

International® CV™ Series

Operation and Maintenance Manual

Navistar, Inc.

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IMPORTANT

The information, specifications, and illustrations contained in this manual are based on data that was current at the time of publication. Navistar, Inc. reserves the right to make changes and/or improvements at any time without notification, liability, or without applying those changes or improvements to vehicles previously manufactured and/or sold.

NOTICE

Be advised that this motor vehicle may be equipped with computer / recording devices. Their function is to allow an authorized individual to download data or information relating to the operation or performance of this vehicle.

The stored data or information may be neither downloaded nor retrieved except by the vehicle's registered owner, or, in the alternative, by another individual or entity authorized by the registered owner, (e.g., International® dealer) who may need this data or information to properly service or diagnose this vehicle for repair or following an accident.

Any access to this information without the owner's consent may be in violation of law and may subject that person or entity to criminal penalties.

CALIFORNIA

Proposition 65 Warning



WARNING Breathing diesel engine exhaust exposes you to chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

- Always start and operate the engine in a well-ventilated area
- If in an enclosed area, vent the exhaust to the outside.
- Do not modify or tamper with the exhaust system.
- Do not idle the engine except as necessary.

For more information go to www.P65warnings.ca.gov/diesel

Battery posts, terminals and other related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Wash hands after handling.

SECTION 1 — FOREWORD

Preface

Your vehicle has been engineered and manufactured so that it can provide economical and trouble-free service. However, it is the owner's responsibility to see that the vehicle receives proper care and maintenance.

Making modifications to various parts, components, and systems of your vehicle, such as brake, suspension, and steering systems, can adversely affect the quality and reliability of your vehicle. Such modifications must be avoided.

NOTE: The contents of this manual will be general and may not reflect the most current vehicle configuration. If the content of this manual does not provide the explanation needed to understand or operate the feature you are using, please contact your local International® dealer for the most up to date information.

Cautions and Warnings

Throughout this manual, you will find Cautions and Warnings:



WARNING

Warnings advise you of hazards, the consequences, and what to do to prevent them, not only to prevent damage to your vehicle or property, but to help prevent situations and occurrences, which could result in personal injury or death.



CAUTION

Cautions will advise you of the proper care to be taken to prevent damage to your vehicle or property.

Study this manual carefully. Do not operate your vehicle until you are completely familiar with the contents of this manual. Always retain this manual in your vehicle for reference. If you sell the vehicle, make sure the manual goes with it.

Assistance Guide

When parts are required, always provide the unit code number, vehicle model, and vehicle serial number. Request the salesperson to assist you in obtaining this information upon delivery.

For information not given in this manual, or if you require services of trained service personnel, we urge you to contact a nearby International dealer or phone 1-800-44-TRUCK (87825) for assistance.

Every customer is entitled to the best service, both from the product itself and from the firm that sells and services that product.

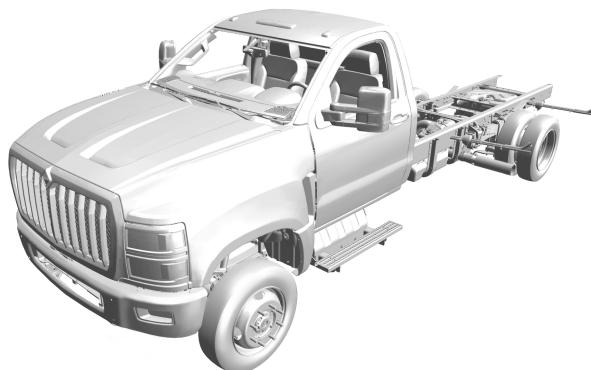
SECTION 2 — MODEL DESCRIPTION

Introduction

International® CV™ Series vehicles are medium duty conventional trucks, with either a standard or a 4 x 4 driveline configuration. The CV Series is available in Day Cab and Crew Cab models.

This operation and maintenance manual covers all versions. Illustrations in this manual are used for reference only and may differ slightly from the actual vehicle. However, key components addressed in the manual are represented as accurately as possible. Models covered are shown on the following pages.

Available Models



0000419704

Day Cab



0000419703

Crew Cab

Model Description

Vehicle Identification

Vehicle Identification Number (VIN)



The Vehicle Identification Number (VIN) is located on the driver-side door frame (B-pillar). The VIN and model description are necessary when ordering replacement parts or service manuals.

Feature Codes

Feature Codes are the basis for identifying the components used on International® trucks. They are used by sales personnel to order the truck, by manufacturing to build that truck, and by parts personnel to service the truck. Many items in this manual are identified by codes.

Feature Codes are a combination of numbers and / or letters. These codes are listed on the Line Set Ticket, which is sometimes known as the vehicle specification card or code sheet.

Engine Serial Number

The engine dataplate provides the engine serial number as well as other engine information. For the location of this plate and more information about engine components and engine identification, refer to the Engine Operation and Maintenance Manual.

