

REPORT NO. 124-KAR-06-003

**SAFETY COMPLIANCE TESTING
FOR FMVSS NO. 124**

ACCELERATOR CONTROL SYSTEMS

DAIMLERCHRYSLER CORPORATION
2006 DODGE DAKOTA
4-DOOR TRUCK

NHTSA NO. C60302

PREPARED BY:
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JULY 11, 2006

FINAL REPORT

PREPARED FOR:
U.S. DEPARTMENT OF TRANSPORTATION
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION
ENFORCEMENT
OFFICE OF VEHICLE SAFETY COMPLIANCE
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16. <i>Abstract</i> Compliance tests were conducted on the subject 2006 Dodge Dakota 4-Door Truck on July 11, 2006 in accordance with the specifications of the Office of Vehicle Safety Compliance Laboratory Test Procedure No. TP-124-06 for the determination of FMVSS 124 compliance. There were no apparent test failures.			
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SECTION 1
PURPOSE OF COMPLIANCE TEST

1. PURPOSE OF COMPLIANCE TEST

Tests were conducted on a 2006 Dodge Dakota 4-Door Truck, manufactured by DaimlerChrysler Corporation, to determine compliance with FMVSS 124, "Accelerator Control Systems". FMVSS 124 establishes requirements for the return of a vehicle's throttle to the idle position when the driver removes the actuating force from the accelerator control, or in the event of a severance or disconnection in the accelerator control system. The purpose of this standard is to reduce the number of deaths and injuries resulting from engine over-speed caused by malfunctions in the accelerator control system.

All tests were conducted based on the current National Highway Traffic Safety Administration (NHTSA), Office of Vehicle Safety Compliance (OVSC) Laboratory Test Procedures, TP-124-06, dated April 20, 2000, and corresponding KARCO Engineering test procedure KTP-124A, dated May 24, 2006. As per directions of NHTSA, testing was not performed on a dynamometer or at high or low ambient temperature conditions. Detailed procedures for receiving, inspecting, testing and reporting of test results are described in the test procedures and are not repeated in this report.

This report is organized in sections containing pertinent test information and data tables as follows:

Section 2	-	Compliance Test Procedure and Data Summary
Section 3	-	Test Results
Appendix A	-	Photographs
Appendix B	-	Data Plots
Appendix C	-	Test Equipment List

SECTION 2
COMPLIANCE TEST PROCEDURE AND DATA SUMMARY

2. COMPLIANCE TEST PROCEDURE AND DATA SUMMARY

A 2006 Dodge Dakota 4-Door Truck was subjected to FMVSS 124 compliance testing. The tests were conducted at KARCO Engineering in Adelanto, California on July 11, 2006. The following tests were performed:

- Inspection
- Time to Return to Idle Position (Complete Normal Operation)
- Time to Return to Idle Position (1st Energy Source Removed)
- Time to Return to Idle Position (2nd Energy Source Removed)
- Time to Return to Idle Position (Severance)

The tests were conducted per the FMVSS 124 test procedure. The significant aspects of the test procedure are described in the following paragraphs.

A. INSPECTION

The operation of all adjustable accelerator control systems shall be checked to ascertain that the systems operate correctly. The accelerator control systems shall have at least two sources of energy capable of returning the throttle to the idle.

B. COMPLIANCE TEST EXECUTION (STATIC TESTING OF ACCELERATOR CONTROL SYSTEMS)

B.1 FULLY OPERATIONAL SYSTEM

Continuously record ambient temperature, engine coolant temperature, throttle position versus time and engine RPM versus time for the duration of each test. The accelerator may be depressed by hand or foot pressure or by any other mechanical means. Conduct the tests for 25% WOT, 50% WOT, 75% WOT and 100% WOT. Conduct the test a second time with the engine off.

B.2 DISCONNECTION OF THE FIRST SOURCE OF THROTTLE RETURN ENERGY

Remove one of the throttle return springs. Continuously record ambient temperature, engine coolant temperature, throttle position versus time, and engine RPM versus time for the duration of each test. The accelerator may be depressed by hand or foot pressure or by any other mechanical means. Conduct the tests for 25% WOT, 50% WOT, 75% WOT and 100% WOT. Conduct the test a second time with the engine off. Return the system to original condition.

B.3 DISCONNECTION OF THE SECOND SOURCE OF THROTTLE RETURN ENERGY

Remove the second throttle return spring and reconnect the first spring. Continuously record ambient temperature, engine coolant temperature, throttle position versus time, and engine RPM versus time for the duration of each test. The accelerator may be depressed by hand or foot pressure or by any other mechanical means. Conduct the tests for 25% WOT, 50% WOT, 75% WOT and 100% WOT. Conduct the test a second time with the engine off. Return the system to original condition.

B.4 SEVERANCE

Identify the points determined in Section 11.3.4 of the KTP-124A test procedure to be the most critical in the accelerator control system. Induce severance or disconnection in the throttle return linkage. Continuously record ambient temperature, engine coolant temperature, throttle position versus time engine RPM versus time for the duration of each test. The accelerator may be depressed by hand or foot pressure or by any other mechanical means. Conduct the tests for 25% WOT, 50% WOT, 75% WOT and 100% WOT. Conduct the test a second time with the engine off. Return the system to original condition.

B.5 TEST SET-UP

Each series of tests were conducted in the same manner. Throttle plate position was measured using the vehicle's throttle plate position sensor. Engine RPM was obtained with an optical fifth wheel recording speed on the vehicle's engine belt. The Dodge Dakota engine was RPM limited and the RPM of the engine remained relatively constant for multiple throttle plate positions. Release of the accelerator pedal and severance is time zero (0) on the data traces. The data trace for throttle plate is measured as a percentage rotation where 0% is idle and 100% is wide open throttle. Time is for the engine RPM to return to approximate steady state idle on the Data sheet No.4. Severance was accomplished by disconnecting the accelerator cable from the throttle body and actuating the throttle plate with a piece of string. Time zero on the data plots equates to release of string simulating failure.

B.6 ENGINE SPEED FOR THE FOLLOWING THROTTLE PLATE POSITIONS :

Curb Idle Position	800 RPM
100% Wide Open Throttle (WOT)	4000 RPM
Throttle Position When Engine Limits	4000 RPM
75% WOT	4000 RPM
50% WOT	4000 RPM
25% WOT	4000 RPM

SECTION 3
TEST DATA

3. TEST DATA

The results of FMVSS 124 compliance tests that were conducted on the 2006 Dodge Dakota 4-Door Truck on July 11, 2006 to determine compliance with FMVSS 124, "Accelerator Control Systems" are presented in this section.

DATA SHEET NO. 1

VEHICLE INSPECTION AND IDENTIFICATION

<u>TEST VEHICLE INFORMATION</u>			
Manufacturer	DaimlerChrysler Corporation	VIN	1D7HE28K46S526110
Manufacturing Date	09/2005	Delivery Date	07/11/2006
Dealer	Victorville Motors Inc	NHTSA No.	C60302
Odometer Reading (mi.)	157.9	Fuel Type	Gas
Engine Displacement (lit.)	3.7	Cylinders	V6
Transmission	Automatic	Final Drive	Rear
Engine Placement	Transverse	Color	White
Tire Press./Max. Cap. Front	302 kpa (44 psi)	Cold Tire Press. Front	240 kpa (35 psi)
Tire Press./Max. Cap. Rear	302 kpa (44 psi)	Cold Tire Press. Rear	240 kpa (35 psi)
Recommend Tire Size	P245/70R16	Type of Spare	Full Size
Tire Size on Vehicle	P245/70R16	Manufacturer	Goodyear
GVWR	2727 kg (6010 lb)	Cargo Capacity	741 kg (1635 lb)
GAWR Front	1407 kg (3100 lb)	GAWR Rear	1633 kg (3600 lb)
Air Conditioning	Yes	Power Steering	Yes
Power Brakes	Yes	AM/FM/Cassette	Yes
Disc Brakes (Front)	Yes	Disc Brakes (Rear)	No
Power Windows	No	Tilt Steering	No
Anti-lock Brakes (ABS)	Yes	Power Seats	No
Driver Airbag	Yes	Passenger Airbag	Yes
Control System	Fuel Injected		
Comments:	None		

DATA SHEET NO. 2

VEHICLE THROTTLE CONTROL INSPECTION

VEHICLE			
YEAR	2006	MAKE	DaimlerChrysler Corporation
MODEL	Dodge Dakota	BODY STYLE	4-Door Truck
NHTSA NO.	C60302	VIN	1D7HE28K46S526110
TEST DATE:	07/11/2006	TEMPERATURE	30.1° C

Determine how many forms of energy are present on the vehicle to return throttle to idle. If more than two, describe the third in the comments below.	2
Describe the first energy source.	Torsion spring mounted on throttle shaft.
Describe the second energy source.	Torsion spring mounted on throttle shaft.
Does vehicle have a return spring on the accelerator pedal?	No
Describe point of severance.	Throttle cable was disconnected from the throttle shaft.

Comments: None

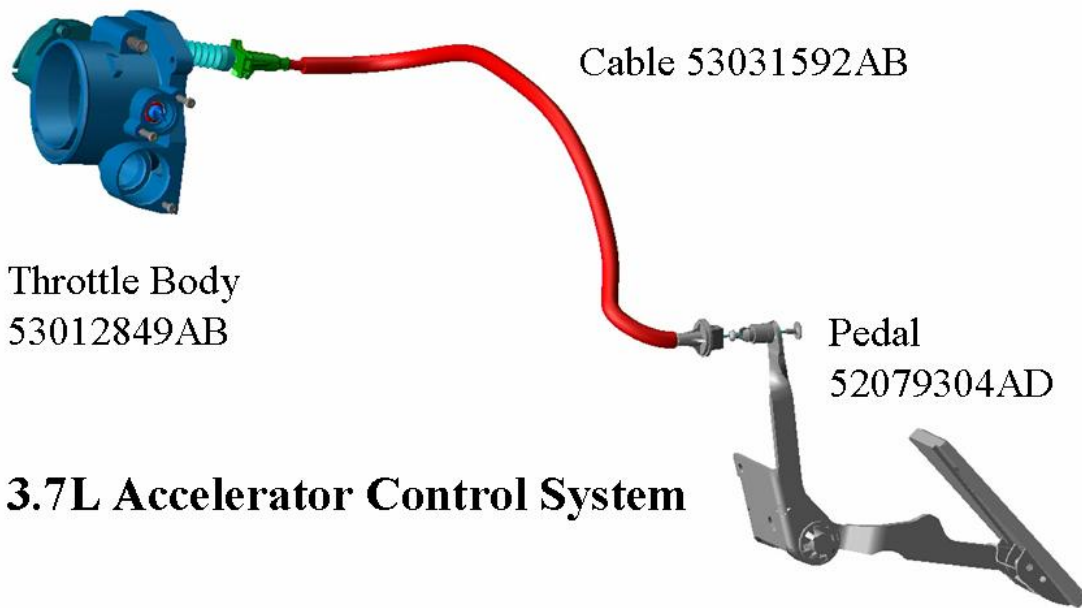
TEST STATUS:	PASSED —	x	FAILED —	
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RECORDED BY: RUPESH B. PATEL DATE: 07/11/06

APPROVED BY: MICHAEL L. DUNLAP DATE: 07/11/06

DATA SHEET NO. 3
MANUFACTURER'S DRAWINGS

VEHICLE			
YEAR	2006	MAKE	DaimlerChrysler Corporation
MODEL	Dodge Dakota	BODY STYLE	4-Door Truck
NHTSA NO.	C60302	VIN	1D7HE28K46S526110
TEST DATE:	07/11/2006	TEMPERATURE	30.1° C



DATA SHEET NO. 4

TEST EXECUTION

VEHICLE			
YEAR	2006	MAKE	DaimlerChrysler Corporation
MODEL	Dodge Dakota	BODY STYLE	4-Door Truck
NHTSA NO.	C60302	VIN	1D7HE28K46S526110
TEST DATE:	07/11/2006	TEMPERATURE	30.1° C

THROTTLE CONTROL SYSTEM CONDITION:				ACCELERATOR CONTROL SYSTEM INTACT, AMBIENT TEMPERATURE, ENGINE ON			
TEST NO.	NOMINAL THROTTLE POSITION	ACTUAL THROTTLE POSITION	ENGINE RPM	ENGINE COOLANT TEMPERATURE	THROTTLE POSITION SENSOR READING AT IDLE	TIME TO RETURN TO IDLE	PASS /FAIL
1	25%	25.0%	3640.9	67.5°C	0.0%	150 msec	Pass
2	50%	50.1%	3811.7	67.5°C	0.0%	150 msec	Pass
3	75%	75.1%	3837.0	67.5°C	0.0%	160 msec	Pass
4	100%	100.1%	3860.6	67.5°C	0.0%	160 msec	Pass

THROTTLE CONTROL SYSTEM CONDITION:				ACCELERATOR CONTROL SYSTEM INTACT, AMBIENT TEMPERATURE, ENGINE OFF			
TEST NO.	NOMINAL THROTTLE POSITION	ACTUAL THROTTLE POSITION	ENGINE RPM	ENGINE COOLANT TEMPERATURE	THROTTLE POSITION SENSOR READING AT IDLE	TIME TO RETURN TO IDLE	PASS /FAIL
1	25%	25.0%				140 msec	Pass
2	50%	50.0%				160 msec	Pass
3	75%	75.0%				180 msec	Pass
4	100%	100.0%				180 msec	Pass

RETURN TIME REQUIREMENTS:

- 1 second (1000 msec) for vehicles less than 4536 kg.
- 2 seconds (2000 msec) for vehicles more than 4536 kg.
- 3 seconds (3000 msec) for vehicle exposed to -18°C or less.

TEST STATUS:	PASSED —	x	FAILED —
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RECORDED BY: **RUPESH B. PATEL** DATE: **07/11/06**

APPROVED BY: **MICHAEL L. DUNLAP** DATE: **07/11/06**

**DATA SHEET NO. 4...(CONTINUED)
TEST EXECUTION**

VEHICLE			
YEAR	2006	MAKE	DaimlerChrysler Corporation
MODEL	Dodge Dakota	BODY STYLE	4-Door Truck
NHTSA NO.	C60302	VIN	1D7HE28K46S526110
TEST DATE:	07/11/2006	TEMPERATURE	29.5° C

THROTTLE CONTROL SYSTEM CONDITION:				1 ST RETURN SPRING REMOVED, AMBIENT TEMPERATURE, ENGINE ON			
TEST NO.	NOMINAL THROTTLE POSITION	ACTUAL THROTTLE POSITION	ENGINE RPM	ENGINE COOLANT TEMPERATURE	THROTTLE POSITION SENSOR READING AT IDLE	TIME TO RETURN TO IDLE	PASS /FAIL
1	25%	25.1%	3705.6	63.8°C	0.0%	180 msec	Pass
2	50%	50.0%	3763.7	63.8°C	0.0%	180 msec	Pass
3	75%	75.1%	3594.2	63.8°C	0.0%	180 msec	Pass
4	100%	99.9%	3709.8	63.8°C	0.0%	210 msec	Pass

THROTTLE CONTROL SYSTEM CONDITION:				1 ST RETURN SPRING REMOVED, AMBIENT TEMPERATURE, ENGINE OFF			
TEST NO.	NOMINAL THROTTLE POSITION	ACTUAL THROTTLE POSITION	ENGINE RPM	ENGINE COOLANT TEMPERATURE	THROTTLE POSITION SENSOR READING AT IDLE	TIME TO RETURN TO IDLE	PASS /FAIL
1	25%	25.1%				140 msec	Pass
2	50%	50.0%				210 msec	Pass
3	75%	75.0%				190 msec	Pass
4	100%	100.1%				200 msec	Pass

RETURN TIME REQUIREMENTS:

1 second (1000 msec) for vehicles less than 4536 kg.

2 seconds (2000 msec) for vehicles more than 4536 kg.

3 seconds (3000 msec) for vehicle exposed to -18°C or less.

TEST STATUS:	PASSED —	x	FAILED —	
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RECORDED BY: **RUPESH B. PATEL** DATE: **07/11/06**

APPROVED BY: **MICHAEL L. DUNLAP** DATE: **07/11/06**

DATA SHEET NO. 4...(CONTINUED)

TEST EXECUTION

VEHICLE			
YEAR	2006	MAKE	DaimlerChrysler Corporation
MODEL	Dodge Dakota	BODY STYLE	4-Door Truck
NHTSA NO.	C60302	VIN	1D7HE28K46S526110
TEST DATE:	07/11/2006	TEMPERATURE	29.9° C

THROTTLE CONTROL SYSTEM CONDITION:				2 ND RETURN SPRING REMOVED, AMBIENT TEMPERATURE, ENGINE ON			
TEST NO.	NOMINAL THROTTLE POSITION	ACTUAL THROTTLE POSITION	ENGINE RPM	ENGINE COOLANT TEMPERATURE	THROTTLE POSITION SENSOR READING AT IDLE	TIME TO RETURN TO IDLE	PASS /FAIL
1	25%	25.1%	3503.6	67.6°C	0.0%	210 msec	Pass
2	50%	49.8%	3556.0	67.6°C	0.0%	140 msec	Pass
3	75%	75.1%	3589.2	67.6°C	0.0%	150 msec	Pass
4	100%	100.0%	3709.7	67.6°C	0.0%	140 msec	Pass

THROTTLE CONTROL SYSTEM CONDITION:				2 ND RETURN SPRING REMOVED, AMBIENT TEMPERATURE, ENGINE OFF			
TEST NO.	NOMINAL THROTTLE POSITION	ACTUAL THROTTLE POSITION	ENGINE RPM	ENGINE COOLANT TEMPERATURE	THROTTLE POSITION SENSOR READING AT IDLE	TIME TO RETURN TO IDLE	PASS /FAIL
1	25%	25.1%				150 msec	Pass
2	50%	50.0%				170 msec	Pass
3	75%	75.2%				180 msec	Pass
4	100%	100.0%				170 msec	Pass

RETURN TIME REQUIREMENTS:

1 second (1000 msec) for vehicles less than 4536 kg.

2 seconds (2000 msec) for vehicles more than 4536 kg.

3 seconds (3000 msec) for vehicle exposed to -18°C or less.

TEST STATUS:	PASSED —	x	FAILED —
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RECORDED BY: **RUPESH B. PATEL** DATE: **07/11/06**

APPROVED BY: **MICHAEL L. DUNLAP** DATE: **07/11/06**

DATA SHEET NO. 4...(CONTINUED)

TEST EXECUTION

VEHICLE			
YEAR	2006	MAKE	DaimlerChrysler Corporation
MODEL	Dodge Dakota	BODY STYLE	4-Door Truck
NHTSA NO.	C60302	VIN	1D7HE28K46S526110
TEST DATE:	07/11/2006	TEMPERATURE	29.7° C

THROTTLE CONTROL SYSTEM CONDITION:				SEVERANCE, AMBIENT TEMPERATURE, ENGINE ON			
TEST NO.	NOMINAL THROTTLE POSITION	ACTUAL THROTTLE POSITION	ENGINE RPM	ENGINE COOLANT TEMPERATURE	THROTTLE POSITION SENSOR READING AT IDLE	TIME TO RETURN TO IDLE	PASS /FAIL
1	25%	25.0%	3564.4	67.6°C	0.0%	130 msec	Pass
2	50%	50.1%	3742.4	67.6°C	0.0%	150 msec	Pass
3	75%	75.2%	3622.5	67.6°C	0.0%	130 msec	Pass
4	100%	100.1%	3738.2	67.6°C	0.0%	140 msec	Pass

THROTTLE CONTROL SYSTEM CONDITION:				SEVERANCE, AMBIENT TEMPERATURE, ENGINE OFF			
TEST NO.	NOMINAL THROTTLE POSITION	ACTUAL THROTTLE POSITION	ENGINE RPM	ENGINE COOLANT TEMPERATURE	THROTTLE POSITION SENSOR READING AT IDLE	TIME TO RETURN TO IDLE	PASS /FAIL
1	25%	25.1%				160 msec	Pass
2	50%	50.0%				140 msec	Pass
3	75%	75.0%				160 msec	Pass
4	100%	100.0 %				160 msec	Pass

RETURN TIME REQUIREMENTS:

1 second (1000 msec) for vehicles less than 4536 kg.

2 seconds (2000 msec) for vehicles more than 4536 kg.

3 seconds (3000 msec) for vehicle exposed to -18°C or less.

TEST STATUS:	PASSED —	x	FAILED —	
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RECORDED BY: RUPESH B. PATEL DATE: 07/11/06

APPROVED BY: MICHAEL L. DUNLAP DATE: 07/11/06

APPENDIX A
PHOTOGRAPHS



2006 DODGE DAKOTA
NHTSA NO. C60302
FMVSS NO. 124

Figure A-1: Front View of Vehicle



2006 DODGE DAKOTA
NHTSA NO. C60302
FMVSS NO. 124

Figure A-2: Left Side View of Vehicle



2006 DODGE DAKOTA
NHTSA NO. C60302
FMVSS NO. 124

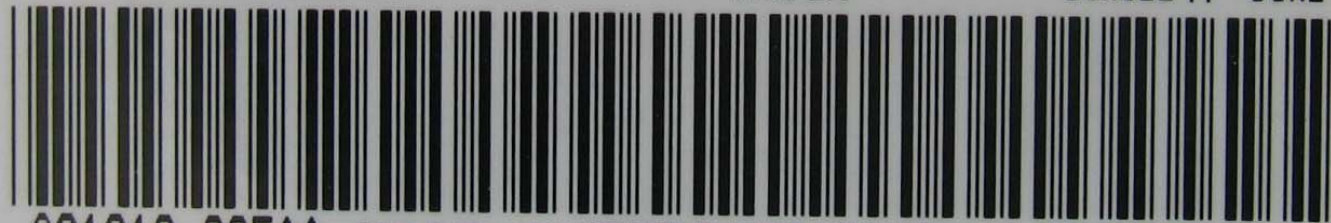
Figure A-3: Right Side View of Vehicle

MFD BY DAIMLERCHRYSLER CORPORATION DATE OF MFR 9-05 GVWR 2727 KG(06010 LB)

GAWR FRONT WITH TIRES RIMS AT COLD
1407 KG(3100 LB) P245/70R16 16X7.0 240 KPA(35 PSI)
GAWR REAR WITH TIRES RIMS AT COLD
1633 KG(3600 LB) P245/70R16 16X7.0 240 KPA(35 PSI)

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

VIN: 1D7HE28K46S526110 TYPE: TRUCK SINGLE X DUAL



MDH: 091219 235AA PNT:PW7 VEHICLE MADE IN U.S.A. TRM:C5D5 4648503

Figure A-4: Vehicle's Certification Label



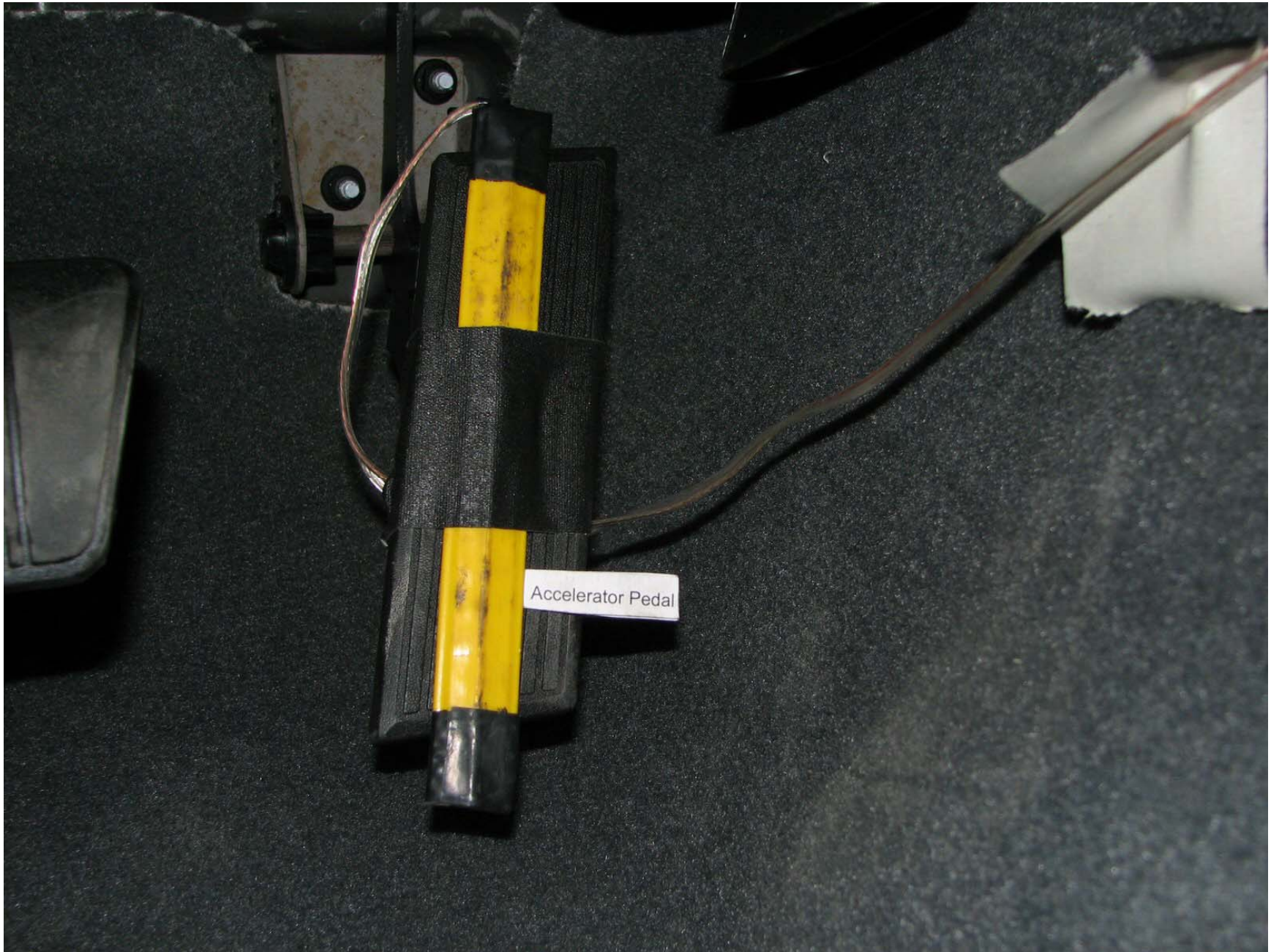
2006 DODGE DAKOTA
NHTSA NO. C60302
FMVSS NO. 124

Figure A-5: Vehicle's Tire Information Label



2006 DODGE DAKOTA
NHTSA NO. C60302
FMVSS NO. 124

Figure A-6: Vehicle's Engine Compartment

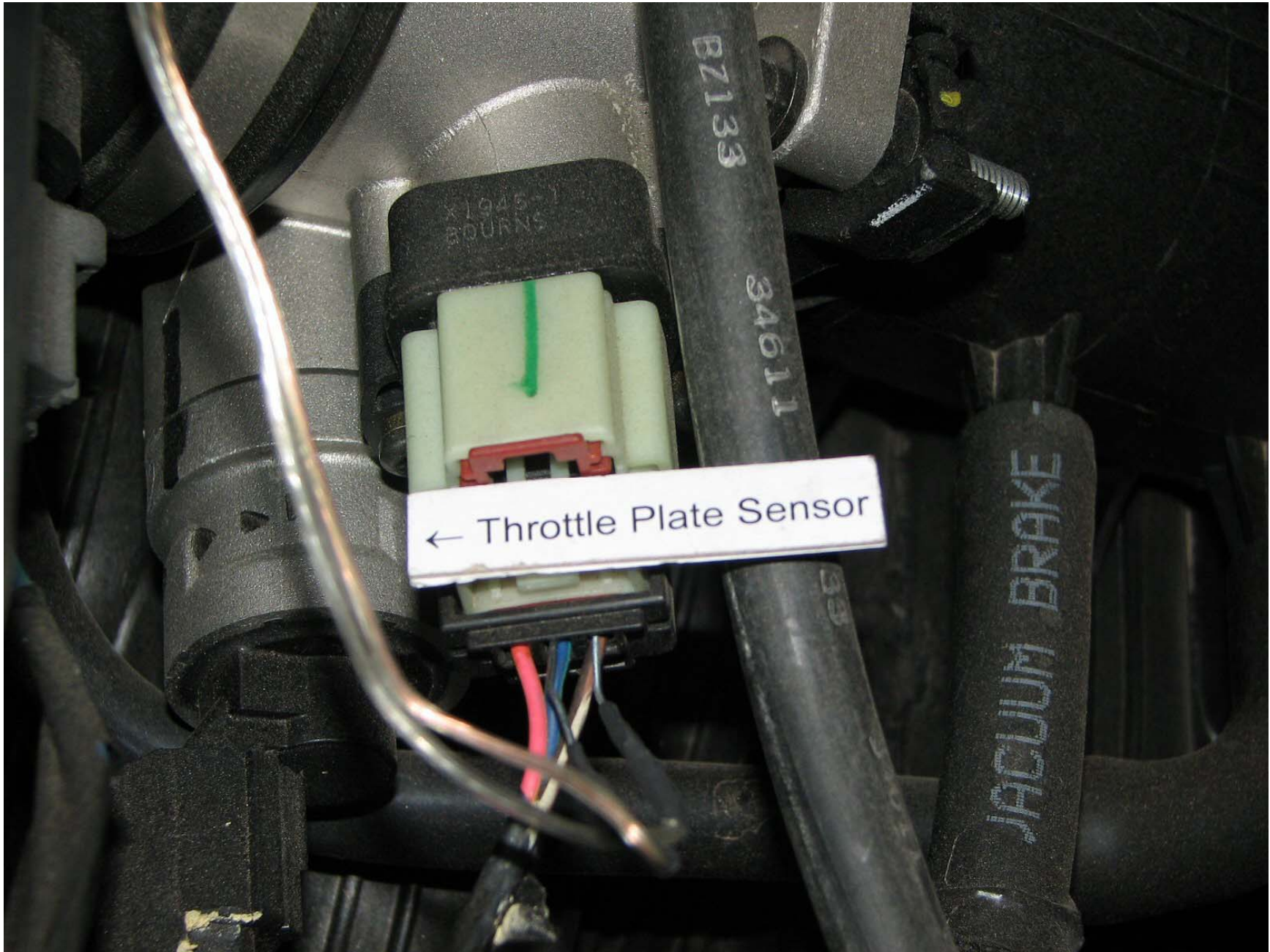


2006 DODGE DAKOTA
NHTSA NO. C60302
FMVSS NO. 124

Figure A-7: Vehicle's Accelerator Pedal Assembly



2006 DODGE DAKOTA Figure A-8: Spring 1 and 2 Located on Vehicle's Accelerator Control System (Throttle Body)
NHTSA NO. C60302
FMVSS NO. 124



2006 DODGE DAKOTA
NHTSA NO. C60302
FMVSS NO. 124

Figure A-9: Throttle Plate Sensor Located on Vehicle's Accelerator Control System



