	2409	85	445 Newtons	± 1.0%	03/22/10	03/22/11
Displacement Xdcr.	Celesco	PTX101-0030	J0654653	76 CM	± 1.0%	Each Use	
Load Cell	Lebow	261134	K118	300 Newtons	± 1.0%	05/25/10	05/25/11



SECTION 6
COPY OF OWNER'S MANUAL INSTRUCTION FOR USE OF POWER WINDOWS

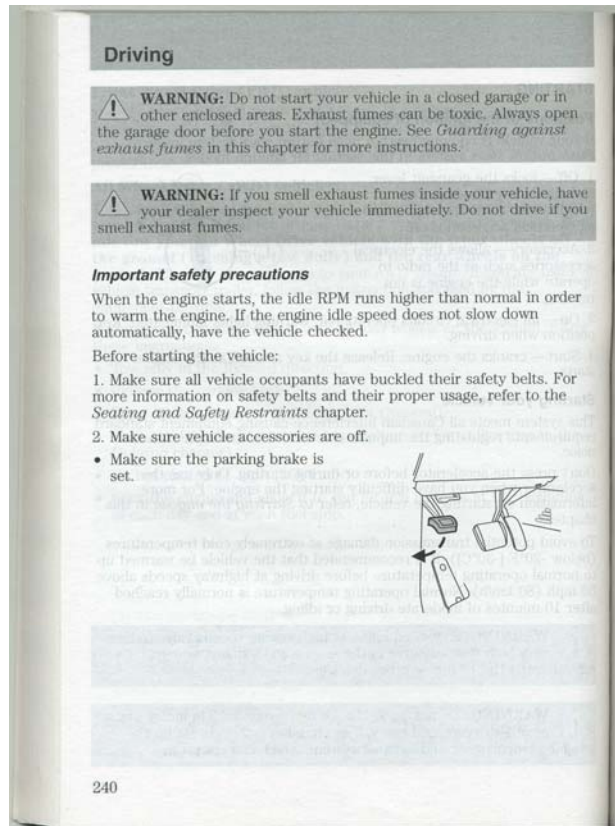
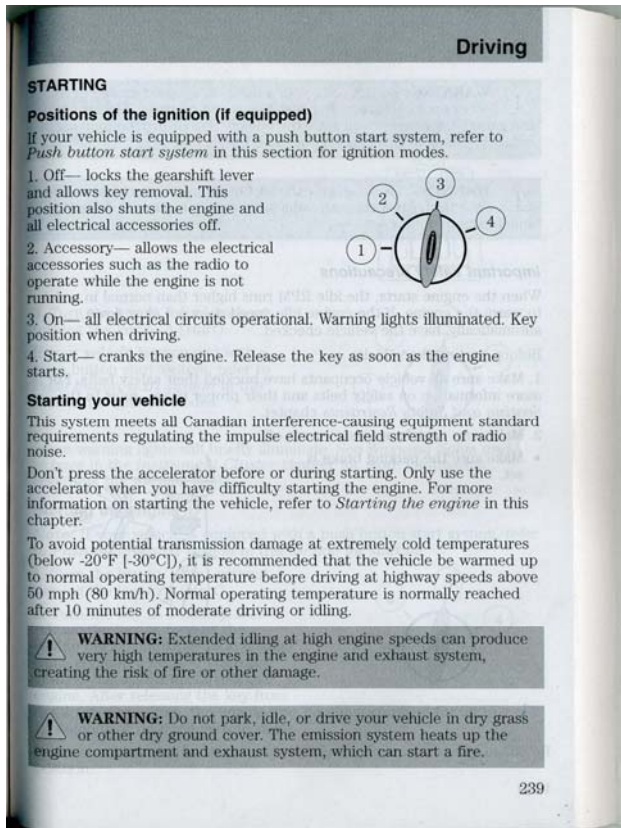
COPY OF OWNER'S MANUAL INSTRUCTIONS FOR USE OF POWER WINDOWS

TEST VEHICLE INFORMATION			
YEAR	2010	MAKE	FORD
MODEL	Taurus	BODY STYLE	4-Door Sedan
NHTSA NO.	CA0211	VIN	1FAHP2DW1AG132689
TEST DATE:	05/25/10 - 05/26/10		



COPY OF OWNER'S MANUAL INSTRUCTIONS FOR USE OF POWER WINDOWS

TEST VEHICLE INFORMATION			
YEAR	2010	MAKE	FORD
MODEL	Taurus	BODY STYLE	4-Door Sedan
NHTSA NO.	CA0211	VIN	1FAHP2DW1AG132689
TEST DATE:	05/25/10 - 05/26/10		




COPY OF OWNER'S MANUAL INSTRUCTIONS FOR USE OF POWER WINDOWS

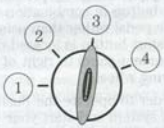
TEST VEHICLE INFORMATION			
YEAR	2010	MAKE	FORD
MODEL	Taurus	BODY STYLE	4-Door Sedan
NHTSA NO.	CA0211	VIN	1FAHP2DW1AG132689
TEST DATE:	05/25/10 - 05/26/10		

Driving

- Make sure the gearshift lever is in P (Park).



3. Turn the key to 3 (on) without turning the key to 4 (start).
If your vehicle is equipped with a push button start system, refer to *Push button start system* in this section for ignition modes.



