

SECTION

TABLE OF CONTENTS

PAGE

1	INTRODUCTION	3	1
2	THINGS TO KNOW BEFORE STARTING YOUR VEHICLE	11	2
3	UNDERSTANDING THE FEATURES OF YOUR VEHICLE	77	3
4	UNDERSTANDING YOUR INSTRUMENT PANEL	165	4
5	STARTING AND OPERATING	225	5
6	WHAT TO DO IN EMERGENCIES	329	6
7	MAINTAINING YOUR VEHICLE	345	7
8	MAINTENANCE SCHEDULES	393	8
9	IF YOU NEED CONSUMER ASSISTANCE	419	9
10	INDEX / APPENDIX - NAVIGATION USER'S MANUAL	425	10

INTRODUCTION

CONTENTS

■ Introduction	4	■ Vehicle Modifications/Alterations	8
■ A Message From Daimler Trucks North America LLC	5	■ Environmental Concerns And Recommendations.	8
■ How To Use This Manual	5	■ Parts Replacement Considerations	9
■ Warnings And Cautions	7	■ Event Data Recorder	9
■ Van Conversions/Campers	7	■ Installation Of Radio Transmitting Equipment	9
■ Vehicle Identification Number	8		

INTRODUCTION

This Owner's Manual has been prepared with the assistance of service and engineering specialists to acquaint you with the operation and maintenance of your vehicle. It is supplemented by a Warranty Information Booklet and various customer-oriented documents. You are urged to read these publications carefully. Following the instructions and recommendations in this manual will help assure safe and enjoyable operation of your vehicle.

Sterling vehicles are equipped with various chassis and cab components. Not all of the information contained in this manual applies to every vehicle.

NOTE: After you read the manual, it should be stored in the vehicle for convenient referencing and remain with the vehicle when sold, so that the new owner will be aware of all safety warnings.

When it comes to service, remember that your authorized dealer knows your vehicle best, has the factory-trained technicians and genuine Sterling® parts, and is interested in your satisfaction.

When performed on a regular basis, lubricating the parts of your vehicle is the least costly way of obtaining safe and reliable vehicle operation. Added benefits and savings occur when you check that the engine, undercarriage, and noise emission control parts are in good working order during lubrication.

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A MESSAGE FROM DAIMLER TRUCKS NORTH AMERICA LLC

Daimler Trucks North America LLC and Cummins® welcome you as a Cummins® Turbo Diesel-powered truck owner.

Almost 100% of the heavy duty trucks in the United States and Canada are diesel powered because of the fuel economy, rugged durability, and high torque which permits pulling heavy loads. Cummins® engines power well over half of these trucks. Now this same technology and proven performance is yours in your new truck equipped with the Cummins® 6.7 liter, turbocharged, charge air cooled, diesel engine.

Your diesel truck will sound, feel, drive, and operate differently from a gasoline-powered truck. It is important that you read and understand this manual. You may find

that some of the starting, operating, and maintenance procedures are different. However, they are simple to follow and careful adherence to them will ensure that you take full advantage of the features of this engine.

Thank you for choosing the Cummins® Turbo Diesel-powered truck.


HOW TO USE THIS MANUAL

Consult the Table of Contents to determine which section contains the information you desire.

The detailed index at the back of this Owner's Manual contains a complete listing of all subjects.

Consult the following table for a description of the symbols that may be used on your vehicle or throughout this Owner's Manual:

6 INTRODUCTION

											ESP BAS ELECTRONIC STABILITY PROGRAM / BRAKE ASSIST SYSTEM
											
										AWD!	
										4WD!	BRAKE BRAKE SYSTEM WARNING PARKING BRAKE
											TOW/HAUL TOW / HAUL
											4 LOW FOUR WHEEL DRIVE LOW
			SRS AIRBAG SUPPLEMENTAL RESTRAINT SYSTEM								

WARNINGS AND CAUTIONS

This Owner's Manual contains **WARNINGS** against operating procedures that could result in an accident or bodily injury. It also contains **CAUTIONS** against procedures that could result in damage to your vehicle. If you do not read this entire manual, you may miss important information. Observe all Warnings and Cautions.

VAN CONVERSIONS/CAMPERS

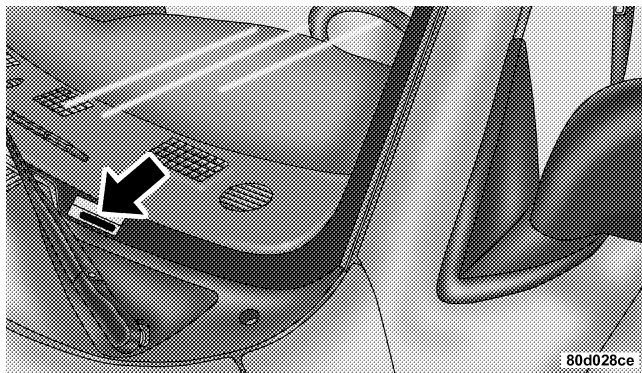
The Manufacturer's Warranty does not apply to body modifications or special equipment installed by van conversion/camper manufacturers/body builders. Refer to the Warranty information book, Section 2.1.C. Such equipment includes video monitors, VCRs, heaters, stoves, refrigerators, etc. For warranty coverage and service on these items, contact the applicable manufacturer.