2006 DODGE DAKOTA
NHTSA NO. C60302
FMVSS NO. 124

Figure A-10: Electronic Control Module



2006 DODGE DAKOTA
NHTSA NO. C60302
FMVSS NO. 124

Figure A-11: Vehicle Test Setup



2006 DODGE DAKOTA
NHTSA NO. C60302
FMVSS NO. 124

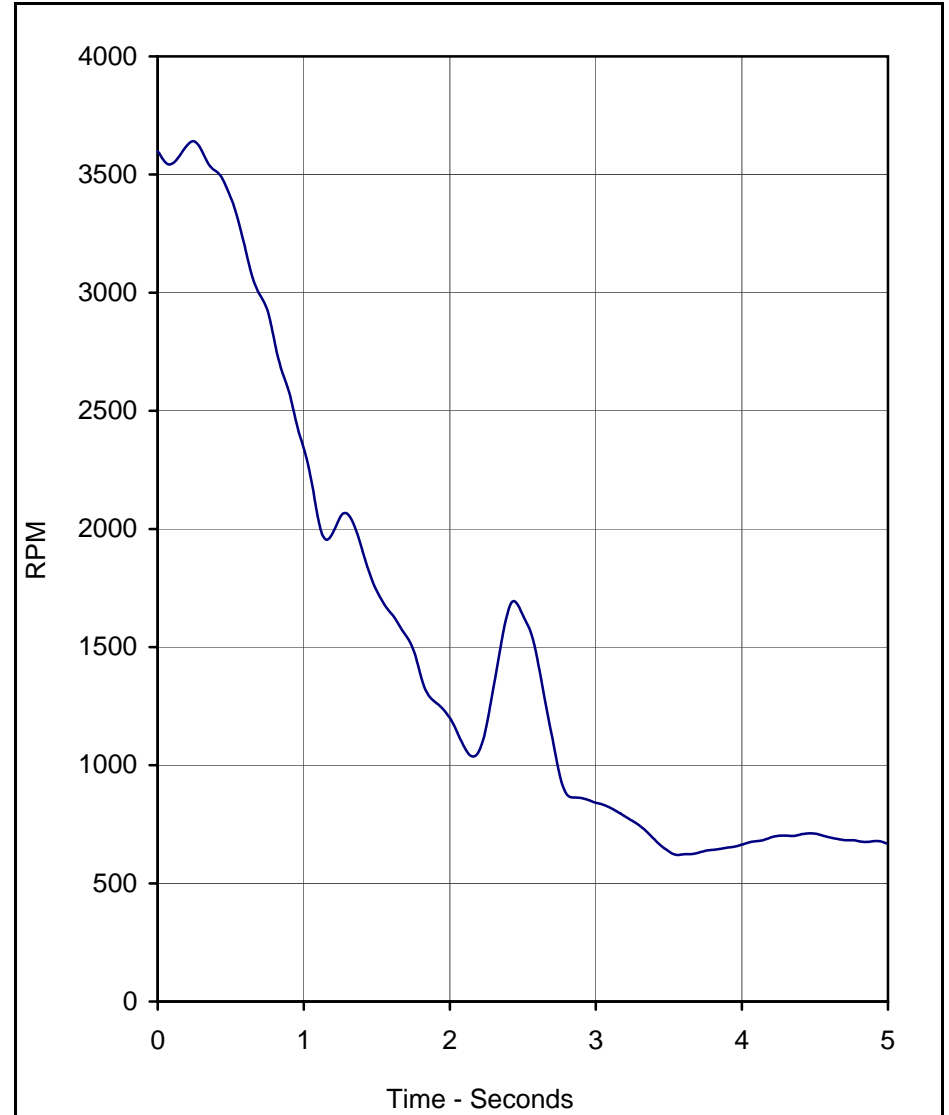
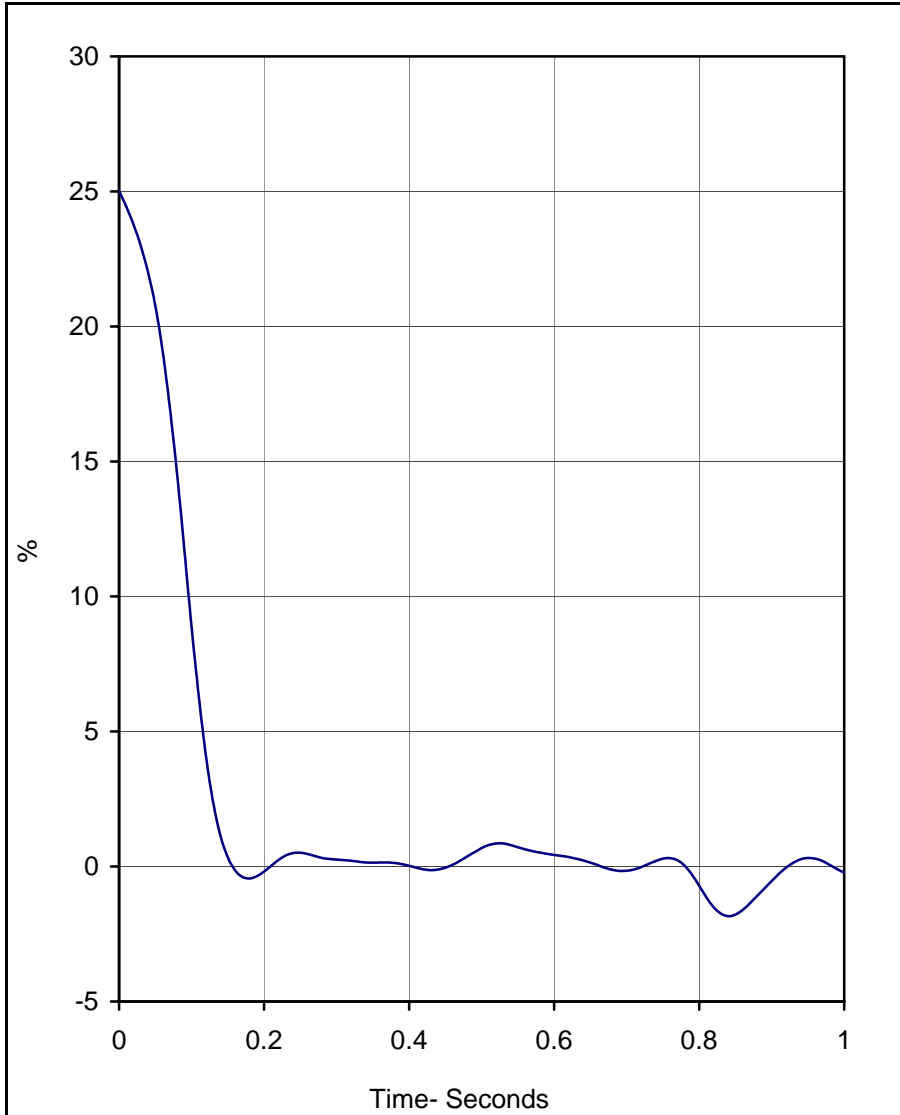
Figure A-12: Instrumentation



2006 DODGE DAKOTA
NHTSA NO. C60302
FMVSS NO. 124

Figure A-13: Severance of Throttle Body

APPENDIX B
DATA PLOTS



Curve Description	CURNO	Type
Throttle Position vs. Time	001	FIL

Curve Description	CURNO	Type
Engine RPM vs. Time	002	FIL

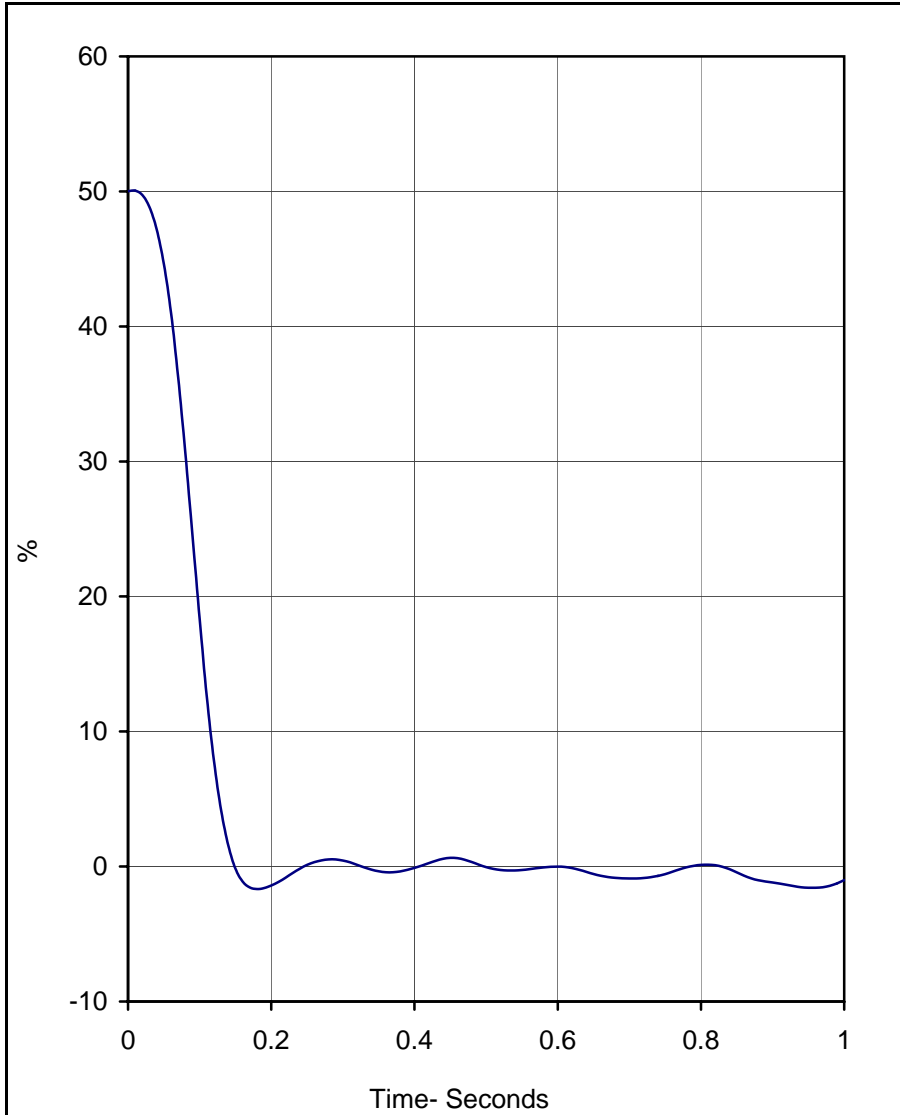
Units	Max	Time	Return Time (msec)	Filter (Hz)
%	25.0	0.0	150.0	5

Units	Max	Time	Min	Time	Filter (Hz)
RPM	3640.9	0.2	620.4	3.6	5

Test Program: FMVSS 124 (Normal Operation)
 Test Vehicle: 2006 Dodge Dakota 4-Door Truck

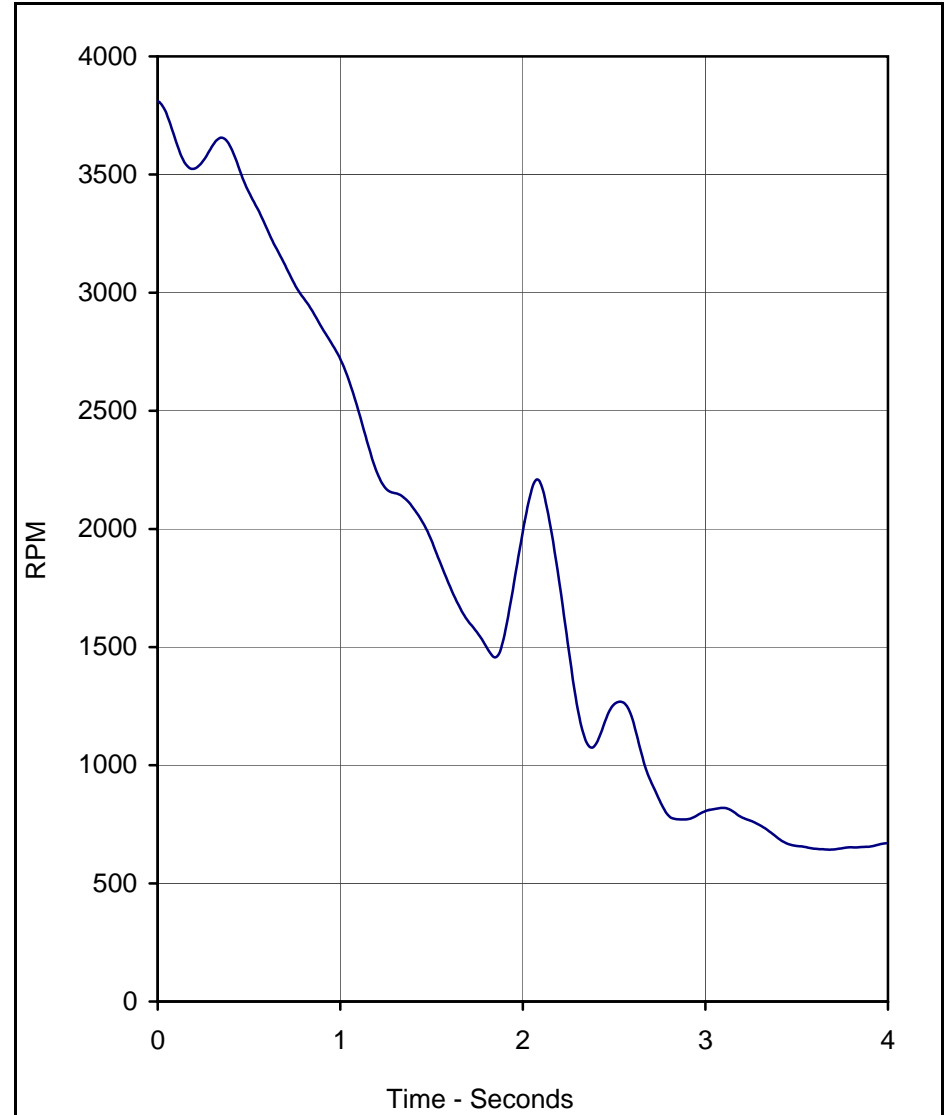
Test Date: 07/11/06
 NHTSA No.: C60302





Curve Description	CURNO	Type
Throttle Position vs. Time	001	FIL

Units	Max	Time	Return Time (msec)	Filter (Hz)
%	50.1	0.0	150.0	5



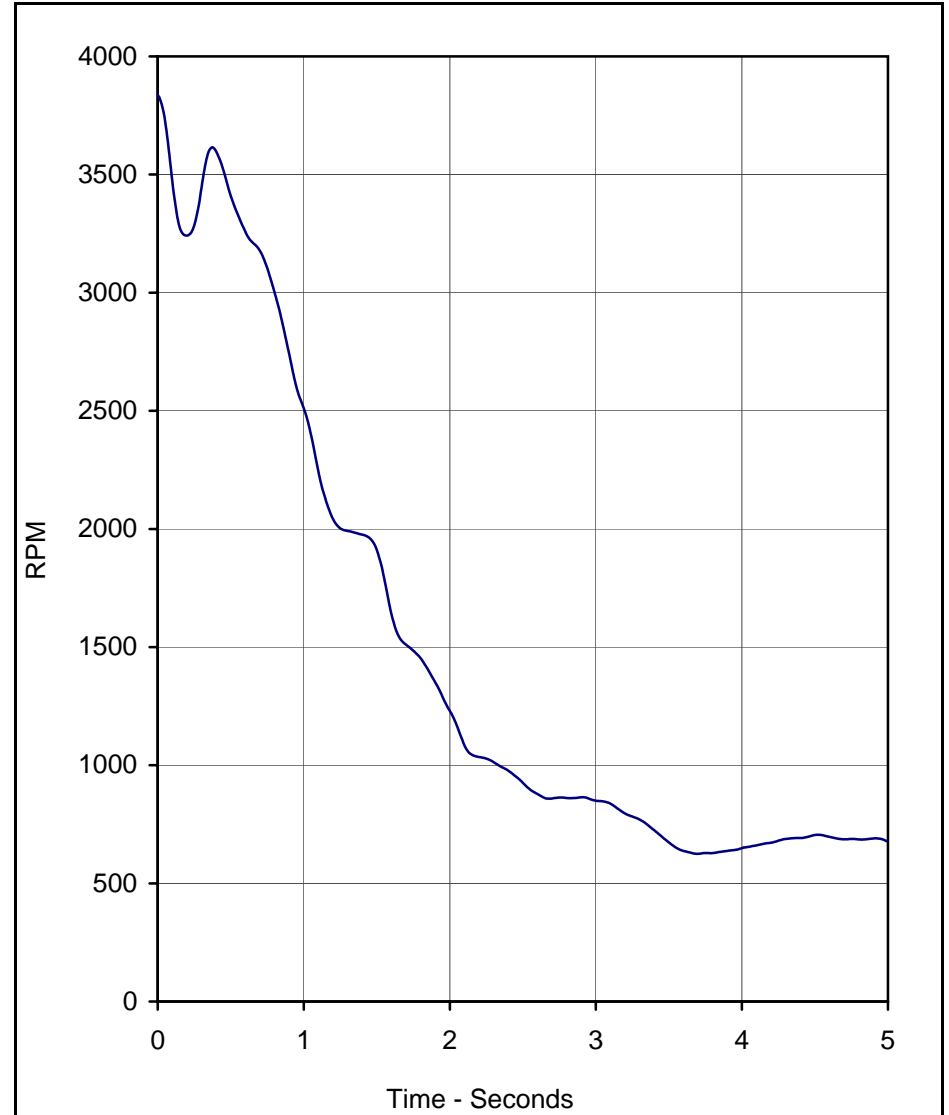
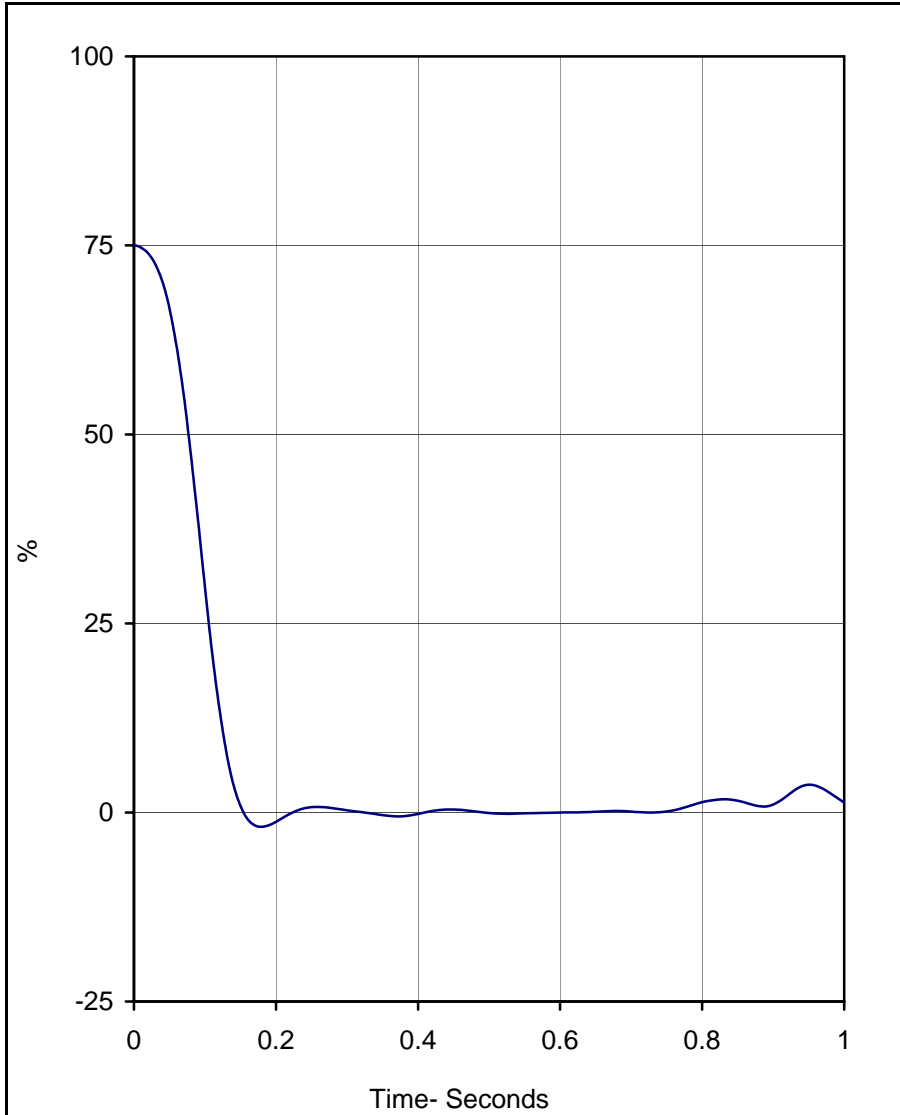
Curve Description	CURNO	Type
Engine RPM vs. Time	002	FIL

Units	Max	Time	Min	Time	Filter (Hz)
RPM	3811.7	0.0	642.9	3.7	5

Test Program: FMVSS 124 (Normal Operation)
 Test Vehicle: 2006 Dodge Dakota 4-Door Truck

Test Date: 07/11/06
 NHTSA No.: C60302





Curve Description	CURNO	Type
Throttle Position vs. Time	001	FIL

Curve Description	CURNO	Type
Engine RPM vs. Time	002	FIL

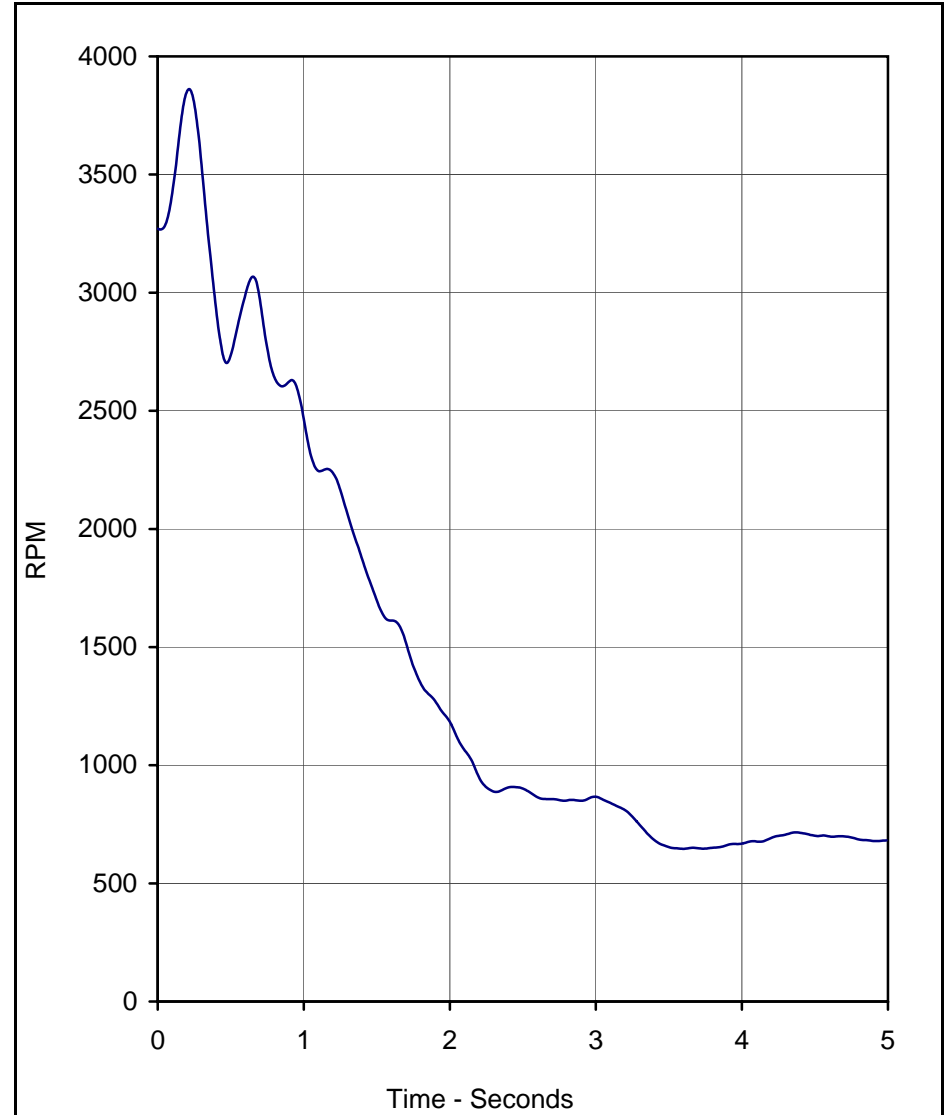
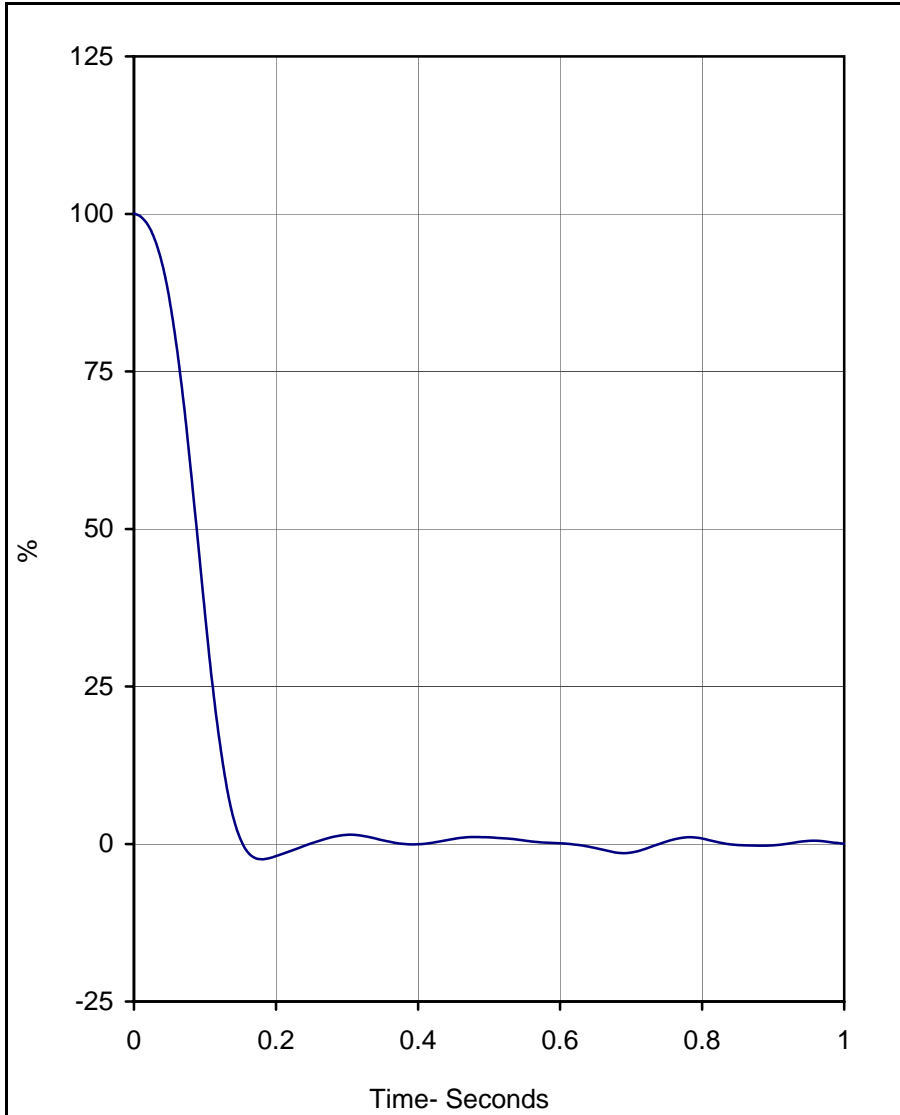
Units	Max	Time	Return Time (msec)	Filter (Hz)
%	75.1	0.0	160.0	5

Units	Max	Time	Min	Time	Filter (Hz)
RPM	3837.0	0.0	624.8	3.7	5

Test Program: FMVSS 124 (Normal Operation)
 Test Vehicle: 2006 Dodge Dakota 4-Door Truck

Test Date: 07/11/06
 NHTSA No.: C60302





Curve Description	CURNO	Type
Throttle Position vs. Time	001	FIL

Curve Description	CURNO	Type
Engine RPM vs. Time	002	FIL

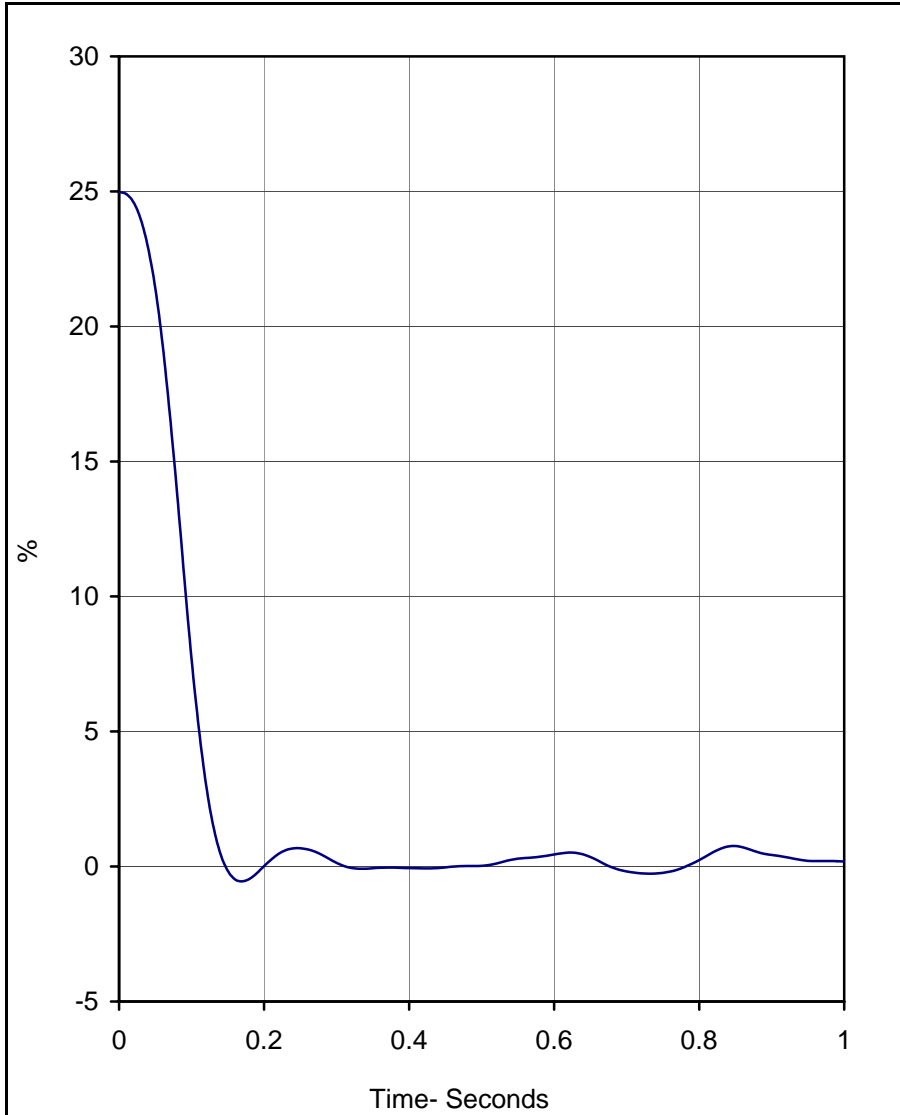
Units	Max	Time	Return Time (msec)	Filter (Hz)
%	100.1	0.0	160.0	5

Units	Max	Time	Min	Time	Filter (Hz)
RPM	3860.6	0.2	646.2	3.6	5

Test Program: FMVSS 124 (Normal Operation)
 Test Vehicle: 2006 Dodge Dakota 4-Door Truck