Some warning lights will briefly illuminate. See *Warning lights and chimes* in the *Instrument Cluster* chapter for more information regarding the warning lights.

Starting the engine

Note: If your vehicle is equipped with a push button start system, refer to *Push button start system* in this section for starting.

- Turn the key to 3 (on) without turning the key to 4 (start).
- Turn the key to 4 (start), then release the key as soon as the engine begins cranking. Your vehicle has a computer assisted cranking system that assists in starting the engine. After releasing the key from the 4 (start) position, the engine may continue cranking for up to 10 seconds or until the vehicle starts.



Note: Cranking may be stopped at any time by turning the key to the off position.

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Locks and Security



Push button start: Your vehicle is equipped with a push button start system, which allows you to start your vehicle without using a key. To operate the push button start system and start your vehicle, your IA key must be present inside the vehicle, either in the passenger compartment or in the trunk. Refer to *Push button start* in the *Driving* chapter.

Unlocking the doors/two stage unlock

- Press  and release to unlock the driver's door.
Note: The interior lamps and parking lamps will illuminate.
- Press  and release again within three seconds to unlock all the doors.


The remote entry system activates the illuminated entry feature; this feature turns on the lamps for 25 seconds or until the ignition is turned on.

The battery saver feature will turn off the lamps 10 minutes after the ignition is turned off.



Two stage unlocking may be disabled or re-enabled by simultaneously pressing the  and  controls on the transmitter for four seconds (disabling two stage unlock allows all vehicle doors to unlock simultaneously). The parking lamps will illuminate twice to indicate that two-stage unlock was enabled or disabled.

If equipped with IA key, when two stage unlocking is disabled, intelligent access at the driver's door results in an unlock of all doors (not just the driver door).

Opening front windows and moon roof (if equipped)

You can open the vehicle's windows, and (if equipped) vent the moon roof by using the  control on the transmitter. Refer to *Power windows* in the *Driver Controls* chapter for more information.

Locking the doors

- Press  and release to lock all the doors. The parking lamps will illuminate.
- Press  and release again within three seconds to confirm that all the doors are closed. **Note:** The doors will lock again, the horn will chirp and the turn lamps will illuminate if all the doors and trunk are closed.

Note: If any door or the trunk is not closed, the horn will chirp twice and the turn lamps will not illuminate.

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COPY OF OWNER'S MANUAL INSTRUCTIONS FOR USE OF POWER WINDOWS

TEST VEHICLE INFORMATION			
YEAR	2010	MAKE	FORD
MODEL	Taurus	BODY STYLE	4-Door Sedan
NHTSA NO.	CA0211	VIN	1FAHP2DW1AG132689
TEST DATE:	05/25/10 - 05/26/10		

Driver Controls

- do not leave battery chargers, video game adapters, computers and other devices plugged in overnight or when the vehicle is parked for extended periods.

Always keep the power point caps closed when not being used.

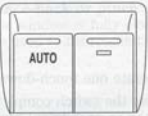
POWER WINDOWS

WARNING: Do not leave children unattended in the vehicle and do not let children play with the power windows. They may seriously injure themselves.

WARNING: When closing the power windows, you should verify they are free of obstructions and ensure that children and/or pets are not in the proximity of the window openings.


Press and pull the window switches to open and close windows.




- Press down (to the first detent) and hold the switch to open.
- Pull up (to the first detent) and hold the switch to close.



Rear Window Buffeting: When one or both of the rear windows are open, the vehicle may demonstrate a wind throb or buffeting noise. This noise can be alleviated by lowering a front window approximately 2-3 inches (5-8 cm).

Global open windows (if equipped)

Press  on the remote transmitter and hold for more than two seconds in order to begin opening the two front windows and (if equipped) vent the moon roof.

- The  control can then be released and the windows will complete the opening operation and fully vent the moon roof.
- If  or  is pressed during the opening operation, both windows and moon roof movement will stop.

Note: The ignition must be in the off position and the accessory delay feature must be not activated in order for this feature to operate.

Note: To disable this feature, contact your authorized dealer.

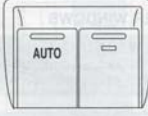
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Driver Controls

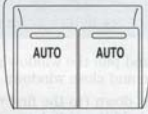
One-touch up or down

This feature allows the driver's and passenger's window to open or close fully without holding the control down.

Driver's window one-touch up or down



Driver's and passenger's window one-touch up or down (if equipped)




To operate one touch-down:

- Press the switch completely down to the second detent and release quickly. The window will open fully. Momentarily press the switch to any position to stop the window operation.

If the switch is pressed and held to the normal close or one-touch up position during a one-touch down cycle, the window will stop. If, after 1/2 second the switch is still held, the window will perform a normal close or one-touch up.

To operate one-touch up:

- Pull the switch completely up to the second detent and release quickly. The window will close fully. Momentarily press the switch to any position to stop the window operation.



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COPY OF OWNER'S MANUAL INSTRUCTIONS FOR USE OF POWER WINDOWS

TEST VEHICLE INFORMATION			
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MODEL	Taurus	BODY STYLE	4-Door Sedan
NHTSA NO.	CA0211	VIN	1FAHP2DW1AG132689
TEST DATE:	05/25/10 - 05/26/10		