Operating instructions for the special equipment installed by the conversion/camper manufacturer should also be supplied with your vehicle. If these instructions are missing, please contact your authorized dealer for assistance in obtaining replacement documents from the applicable manufacturer.

For information on the Body Builders Guide refer to: www.SterlingTrucks.com. This website contains dimensional and technical specifications for your vehicle. It is intended for Second Stage Manufacturer's technical support. For service issues, contact your authorized dealer.

VEHICLE IDENTIFICATION NUMBER

The Vehicle Identification Number (VIN) is found on the left front corner of the instrument panel, visible through the windshield. This number also appears on the Automobile Information Disclosure Label affixed to a window on your vehicle, the vehicle registration and title.



Vehicle Identification Number

NOTE: It is illegal to remove the VIN.

VEHICLE MODIFICATIONS/ALTERATIONS

WARNING!

Any modifications or alterations to this vehicle could seriously affect its roadworthiness and safety and may lead to an accident resulting in serious injury or death.

ENVIRONMENTAL CONCERNS AND RECOMMENDATIONS

Whenever you see instructions in this manual to discard materials, you should first attempt to reclaim and recycle them. To preserve our environment, follow appropriate environmental rules and regulations when disposing of materials.

PARTS REPLACEMENT CONSIDERATIONS

Do not replace suspension, axle, or steering parts (such as springs, wheels, hubs, and steering gears) with used parts. Used parts may have been subjected to collisions or improper use and have undetected structural damage.

EVENT DATA RECORDER

This vehicle is equipped with one or more devices that record specific vehicle data. The type and amount of data recorded varies depending on how the vehicle is equipped.

INSTALLATION OF RADIO TRANSMITTING EQUIPMENT

Special design considerations are incorporated into this vehicle's electronic system to provide immunity to radio frequency signals. Mobile two-way radios and telephone equipment must be installed properly by trained personnel. The following must be observed during installation.

The positive battery connection should be made directly to the battery and fused as close to the battery as possible. The negative power connection should be made to body sheet metal adjacent to the negative battery connection. This connection should not be fused.

Antennas for two-way radios should be mounted on the roof or rear area of the vehicle. Care should be used when mounting antennas with magnet bases. Magnets may affect the accuracy or operation of the compass on vehicles so equipped.

The antenna cable should be as short as practical and routed away from the vehicle wiring when possible. Use only fully shielded coaxial cable.

Carefully match the antenna and cable to the radio to ensure a low Standing Wave Ratio (SWR).

Mobile radio equipment with output power greater than normal may require special precautions.

All installations should be checked for possible interference between the communications equipment and the vehicle's electronic systems.

THINGS TO KNOW BEFORE STARTING YOUR VEHICLE

CONTENTS

■ A Word About Your Keys	14	□ General Information	21
□ Ignition Key Removal	15	■ Vehicle Security Alarm — If Equipped	22
□ Locking Doors With The Key	18	□ Rearming Of The System	22
■ Steering Wheel Lock — If Equipped	18	□ To Set The Alarm	22
□ To Manually Lock The Steering Wheel	18	□ To Disarm The System	23
□ To Release The Steering Wheel Lock	18	■ Illuminated Entry System — If Equipped	23
■ Sentry Key®	18	■ Remote Keyless Entry — If Equipped	24
□ Replacement Keys	20	□ To Unlock The Doors	24
□ Customer Key Programming	20	□ To Lock The Doors	25

12 THINGS TO KNOW BEFORE STARTING YOUR VEHICLE

- Using The Panic Alarm 26
- Programming Additional RKE Transmitters . . . 27
- General Information 27
- Transmitter Battery Service 28
- Door Locks 29
 - Manual Door Locks — If Equipped 29
 - Power Door Locks — If Equipped 29
 - Child Protection Door Lock 32
- Windows 34
 - Power Windows — If Equipped 34
 - Power Sliding Rear Window — If Equipped . . 35
 - Sliding Rear Window — If Equipped 36
 - Wind Buffeting 36
- Occupant Restraints 36
 - Lap/Shoulder Belts 37
 - Adjustable Upper Shoulder Belt Anchorage . . . 45
 - Automatic Locking Restraint (ALR) Mode —
If Equipped 46
 - Center Lap Belts 46
 - Enhanced Seat Belt Use Reminder System
(BeltAlert®) 47
 - Seat Belts And Pregnant Women 48
 - Seat Belt Extender 48
 - Driver And Right Front Passenger
Supplemental Restraint System (SRS) —
Airbag 49
 - Event Data Recorder (EDR) 58