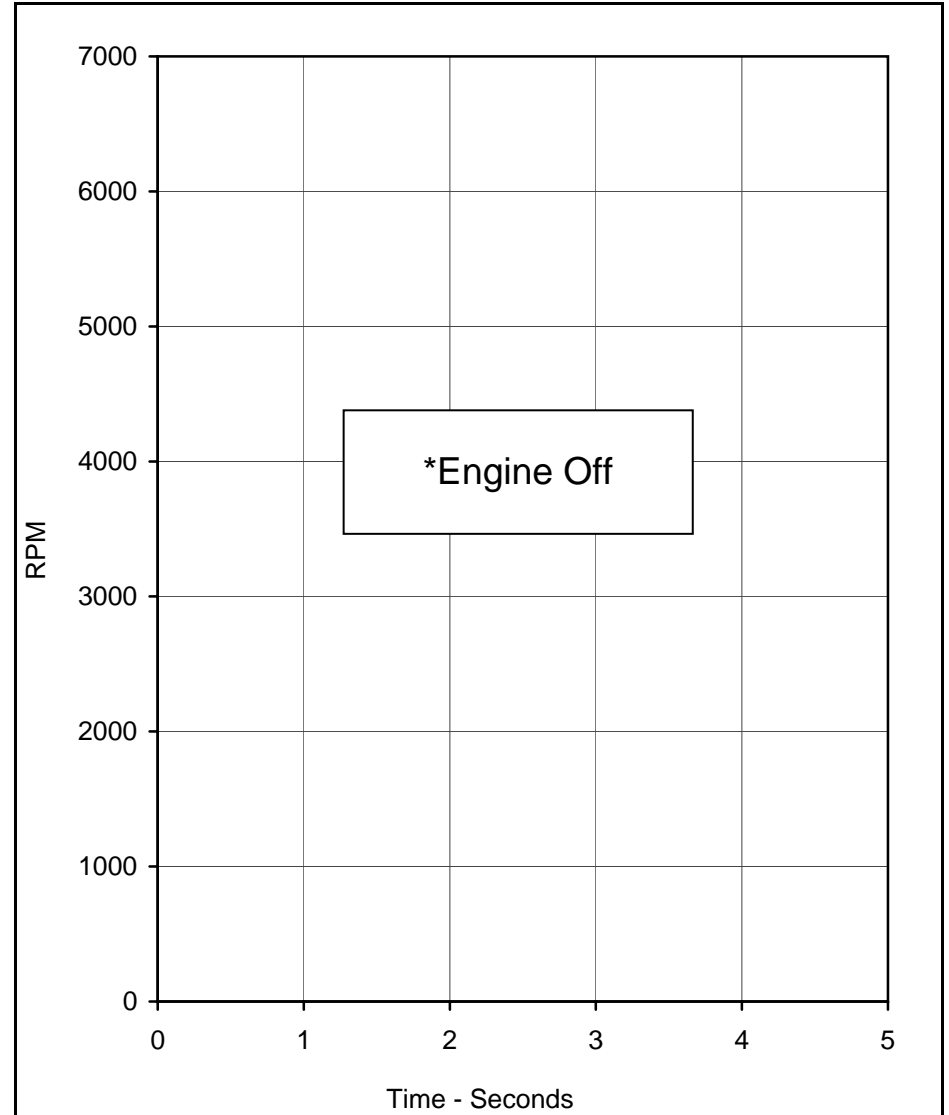
Test Date: 07/11/06
 NHTSA No.: C60302





Curve Description	CURNO	Type
Throttle Position vs. Time	001	FIL

Units	Max	Time	Return Time (msec)	Filter (Hz)
%	25.0	0.0	140.0	5



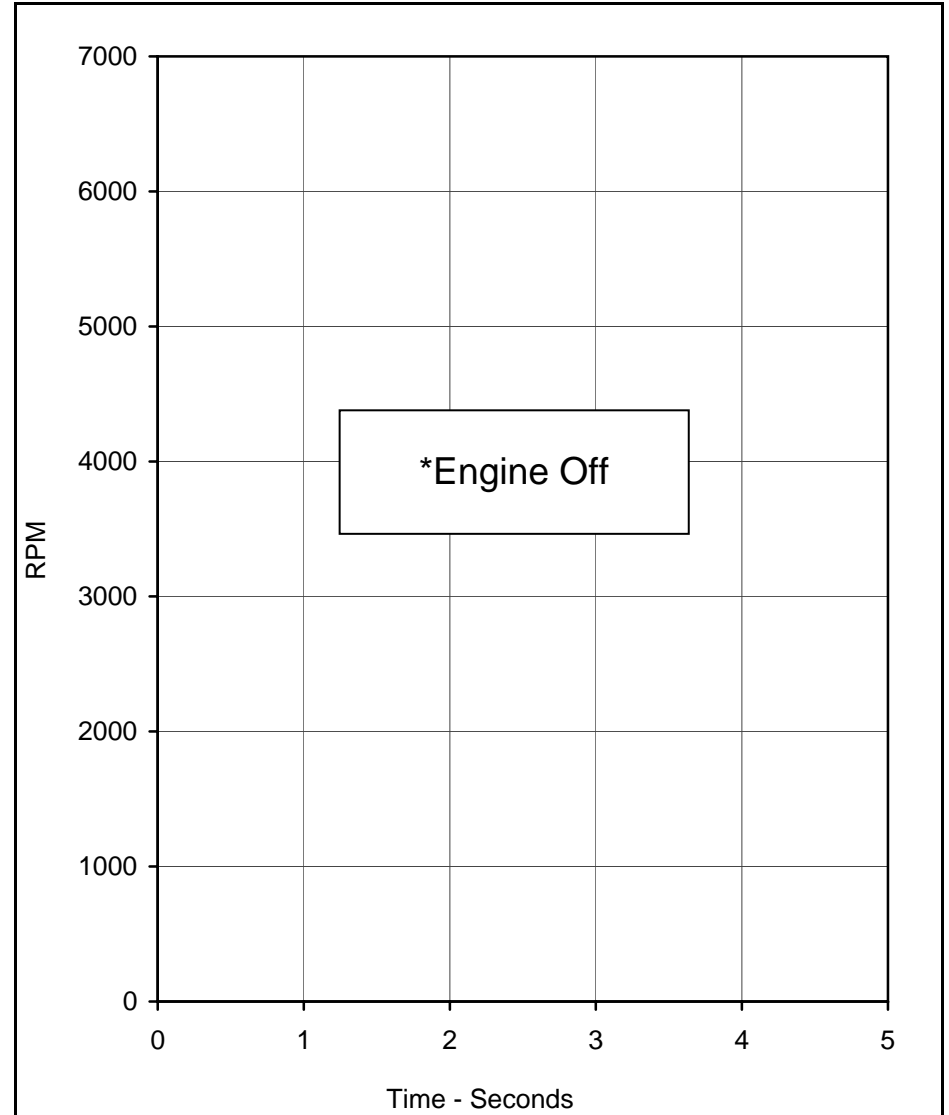
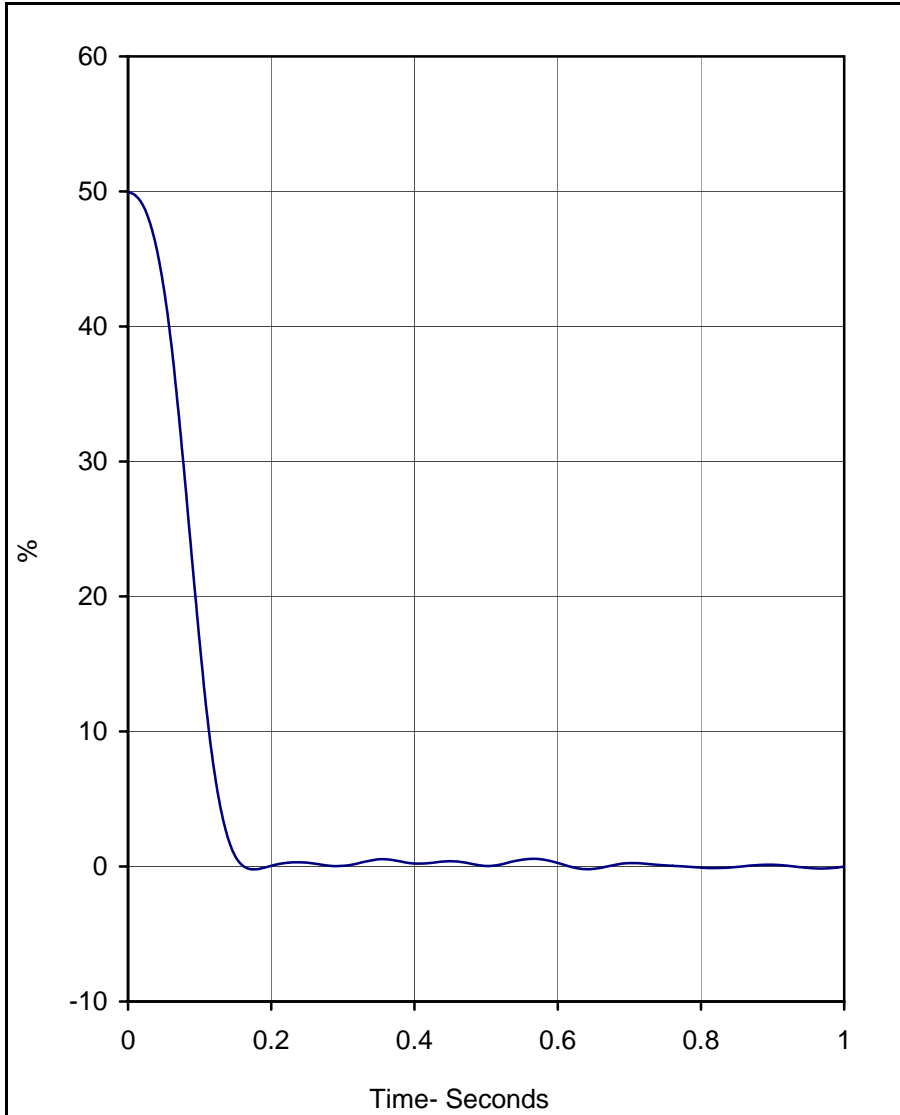
Curve Description	CURNO	Type
Engine RPM vs. Time	002	FIL

Units	Max	Time	Min	Time	Filter (Hz)
RPM					

Test Program: FMVSS 124 (Normal Operation)
 Test Vehicle: 2006 Dodge Dakota 4-Door Truck

Test Date: 07/11/06
 NHTSA No.: C60302





Curve Description	CURNO	Type
Throttle Position vs. Time	001	FIL

Units	Max	Time	Return Time (msec)	Filter (Hz)
%	50.0	0.0	160.0	5

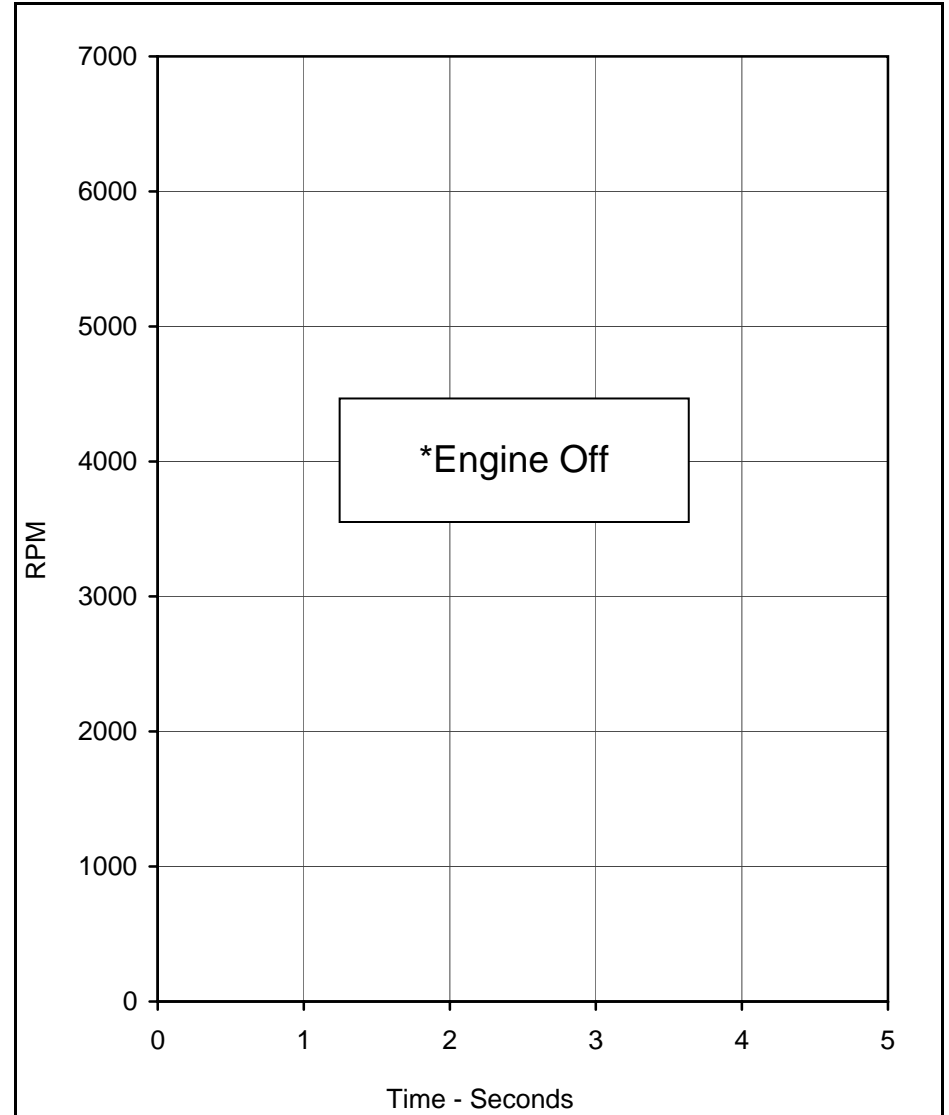
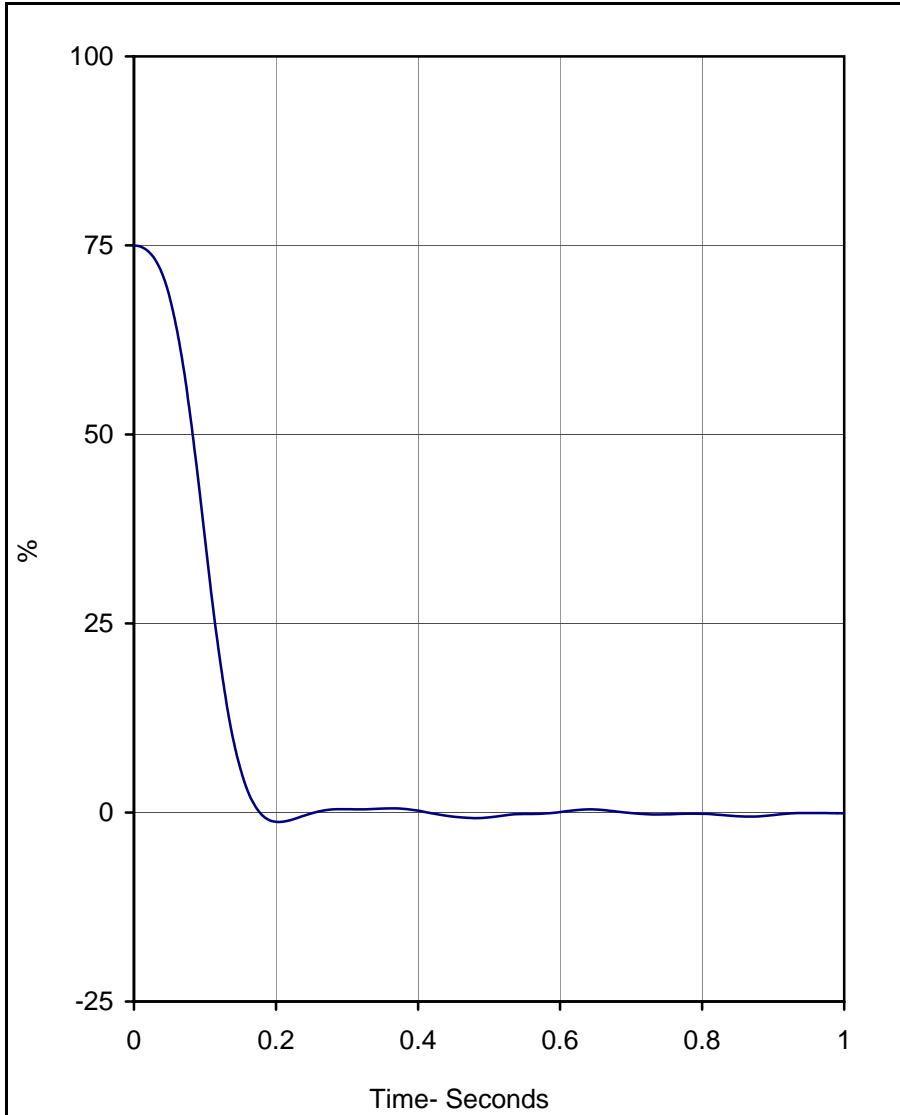
Curve Description	CURNO	Type
Engine RPM vs. Time	002	FIL

Units	Max	Time	Min	Time	Filter (Hz)
RPM					

Test Program: FMVSS 124 (Normal Operation)
 Test Vehicle: 2006 Dodge Dakota 4-Door Truck

Test Date: 07/11/06
 NHTSA No.: C60302





Curve Description	CURNO	Type
Throttle Position vs. Time	001	FIL

Units	Max	Time	Return Time (msec)	Filter (Hz)
%	75.0	0.0	180.0	5

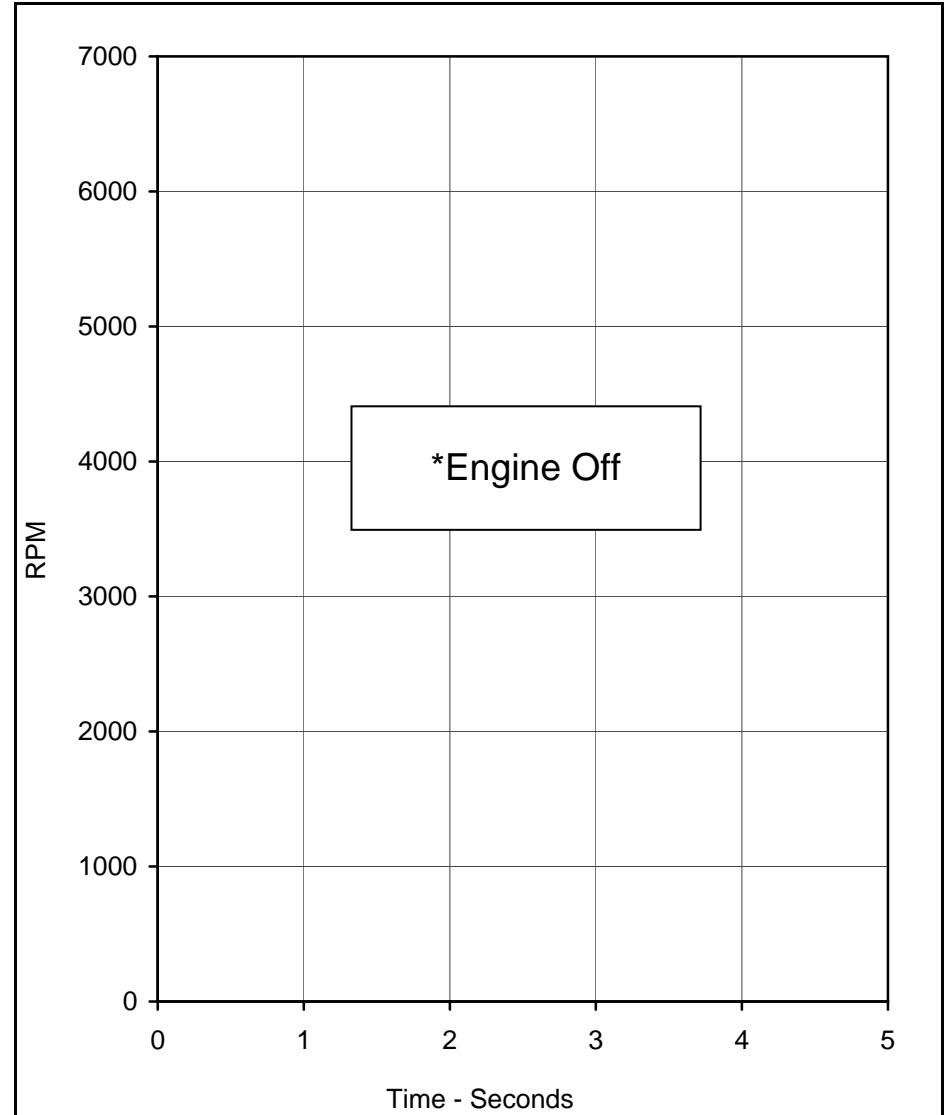
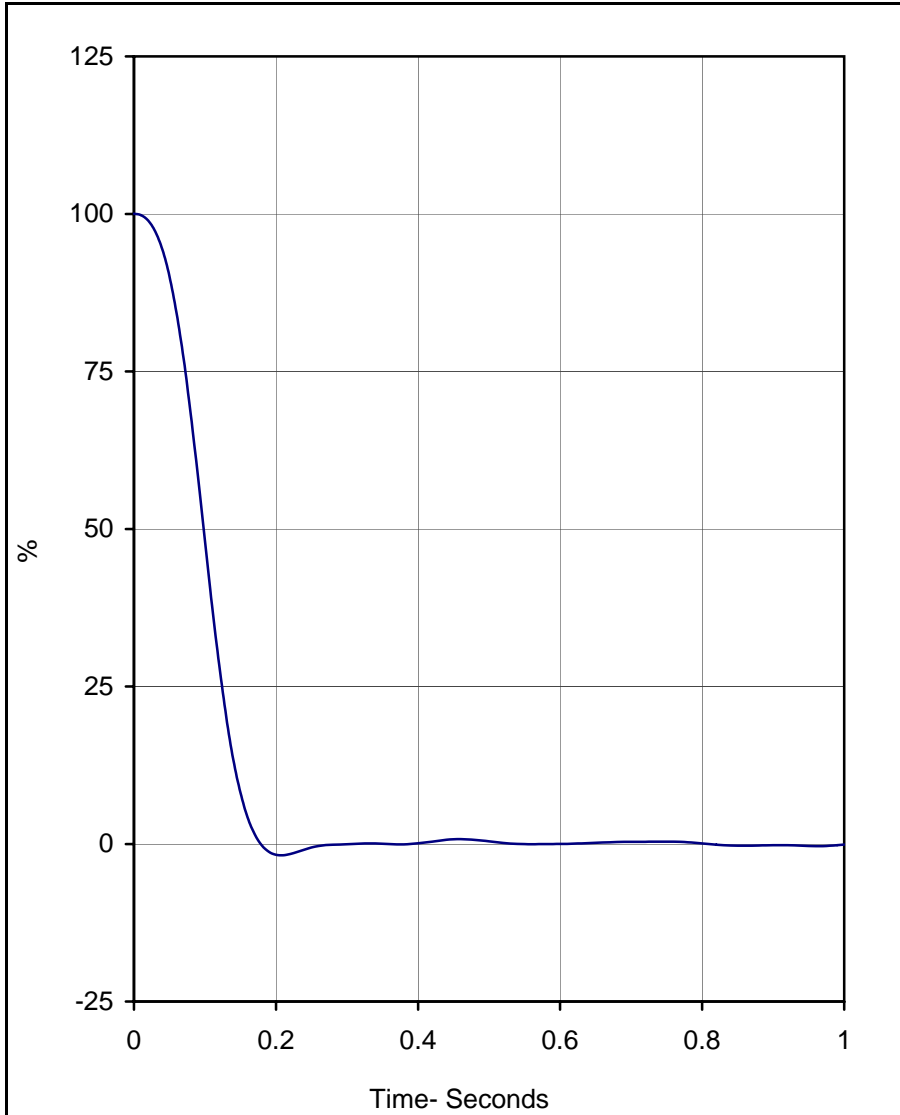
Curve Description	CURNO	Type
Engine RPM vs. Time	002	FIL

Units	Max	Time	Min	Time	Filter (Hz)
RPM					

Test Program: FMVSS 124 (Normal Operation)
 Test Vehicle: 2006 Dodge Dakota 4-Door Truck

Test Date: 07/11/06
 NHTSA No.: C60302





Curve Description	CURNO	Type
Throttle Position vs. Time	001	FIL

Units	Max	Time	Return Time (msec)	Filter (Hz)
%	100.0	0.0	180.0	5

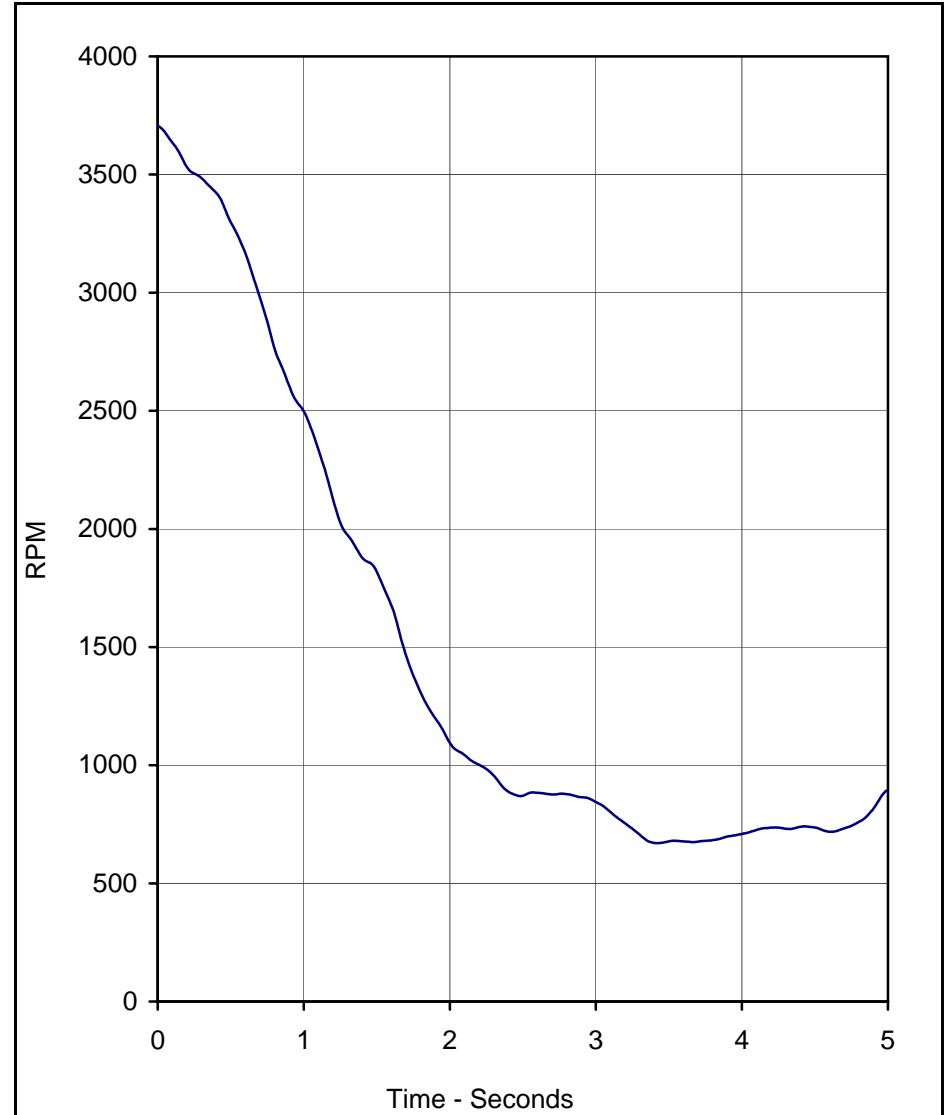
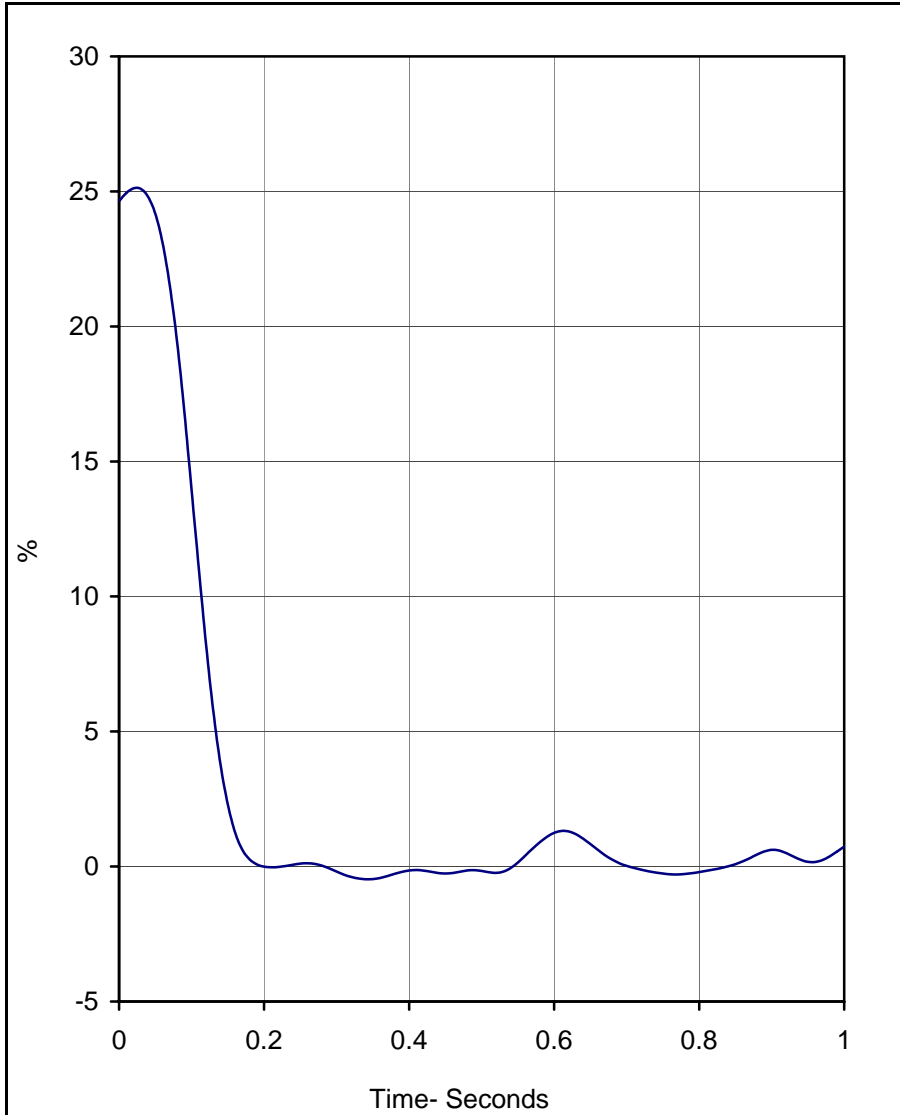
Curve Description	CURNO	Type
Engine RPM vs. Time	002	FIL

Units	Max	Time	Min	Time	Filter (Hz)
RPM					

Test Program: FMVSS 124 (Normal Operation)
 Test Vehicle: 2006 Dodge Dakota 4-Door Truck

