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# INTERNATIONAL<sup>®</sup> DT530 & HT530

Equipped with International<sup>®</sup> Diamond Logic<sup>®</sup> Engine Control Module

## Engine Operation and Maintenance Manual

**Navistar, Inc.**

2701 Navistar Drive, Lisle, IL 60532 USA

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INTERNATIONAL<sup>®</sup> DT530 & HT530  
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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

Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects, and other reproductive harm.

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

Wash hands after handling.

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# INTRODUCTION

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## To The Operator

### SAFETY TERMINOLOGY

Three terms are used in this manual to stress your safety and safe operation of the engine: **Warning**, **Caution**, and **Note**.

**Warning:** Signals conditions, hazards, and unsafe practices that can cause injury or death.

**Caution:** Signals conditions and practices that can cause damage to the engine or vehicle.

**Note:** A note signals a key point or procedure that must be followed for correct, efficient engine operation.

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

### Safety Precautions

#### **A CAREFUL OPERATOR IS THE BEST INSURANCE AGAINST AN ACCIDENT.**

Wear proper safety equipment as required for the job. These may include: hard hat, safety shoes, ear protectors, reflective clothing, safety goggles and heavy gloves.

Always wear safety glasses.

Be sure to wear safe work clothing and shoes. They should be well fitted and in good repair.

Do not wear rings, wrist watches, jewelry, loose or hanging apparel that can catch on moving parts causing serious injury.

Quick access to a **FIRST AID KIT** should be provided at all times.

It is recommended that a **FIRE EXTINGUISHER** be provided at an accessible location.

Provide proper ventilation when operating an engine in a closed area to remove deadly exhaust gases. Breathing of exhaust fumes may be fatal.

Keep engine exhaust system and exhaust manifolds clear of combustible material.

Be sure the operator's area is clean, organized and free of obstructions. Remove or secure all maintenance or personal items.

Be sure that everything is clear before starting the engine.

Engine should be operated or serviced only by those who are qualified, responsible and delegated to do so.

**CAUTION:** To avoid engine damage, do not use starting fluid.

Do not use an open flame as a light source to look for leaks or for inspection anywhere on the truck.

# INTRODUCTION

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## Safety Precautions (cont.)

Always shift the transmission to neutral or park, stop engine, set parking brake, block the wheels, and remove start key before permitting anyone to inspect, clean, lubricate, adjust, or repair any part of the engine or its attachments unless otherwise specifically recommended in this manual.

When it is required to make any checks with the engine running, always use two people; one person must be at the operator's position while the other does the checking. As an added precaution, when making checks with the engine running, apply and lock the parking brake.

Be sure that the gear shift lever is in neutral or park before starting the engine.

Always be sure that all shields, guards and access covers are in place when engine is in operation.

Avoid running engines with unprotected air inlets or exhaust openings. If such running is unavoidable for service reasons, place protective screens over all openings before servicing engine.

Do not operate an engine with an unsafe condition. If one is noticed, tag engine and ignition key, if equipped, so others will also know.

Do not place head, body, limbs, feet, fingers or hands near a rotating fan, belt, or power driven part.

Do not adjust the engine when the vehicle is in motion.

Electric storage batteries give off highly flammable hydrogen gases. To prevent possible explosion, never allow lighted smoking material, an open flame, or electrical sparks near the battery. Do not lay tools or other conductive materials on the battery where they may cause short circuits and sparks.

Always disconnect batteries and TAG all controls according to OSHA requirements before working on electrical system and to warn that work is in progress. Be sure to connect the battery cables to proper terminals (+ to +) and (- to -) at both ends. Avoid shorting battery cables.

Because battery gas is highly flammable, leave battery box open to improve ventilation when charging batteries. Never charge batteries in a closed area. Provide proper ventilation to guard against an accidental explosion from an accumulation of gases given off in the charging process.

Fluid in electric storage batteries contain sulfuric acid which can cause severe burns. Avoid all contact of fluid with the eyes, skin, or clothing. If contact does occur, flush immediately with large amounts of water. Get prompt medical attention.

Never attempt to check or adjust rotating parts when engine is running.

Always permit parts that contain hot fluid to cool to a safe temperature before handling or disconnecting.

Shut off engine and be sure all pressure in system has been relieved before removing panels, housing covers, and caps.