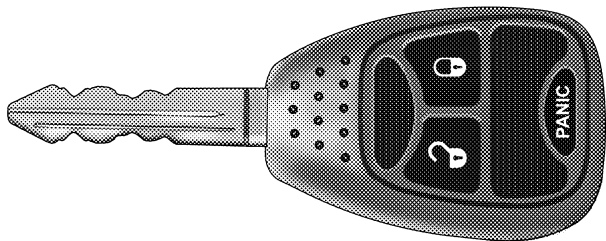
THINGS TO KNOW BEFORE STARTING YOUR VEHICLE 13

- Child Restraint 60
- Engine Break-In Recommendations 72
- Safety Tips 73
 - Transporting Passengers 73
 - Exhaust Gas 73

- Safety Checks You Should Make Inside The Vehicle 74
- Periodic Safety Checks You Should Make Outside The Vehicle 75

A WORD ABOUT YOUR KEYS

The authorized dealer that sold you your new vehicle has the key code numbers for your vehicle locks. These numbers can be used to order duplicate keys from your authorized dealer. Ask your authorized dealer for these numbers and keep them in a safe place.



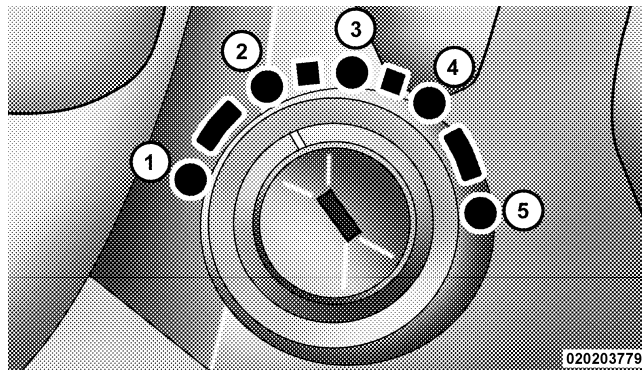
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Ignition Key

Ignition Key Removal

Automatic Transmission — If Equipped

Place the shift lever in PARK. Turn the ignition switch to the LOCK position, and remove the key.



Ignition Switch Positions

- | | |
|---------------------|------------|
| 1 — ACC (ACCESSORY) | 4 — ON/RUN |
| 2 — LOCK | 5 — START |
| 3 — OFF | |

NOTE:

- If you try to remove the key before you place the shift lever in PARK, the key may become trapped temporarily in the ignition cylinder. If this occurs, rotate the key to the right slightly, then remove the key as described. If a malfunction occurs, the system will trap the key in the ignition cylinder to warn you that this safety feature is inoperable. The engine can be started and stopped but the key cannot be removed until you obtain service.
- For vehicles not equipped with the Electronic Vehicle Information Center (EVIC), the power window switches, radio, hands-free system (if equipped), and power outlets will remain active for 10 minutes after the ignition switch is turned OFF. Opening either front door will cancel this feature.
- For vehicles equipped with the Electronic Vehicle Information Center (EVIC), the time for this feature is

programmable. Refer to “Personal Settings (Customer-Programmable Features) KEY OFF POWER DELAY > OFF” under “Electronic Vehicle Information Center (EVIC)” in Section 3.

WARNING!

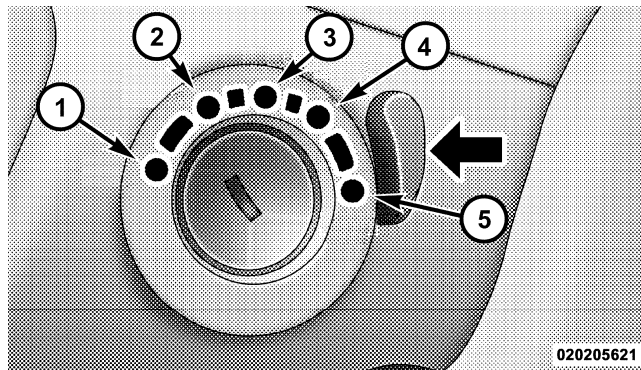
Never leave children alone in a vehicle. Leaving unattended children in a vehicle is dangerous for a number of reasons. A child or others could be seriously or fatally injured. Don't leave the keys in the ignition. A child could operate power windows, other controls, or move the vehicle.

CAUTION!

An unlocked car is an invitation to thieves. Always remove key from the ignition and lock all doors when leaving the vehicle unattended.