Test Date: 07/11/06
 NHTSA No.: C60302





Curve Description	CURNO	Type
Throttle Position vs. Time	001	FIL

Units	Max	Time	Return Time (msec)	Filter (Hz)
%	25.1	0.0	180.0	5

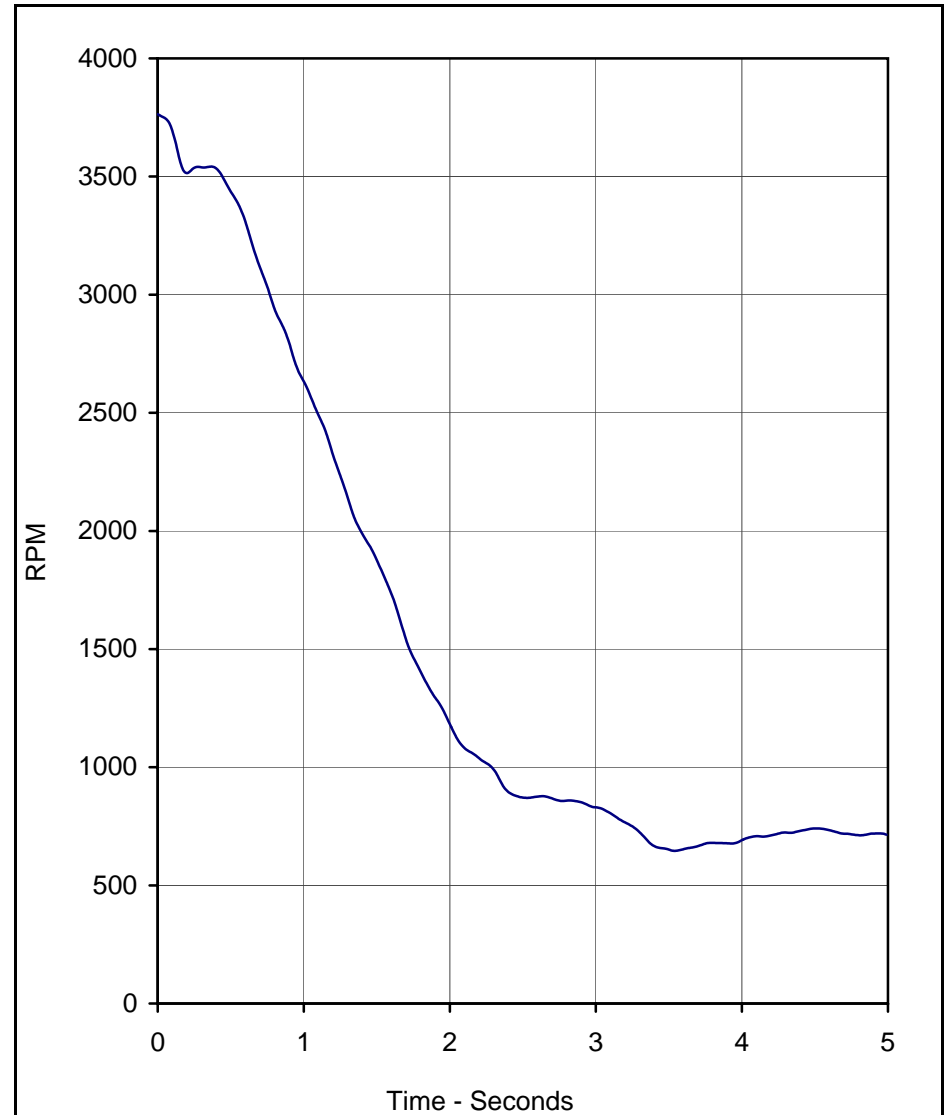
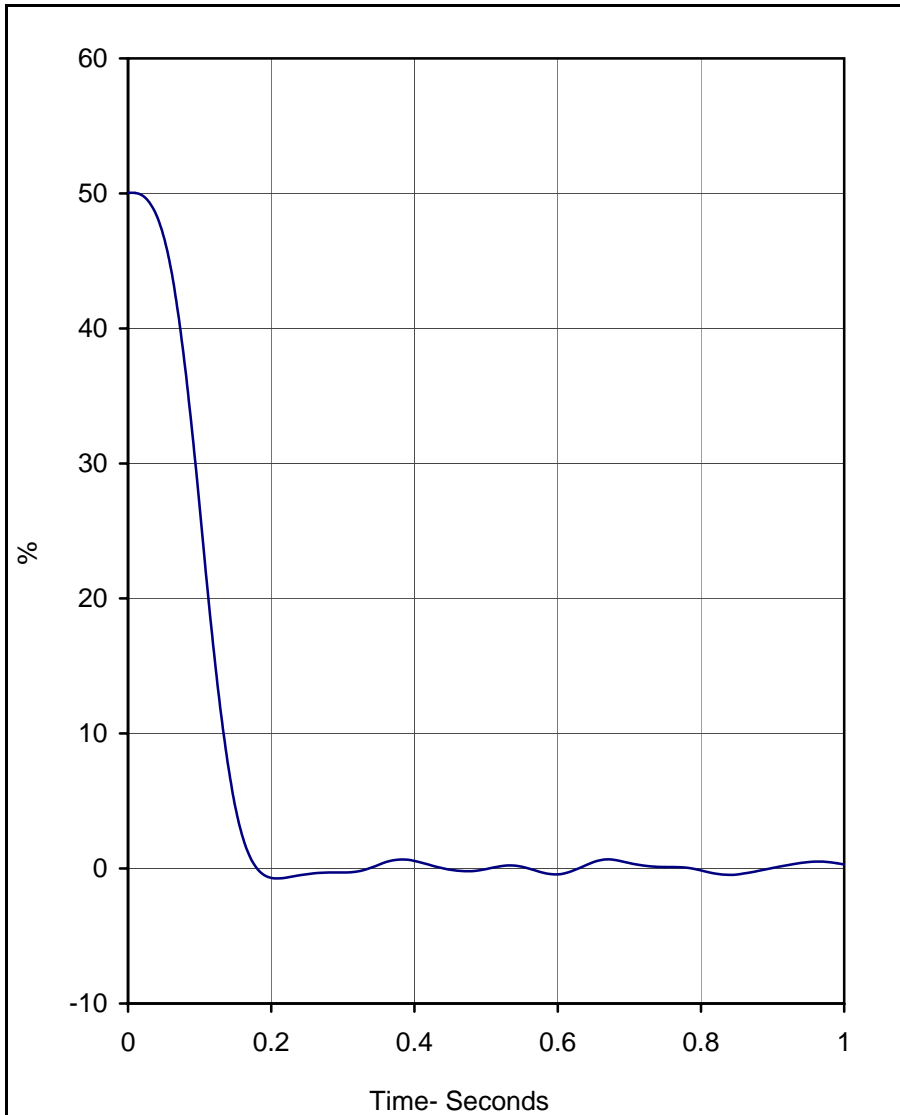
Curve Description	CURNO	Type
Engine RPM vs. Time	002	FIL

Units	Max	Time	Min	Time	Filter (Hz)
RPM	3705.6	0.0	670.4	3.4	5

Test Program: FMVSS 124 (Spring #1 Disconnected)
 Test Vehicle: 2006 Dodge Dakota 4-Door Truck

Test Date: 07/11/06
 NHTSA No.: C60302





Curve Description	CURNO	Type
Throttle Position vs. Time	001	FIL

Curve Description	CURNO	Type
Engine RPM vs. Time	002	FIL

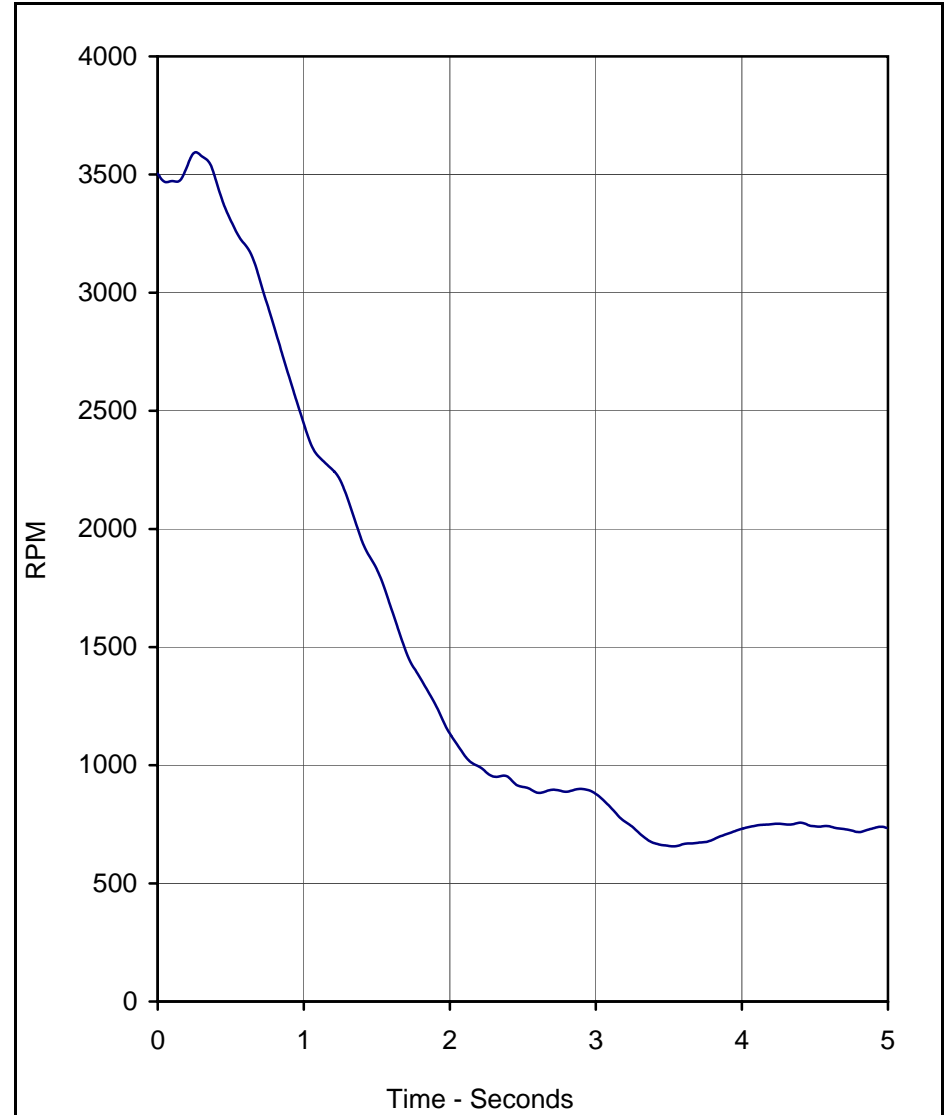
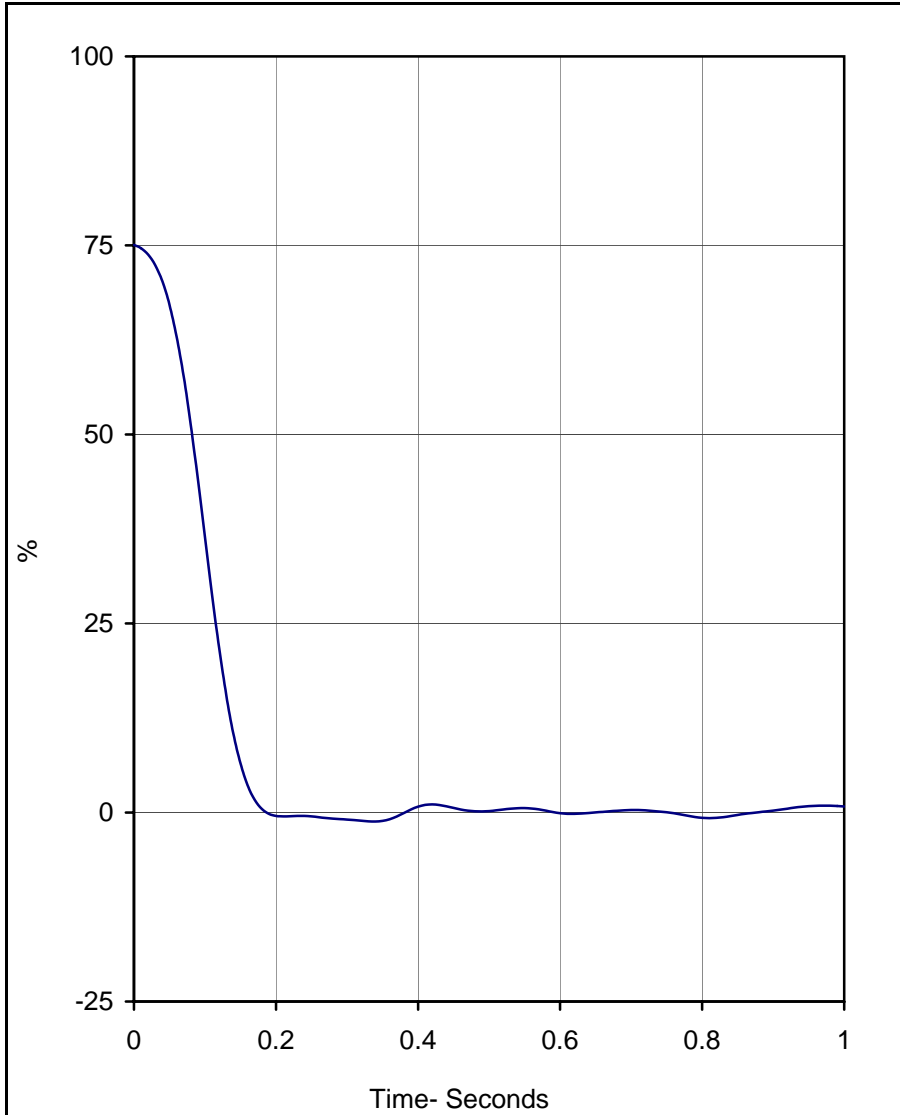
Units	Max	Time	Return Time (msec)	Filter (Hz)
%	50.0	0.0	180.0	5

Units	Max	Time	Min	Time	Filter (Hz)
RPM	3763.7	0.0	646.1	3.5	5

Test Program: FMVSS 124 (Spring #1 Disconnected)
 Test Vehicle: 2006 Dodge Dakota 4-Door Truck

Test Date: 07/11/06
 NHTSA No.: C60302





Curve Description	CURNO	Type
Throttle Position vs. Time	001	FIL

Curve Description	CURNO	Type
Engine RPM vs. Time	002	FIL

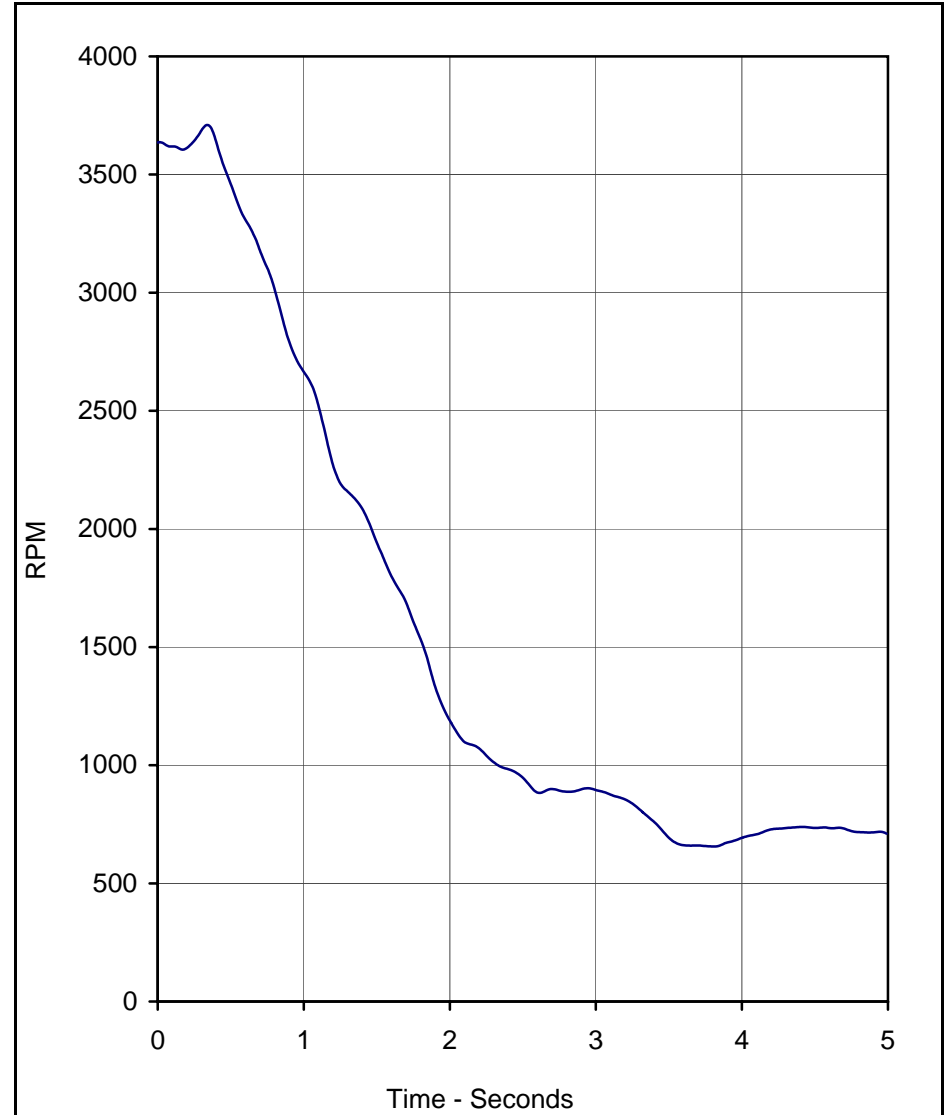
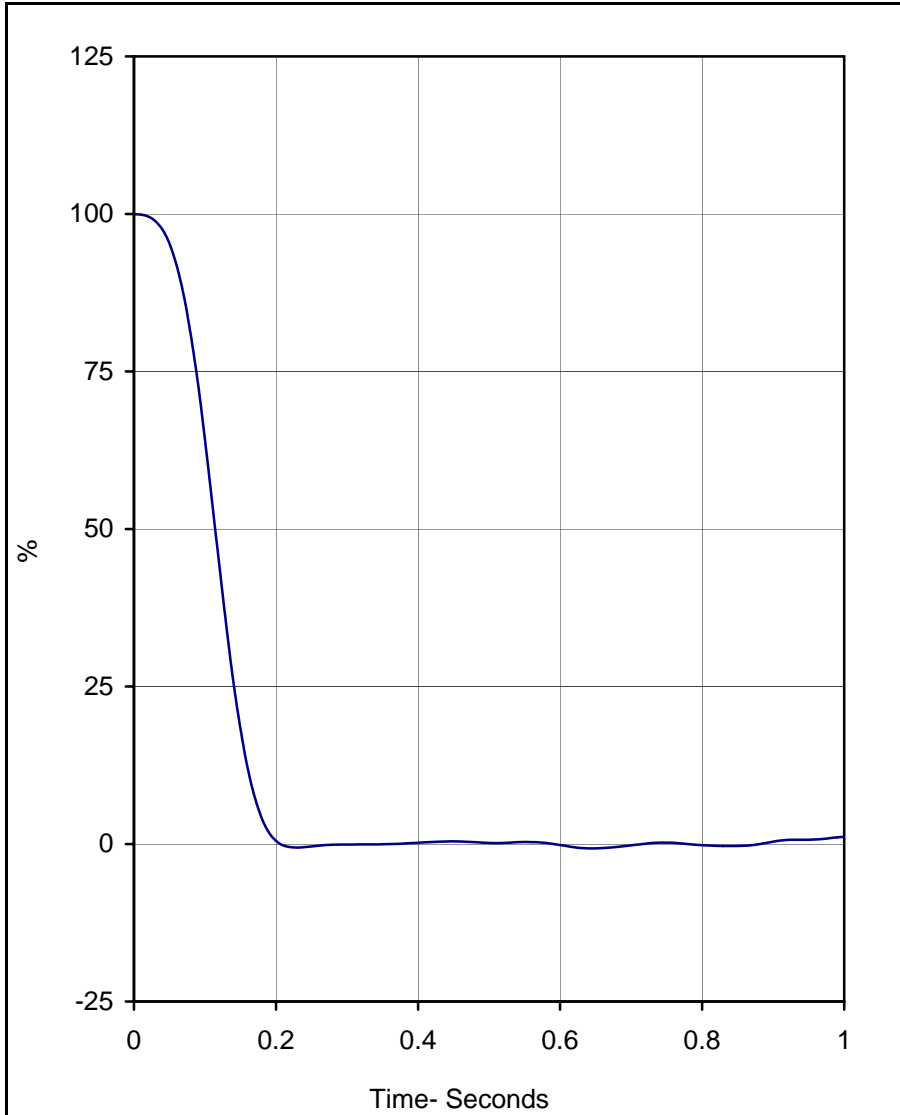
Units	Max	Time	Return Time (msec)	Filter (Hz)
%	75.1	0.0	180.0	5

Units	Max	Time	Min	Time	Filter (Hz)
RPM	3594.2	0.3	656.7	3.5	5

Test Program: FMVSS 124 (Spring #1 Disconnected)
 Test Vehicle: 2006 Dodge Dakota 4-Door Truck

Test Date: 07/11/06
 NHTSA No.: C60302





Curve Description	CURNO	Type
Throttle Position vs. Time	001	FIL

Units	Max	Time	Return Time (msec)	Filter (Hz)
%	99.9	0.0	210.0	5

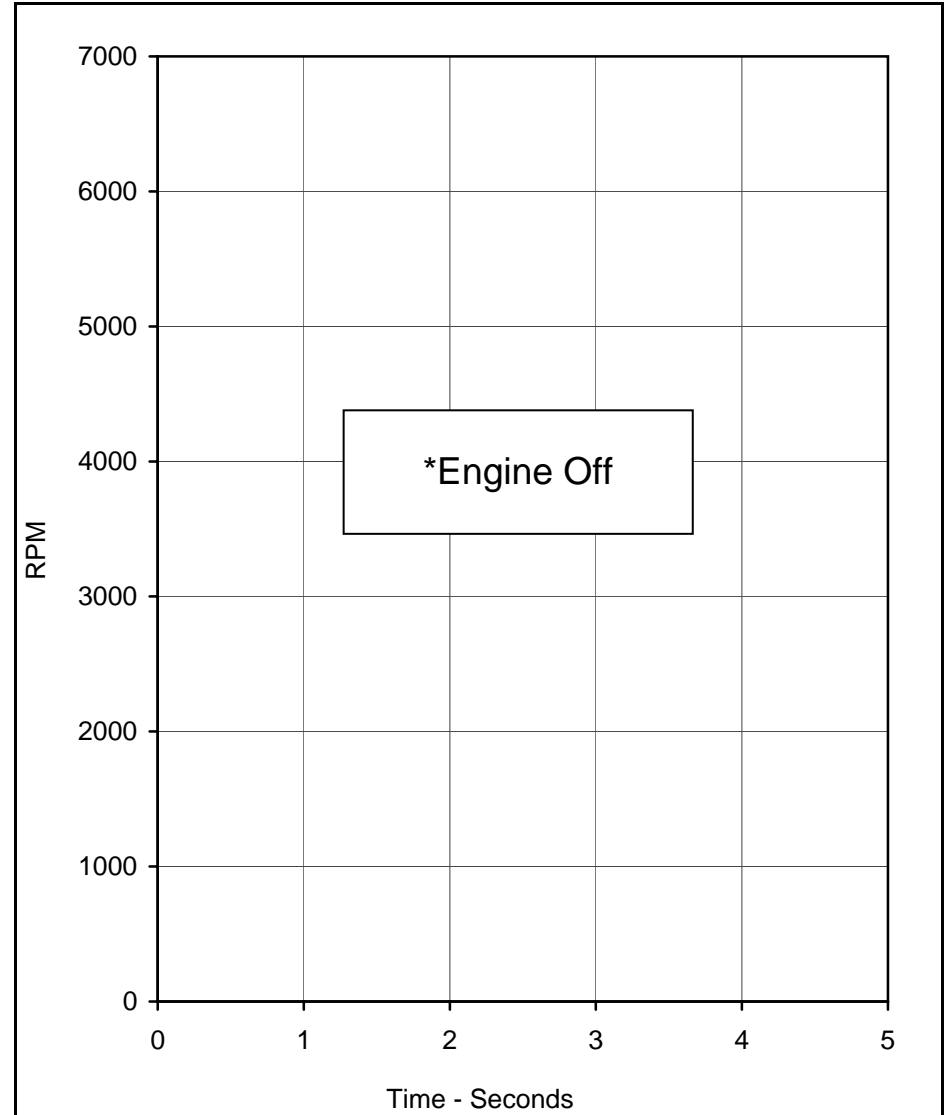
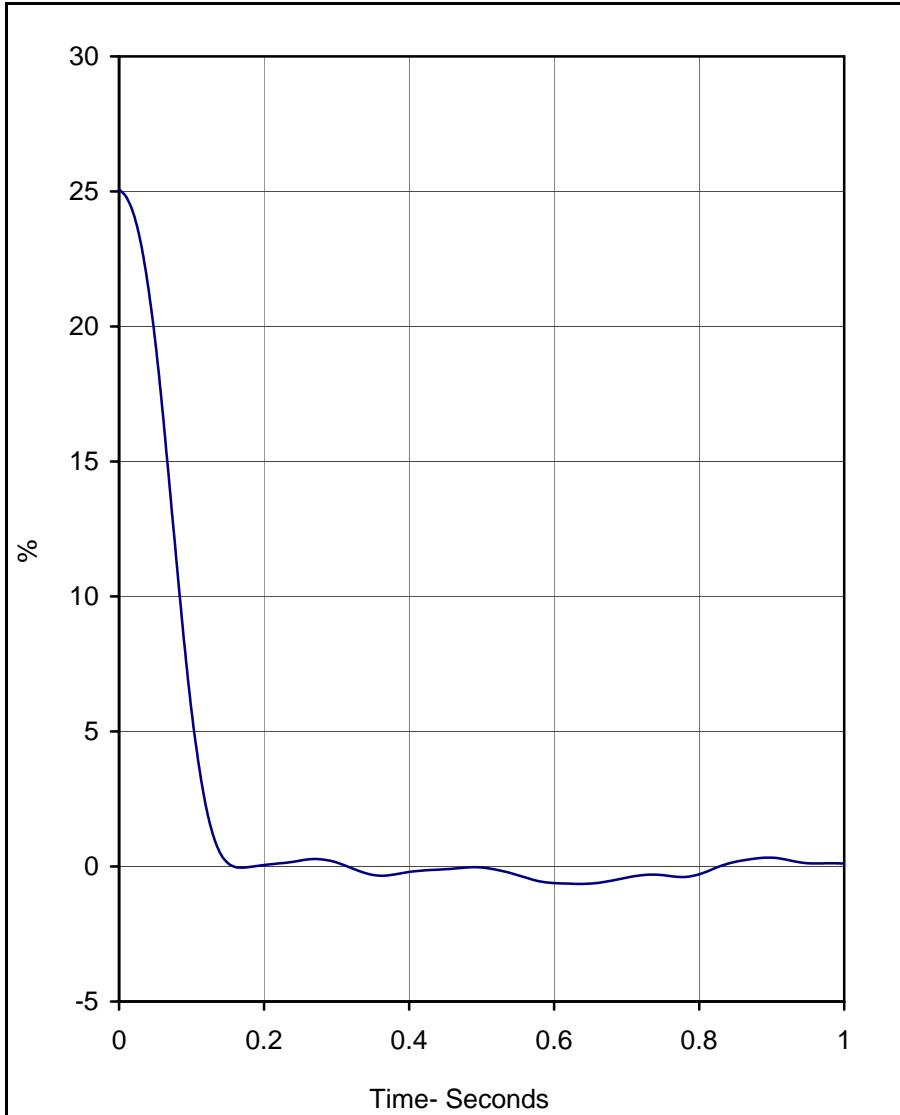
Curve Description	CURNO	Type
Engine RPM vs. Time	002	FIL

Units	Max	Time	Min	Time	Filter (Hz)
RPM	3709.8	0.3	655.9	3.8	5

Test Program: FMVSS 124 (Spring #1 Disconnected)
 Test Vehicle: 2006 Dodge Dakota 4-Door Truck

Test Date: 07/11/06
 NHTSA No.: C60302





Curve Description	CURNO	Type
Throttle Position vs. Time	001	FIL

Curve Description	CURNO	Type
Engine RPM vs. Time	002	FIL

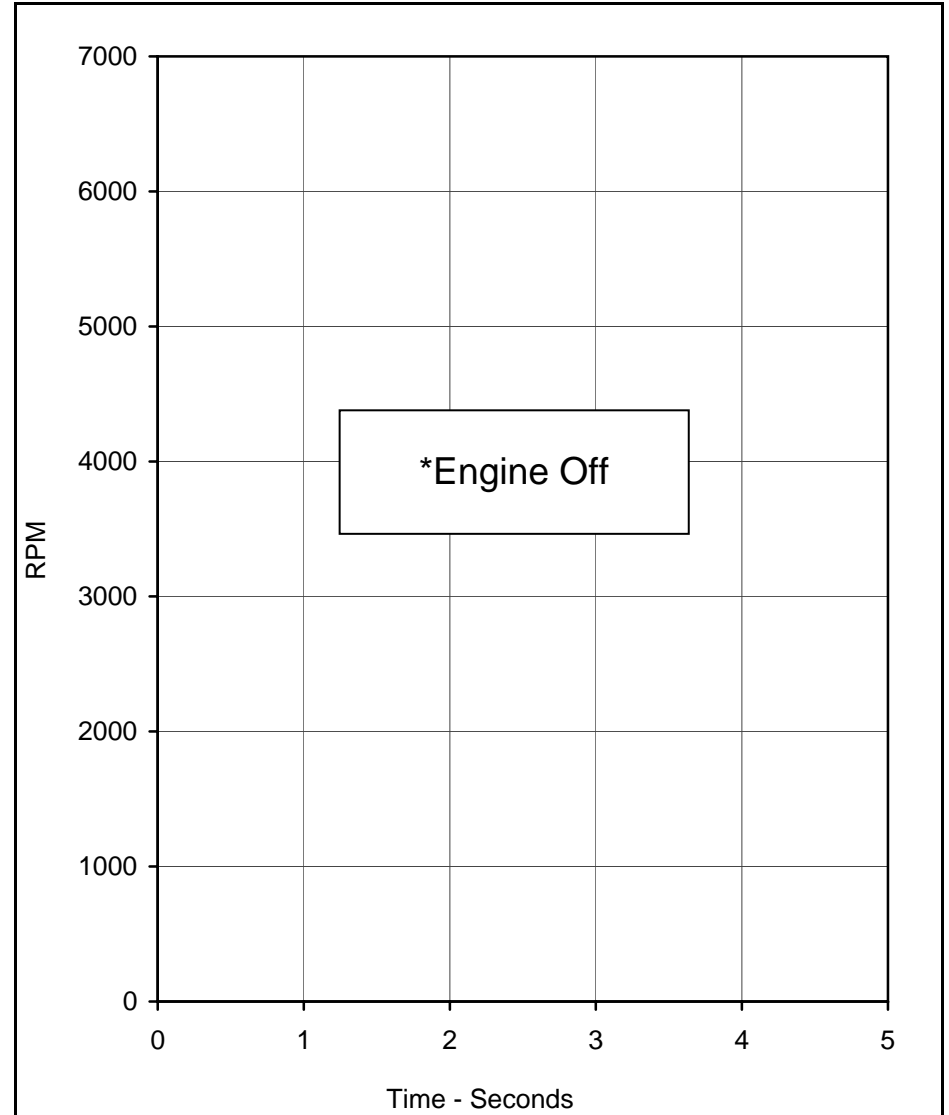
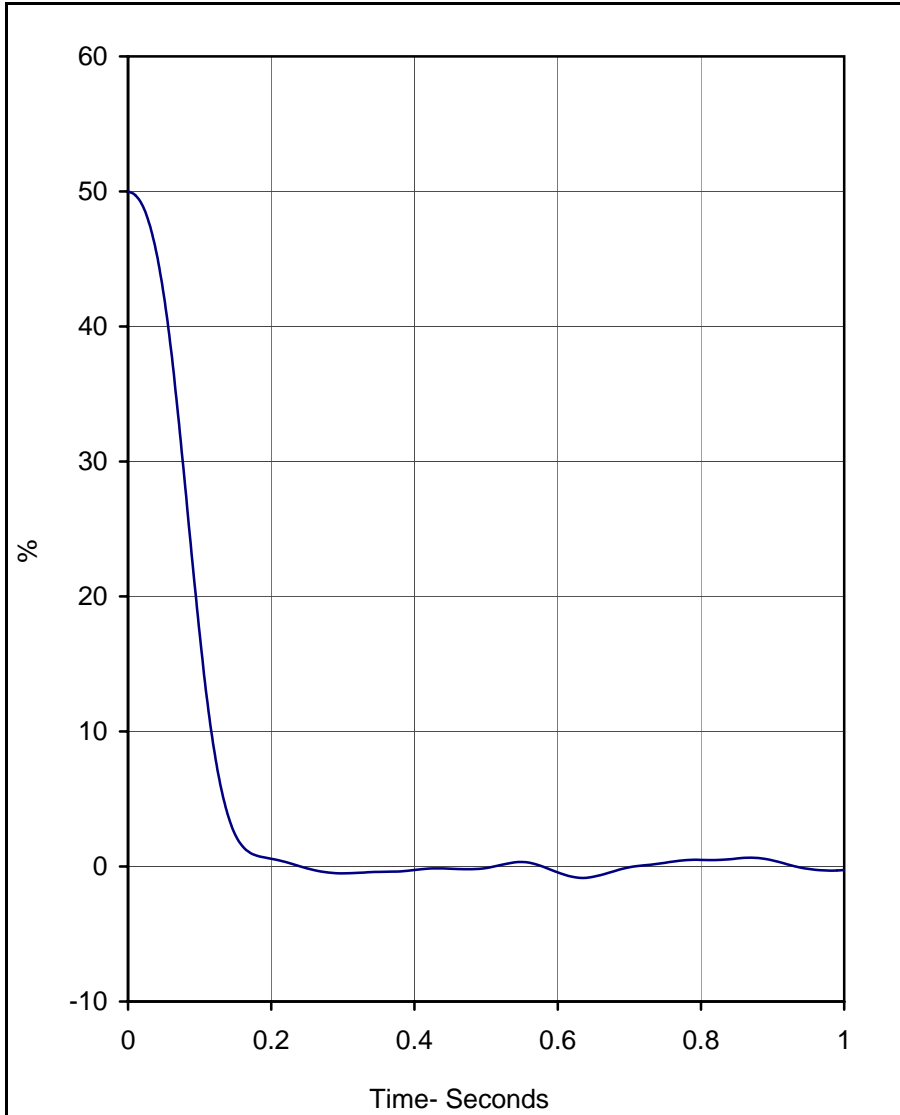
Units	Max	Time	Return Time (msec)	Filter (Hz)
%	25.1	0.0	140.0	5