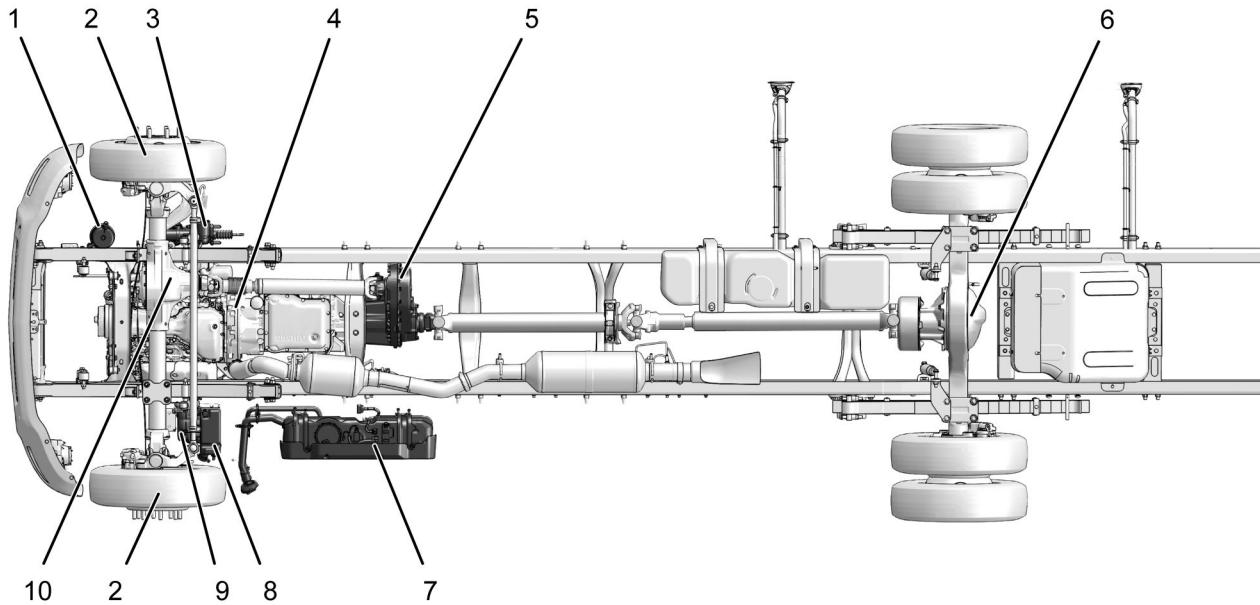
Line Set Ticket

NOTE: Be sure to return the Line Set Ticket to the vehicle after obtaining parts.

Each vehicle is provided with a Line Set Ticket (code sheet), which lists identification code numbers of component units used to build the vehicle.

One copy of the Line Set Ticket is included in the literature provided with the vehicle. When replacement parts are required, take this copy with you to positively identify vehicle components to be sure of getting the correct parts.

Components Requiring Fluid Check and Fill



1. Power steering fluid reservoir
2. Front axle oil-filled hub (2)
3. Hydraulic brake fluid reservoir
4. Automatic transmission dipstick / fluid level (out of view)
5. Transfer case (4x4 only)
6. Rear axle oil fill / level check plug
7. Diesel Exhaust Fluid (DEF) tank
8. Windshield washer fluid bottle
9. Coolant deaeration tank
10. Engine oil dipstick (out of view)

Maintenance Intervals and Specifications

Unit Refill Capacities

Front Drive Axles (4x4 Only)

Model	Liters	Pints
Dana Spicer 60-256	2.6	5.5

Rear Axle Unit Refill Capacities

Model	Liters	Pints
Dana Spicer S110	5.9	12.5
Dana Spicer S130	5.9	12.5

Cooling System Refill Capacities

Cooling system refill capacities vary considerably due to differences in engine models and optional equipment, in addition to the amount of coolant remaining in the system after draining. Total capacity is approximately 8 gallons (30 liters).

If the system has been flushed with water or cleaner, a significant amount of the rinse water will remain in the system. In this case, refilling with a mixture with a higher percentage (60 – 66%) of coolant concentrate is advised in order to achieve a final mixture closer to 50/50. Fill the system and run the vehicle until the thermostat opens. Before adding any fluid, check the coolant concentration and add additional water or concentrated undiluted coolant to adjust the concentration. Run the vehicle and retest for coolant volume level (set to MAX line) and concentration level.

Diesel Exhaust Fluid Tank

Diesel Exhaust Fluid (DEF) tank refill capacity is 7 gallons (26.5 liters).

Crankcase and Oil Filters

For specific engine crankcase capacities, refer to separate Engine Operation and Maintenance Manual provided with vehicle.

Power Steering Systems

Steering Gear	Power Steering Fluid Volume (pints / liters)
BOSCH S2 8014 PLUS	8.5 pints / 4 liters

*Approximate refill quantity. Refer to power steering reservoir for proper fill marks

Transfer Case (4x4 Only)

Viscosity	Capacity
40W full synthetic. Must meet Meritor specification (0-81) or SAE J2360.	6.0 pints / 2.84 liters

Transmission

NOTE: A variety of transmissions are available for your vehicle. Refer to the Original Equipment Transmission Manufacturer for the most up-to-date specific service instructions, required capacities, and transmission fluids.

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