Manual Transmission — If Equipped

When the steering wheel is in the LOCK position, the steering and ignition systems are locked to provide anti-theft protection for your vehicle. It may be difficult to turn the key from the LOCK position when starting your vehicle. Move the steering wheel left and right while turning the key until it turns easily. To remove the key, depress and hold the release button located between the ignition switch and the instrument panel. Turn the ignition key to LOCK and remove the key.



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Ignition Key Release Button

- | | |
|---------------------|------------|
| 1 — ACC (ACCESSORY) | 4 — ON/RUN |
| 2 — LOCK | 5 — START |
| 3 — OFF | |

Locking Doors with the Key

You can insert the key with either side up. To lock the door, turn the key rearward; to unlock the door, turn the key forward. For external door lock lubrication, refer to “Body Lubrication” in Section 7.

STEERING WHEEL LOCK — IF EQUIPPED

Your vehicle may be equipped with a passive steering wheel lock. This lock prevents steering the vehicle without the ignition key. If the steering wheel is moved approximately a half turn in either direction and the key is not in the ignition switch, the steering wheel will lock.

To Manually Lock the Steering Wheel

With the engine running, turn the steering wheel upside down, turn off the engine and remove the key. Turn the steering wheel slightly in either direction until the lock engages.

To Release the Steering Wheel Lock

Insert the key in the ignition switch and start the engine. If the key is difficult to turn, move the wheel slightly to the right or left to disengage the lock.

NOTE: If you turned the wheel to the right to engage the lock, you must turn the wheel slightly to the right to disengage it. If you turned the wheel to the left to engage the lock, turn the wheel slightly to the left to disengage it.

SENTRY KEY®

The Sentry Key® Immobilizer System prevents unauthorized vehicle operation by disabling the engine. The system does not need to be armed or activated. Operation is automatic, regardless of whether the vehicle is locked or unlocked.

The system uses ignition keys that have an embedded electronic chip (transponder) to prevent unauthorized vehicle operation. Therefore, only keys that are programmed to the vehicle can be used to start and operate the vehicle. The system will shut the engine off in two seconds if someone uses an invalid key to try to start the engine.

NOTE: A key that has not been programmed is also considered an invalid key, even if it is cut to fit the ignition switch lock cylinder for that vehicle.

During normal operation, after turning on the ignition switch, the Vehicle Security Light will turn on for three seconds for a bulb check. If the light remains on after the bulb check, it indicates that there is a problem with the electronics. In addition, if the Vehicle Security Light begins to flash after the bulb check, it indicates that someone used an invalid key to try to start the engine. Either of these conditions will result in the engine being shut off after two seconds.

If the Vehicle Security Light turns on during normal vehicle operation (vehicle running for longer than 10 seconds), it indicates that there is a fault in the electronics. Should this occur, have the vehicle serviced as soon as possible.

NOTE:

- The Sentry Key® Immobilizer System is not compatible with some aftermarket remote starting systems. Use of these systems may result in vehicle starting problems and loss of security protection.
- Exxon/Mobil Speedpass™, additional Sentry Keys®, or any other transponder-equipped components on the same key chain will **not** cause a key-related (transponder) fault unless the additional part is **physically held against the ignition key** being used when starting the vehicle. Cell phones, pagers, or other Radio Frequency (RF) electronics will not cause interference with this system.

2009 Sterling Bullet Driver S And Maintenance Manual

Download <http://www.ManualPlace.com/2009-sterling-bullet-driver-s-and-maintenance-manual/>

All of the keys provided with your new vehicle have been programmed to the vehicle electronics.

Replacement Keys

NOTE: Only keys that are programmed to the vehicle electronics can be used to start and operate the vehicle. Once a Sentry Key® is programmed to a vehicle, it cannot be programmed to any other vehicle.

CAUTION!

Always remove the Sentry Keys® from the vehicle and lock all doors when leaving the vehicle unattended.

At the time of purchase, the original owner is provided with a four-digit Personal Identification Number (PIN). Keep the PIN in a secure location. This number is required for authorized dealer replacement of keys. Duplication of keys may be performed at an authorized

dealer or by following the customer key programming procedure. This procedure consists of programming a blank key to the vehicle electronics. A blank key is one that has never been programmed.

NOTE: When having the Sentry Key® Immobilizer System serviced, bring all vehicle keys with you to an authorized dealer.

Customer Key Programming

If you have two valid Sentry Keys®, you can program new Sentry Keys® to the system by performing the following procedure:

1. Cut the additional Sentry Key® Transponder blank(s) to match the ignition switch lock cylinder key code.
2. Insert the first valid key into the ignition switch. Turn the ignition switch to the ON position for at least three seconds, but no longer than 15 seconds. Then, turn the ignition switch to the LOCK position and remove the first key.