Units	Max	Time	Min	Time	Filter (Hz)
RPM					

Test Program: FMVSS 124 (Spring #1 Disconnected)
 Test Vehicle: 2006 Dodge Dakota 4-Door Truck

Test Date: 07/11/06
 NHTSA No.: C60302





Curve Description	CURNO	Type
Throttle Position vs. Time	001	FIL

Units	Max	Time	Return Time (msec)	Filter (Hz)
%	50.0	0.0	210.0	5

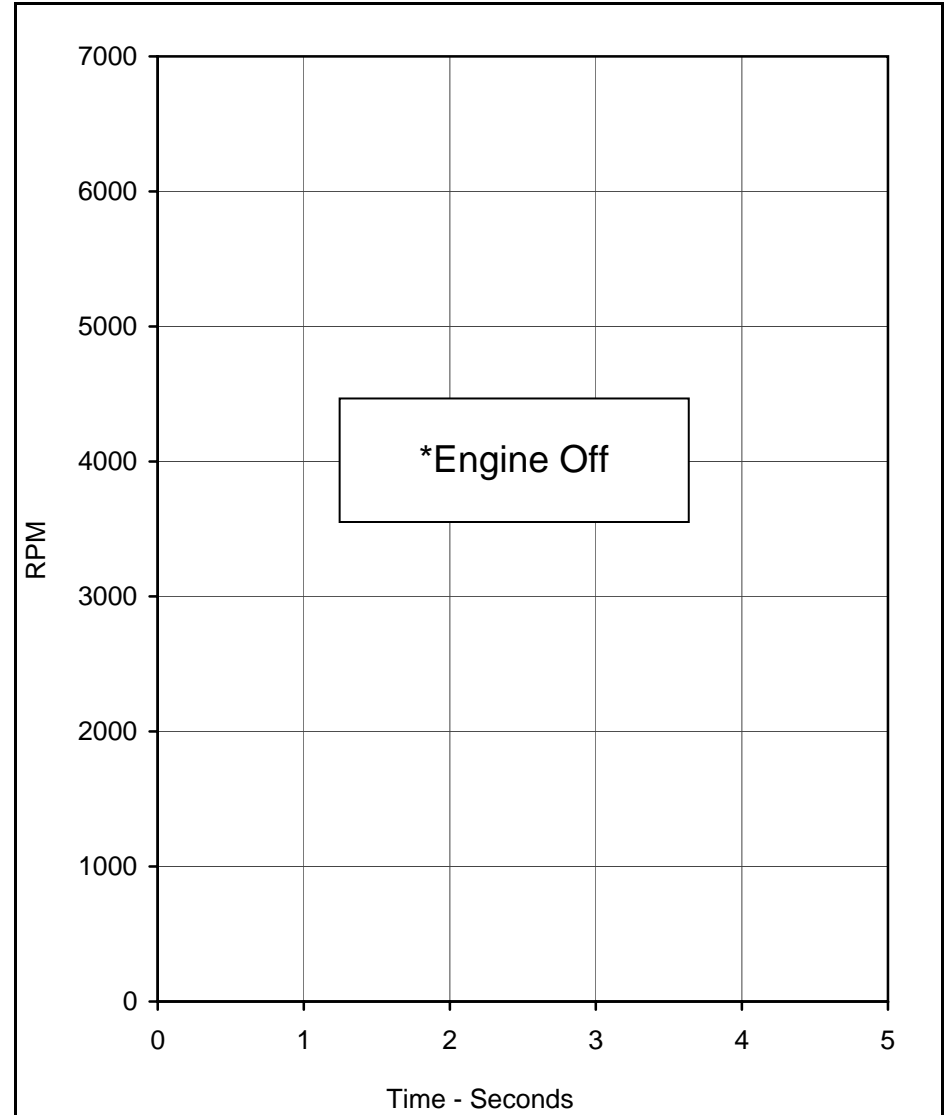
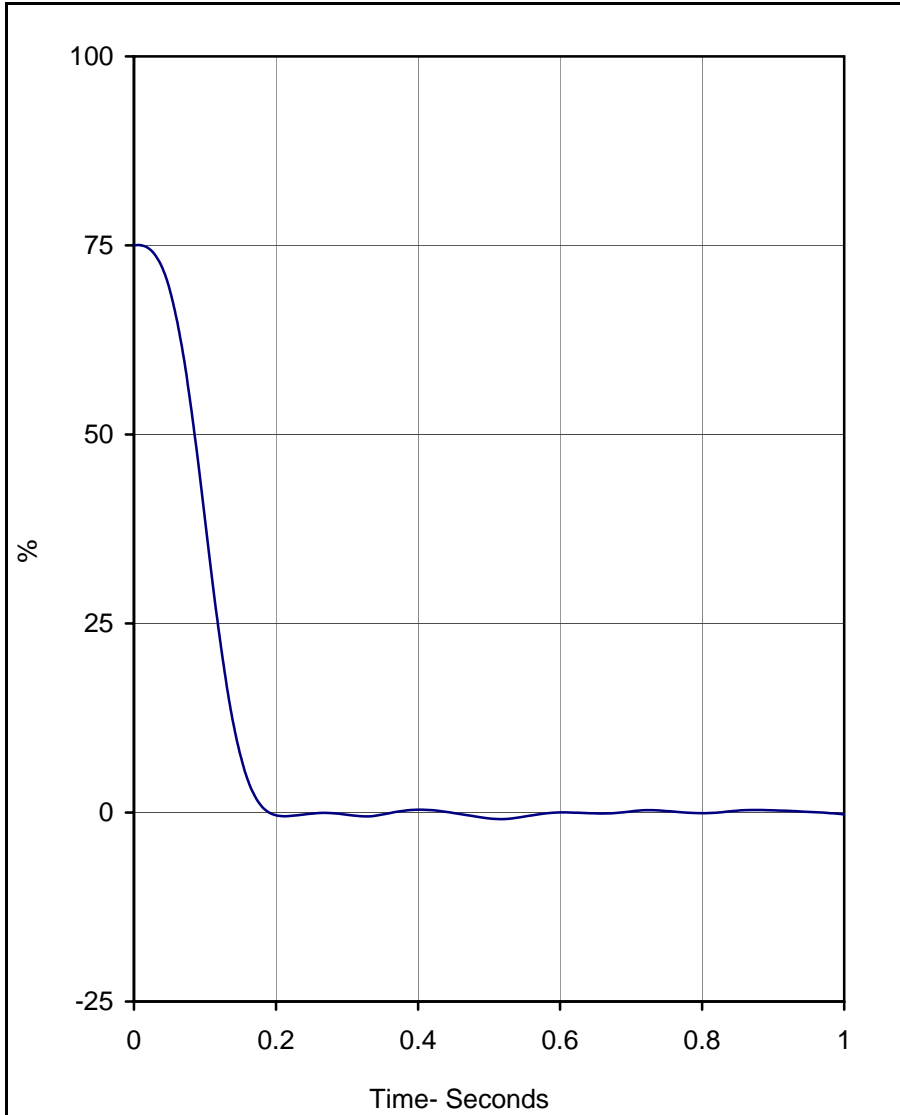
Curve Description	CURNO	Type
Engine RPM vs. Time	002	FIL

Units	Max	Time	Min	Time	Filter (Hz)
RPM					

Test Program: FMVSS 124 (Spring #1 Disconnected)
 Test Vehicle: 2006 Dodge Dakota 4-Door Truck

Test Date: 07/11/06
 NHTSA No.: C60302





Curve Description	CURNO	Type
Throttle Position vs. Time	001	FIL

Units	Max	Time	Return Time (msec)	Filter (Hz)
%	75.0	0.0	190.0	5

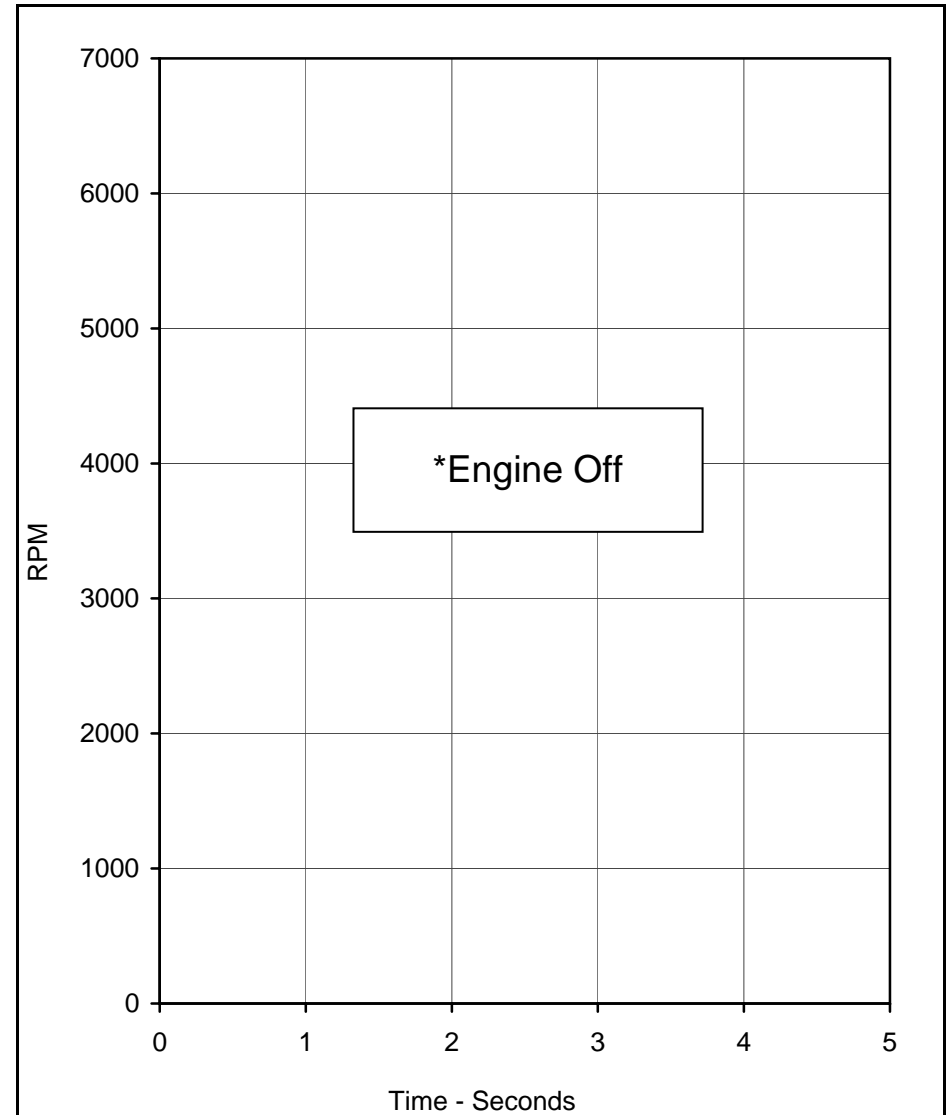
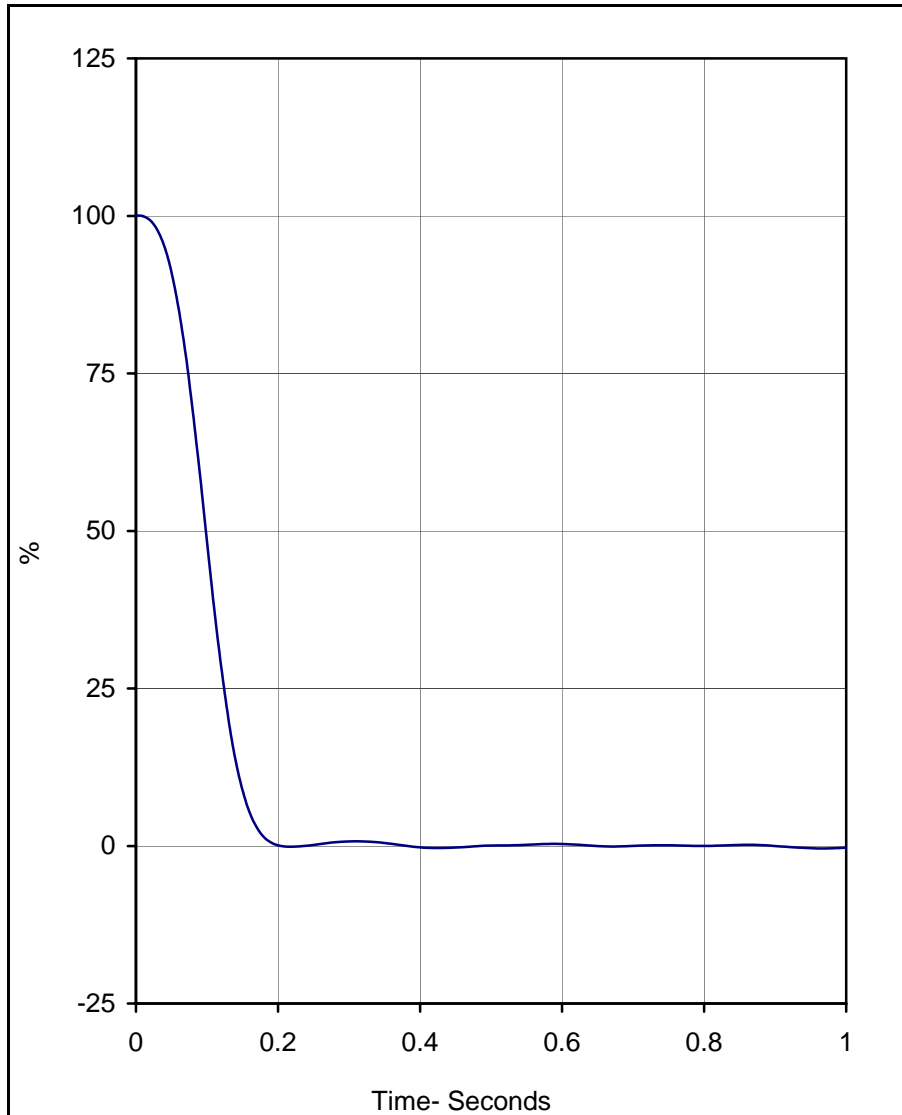
Curve Description	CURNO	Type
Engine RPM vs. Time	002	FIL

Units	Max	Time	Min	Time	Filter (Hz)
RPM					

Test Program: FMVSS 124 (Spring #1 Disconnected)
 Test Vehicle: 2006 Dodge Dakota 4-Door Truck

Test Date: 07/11/06
 NHTSA No.: C60302





Curve Description	CURNO	Type
Throttle Position vs. Time	001	FIL

Units	Max	Time	Return Time (msec)	Filter (Hz)
%	100.1	0.0	200.0	5

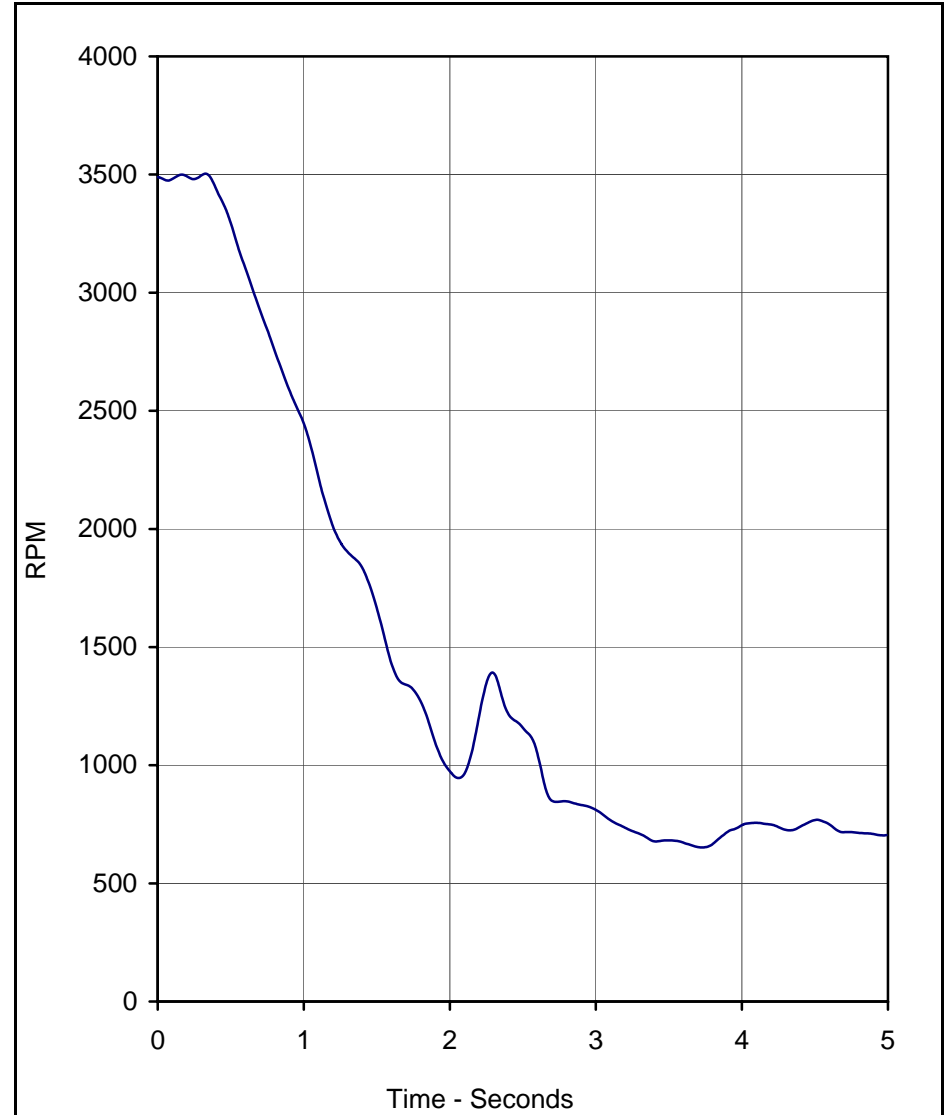
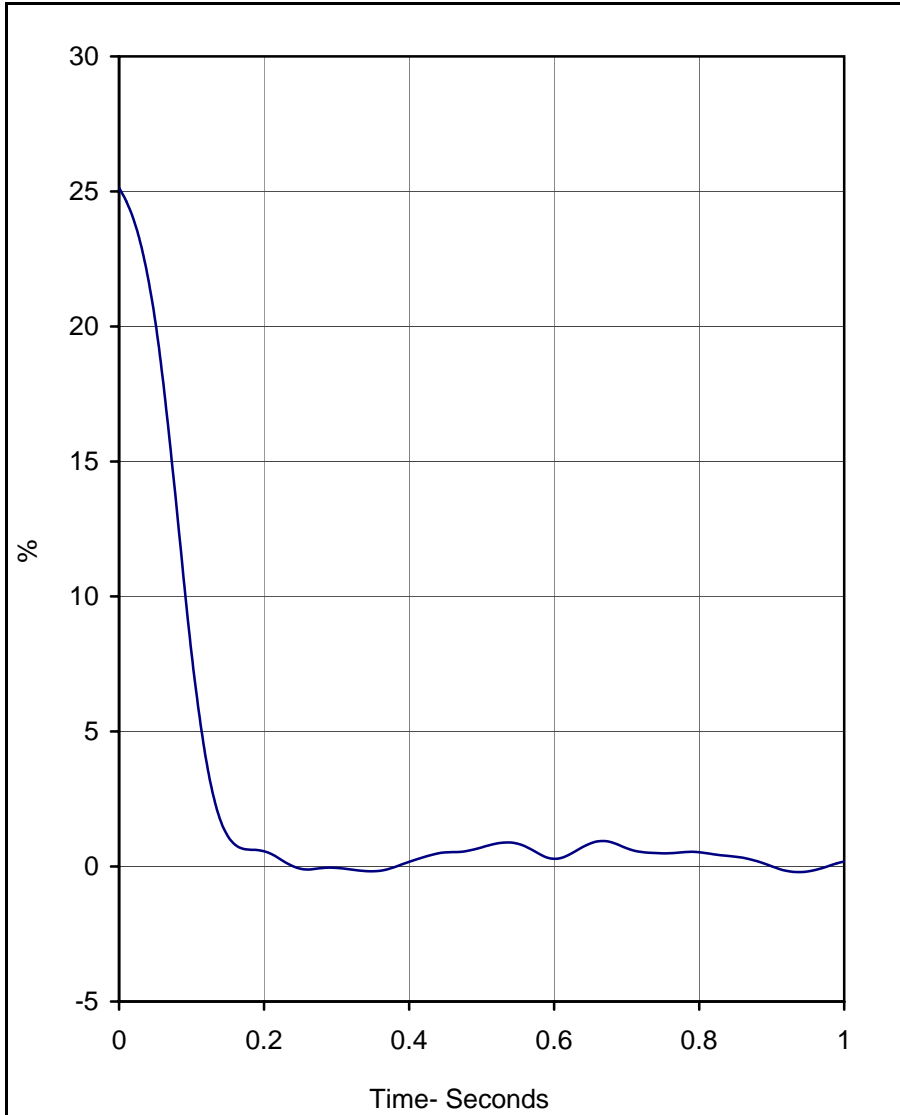
Curve Description	CURNO	Type
Engine RPM vs. Time	002	FIL

Units	Max	Time	Min	Time	Filter (Hz)
RPM					

Test Program: FMVSS 124 (Spring #1 Disconnected)
 Test Vehicle: 2006 Dodge Dakota 4-Door Truck

Test Date: 07/11/06
 NHTSA No.: C60302





Curve Description	CURNO	Type
Throttle Position vs. Time	001	FIL

Curve Description	CURNO	Type
Engine RPM vs. Time	002	FIL

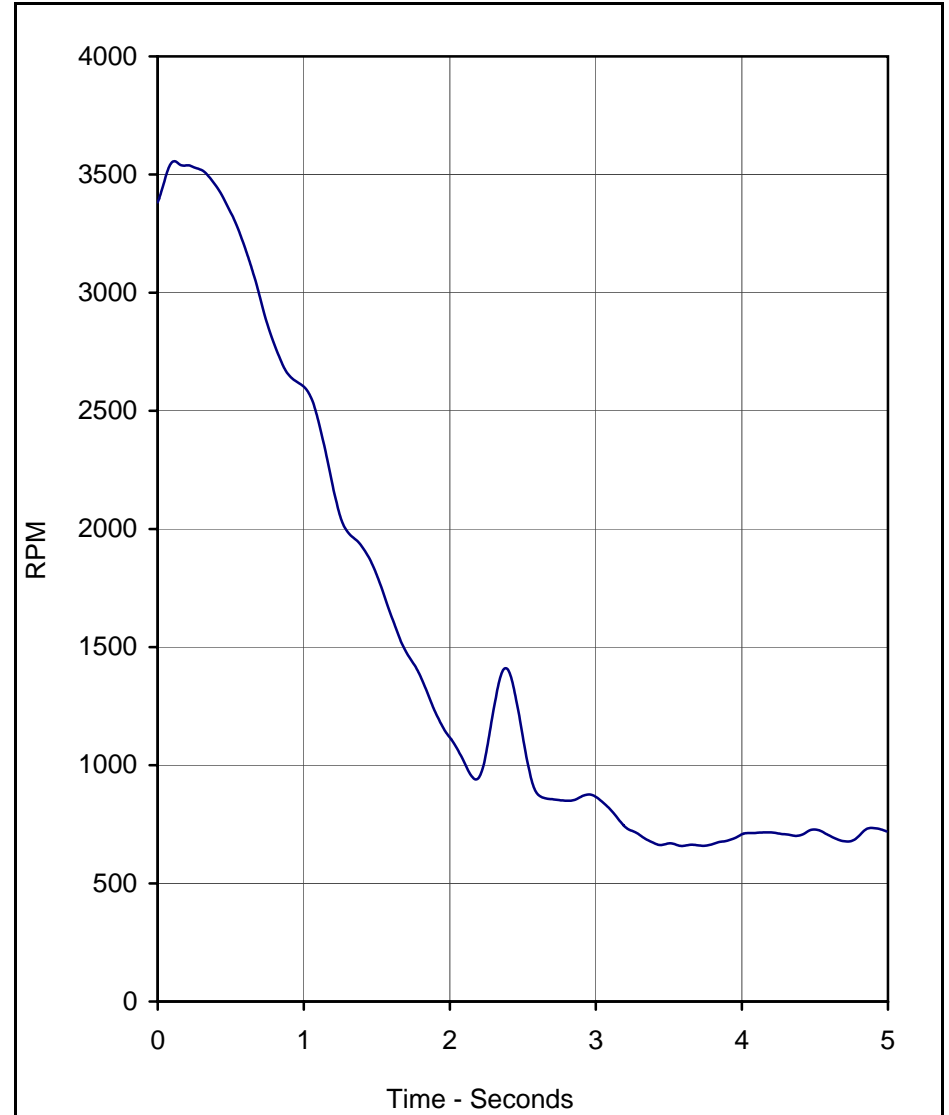
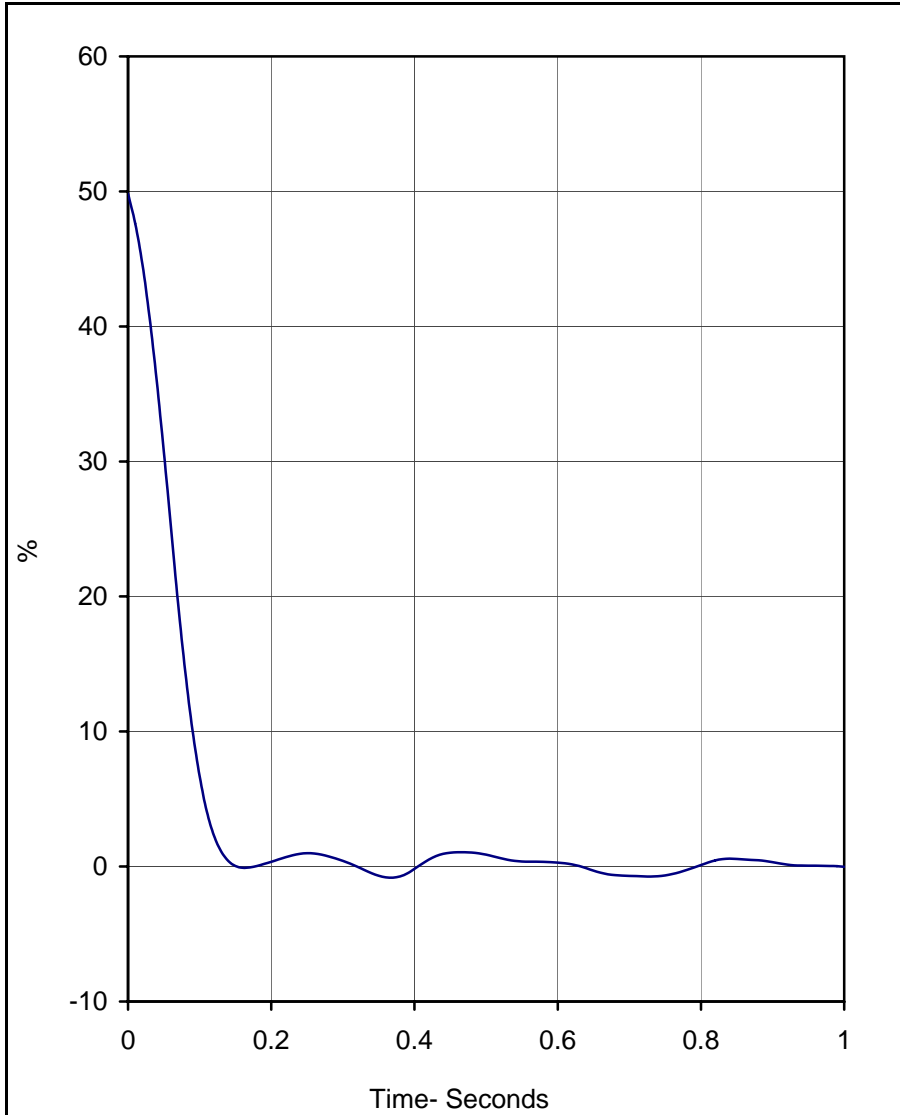
Units	Max	Time	Return Time (msec)	Filter (Hz)
%	25.1	0.0	210.0	5

Units	Max	Time	Min	Time	Filter (Hz)
RPM	3503.6	0.3	652.2	3.7	5

Test Program: FMVSS 124 (Spring #2 Disconnected)
 Test Vehicle: 2006 Dodge Dakota 4-Door Truck

Test Date: 07/11/06
 NHTSA No.: C60302





Curve Description	CURNO	Type
Throttle Position vs. Time	001	FIL

Units	Max	Time	Return Time (msec)	Filter (Hz)
%	49.8	0.0	140.0	5

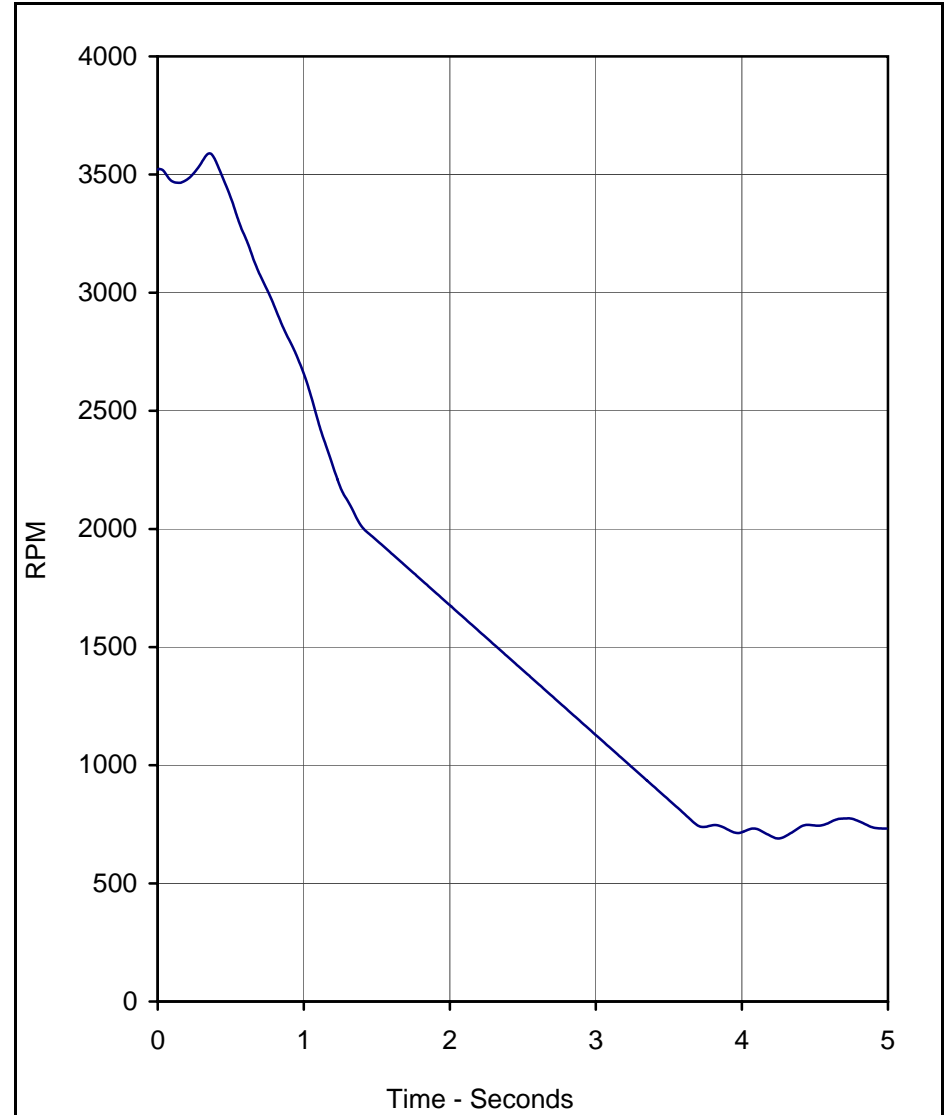
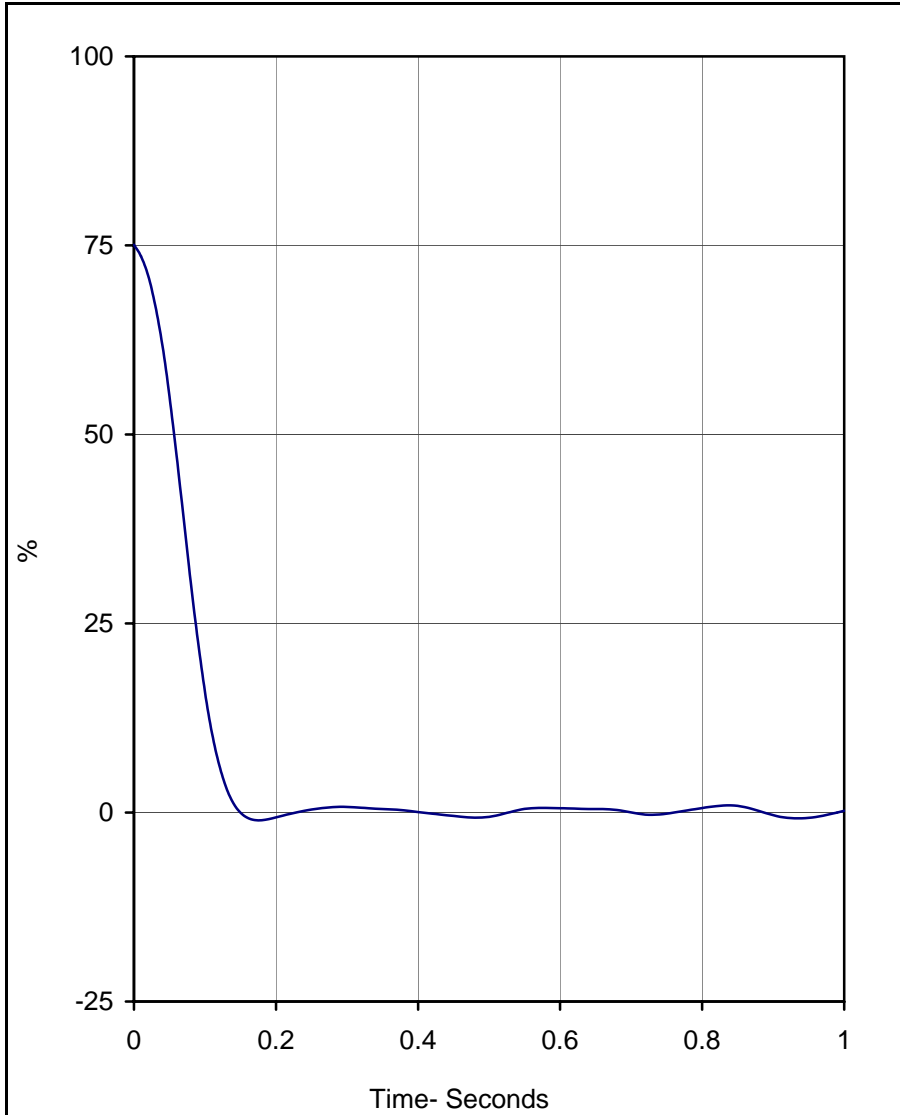
Curve Description	CURNO	Type
Engine RPM vs. Time	002	FIL

Units	Max	Time	Min	Time	Filter (Hz)
RPM	3556.0	0.1	658.3	3.6	5

Test Program: FMVSS 124 (Spring #2 Disconnected)
 Test Vehicle: 2006 Dodge Dakota 4-Door Truck

Test Date: 07/11/06
 NHTSA No.: C60302





Curve Description	CURNO	Type
Throttle Position vs. Time	001	FIL

Curve Description	CURNO	Type
Engine RPM vs. Time	002	FIL

Units	Max	Time	Return Time (msec)	Filter (Hz)
%	75.1	0.0	150.0	5

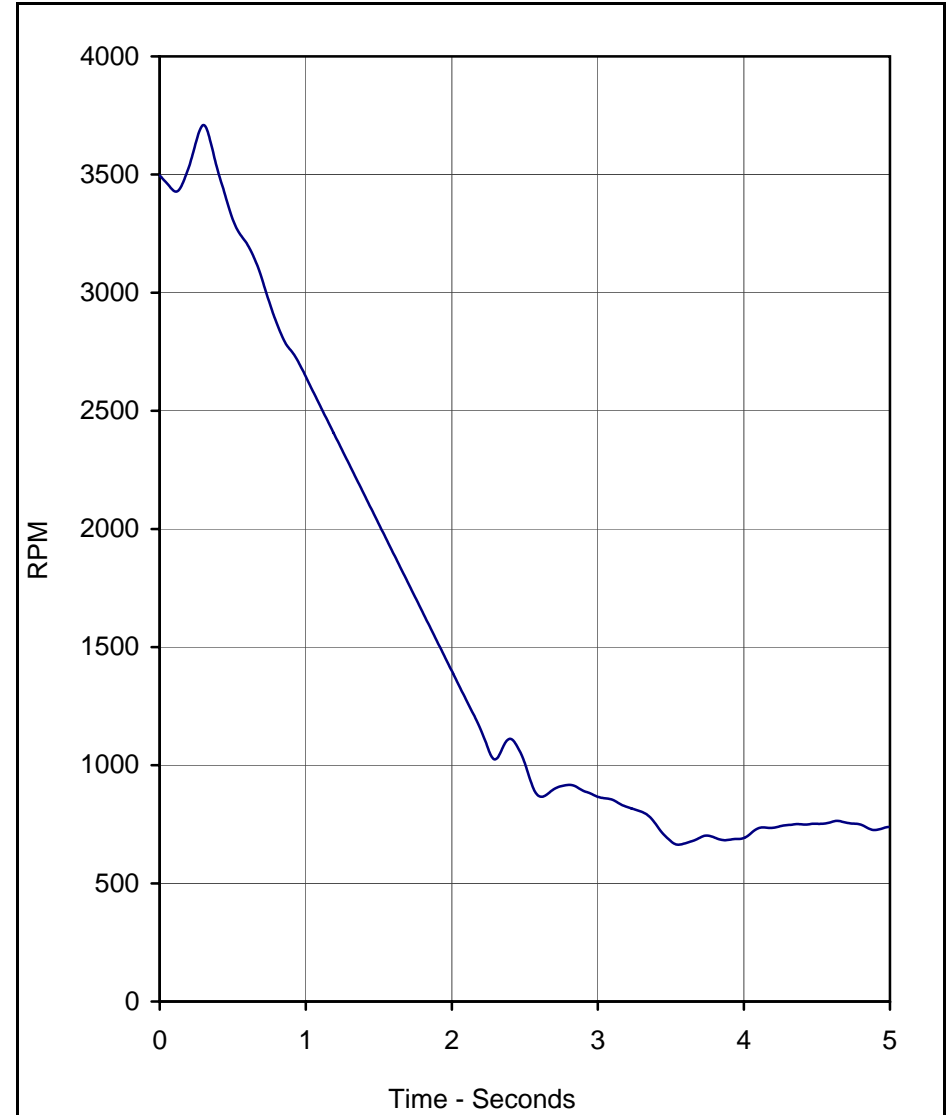
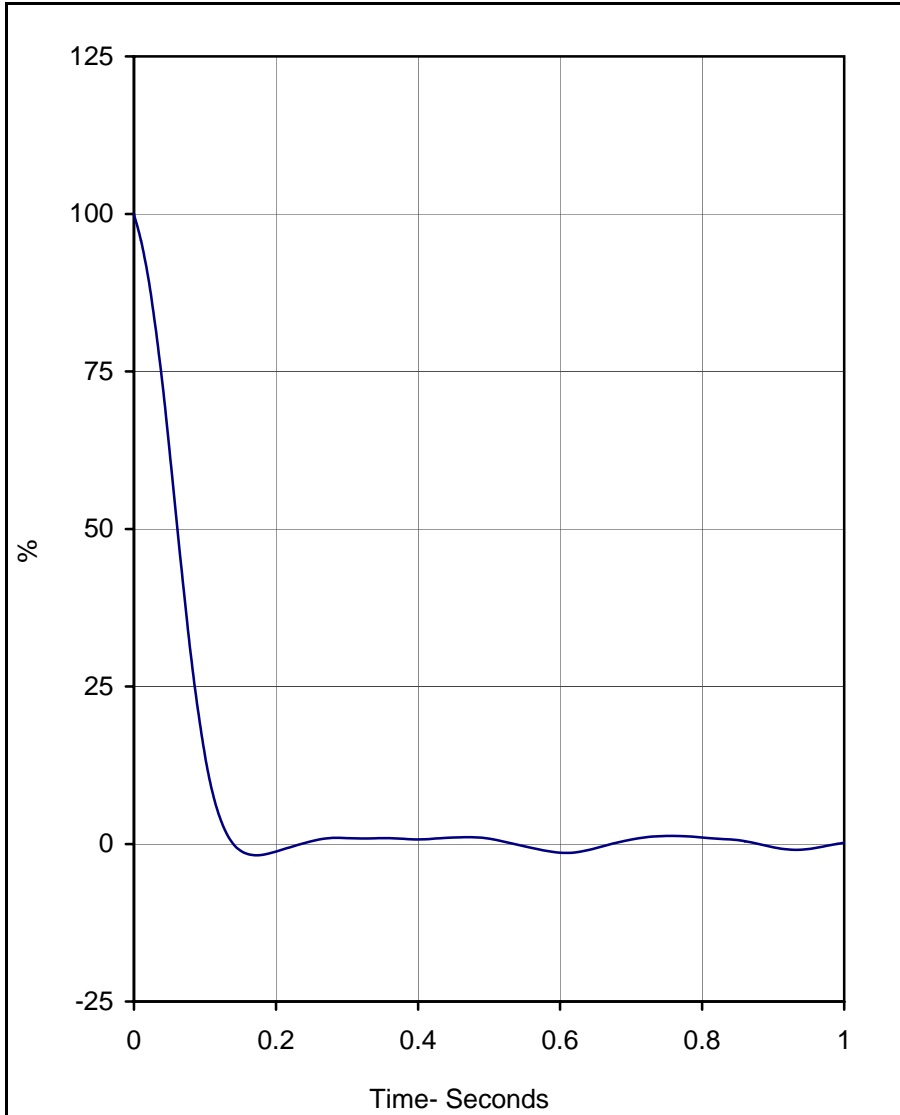
Units	Max	Time	Min	Time	Filter (Hz)
RPM	3589.2	0.4	690.0	4.3	5

Test Program: FMVSS 124 (Spring #2 Disconnected)
 Test Vehicle: 2006 Dodge Dakota 4-Door Truck

Test Date: 07/11/06
 NHTSA No.: C60302



B-20



Curve Description	CURNO	Type
Throttle Position vs. Time	001	FIL

Curve Description	CURNO	Type
Engine RPM vs. Time	002	FIL

Units	Max	Time	Return Time (msec)	Filter (Hz)
%	100.0	0.0	140.0	5

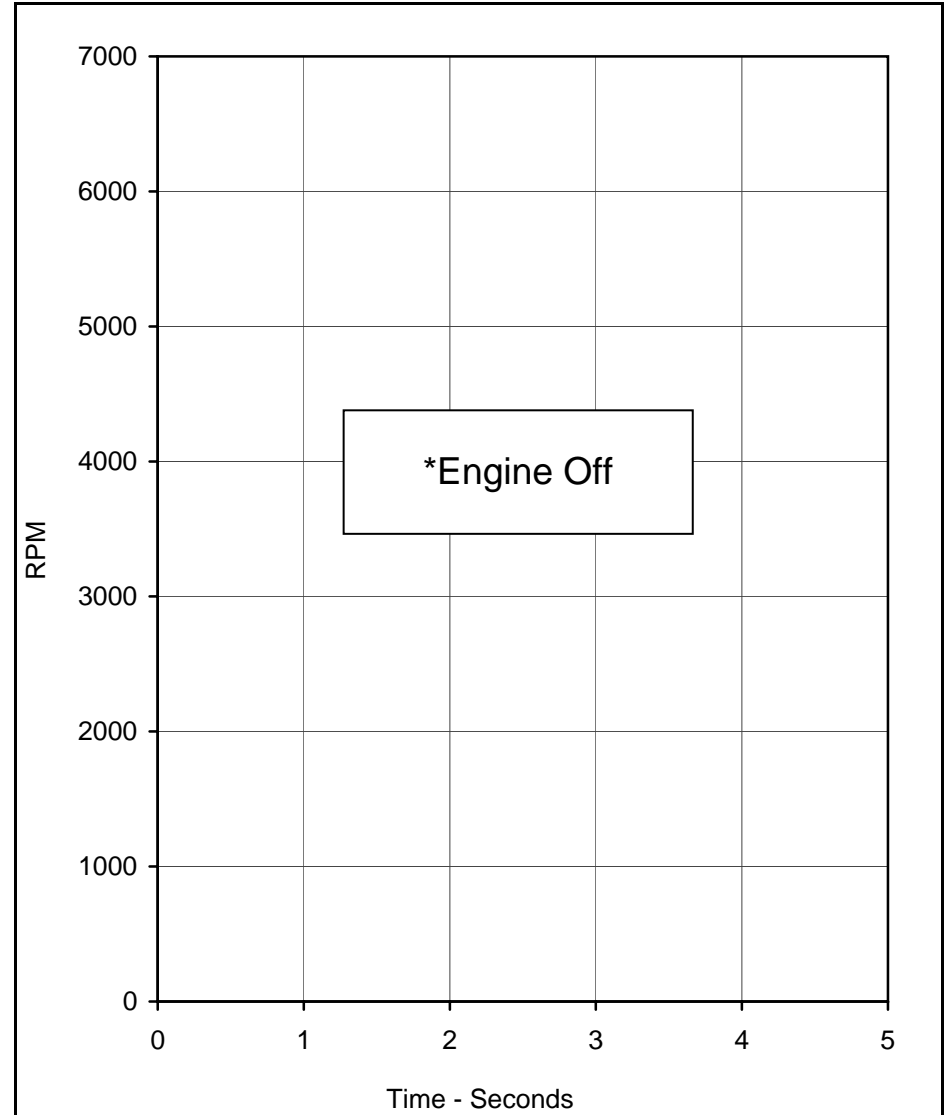
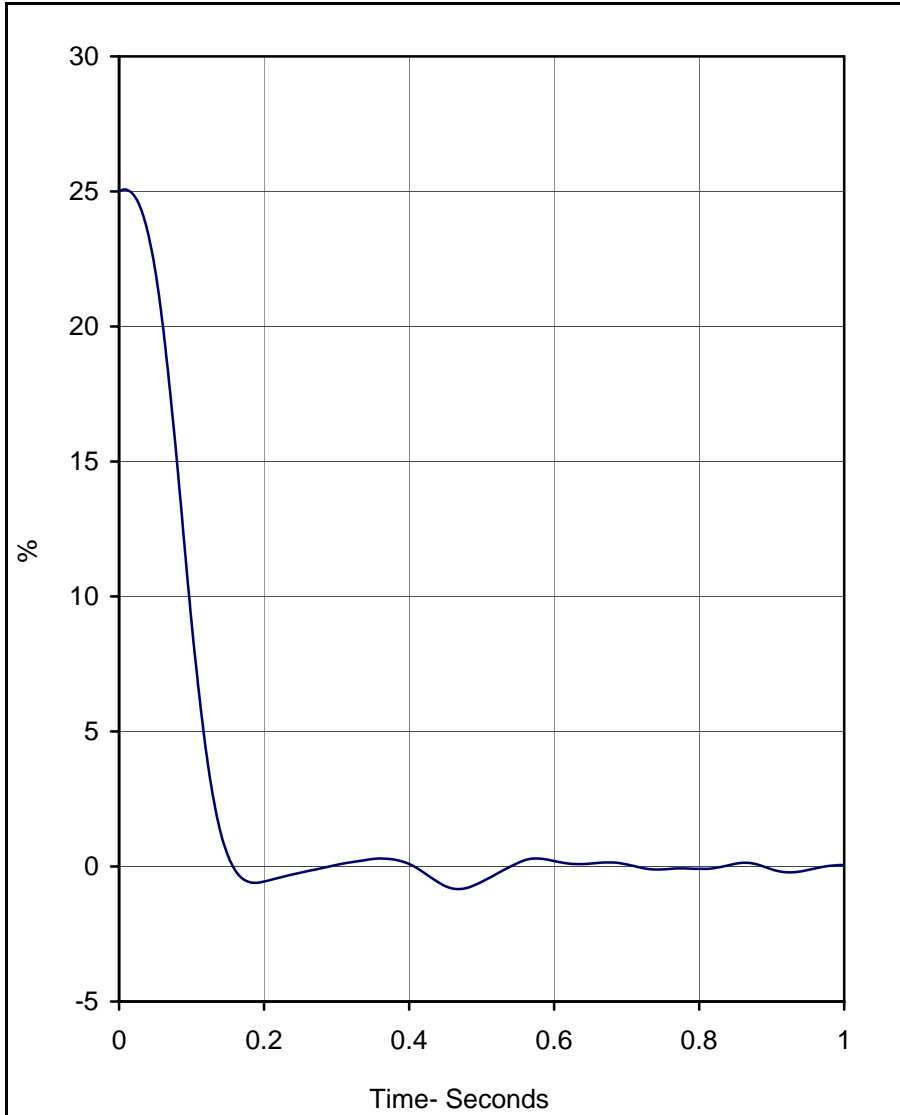
Units	Max	Time	Min	Time	Filter (Hz)
RPM	3709.7	0.3	663.8	3.6	5

Test Program: FMVSS 124 (Spring #2 Disconnected)
 Test Vehicle: 2006 Dodge Dakota 4-Door Truck

Test Date: 07/11/06
 NHTSA No.: C60302



TR-P26009-03-NC



Curve Description	CURNO	Type
Throttle Position vs. Time	001	FIL

Units	Max	Time	Return Time (msec)	Filter (Hz)
%	25.1	0.0	150.0	5

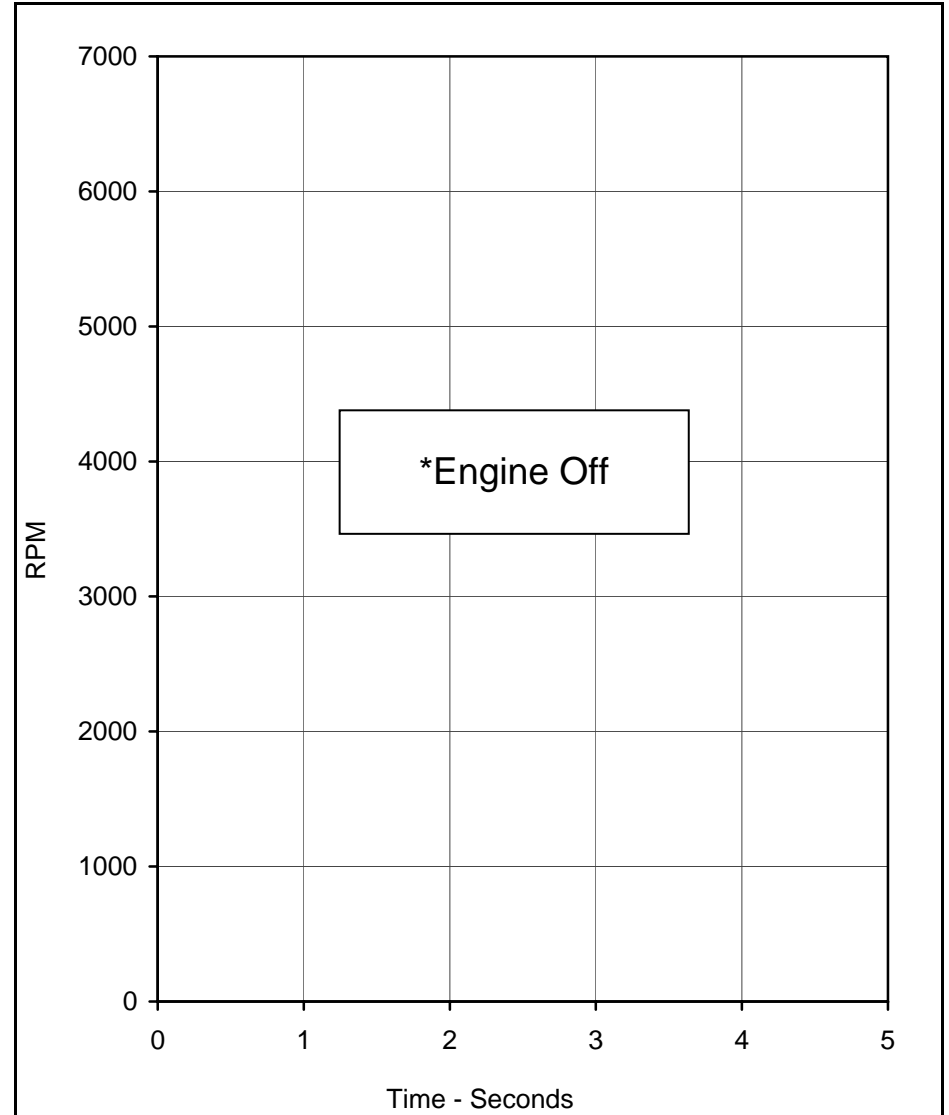
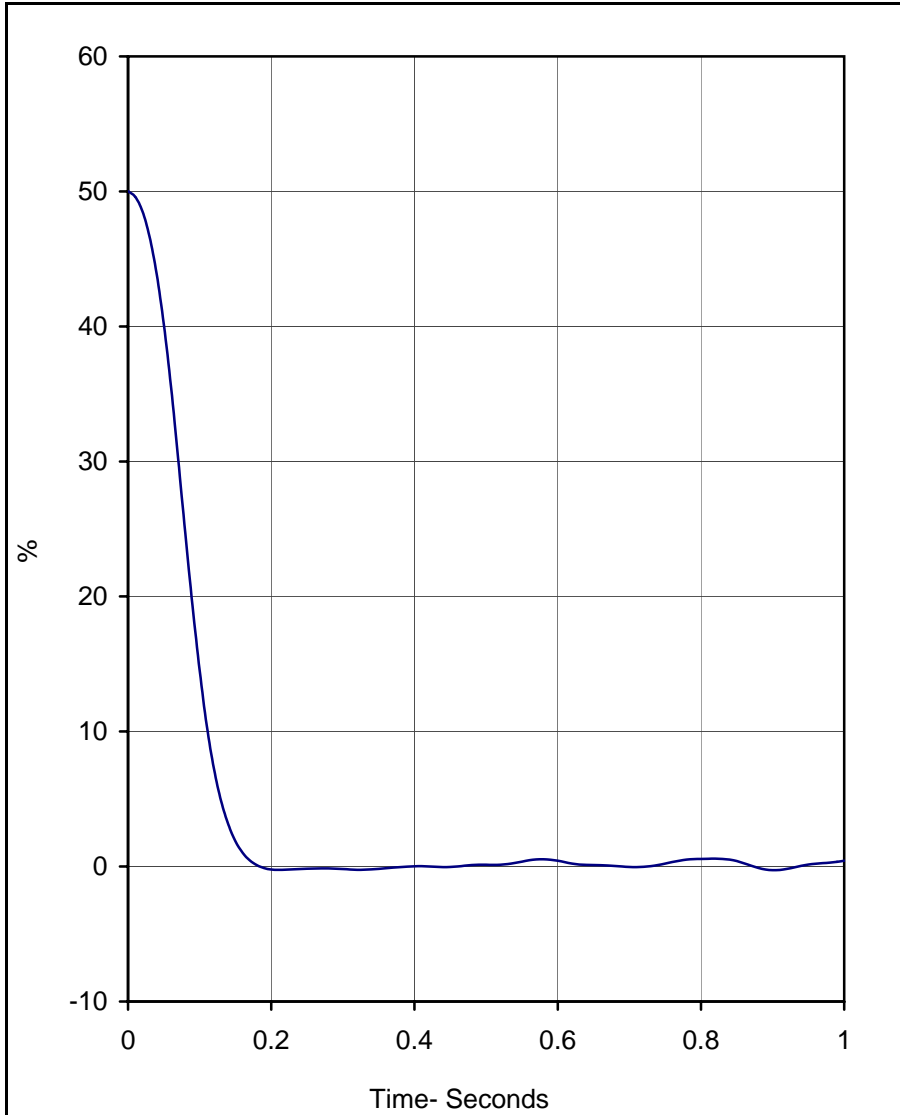
Curve Description	CURNO	Type
Engine RPM vs. Time	002	FIL

Units	Max	Time	Min	Time	Filter (Hz)
RPM					

Test Program: FMVSS 124 (Spring #2 Disconnected)
 Test Vehicle: 2006 Dodge Dakota 4-Door Truck

Test Date: 07/11/06
 NHTSA No.: C60302





Curve Description	CURNO	Type
Throttle Position vs. Time	001	FIL

Units	Max	Time	Return Time (msec)	Filter (Hz)
%	50.0	0.0	170.0	5

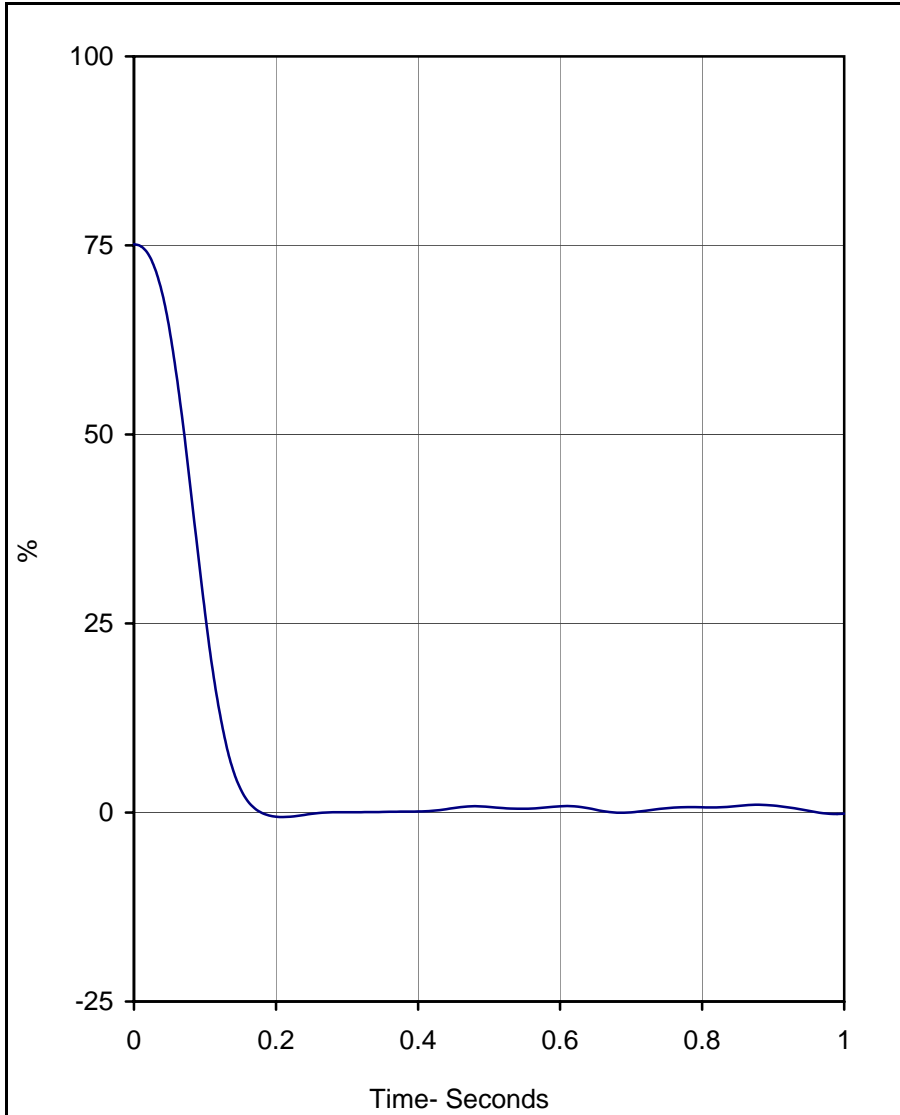
Curve Description	CURNO	Type
Engine RPM vs. Time	002	FIL

Units	Max	Time	Min	Time	Filter (Hz)
RPM					

Test Program: FMVSS 124 (Spring #2 Disconnected)
 Test Vehicle: 2006 Dodge Dakota 4-Door Truck

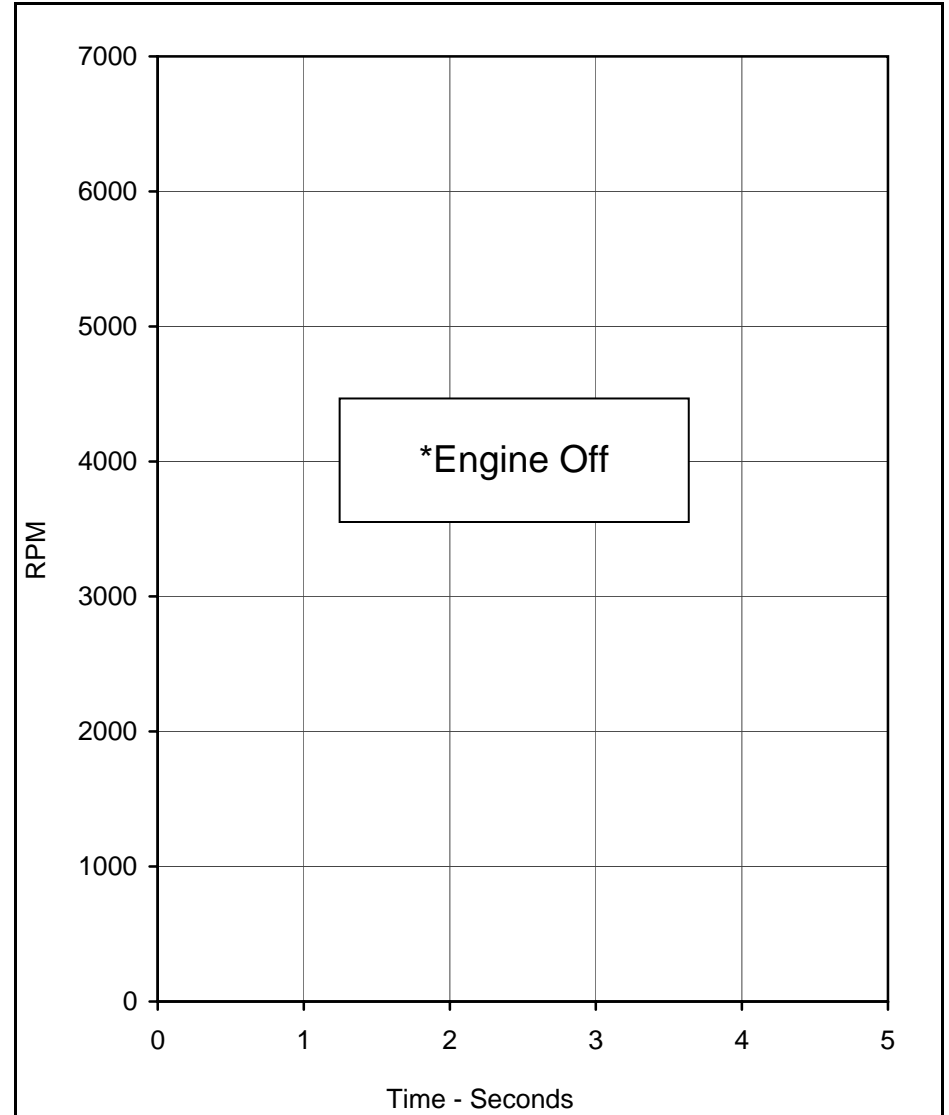
Test Date: 07/11/06
 NHTSA No.: C60302





Curve Description	CURNO	Type
Throttle Position vs. Time	001	FIL

Units	Max	Time	Return Time (msec)	Filter (Hz)
%	75.2	0.0	180.0	5



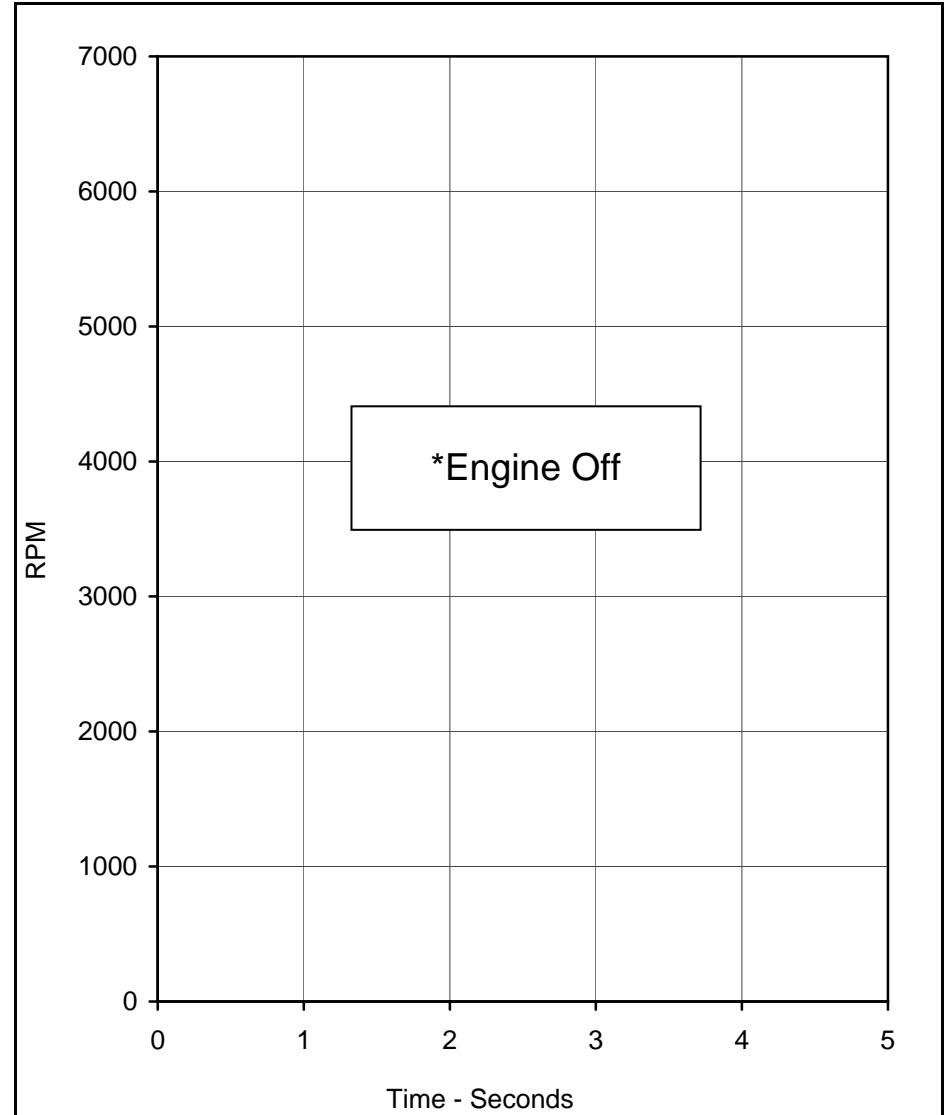
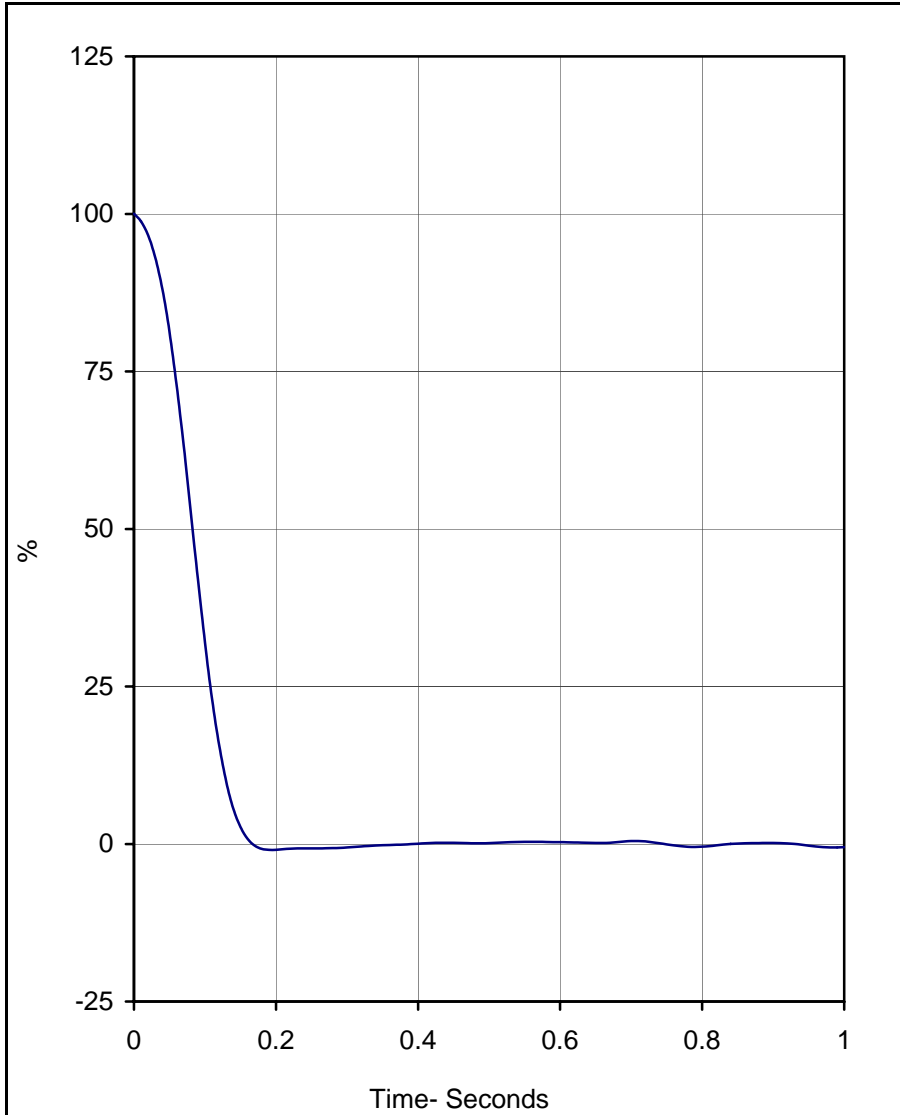
Curve Description	CURNO	Type
Engine RPM vs. Time	002	FIL

Units	Max	Time	Min	Time	Filter (Hz)
RPM					

Test Program: FMVSS 124 (Spring #2 Disconnected)
 Test Vehicle: 2006 Dodge Dakota 4-Door Truck

Test Date: 07/11/06
 NHTSA No.: C60302





Curve Description	CURNO	Type
Throttle Position vs. Time	001	FIL

Units	Max	Time	Return Time (msec)	Filter (Hz)
%	100.0	0.0	170.0	5

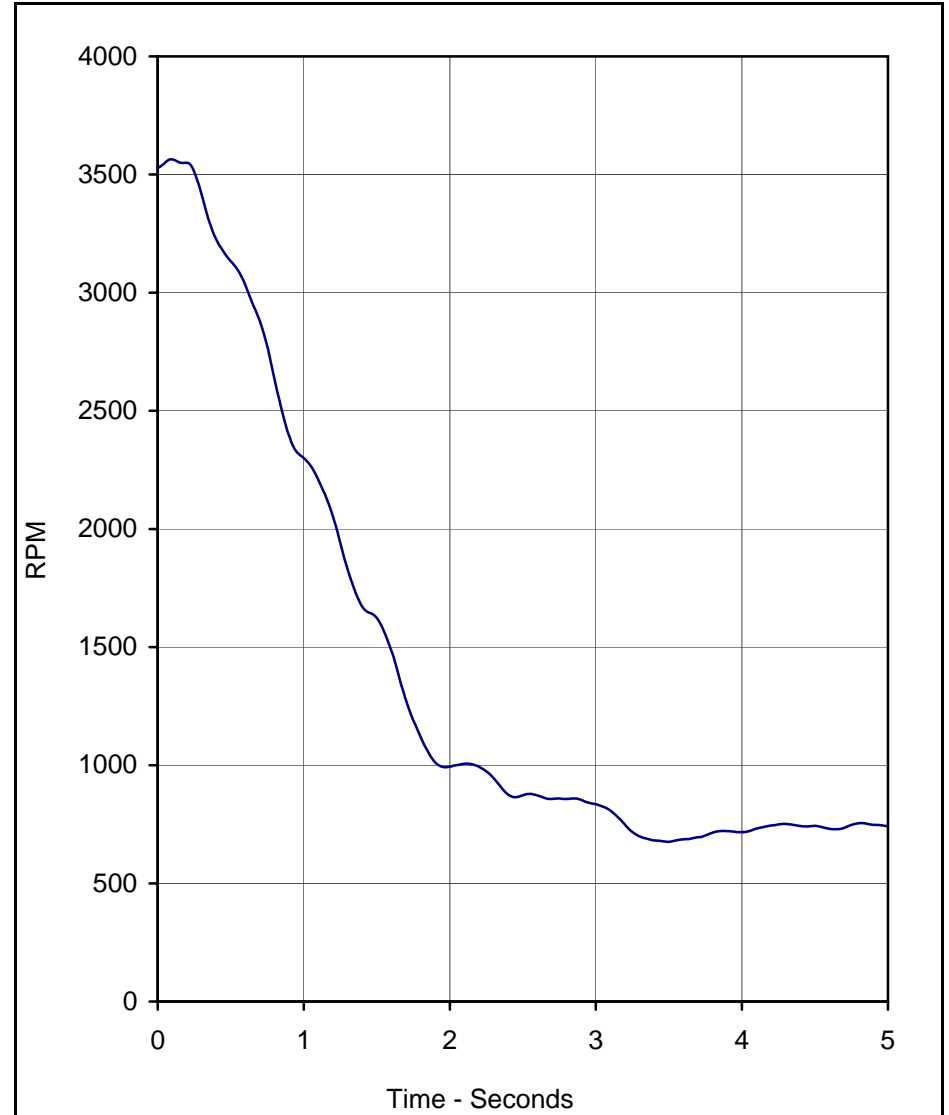
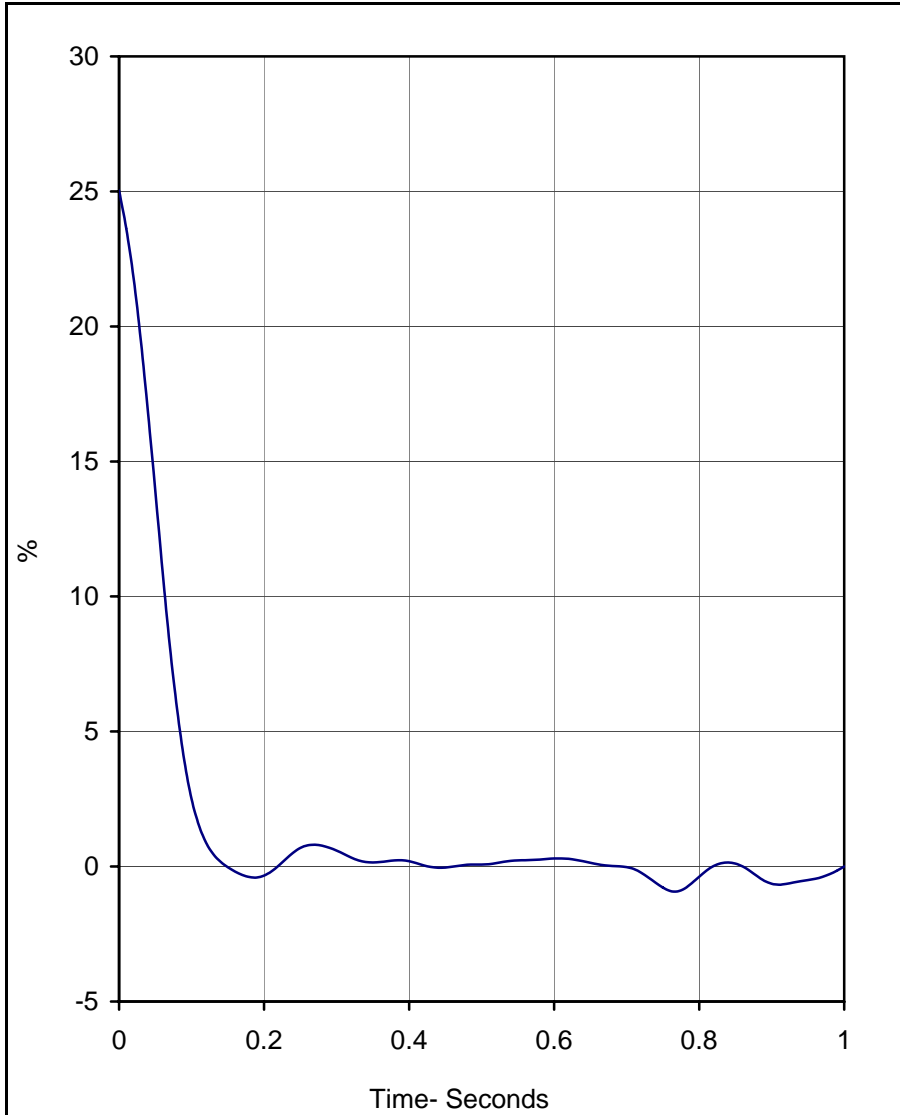
Curve Description	CURNO	Type
Engine RPM vs. Time	002	FIL

Units	Max	Time	Min	Time	Filter (Hz)
RPM					

Test Program: FMVSS 124 (Spring #2 Disconnected)
 Test Vehicle: 2006 Dodge Dakota 4-Door Truck

Test Date: 07/11/06
 NHTSA No.: C60302





Curve Description	CURNO	Type
Throttle Position vs. Time	001	FIL

Curve Description	CURNO	Type
Engine RPM vs. Time	002	FIL

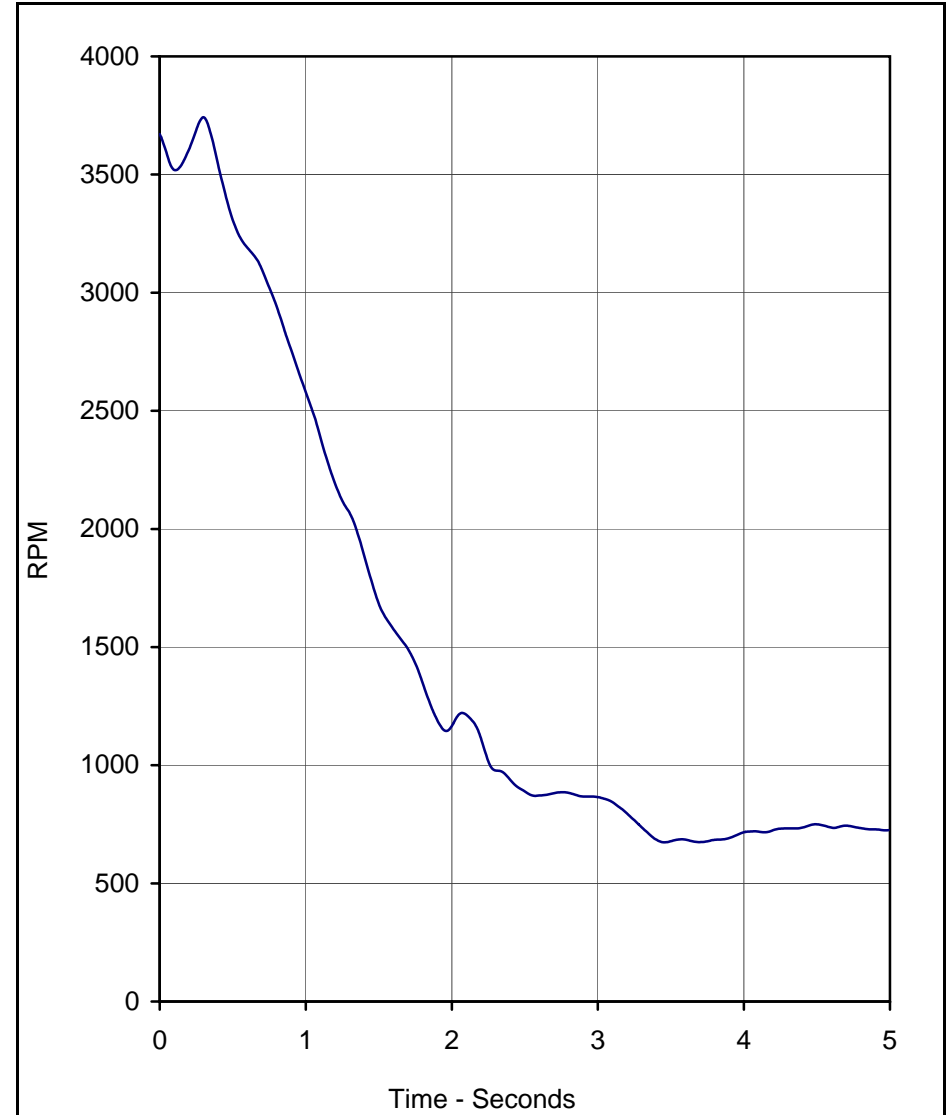
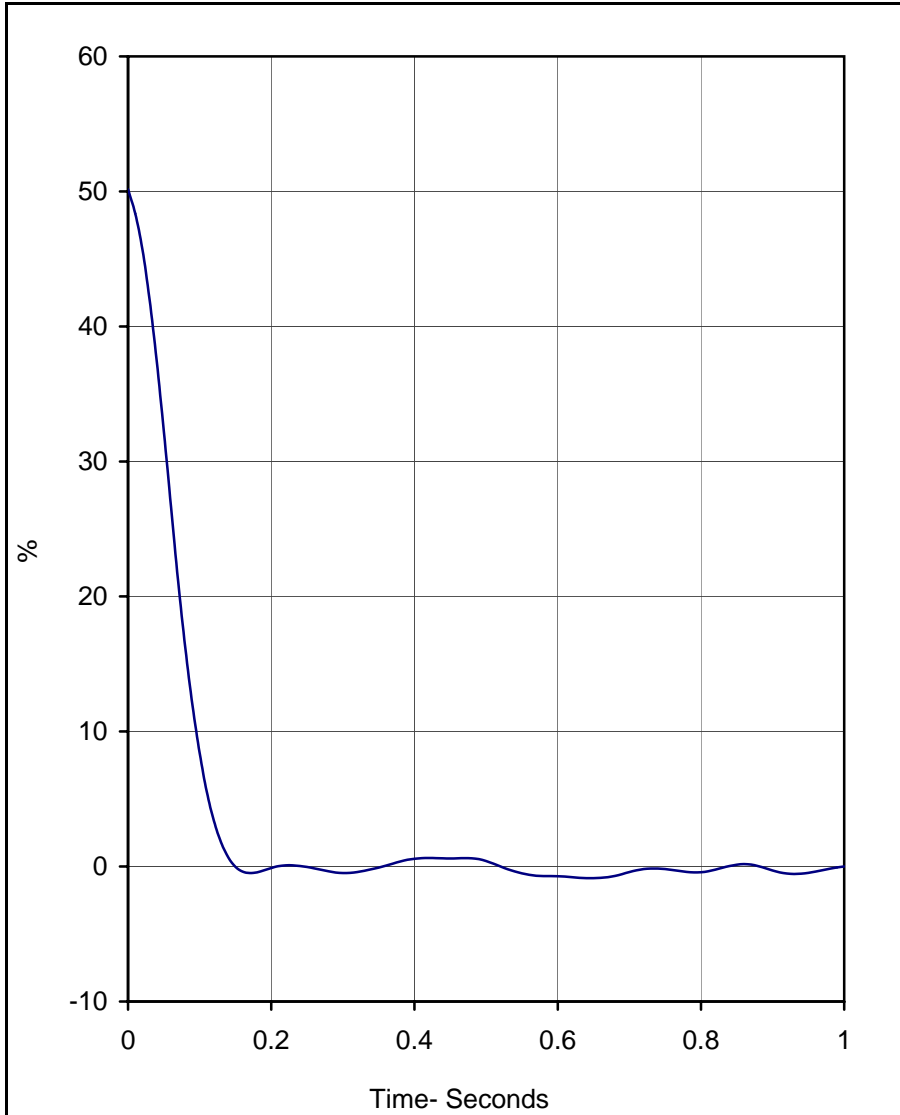
Units	Max	Time	Return Time (msec)	Filter (Hz)
%	25.0	0.0	130.0	5

Units	Max	Time	Min	Time	Filter (Hz)
RPM	3564.4	0.1	676.0	3.5	5

Test Program: FMVSS 124 (Severance of Throttle Cable)
 Test Vehicle: 2006 Dodge Dakota 4-Door Truck

Test Date: 07/11/06
 NHTSA No.: C60302





Curve Description	CURNO	Type
Throttle Position vs. Time	001	FIL

Curve Description	CURNO	Type
Engine RPM vs. Time	002	FIL

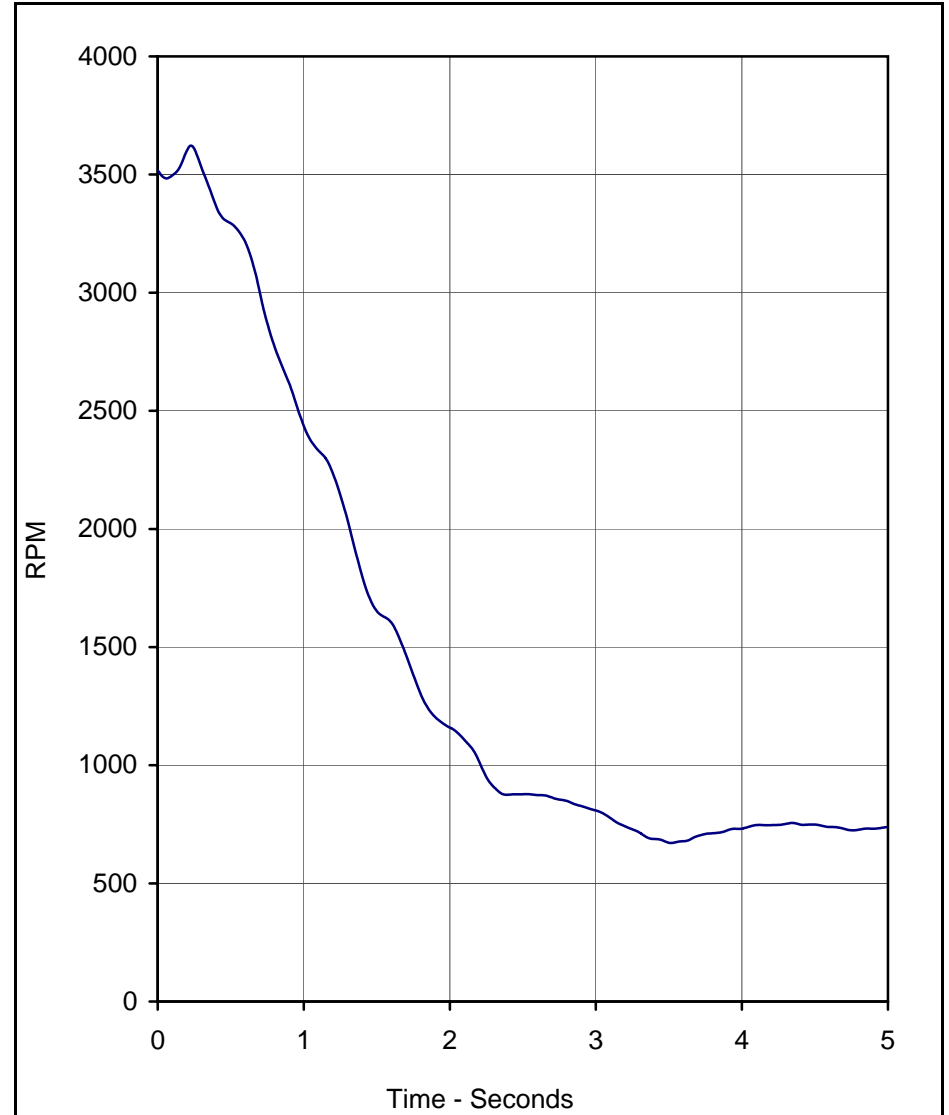
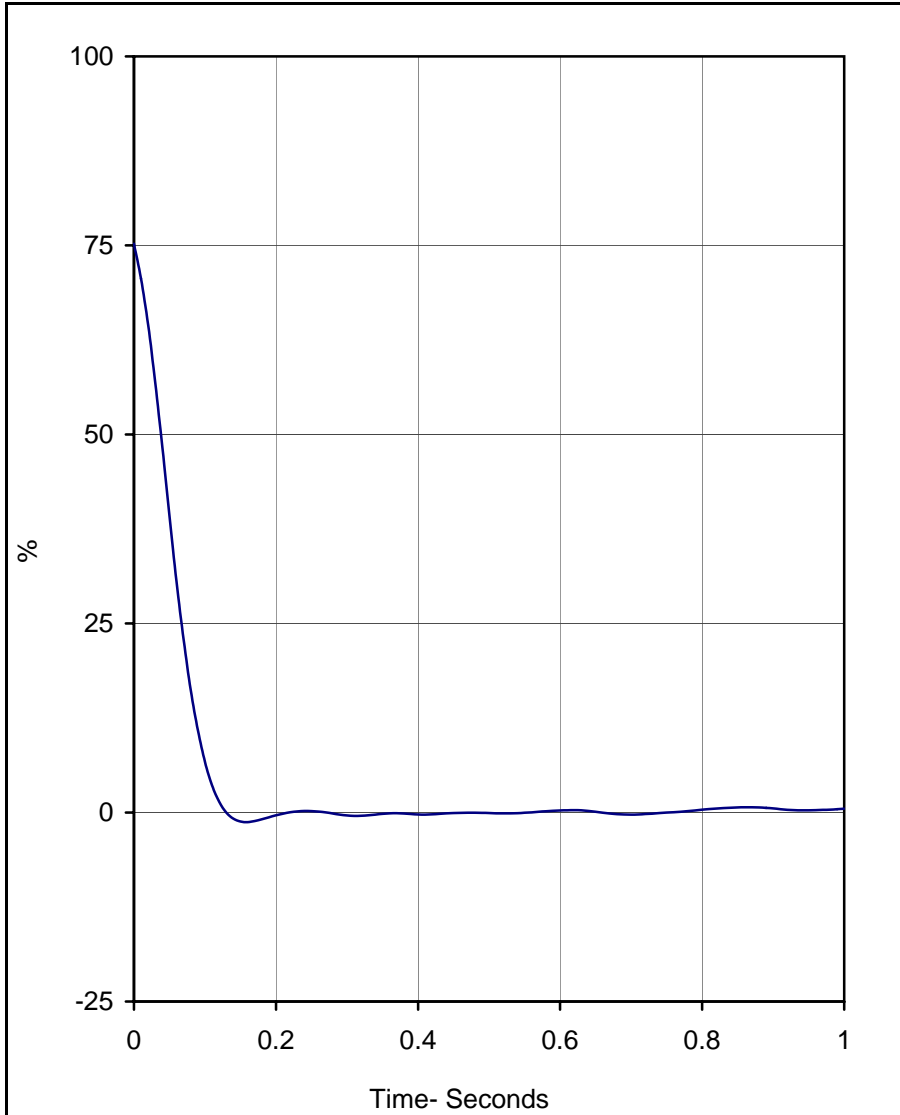
Units	Max	Time	Return Time (msec)	Filter (Hz)
%	50.1	0.0	150.0	5

Units	Max	Time	Min	Time	Filter (Hz)
RPM	3742.4	0.3	673.7	3.5	5

Test Program: FMVSS 124 (Severance of Throttle Cable)
 Test Vehicle: 2006 Dodge Dakota 4-Door Truck

Test Date: 07/11/06
 NHTSA No.: C60302





Curve Description	CURNO	Type
Throttle Position vs. Time	001	FIL

Curve Description	CURNO	Type
Engine RPM vs. Time	002	FIL

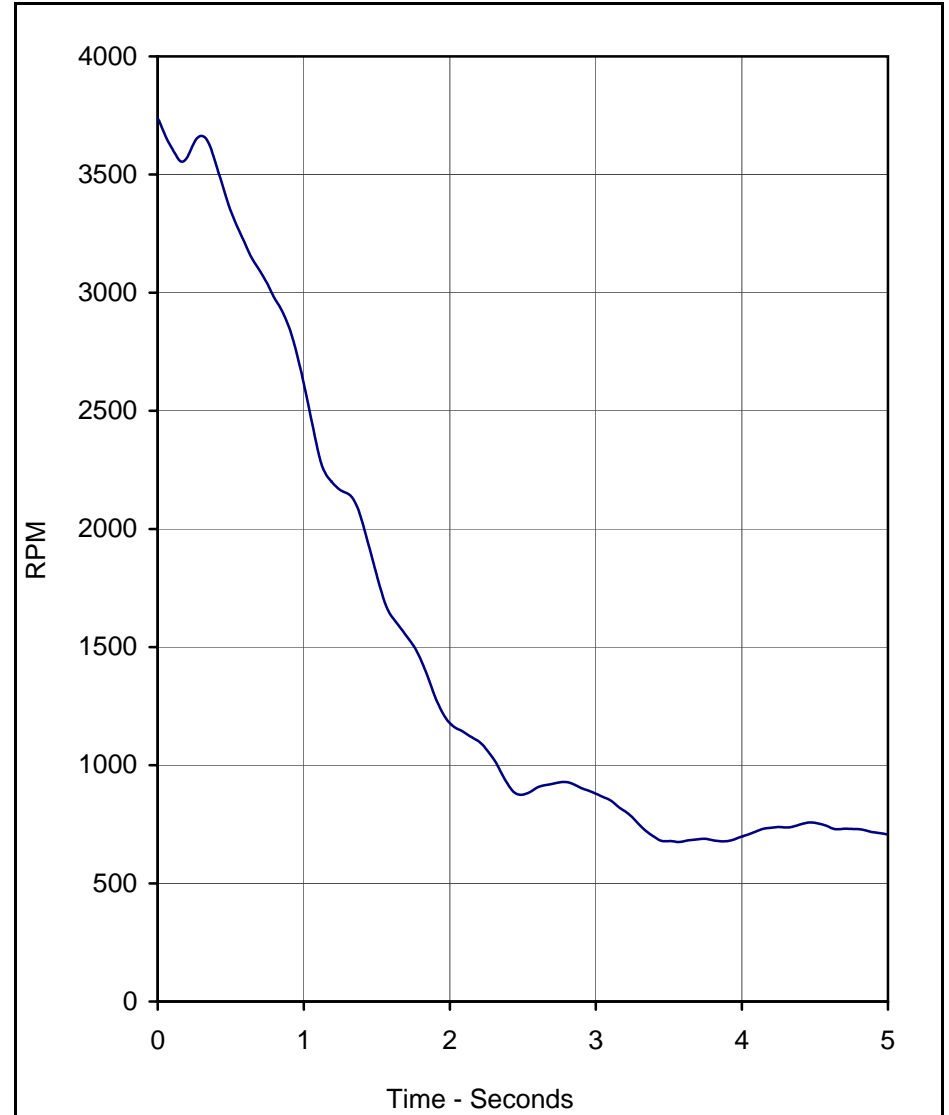
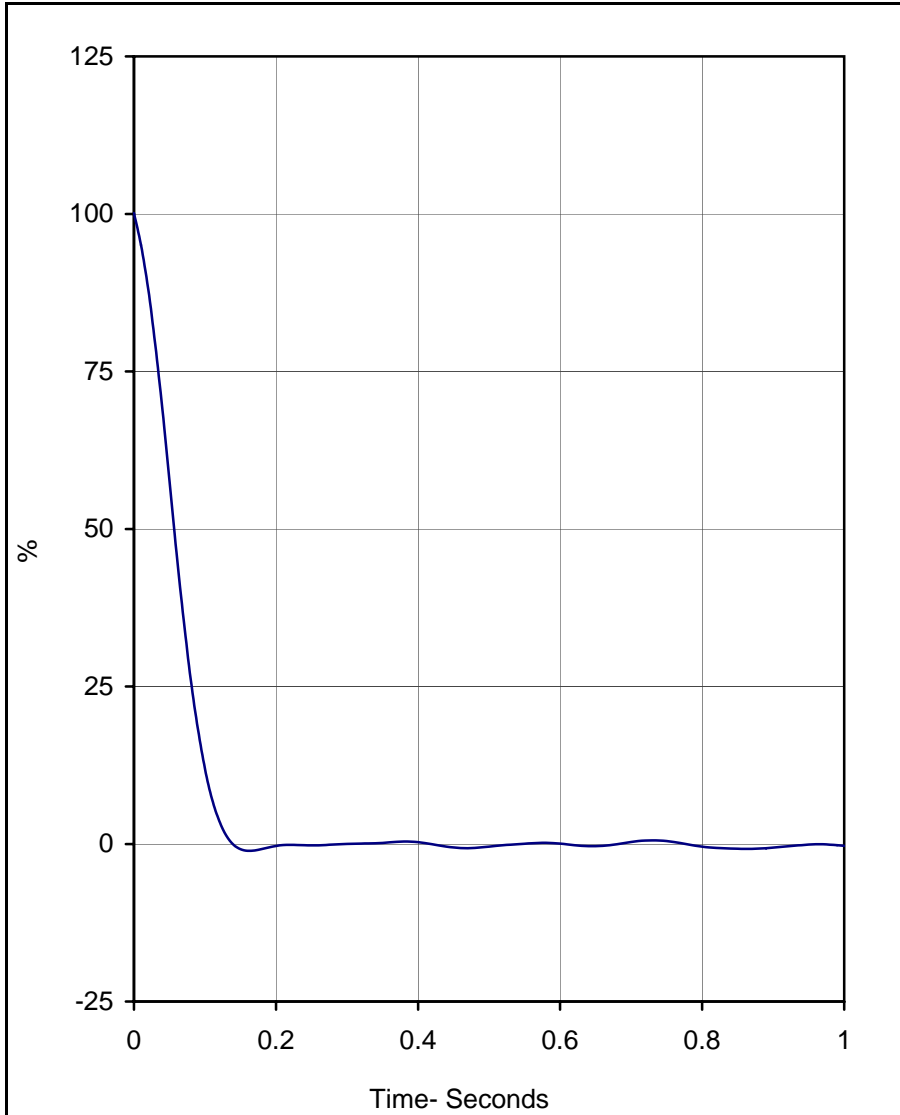
Units	Max	Time	Return Time (msec)	Filter (Hz)
%	75.2	0.0	130.0	5

Units	Max	Time	Min	Time	Filter (Hz)
RPM	3622.5	0.2	671.1	3.5	5

Test Program: FMVSS 124 (Severance of Throttle Cable)
 Test Vehicle: 2006 Dodge Dakota 4-Door Truck

Test Date: 07/11/06
 NHTSA No.: C60302





Curve Description	CURNO	Type
Throttle Position vs. Time	001	FIL

Curve Description	CURNO	Type
Engine RPM vs. Time	002	FIL

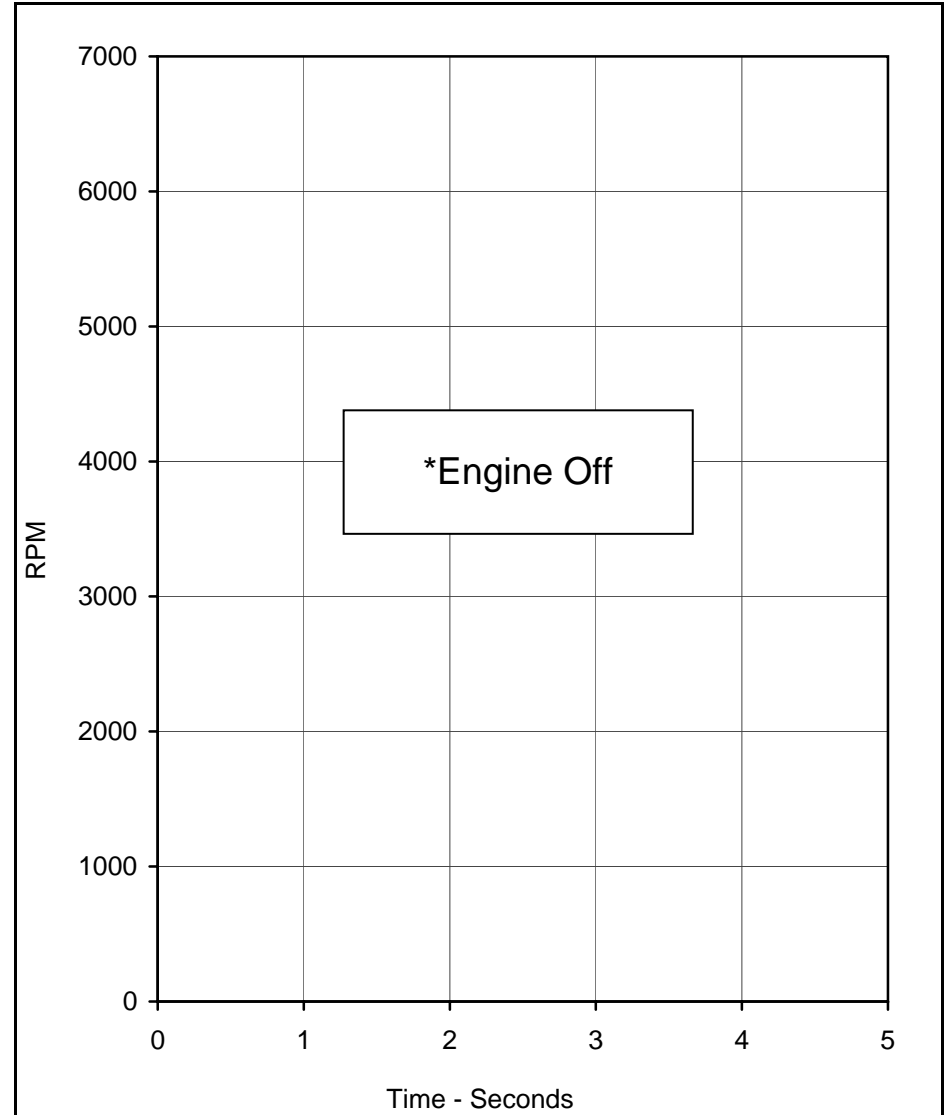
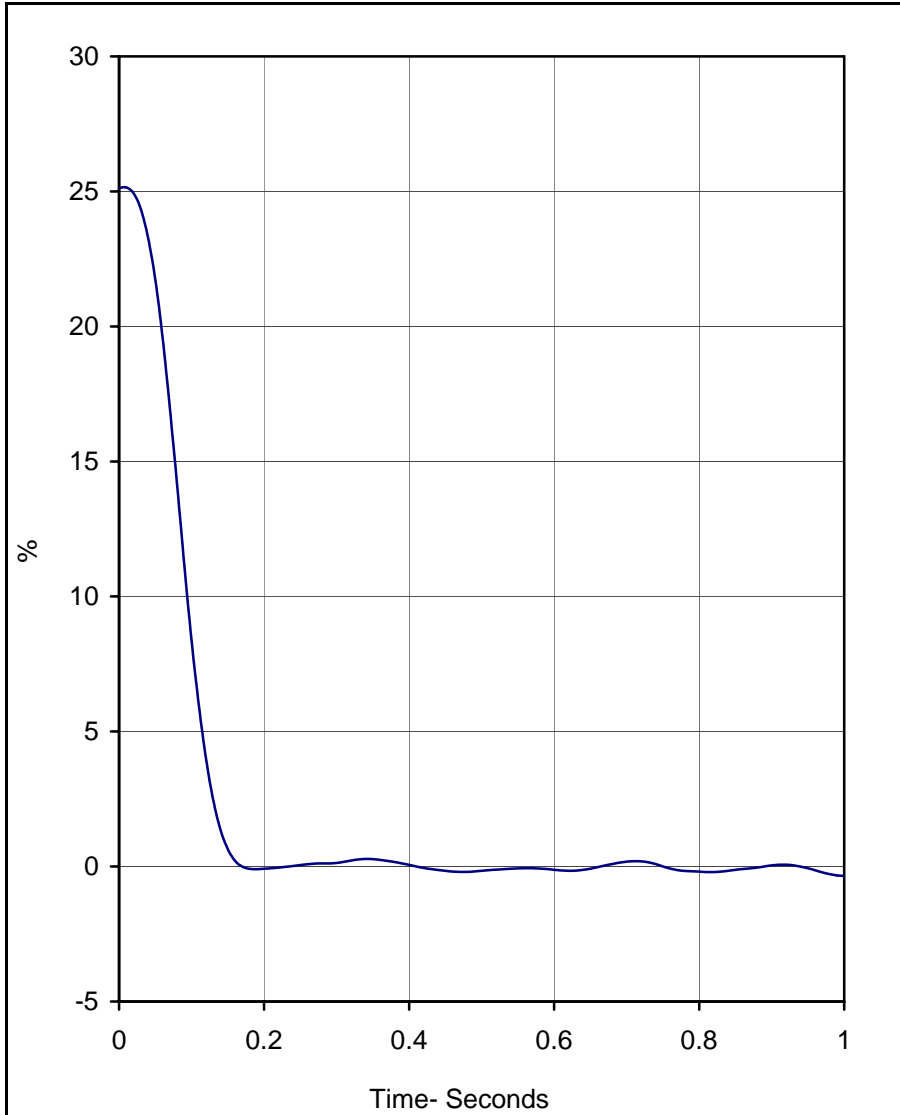
Units	Max	Time	Return Time (msec)	Filter (Hz)
%	100.1	0.0	140.0	5

Units	Max	Time	Min	Time	Filter (Hz)
RPM	3738.2	0.0	675.0	3.6	5

Test Program: FMVSS 124 (Severance of Throttle Cable)
 Test Vehicle: 2006 Dodge Dakota 4-Door Truck

Test Date: 07/11/06
 NHTSA No.: C60302





Curve Description	CURNO	Type
Throttle Position vs. Time	001	FIL

Curve Description	CURNO	Type
Engine RPM vs. Time	002	FIL

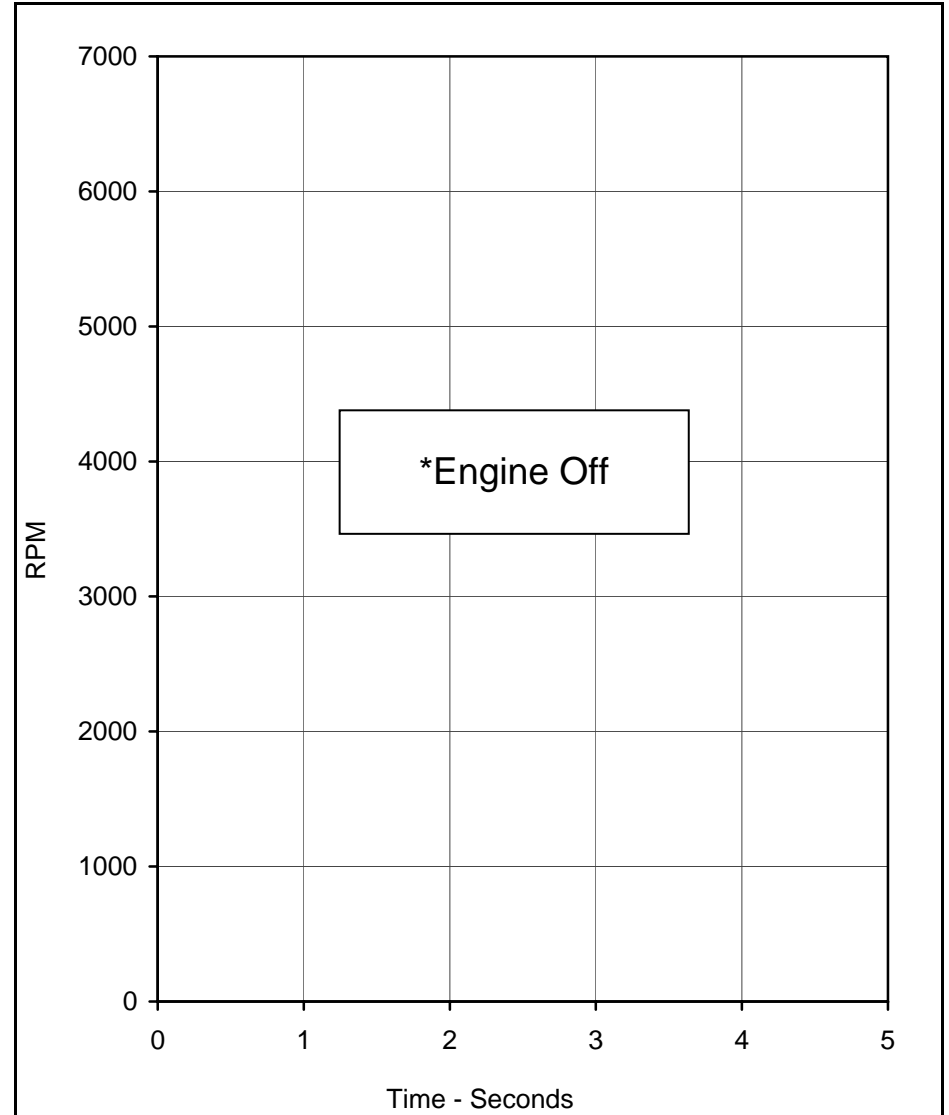
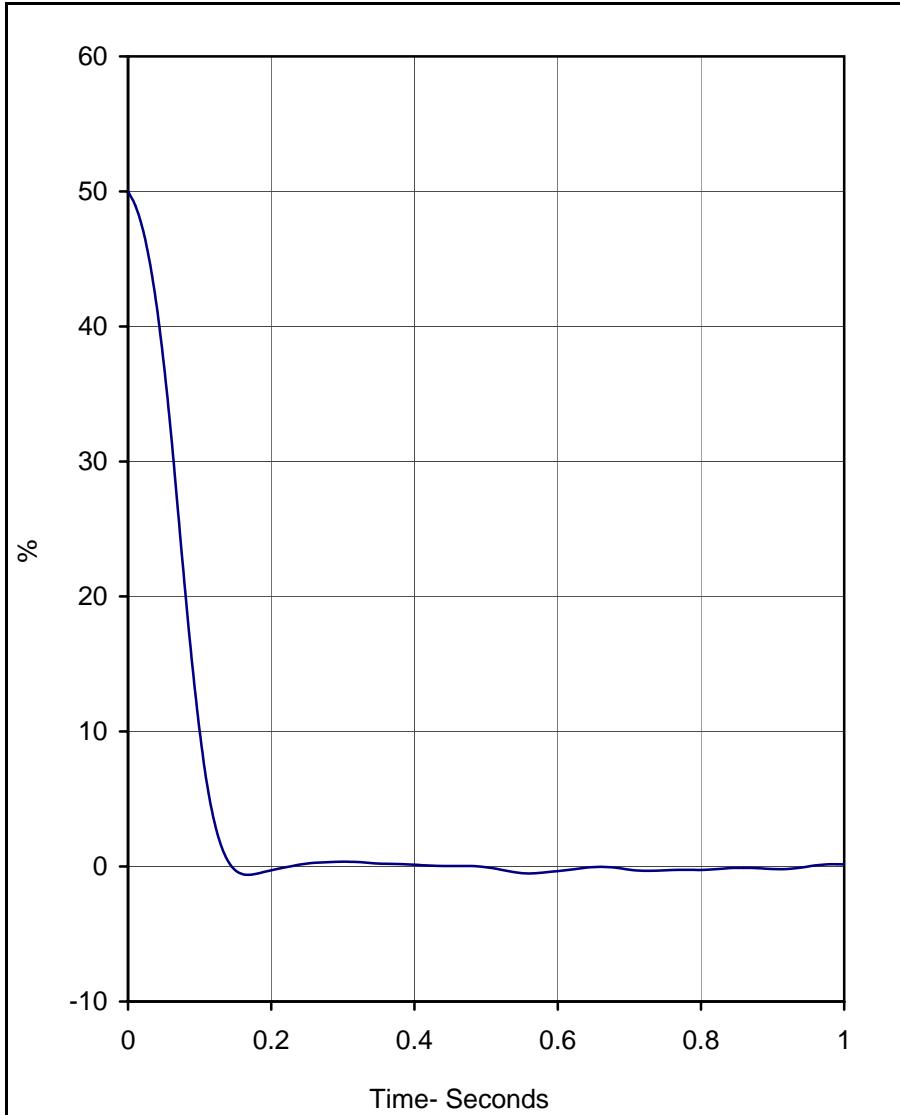
Units	Max	Time	Return Time (msec)	Filter (Hz)
%	25.1	0.0	160.0	5

Units	Max	Time	Min	Time	Filter (Hz)
RPM					

Test Program: FMVSS 124 (Severance of Throttle Cable)
 Test Vehicle: 2006 Dodge Dakota 4-Door Truck

Test Date: 07/11/06
 NHTSA No.: C60302





Curve Description	CURNO	Type
Throttle Position vs. Time	001	FIL

Units	Max	Time	Return Time (msec)	Filter (Hz)
%	50.0	0.0	140.0	5

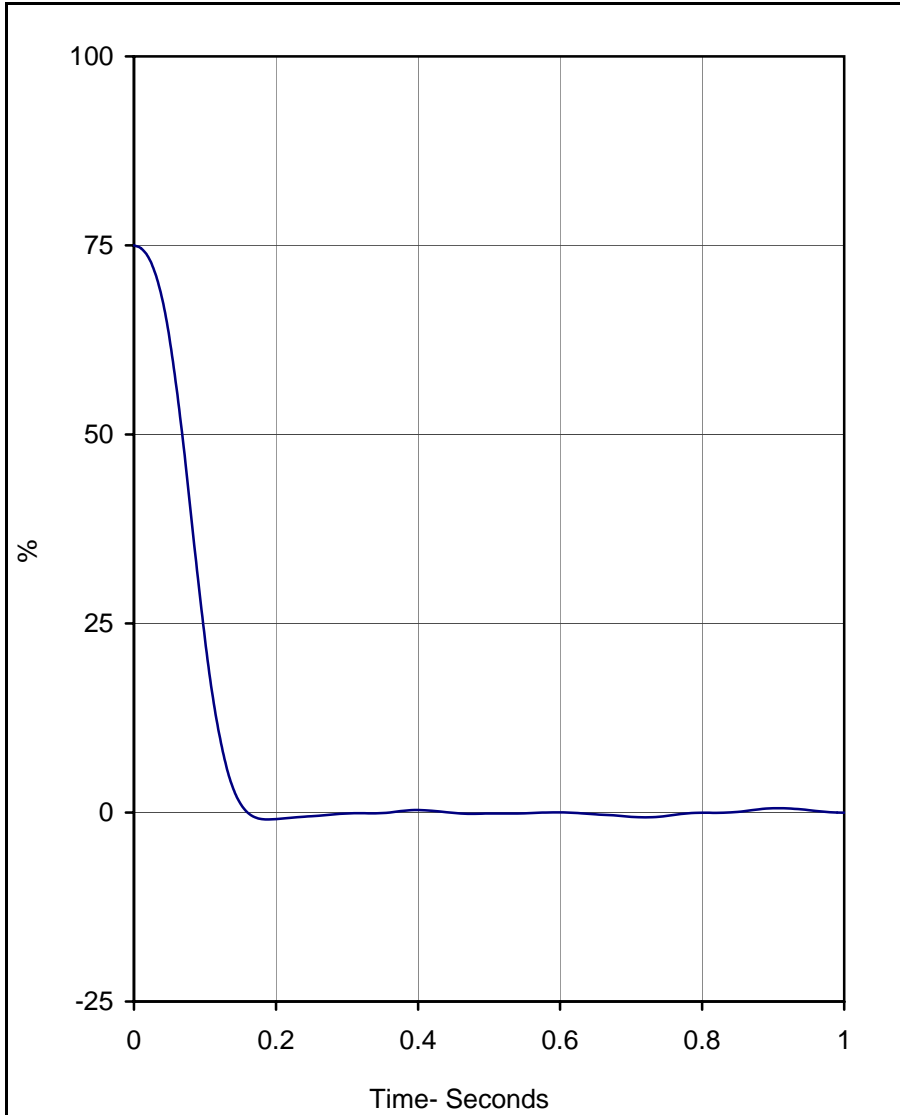
Curve Description	CURNO	Type
Engine RPM vs. Time	002	FIL

Units	Max	Time	Min	Time	Filter (Hz)
RPM					

Test Program: FMVSS 124 (Severance of Throttle Cable)
 Test Vehicle: 2006 Dodge Dakota 4-Door Truck

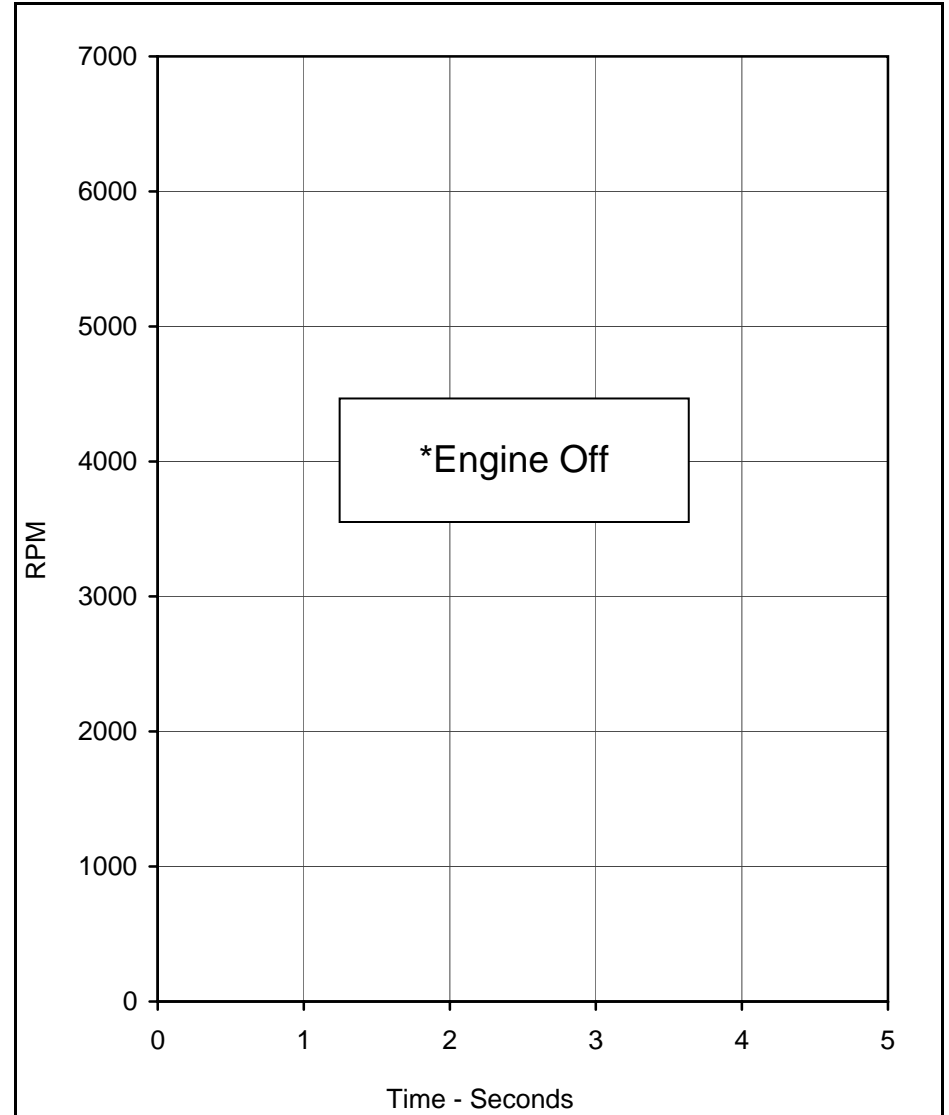
Test Date: 07/11/06
 NHTSA No.: C60302





Curve Description	CURNO	Type
Throttle Position vs. Time	001	FIL

Units	Max	Time	Return Time (msec)	Filter (Hz)
%	75.0	0.0	160.0	5



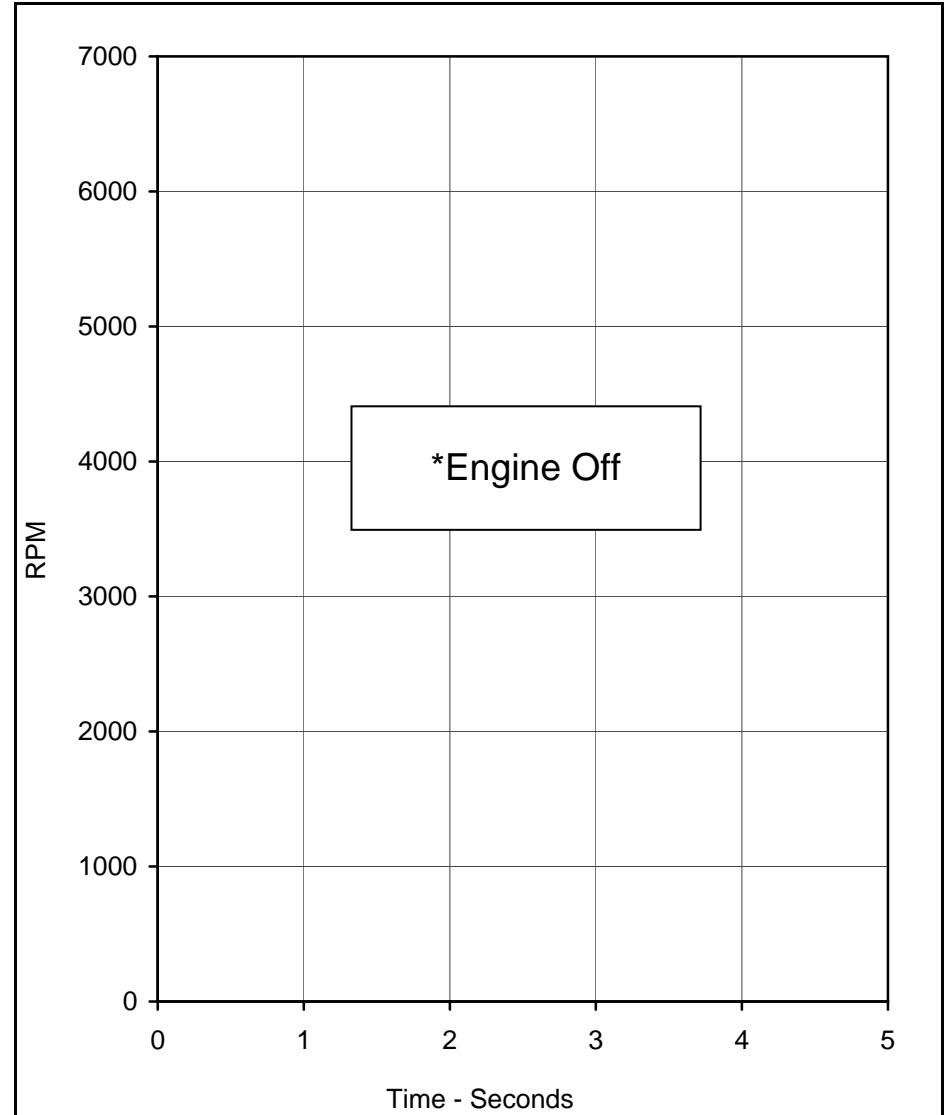
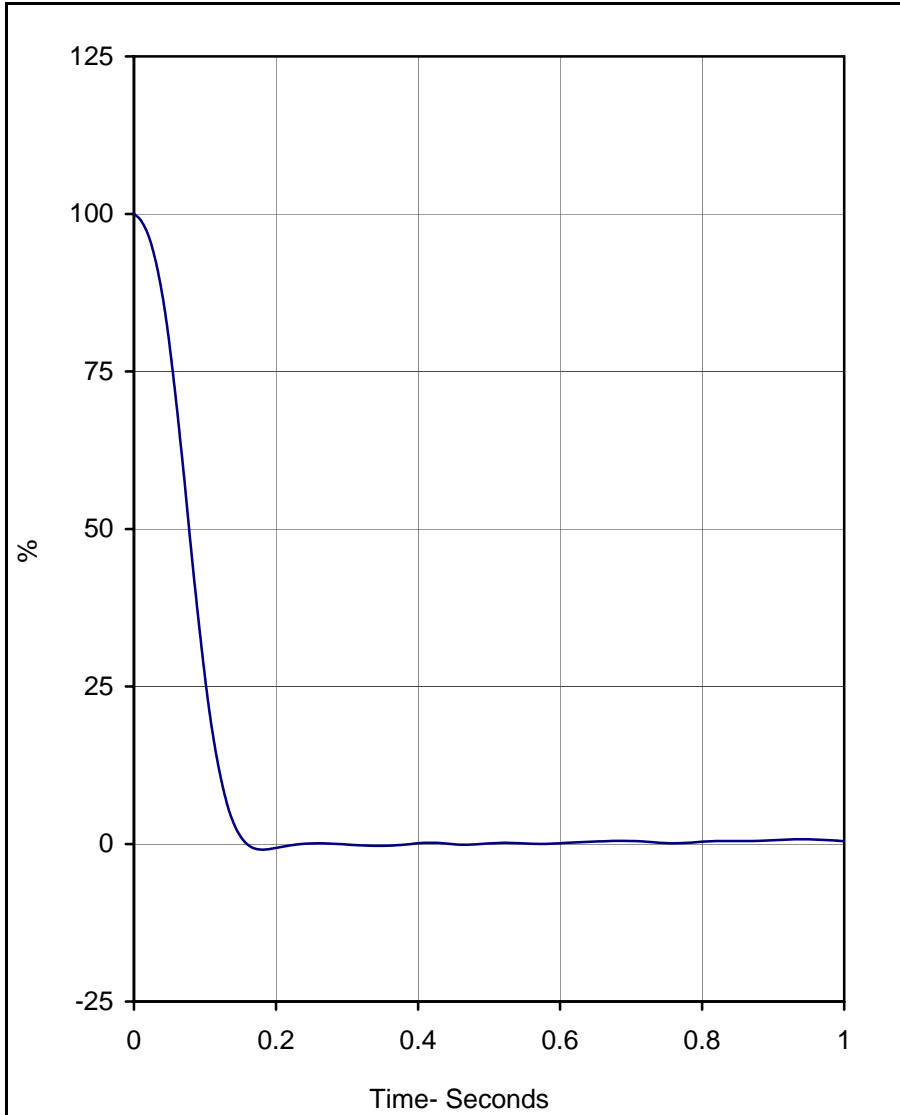
Curve Description	CURNO	Type
Engine RPM vs. Time	002	FIL

Units	Max	Time	Min	Time	Filter (Hz)
RPM					

Test Program: FMVSS 124 (Severance of Throttle Cable)
 Test Vehicle: 2006 Dodge Dakota 4-Door Truck

Test Date: 07/11/06
 NHTSA No.: C60302





Curve Description	CURNO	Type
Throttle Position vs. Time	001	FIL

Units	Max	Time	Return Time (msec)	Filter (Hz)
%	100.0	0.0	160.0	5

Curve Description	CURNO	Type
Engine RPM vs. Time	002	FIL

Units	Max	Time	Min	Time	Filter (Hz)
RPM					

Test Program: FMVSS 124 (Severance of Throttle Cable)
 Test Vehicle: 2006 Dodge Dakota 4-Door Truck

Test Date: 07/11/06
 NHTSA No.: C60302



APPENDIX C
TEST EQUIPMENT LIST

**FMVSS 124 Accelerator Control Systems
Test Equipment List and Calibration Information
07/11/06
2006 Dodge Dakota 4-Door Truck**

Description	Manufacturer	Model No.	Serial No.	Limit	Accuracy	Cal. Date	Due Cal.
TDAS	DTS	TDAS	DM0101	N/A	SAE J211	11/14/05	11/14/06
Computer	Toshiba	PAS4014	X8065355A	N/A	N/A	N/A	N/A
Optical 5th Wheel	Datron	DLS-2	06-262	150 MPH	± 1.0%	06/05/06	06/05/07

